						REGIONAL ASSESSMENT REPORT ON BIODIVERSITY AND ECOSYSTEM SERVICES FOR EUROPE AND CENTRAL ASIA Comments external review second order draft - Chapter 2	
Reviewer Name	Chapter / SPM	From Page	From Line	To Page	To Line	Comment	Response
Ilja Gasan Osojnik Črnivec	0	0	()		local and native breeds are two interchangeable terms, for greater clarity, I would reccomentd only one expression is used for the whole publication.	The two terms address slightly different issues, as local breeds denotes breeds present only in a distinct region, and native breeds denotes breeds which had sufficient time to adapt to specific local conditions.
Brendan Coolsaet Brendan Coolsaet	0	0	(All documents include big differences in the quality of the writing. Everything should be thoroughly proof-read and edited by native speakers. Use of genetic resources and Nagoya protocol are notably absent in most of the chapters	This has been done throughout Limited or unequal access to NCP or genetic resources is now mentioned where appropriate.
Brendan Coolsaet	0	0				For reviewing purposes, it may be useful to indicate the gender-balance and 'discipline-balance' within the group of authors (could be illustrated with a gauge at the beginning of each doc for example). This will facilitate identifying biases	The complete authorship is listed at the beginning of each chaper. Statistics on gender and disciplinary balance are available from the ECA TSU and IPBES Secretariat
Germany	0	0	(We believe that the regional ECA assessment generally has a comprehensive and scientifically sound structure. However, linkages between the chapters, especially for chapters 6, are not that strong yet. For instance, it is not clear in how far chap. 6 builds upon the findings and insights of the analyses within the previous chapters. While the review work, analyses and evaluations made in these chapters are by themselves very insightful, linking more strongly back to the status and trends chapter as well as the drivers/scenarios/visions and pathways chapters would be very useful. For instance, the 'status and trends' chapter 3 might help identify where policy action is most needed and the 'drivers' chapter 4 determines the underlying drivers which need to be addressed by policy action. Giving more weight to these chapters in the discussion of policy options might help to derive more region-based options As it stands now, many key messages of chapter 6 are of a more general nature.	chapters to ensure consistency between them. All chapter texts were screened for potential opportunities for governance or management action
Germany	0	0				This assessment shows some imbalances regarding a lack of coherence in the use of terminology: This can lead to different understandings and also to misinterpretations. For instance, at its last Plenary, the IPBES had agreed to use the term "nature's contributions to people" (NCP) as a synonym for the term "ecosystem services". Unfortunately, the term NCP is now being used in the assessment frequently in a modified form and therefore inconsistently. This aspect needs to be addressed in the assessment as well as in the SPM.	Terminology was systematically checked across the full report
Germany	0	0				There are significant contributions and benefits arising from agro-ecosystems. The increase in food, feed and timber production and resulting food security has been mentioned, but not thoroughly discussed. We would therefore ask the authors to extend this discussion and provide a more balanced perspective on the increase in food security over the last decades. Furthermore, information on traditional varieties and breeds or on genetic resources for food and agriculture is missing. Thus, the contributions of agriculture to the biological diversity in the agricultural sector have not been completely considered so far.	
Germany	0	0	()		Regarding kowledge gaps - please provide a section at the end of each chapter to present the relevant knowledge gaps that were identified from the reviews (for chapter 3 it's missing). is refered to in the SPM, p. 8 l. 233 that relevant knowledge gaps are identified, so please ensure that all knowledge gaps identified throughout the individual chapters are then summarized and assessed in the corresponding section of knowledge gaps and uncertainties towards the end of each chapter.	
Germany	0	0	()		Some of the chapters (particularly 2, 3, 4, 6) are very long and readers easily loose track as to what type of information is currently presented. Please try to synthesize the information as much as possible and if a lot of information is to be presented provide short summaries or highly important findings.	All of the chapters have been reduced considerably in length
Germany	0	0	(There are still some gaps, placeholders or work in progress in the SOD. This makes it partly difficult to comment. Please fill these gaps effectively. We urgently request the chapter authors to ensure that all facts and figures contained in the chapters are accurately cited and adequately referenced with up-to-date sources. We also encourage chapter authors to cross-check whether the same facts and figures on a specific topic are being used throughout the assessment. Please make sure that all key messages are	Gaps have been filled throughout the document The use of evidence sources has been comprehensively checked across the
Germany	0	0	()	ļ	backed up by facts and figures.	document, especially including those that integrate across chapters
Germany Belgian government - Hilde Eggermont (IPBES National Focal Point)	0	0)		Please explain all abbreviations when first used and then use them coherently afterwards (e.g., ILKP in the SPM) All documents include big differences in the quality of the writing. Everything should be thoroughly proof-read and edited by native speakers.	All abbreviations have either been spelt-out or defined on first use The document has been comprehensively reviewed by native English speakers.
Belgian government - Hilde Eggermont (IPBES National Focal						Use of genetic resources and Nagoya protocol are notably absent in most of the chapters	Limited or unequal access to NCP or genetic resources is now mentioned
Point) Belgian government - Hilde Eggermont (IPBES National Focal Point)	0	0		0		For reviewing purposes, it may be useful to indicate the gender-balance and 'discipline-balance' within the group of authors (could be illustrated with a gauge at the beginning of each doc for example). This will facilitate identifying biases	where appropriate. The complete authorship is listed at the beginning of each chaper. Statistics on gender and disciplinary balance are available from the ECA TSU and IPBES Secretariat
Belgian government - Hilde Eggermont (IPBES National Focal Point)	0	0	(no reference to Nature-based solutions, though very relevant in this assessment (i.e. In the different Chapters and SPM)	The NBS concept is referenced where there is literature and evidence to support its use
Anatoliy Khapugin	0	0	(0 0) 0	Through the whole assessment, there are many cases of mixture English (British+American): e.g., ch.1, p. 12, line 333 (prioritize) vs. ch.1, p. 4, line 83 (recognised), etc. I think, some or of English forms should be used through the whole assessment. Also, there are many mistakes (or it is a lack of standards of formatting) for references style. I would revommend check through the whole assessment. I didn't add concrete recommendations because I don't know what format of references and references style should be used	
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	s 0	0	()		We would recommend that the IPBES Core Indicator 'Marine Trophic Index' is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Dirk Zeller (email: d.zeller@oceans.ubc.ca).	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	s 0	0	()		We would recommend that the IPBES Core Indicator 'Proportion of local breeds, classified as being at risk, not-at-risk or unknown level of risk of extinction' is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Roswitha Baumung (email: Roswitha.Baumung@fao.org)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.

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UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Core Indicator Percentage of Category 1 nations in CITES is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Tom De-Meulenaer (email: Tom.DE-MEULENAER@cites.org)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Core Indicator 'Nitrogen + Phosphate Fertilizers (N+P205 total nutrients)' is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Francesco Tubiello (email: francesco.Tubiello@fao.org)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Core Indicator 'Trends in Pesticide Use' is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Francesco Tubiello (email: francesco.Tubiello@fao.org)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Core Indicator 'Percentage of Undernourished People' is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Carlo Cafiero (email: Carlo.Cafiero@fao.org)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Highlighted Indicator 'Wetland Extent Trend Index' is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Sarah Darrah (email: Sarah.Darrah@unep-wcmc.org)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Highlighted Indicator 'Trends in invasive alien species vertebrate eradications' is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Shyama Pagad (email: s.pagad@auckland.ac.nz)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Highlighted Indicator RAMSAR areas is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Maria Rivera [email: RIVERA@ramsar.org]	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Highlighted Indicator Number of countries with national instruments on biodiversity relevant tradable permit schemes' is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindcators.net. These indicators are country-specific, so they can be disaggregated by countries in your region. However, given the incomplete country coverage, any regional aggregates cannot be taken to represent the entire region. Currently we have data on about 58 countries. [Just to note, we also have information on countries with biodiversity-relevant taxes in place]. More information on this is available from the Indicator Focal point Katia Karousakis (email: Katia.KAROUSAKIS@oecd.org)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Highlighted Indicator Trends in potentially harmful elements of government support to agriculture (produced support estimates) is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator is available for the OECD as a whole and has not been disaggregated as such. The original data on (total) government support to agriculture is available on the OECD website by country. More information on this is available from the Indicator Focal point Katia Karousakis (email: Katia.KAROUSAKIs@oecd.org)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Highlighted Indicator 'Better Life Index' is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. The data is available for only 38 countries and therefore it would be difficult to be used regionally the way IPBES has classified these. More information on this is available from the Indicator Focal point Katia Karousakis (email: Katia.KAROUSAKIS@oecd.org)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Highlighted Indicator 'Protected area coverage of terrestrial, marine and freshwater ecoregions' is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Ed Lewis (email: Edward.Lewis@unep-wcmc.org)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Highlighted Indicator 'Growth in species occurrence records accessible through GBIF' is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Tim Hirsch (email: 'thirsch@gbif.org')	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Highlighted Indicator 'Number of countries that have adopted legislative, administrative and policy frameworks to ensure fair and equitable sharing of benefits' is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Robert Hoft (email: robert.hoft@cbd.int)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Highlighted Indicator 'Information provided through the financial reporting framework, adopted by decision XII/3' is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Robert Hoft (email: robert.hoft@cbd.int)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the IPBES Highlighted Indicator 'Number of world natural heritage sites per country per year' is used in this assessment. Indicator information is available from the IPBES Indicator portal and the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Douglas Nakashima (email: D.Nakashima@unesco.org)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the Indicator 'Trends in Loss of Reactive Nitrogen to the Environment' is used in this assessment. Indicator information is available from the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Albert Bleeker (email: Albert.Bleeker@pbl.nl).	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the Indicator 'Wild Bird Index (forest & farmland specialist birds) is used in this assessment. Indicator information is available from the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Richard Gregory (email: richard.gregory@rspb.org.uk).	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	0 0	0		We would recommend that the Indicator 'Climatic impacts on European and North American birds' is used in this assessment. Indicator information is available from the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Richard Gregory (email: richard.gregory@rspb.org.uk).	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.

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UNEP-WCMC: The						Charles the state of the state
Biodiversity Indicators Partnership (BIP)	0	0			We would recommend that the Indicator 'Ocean Health Index' is used in this assessment. Indicator information is available from the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Benjamin Halpern (email: halpern@nceas.ucsb.edu)	Chapter author teams made use of these core/highlighted/further indicators as far as possible given the delivery late in the process.
raitileisilip (bir)	,	- 0			can be usaggi egated/made available for this region, more information on this is available from the midcator rocal point benjamin naipem tenan, naipem encess.ucsu.edu)	indicators as rai as possible given the delivery late in the process.
UNEP-WCMC: The					We would recommend that the Indicator ' Cumulative Human Impacts on Marine Ecosystems' is used in this assessment. Indicator information is available from the BIP website	
Biodiversity Indicators					www.bipindicators.net. This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Benjamin Halpern (email:	Chapter author teams made use of these core/highlighted/further
Partnership (BIP)	0	0	c		halpern@nceas.ucsb.edu)	indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The					We would recommend that the Indicator ' Proportion of countries adopting relevant national legislation and adequately resourcing the prevention or control of invasive alien species' is	
Biodiversity Indicators					used in this assessment. Indicator information is available from the BIP website www.bipindicators.net. This indicator can be disaggregated/made available for this region, more	Chapter author teams made use of these core/highlighted/further
Partnership (BIP)	0	0	C	+	Information on this is available from the Indicator Focal point Shyama Pagad (email: s.pagad@auckland.ac.nz)	indicators as far as possible given the delivery late in the process.
LINED MICHAEL The						
UNEP-WCMC: The Biodiversity Indicators					We would recommend that the Indicator 'Biodiversity Barometer' is used in this assessment. Indicator information is available from the BIP website www.bipindicators.net. This indicator	Chapter author teams made use of these core/highlighted/further
Partnership (BIP)	0	0			we would recumined that or inductor becomes a construction of the second	indicators as far as possible given the delivery late in the process.
rararersinp (bir)	Ŭ				can be usuage egated made available for this region, more information on this is available from the inducator focal point file knows to jung termin. They extinction outside corp.	indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The					We would recommend that the Indicator 'Red List Index (impacts of utilisation)' is used in this assessment. Indicator information is available from the BIP website www.bipindicators.net.	
Biodiversity Indicators					This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Tom De-Meulenaer (email: Tom.DE-	Chapter author teams made use of these core/highlighted/further
Partnership (BIP)	0	0	С		MEULENAER@cites.org)	indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The						
Biodiversity Indicators					We would recommend that the Indicator 'Water Quality Index for Biodiversity' is used in this assessment. Indicator information is available from the BIP website www.bipindicators.net.	Chapter author teams made use of these core/highlighted/further
Partnership (BIP)	0	0	C	1	This indicator can be disaggregated/made available for this region, more information on this is available from the Indicator Focal point Hartwig Kremer (email: hartwig.kremer@unep.org)	indicators as far as possible given the delivery late in the process.
UNEP-WCMC: The					We would recommend that the Indicator 'Number of Parties to the CBD that have deposited the instrument of ratification, acceptance, approval or accession of the Nagova Protocol' is	
Biodiversity Indicators					we would recumine that are inductor window or are to the EBP website www.bipindicators.net. This indicator are to a capitally a compared to the EBP website www.bipindicators.net. This indicator are desaggregated/made available from the BIP website www.bipindicators.net. This indicator are desaggregated/made available from the BIP website www.bipindicators.net. This indicator are the disaggregated/made available from the BIP website www.bipindicators.net. This indicator are the disaggregated/made available for this region, more	Chapter author teams made use of these core/highlighted/further
Partnership (BIP)	0	0			used in this assessment, induction information in a available from the limit does we western western without control and the usage regarding and a season of the season of	indicators as far as possible given the delivery late in the process.
rarenersing (on)	ŭ				A few points on references: 1) In general, there is a need to systematically check references in the chapters. Specifically, EEA reports are not referenced consistently, e.g. in some chapters	indicators as fair as possible given the delivery face in the process.
					it is EEA XXXX, while in other chapters European Environment Agency XXXX. 2) Chapter 3 doesn't seem to contain any reference to EEA materials, which seems a bit odd given the many	
EU: Frank Wugt Larsen					relevant EEA publications. 3) Some EEA references are not the most current one, e.g. Climate change, impacts and vulnerability in Europe 2012 is referenced although there is 2016	References have been systematically checked and standardised throughout
(EEA)	0	0	C		report.	the document using the Mendeley bibliographic software.
					As during last review, we would like to point you to relevant information hosted by the EEA for which we believe a consultation by authors could improve the ECA report. In general, we	
					will also refer to the EEA/ETC BD document 'Information note to IPBES secretariat on EEA and EU	
					information'(http://bd.eionet.europa.eu/Reports/ETCBDTechnicalWorkingpapers/PDF/Information_IPBES_on_EEA_EU.pdf), which was shared with the ECA TSU in 2015. Several reports	
					provide a good starting point to find relevant information, incl. EEA, 2015 European environment — state and outlook 2015 (SOER 2015, in particular, thematic briefings and SOER synthesis); EEA 2016. Mapping and assessing the condition of Europe's ecosystems. Progress and challenges; EEA, 2015, State of Nature Report 2015; EEA, 2015, State of Europe's Seas;	
EU: Frank Wugt Larsen					Symmess), EEA 2016. Mapping and assessing the conductor of curriers set of continuences and characterises and characterises and characterises and characterises. EEA, 2016. State on Nature Report 2015, EEA, 2015, State or Large Park 2015, State Or Large	
(EEA)	0	0			assessments.	EEA sources are highly appreciated and cited throughput the assessment.
(LLA)	·			 	Overall: the ECA assessment is looking really good - many congratulations to all the authors. I have focused the great bulk of my comments on issues directly related to data mobilised for	EEA sources are riighly appreciated and cited throughput the assessment.
					the ECA against IUCN standards, sepecially in the light of the provision of these data for IPBES in https://www.nature.com/articles/sdata20167, and of IUCN's strategic partnership with	
Thomas Brooks	0	0	c		IPBES in general.	Thanks for the comment
Switzerland: José					General: establish a gloassary as part of this report and include in the glossary words like "cohesiveness"; "regulatory", "material", "non-material" NCPs; "trofic level"; "biotic	
Romero	0	0	C		homogenisation",	A glossary has been created as suggested
					General: in this report, the concept of "trade-off" is used in a rather negative sense, while generally a trade-off is a situation reached for the satisfaction of divergent views and interests,	
					which is considered to be a positive solution. We wonder if this rather negative use of trade-off in the report would be correctly translated in the other non-English languages. For	
Control of tool					example, in French, we would rather think of a happy outcome when a trade-off (e.g. a compromise, a good deal) is done in front of irreconcilable antagonisms. If the use in this report is	Trade-off is here consistently meant to indicate a negative relation between
Switzerland: José Romero	0	0	١ ,		more in a negative sense, then why not qualify trade-offs as e.g. "harmful". We hope that the English speakers authors understand our point and find a way out to address it in English as well as in the other non-English languages.	two variables of interest, e.g. between two NCPs. Mitigation of a trade-off would correspond toyour "happy outcome".
The Netherlands:	U	- 0		+ + + -	wen as in the other non-engish ranguages. (Financial) cost-benefit analyses for policymakers/society are missing, as it is important to name such considerations explicitly. Also, certain concepts should be defined more precisely.	Discussion of the economics of ES (valuation) has been increased in the
Astrid Hilgers	0	0		0	0 This goes, among others things, for Natural Capital.	document, especially in Ch2
					We recommend that as in the regional assessments for Africa and the Americas, the area of Ramsar Sites, wetlands protected under the Ramsar Convention as internationally important	
Ramsar Secretariat	0	0	C	0	0 by sub-region, be included in this assessment as an indicator. See: https://rsis.ramsar.org/ 🗵	Done in chapter 3.
					This review provides feedback from the IPBES Knowledge and Data Task Force (KD TF) / Task Group on Indicators (TGI) on the use of IPBES core indicators in your assessment. We see	
IPBES Knowledge and					potential for inclusion of additional core indicators and for the more consistent use of the standardized visuals provided. For information on core indicators potentially relevant to a	
Data Task Force (KD				1 1	given chapter, please see http://www.ipbes.net/indicators (or see the tab named, "core indicators" in this spreadsheet) and check the indicator trend graphs shared by your TSU. For the	
TF)/ Task Group on Indicators (TGI)	0	0			trends of IPBES core indicator, standardized visualizations should be used as much as possible to ensure the consistency between and within the assessments. The KD TF/TGI aim to follow up with specific recommendations in the near future. In the meantime, do not hesitate to reach out to them through your TSU or the KD TF TSU (ipbes.kdtsu@gmail.com).	Chapter author teams made use of the core indicators as far as possible given the delivery late in the process.
indicators (1GI)	U	U			notion by with specific recommendations in the near ruture. In the meantime, do not nestiate to reach out to them through your 150 or the kD 1r 150 (pbes.kdtsu@gmain.tom).	given the delivery late in the process.
					The draft assessment is an impressive and very informative work. It can, also, be seen that the drafting and peer review process are flexible enough to incorporate very recent work	
				1 1	The unit assessment is an impressive and very informative work. It can, also, be seen that the draiting and peer review process are nexible enough to incorporate very recent work despite the long drafting cycle.	
					It would be helpful to incorporate a feedback mechanism from stakeholders as well, for collecting new information that becomes available on a running basis. For example, the Bulgarian	
					mapping and assessment outside NATURA 2000 - some 66% of the country - for ecosystem condition and biophysical valuation of ecosystem services was completed in April, 2017. IBER-	
					BAS has mappe six of the nine ecosystem types in Bulgaria, and had the lead role in developing the underlying methodological framework. However, the final reports are under	
					verificatrion and publications upon it are still to follow, with findings being systematized. Similarly, work is underway in other countries too.	
						Thank you for the suggestion concerning new literature. The IPBES
				1 1	Therefore, at the current stage the comments are somewhat generic and limited to the general approach (Chapter 1) but it would be suitable, if such a mechanism existed, to keep	guidelines requires us to establish a cut-off date for literature (April 2017),
Kremena Gocheva		^		1 1	contributing beyond June 26 until the report is ready. It may be good to allow for submitting links to new publications on a regular basis, so the report authors would get up-to-date information in a timely manner.	but we have attempted to be flexible in incorporating more recent, but highly important, material.
M EIIIEIIA GUUIEVA	. 0	U		1	phomoton in a unity manuer.	inginy important, material.

				1			1
						The assessment's description in Chapter 1 appears anthropocentric without a clear focus on humans as part of Nature. Since the Assessment clearly notes (Table 1.1, Figure 1.2) that the IPBES has a scope overarching earlier assessments such as MA, TEEB, MAES by providing a holistic view on Nature, the intdorudction, too, may need to put more emhasis on the socieo-ecologic system as a single entity rather than merely a source of benefits to humans.	
						This could lead onto introducing insights at the win-win and lose-lose options, including the ecosystem disservices, as well as a more systemic view at the continuum of states in which the socio-ecologic system is evolving over time. It would bring out more clearly the NATURE component of the IPBES CF, in particular its Mother Earth and Systems Values categories which appear to be underrepresented in the current draft. Their equivalent in Western science appears to be not the entire body of knowledge on biodiversity and ecosstems but rather	
Kremena Gocheva	U	0)		the parts of ecology that treat ecosystems from the energy/emergy/entropy/information theory points of view.	of nature and pointing out non-material relational values.
Johannes Langemeyer	Ch.2	0	(0 0	0	Please double check that the understanding of sub regions within ECA is kept equally, this does not always seem to be the case.	We follow now the guidelines for IPBES-ECA
	Ch 2		,			The overall coherency of the chapter is needs to be improved; there is quite some redundant information in the sub-sections (for example on trends; or between 2.3.1 and 2.2.2).	We have that the consequence of the second s
Johannes Langemeyer	Ch.2	0	(0	0	Despite the fact that you state in the introduction that there are differences between ES and NCP, the two concepts have been used as synonymously. This is confusing. The need to	We hope that the new narrative addresses this problem
Johannes Langemeyer	Ch.2	0	(0	0	(partly) substitute ES by NCP in the IPBES is not clear. In any case, the terminology should be consistent throughout the chapter.	This is clarified in chapter 1.
Johannes Langemeyer	Ch.2	0		0	0	A clear bias towards information from Western Europe is observed. This may on the one hand be due to the larger research activity in this sub region, but it might also be related to the lacking integration of researcher and their knowledge from Central Europe, Eastern Europe and Central Asia. Regional research gaps should be clearly stated for all subsections to avoid biased information.	We recognize this in section 2.5.
Ŭ,		Ü		, ,	Ť	A clear statement on lacking evidence and future reserach needs should be included in all sections (as for example given in 2.2.2.4.2 and in the other health section)	
Johannes Langemeyer	Ch.2	0	(0 0	0	A COLOR STATE OF THE STATE OF T	This is now included in section 2.5.
Johannes Langemeyer	Ch.2	0	(0 0	0	Check quotation style in the entire chapter.	We follow the guidelines given for ECA assessment of using APA 6th edition style
						Make sure abbreviations are explained in the Ex summary.	
Johannes Langemeyer Amor Torre-Marin	Ch.2	0	(0	0	The term benefits is used many times in the chapter. In some cases it could be replaced by 'contributions' to better reflect the NCP terminology	It will be a list of abrreviations in the whole ECA assessment We did this effort!
Allior forte-ivialili	CII.2	U	,	1		The term beneats to use many times in the chapter, in some cases it could be replaced by Continuous to better reject the MCF terminology General Comments:	We did this enort:
						- Thanks for all the excellent substance	
						- Way too long, please condense	
						 Knowledge gaps should be treated similarly throughout the chapter (e.g., now extensive in health) Monetary subsection will be very important covering for all NCPs 	
Markus Fischer	Ch.2	0	(0		- in this context not only the marketable but also value of non-marketable common goods and services need to be addressed	Knowledge gaps are now in section 2.5.; Monetary values has a section
	Ch.2	0	(D		An assessment of NCP under future scenarios in chapters 2 is needed.	Now included
						There should be some comment about the regulation of organisms detrimental to humans as an ecosystem service, and in particular on the regulation by predators of the population	
						size of non-harmful important animals (e.g. large herbivore populations by wolves or lions). It is quite surprising that nothing of this important issue is mentioned in the chapter. Indeed,	·
						there are a lot of literature dealing with the topic, as for example: Ripple WJ, Estes JA et al. (2014). Status and ecological effects of the world's largest carnivores. Science, 343 (6167): 1241484. doi:10.1126/science.1241484:	·
						12-13-04. 00.10.1.12(7):stietite:1.23-13-04. L. R. Prugh et al. (2009). The rise of the mesopredator. Bioscience 59, 779–791. doi: 10.1525/bio.2009.59.9.9;	!
						J. A. Estes et al. (2011). Trophic downgrading of planet Earth. Science 333, 301–306. doi: 10.1126/science.1205106; pmid: 21764740;	
						R. L. Beschta, R. J. Ripple (2009). Large predators and trophic cascades in terrestrial ecosystems of the western United States. Biol. Conserv. 142, 2401–2414.	
						doi:10.1016/j.biocon.2009.06.015;	
Jorge Lozano	Ch.2	0	(0	0	E. G. Ritchie et al. (2012). Ecosystem restoration with teeth: What role for predators? Trends Ecol. Evol. 27, 265–271. doi: 10.1016/j.tree.2012.01.001; pmid: 22321653	We have now a Box about the human-wildlife conflicts
Bruno Fady	Ch.2	0	(0 0	0	Genetic diversity there is focused on medicinal plants. What about crops, animals, forests, fish - throough breeding programs and sustaining viable wild populations?	Actually, genetic diversity matters for chapter 3, but not 2. In any case, we also address this issue in the new assessed NCP of future options.
,							
Germany	Ch.2	0	()		please ensure all citations are correct and include also the year of publication, especially for all tables	Yes, we are now confident that this is correctly done in the final version
						Three aspects regarding NCPs and impacts on NCPs (s. link to problems adressed in Chapt. 4) may deserve more attention in chapter 2: - fresh groundwater (NCP) polluted by nitrogen(impact) due to intensive agriculture and livestock farming (driver) (s. Natural Capital Germany – TEEB DE, 2016: Ecosystem services in	
						rural areas - Basis for human well-being and sustainable economic development - Summary for decision makers. http://www.naturkapital-teeb.de/en/publications/own-	
						publications/report-2.html	
						reduction of soil carbon (NCP) due to agricultural or forestry use on drained peatlands (e.g. accounting for approximately 4.3 % of Germany's gross total annual GHG emissions. Source:	
						Natural Capital Germany – TEEB DE, 2015: Natural Capital and Climate Policy - Synergies and Conflicts - Summary for decision makers. http://www.naturkapital-teeb.de/en/publications/own-publications/report-1.html	2.2.1.4. but the text had to be shortened. The loss of carbon from soils has been expanded with references in section 2.2.1.4 : Climate and 2.2.1.7 Soils.
						loss of arable soils due to urban sprawl. "Sealing" is mentioned as an inter alia example of threats to soil fertility on page 35, line 1019 but this seems to be unsufficient to address the	Thank you for the reference. We agree that urban sprawl is a major issue. It
						relevance of this problem.	is covered in detail in chapter 4 and in the present chapter we (can) only
Germany	Ch.2	0	()			cover the consequences in terms of fertile soils losses.
Germany	Ch.2	0	,)		All regional assessments should follow the same definitions and e.g. classifications of NCPs. These aspects are important for the comparability of the result, especially since they all provide input for the IPBES global assessment. Please ensure this is the case by cross checking with the other reg. assessments.	Definitions of NCP are now given in Chapter 1 and we have followed them
		0	,	1		produce input to the Production assessment. Presse ensure us to the early of the characteristic production and different scales the chapter is very much dominated by EU-based studies. Sometimes examples are very broad,	27 Test of the fore great in chapter 1 and we have followed them
						sometimes very specific national or sub-national examples. It would be helpful to get some hints on why some examples were chosen (and not others) and what implications can be	We add in section 2.1. why we added these examples. Overall, we try to
Germany	Ch.2	0	()		drawn from them?	syntehsise the information, but when this is not available, we bring examples
						Most statements in the executive summary are associated with quantitative likelihood statements or qualitative confidence levels as outlined in Chapter 1, section 1.6.1. However, in the chapter itself, very little remarks on (un)certainty levels of findings are made. It would be useful to provide some hints in the chapter itself on how the uncertainty levels of the key	We have the mandate to provide confidence levels only in the executive
Germany	Ch.2	n	(0		triapter risen, very inter-remarks on uniformating levels of minings are made. It would be useful to provide some finits in the triapter risen on now the uncertainty levels of the key messages were actually derived.	summary
			,				We are very sorry, but we have to edit down the whole chapter because
						This Chapter has been extensively revised and is much better than the FOD. Some sections that were incomplete in the FOD have been revised, notably that on pollination, but the	wording constrains. In the final version, we were unable to add this
						section on pest and disease control is now deleted. Given that this is as important. or more important, than pollination, I am surprised that it is not included.	information. Howver, we added a Box 2.5. where this topic is slighlity
Allan Watt	Cn.2	0	(,	1	General Comment: Dear Berta and Andrew. I have read the report with much interest. Congratulations to you and the chapter's authors. The last sections (2.3) are very good, and conver	mentioned. Graciela, thanks for your constructive comments and positive message. It is
Graciela Rusch	Ch.2	n	(0		deficial comments. Deal betta and and even there lead the report with industrial mineral controllers by the analysis of the second sections (2.3) are very good, and conversity of the second sections (2.3) are very good, and conversity of the second sections (2.3) are very good, and conversity of the second section (2.3) are very good, and conversity of the secon	very much appreciated.
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					General for the chapter. Although it is stated that the assessment of NCP requires of getting and putting together information about the different components that describe NCP (the	
					characteristics of nature that underpin the generation of benefits (the capacity to generate benefits), the benefits that are derived nature and about how these benefits impact 'quality of	In the final version, we follow the same structure for all NCP: basic
					life'. In some cases, the value of these benefits is presented (in monetary and non-monetary terms); this structure is not always consistent throught the chapter sections and the	description, capacity for its supply in ECA and across subregions, its demand
					different NCP. This, I is often due to the lack of information/knowledge on some of these components, because these information may not be available and/or because until now, the	and use in ECA and across subregions and a short introduction about its
					information about the different components cannot be readily be linked together. It would be good that these limitations are indicated in the sections. Which are the missing links or	contributions to quality of life. The economic and non-economic values can
Graciela Rusch	Ch.2	0	0		knowledge gaps.	be found now in 2.3.5 and a final section of knowledge gaps is in 2.5.
					General for the chapter. In many cases, the evidence is very fragmented across the region. It would be good that the sections start with a synthesis indicating the quality of the evidence	
					(important information gaps), where there is good evidence and where there are gaps, how many countries in the region have information, etc. And then, include the results of the	
					review. It would also be good to present a summary on where the information has been retrieved in each case. What kind of sources (this appears in some places (e.g. review and	We provide some of this information in the executive summary and in
					statistics), but it is not consistent. Also to provide some synthesis /general statement when very specific information is provided. For instance, the evidence can refer to the use of a	knowledge gaps. The structure of each section was already agreed in the
Graciela Rusch	Ch.2	0	0		particular species, in some part of the region: What can be said generally on these trends?	second authors meeting and approved by all the authors.
Andrew Wade	Ch.2	0	0		Congratulations to all the authors and review editors on excellent work to collate and present the material. The chapter is impressive.	We do really appreciate this positive comment. Many thanks!
The Netherlands:						
Astrid Hilgers	Ch.2	0	0		Good amount of literature on indicators and models	We do really appreciate this positive comment. Many thanks!
The Netherlands:					although mentioned Nature's Contributions to People, but the chapter seems to have a strong bias towards agriculture. Also the concept of NCP seems to be used inconsistently. Unclear	The sections have been equally distributed (1200 words per NCP). Chapter 1
Astrid Hilgers	Ch.2	0	0		how and where it is used in the same way as ES.	clarifies differences between NCP and ES.
ECA values liaison					Modern and traditional forms of land use, such as agriculture and fishing, can both be more or less sustainable. Traditional use is not necessarily more sustainable, and modern	
group	Ch.2	0	0		approaches are not necessariy unsustainable. This fact is not reflected in the SPM See lines 604-607 on pg 23, and lines 584-587 on pg 22.	Narrative of SPM and key messages has changed
ECA values liaison					When applicable, i.e. when different value types are mentioned or discussed, please refer to the values table and definitions in Chapter 1 that introduces and defines all value types in	
group	Ch.2	0	0		the assessment. This will be suggested to each ECA chapter	section 1.5.2 now referred to in the introduction of chapter 2
ECA values liaison						In the new version, we add a new section of values that covers the four
group	Ch.2	0	0		Check that all subregions are covered roughly equally in terms of values.	regions, when data is available
<u> </u>						
					In this table, suggestions are made for maps to illustrate some sections of the different chapters. A document with a number of examples (referred to below) is available at:	
					https://tinyurl.com/ECA-Maps	
Mark Snethlage	Ch.2	0	0		ECA sharepoint site login required	We do not understand this comment
					Providence Market and California and	The geographical bias is strongly recognized in section 2.5. and we have
Hanna Skryhan	Ch.2	0	0		Strong bias to WE! The lack of the analysis of the subregions. The paragraph 2.2 is totally missing in the summary	made many efforts to include other subregions
					In my opinion the draft is a really thoughtful work that will for sure improve the IPBES assessments. Nevertheless I would like to point out that the draft might pay more attention to the	
					ecological role of predators scavengers to provide ecosystem services. Large predators and obligate scavengers (ie vultures) are among the most threatened functional groups in	
					ecosystem worldwide. In spite of, they are key groups in ecosystem functioning that provide with important ecosystem services in relation to the regulation of food webs, the	
					elimination of carcasses, C02 emission savings, control of pests and parasite. Furthermore, humans and scavenging vertebrates, have been interdependent since the Late Pliocene, when	
					early hominins turned to meat as a food source. The close relationship with scavenging birds and mammals has benefited humans since the origin of early Homo species in multiple ways.	
					For instance, the removal of animal debris before putrefaction has played an important hygienic role for millennia (Moleón & Sánchez-Zapata, 2014. Bioscience,	
					doi:10.1093/biosci/biu034). I consider that the draft might improve with an insight on the role of facultative and obligate scavengers in ecosytem function and services.	
					References:	
					Margalida, A., Bogliani, G., Bowden, C.G.R., Donázar, J.A. Genero, F., Gilbert, M., Karesh, B., Kock, R., Lubroth, J., Manteca, X., Naidoo, V., Neimanis, A., Sánchez-Zapata, J.A., Taggart, M.A.,	
					Vaarten, J., Yon, L., Kuiken, T. & R. E. Green. 2014. One Health approach to use of veterinary pharmaceuticals. Science, 346: 1296-1298.	
					Mateo-Tomás P, Olea PP, Moleón M, Vicente J, Botella F, Selva N, Viñuela J, Sánchez-Zapata JA. 2015. From regional to global patterns in vertebrate scavenger communities subsidized	
					by big game hunting. Diversity & Distributions, 21: 913-924.	
I		1			Moleón, M., Sánchez-Zapata, J.A., Margalida, A., Carrete, M., Owen-Smith, N. & Donázar, J.A. 2014. Humans and scavengers: the evolution of interactions and ecosystems services.	
						1
					Bioscience, 64: 394-403.	
					Bioscience, 64: 394-403. Moleón, M., Sánchez-Zapata, J.A., Selva, N., Donázar, J.A. & Owen-Smith, N. 2014, Interspecific interactions linking predation and scavenging in terrestrial vertebrate assemblages.	
					Moleón, M., Sánchez-Zapata, J.A., Selva, N., Donázar, J.A. & Owen-Smith, N. 2014. Interspecific interactions linking predation and scavenging in terrestrial vertebrate assemblages.	In this new version, we have invited three experts in the tonic (IA Sanchez-
					Moleón, M., Sánchez-Zapata, J.A., Selva, N., Donázar, J.A. & Owen-Smith, N. 2014. Interspecific interactions linking predation and scavenging in terrestrial vertebrate assemblages. Biological Reviews, 89: 1042-1054.	In this new version, we have invited three experts in the topic (JA Sanchez-Zanata, M Moleon and 7 Morales) to adress this topic, which actually
José Antonio Sánchez					Moleón, M., Sánchez-Zapata, J.A., Selva, N., Donázar, J.A. & Owen-Smith, N. 2014. Interspecific interactions linking predation and scavenging in terrestrial vertebrate assemblages. Biological Reviews, 89: 1042-1054. Moleón M & Sánchez-Zapata JA. 2016. Non-trophic functions of carcasses: from death to the nest. Frontiers in Ecology and the Environment, 14: 340-341.	Zapata, M Moleon and Z Morales) to adress this topic, which actually
	Ch.2	0	n	0	Moleón, M., Sánchez-Zapata, J.A., Selva, N., Donázar, J.A. & Owen-Smith, N. 2014. Interspecific interactions linking predation and scavenging in terrestrial vertebrate assemblages. Biological Reviews, 89: 1042-1054. Moleón M & Sánchez-Zapata JA. 2016. Non-trophic functions of carcasses: from death to the nest. Frontiers in Ecology and the Environment, 14: 340-341. Morales-Reyes Z, Pérez-Garcia JM, Moleón M, Botella F, Carrete M, Lazcano, C. Moreno-Opo R, Margalida A, Donázar JA & Sánchez-Zapata JA. 2015. Supplanting ecosystem services	Zapata, M Moleon and Z Morales) to adress this topic, which actually contributes to assess the NCP of regulation of detrimental organisms. So,
José Antonio Sánchez Zapata	Ch.2	0	0	0	Moleón, M., Sánchez-Zapata, J.A., Selva, N., Donázar, J.A. & Owen-Smith, N. 2014. Interspecific interactions linking predation and scavenging in terrestrial vertebrate assemblages. Biological Reviews, 89: 1042-1054. Moleón M. & Sánchez-Zapata J.A. 2016. Non-trophic functions of carcasses: from death to the nest. Frontiers in Ecology and the Environment, 14: 340-341. Morales-Reyes Z, Pérez-García JM, Moleón M, Botella F, Carrete M, Lazcano, C. Moreno-Opo R, Margalida A, Donázar JA & Sánchez-Zapata JA. 2015. Supplanting ecosystem services provided by scavengers raises greenhouse gas emissions. Scientific Reports, 5: article 7811	Zapata, M Moleon and Z Morales) to adress this topic, which actually
	Ch.2	0	0	0	Moleón, M., Sánchez-Zapata, J.A., Selva, N., Donázar, J.A. & Owen-Smith, N. 2014. Interspecific interactions linking predation and scavenging in terrestrial vertebrate assemblages. Biological Reviews, 89: 1042-1054. Moleón M. & Sánchez-Zapata J.A. 2016. Non-trophic functions of carcasses: from death to the nest. Frontiers in Ecology and the Environment, 14: 340-341. Morales-Reyes Z, Pérez-García JM, Moleón M, Botella F, Carrete M, Lazcano, C. Moreno-Opo R, Margalida A, Donázar JA & Sánchez-Zapata JA. 2015. Supplanting ecosystem services o provided by scavengers raises greenhouse gas emissions. Scientific Reports, 5: article 7811 Please double check the use of the term 'worldview' to ensure it is used consistently, and consistently with IPBES wording and meaning, or at least it is clear from the context what	Zapata, M Moleon and Z Morales) to adress this topic, which actually contributes to assess the NCP of regulation of detrimental organisms. So,
Zapata	Ch.2	0	0	0	Moleón, M., Sánchez-Zapata, J.A., Selva, N., Donázar, J.A. & Owen-Smith, N. 2014. Interspecific interactions linking predation and scavenging in terrestrial vertebrate assemblages. Biological Reviews, 89: 1042-1054. Moleón M. & Sánchez-Zapata J.A. 2016. Non-trophic functions of carcasses: from death to the nest. Frontiers in Ecology and the Environment, 14: 340-341. Morales-Reyes Z, Pérez-García JM, Moleón M, Botella F, Carrete M, Lazcano, C. Moreno-Opo R, Margalida A, Donázar JA & Sánchez-Zapata JA. 2015. Supplanting ecosystem services provided by scavengers raises greenhouse gas emissions. Scientific Reports, 5: article 7811	Zapata, M Moleon and Z Morales) to adress this topic, which actually contributes to assess the NCP of regulation of detrimental organisms. So,

							In the new version, we invite an expert (Dan Faith) to address this NCP and
							we now provide a general overview of maintenance of options in ECA. The
							final document has this information as a section.
						Comments specific to particular lines follow further below, but the initial following comments I think are relevant to both chapters 2 and 3. The scoping for chapter 2 indicates that it will	
						assess NCPs including the status/trends of the NCPs. The scoping for chapter 3 indicates that it will build on the chapter 2 assessment of NCPs and look at the status/trends of	
						biodiversity and ecosystems with an eye to how that influences NCPs. These tasks normally are a close fit, but are in fact overlapping in the case of NCP18. NCP18 is mostly about the	
						buduwesty after exceptable and a reye to now that immenses wers. These cases normally are a cuser in, but after it acts to extraphing in the case of NCP18. NCP18 is mostly about the contribution of biodiversity itself in providing "maintenance of options" or "option value", For example, NCP18 refers to "Benefits (including those of future generations) associated with	
						the continued existence of a wide variety" Living variety is of course another way of saying "biodiversity". This NCP18 benefits statement echoes the oldest discussions of the value of	
						biodiversity itself as a benefit (following e.g. Haskins 1974; reviewed in Faith 2017*). *Faith 2017 summarised: "this link between biodiversity and human well-being actually traces back	
						to the "pre-history" of "biodiversity" (roughly, the history of the term before it was invented). Haskins (1974: 646) summarised an important discussion meeting where participants called	
					ŀ	for "an Ethic of Biotic Diversity in which such diversity is viewed as a value in itself and is tied in with the survival and fitness of the human race". Haskins (1974: 646) warned, "Plants and	
Dar	r Faith	Ch.2	0	0	8091	animals that may now be regarded as dispensable may one day emerge as valuable resources" and that extinction "threatens to narrow down future choices for mankind". Roush (1977:	
-		UIIIL			0031	9) similarly argued that "diversity increases the possibility of future benefits" (for review, see Farnham 1997). IUCN's (1980: section 3) arguments for the conservation of diversity	
						(referring to "the range of genetic material found in the world's organisms") echoed Haskins: "we may learn that many species that seem dispensable are capable of providing important	
						products, such as pharmaceuticals, or are vital parts of life-support systems on which we depend." Later philosophical discussions supported these perspectives. Norton (1986) argued	
						hat diversity itself has utilitarian value. Randall (1986: 103) similarly considered unit species and proposed that all species not already distinguished in having recognised human-use	
						values "would be treated as having a positive but unknown expected value." These ideas flowed on to discussions around the new term "biodiversity". McNeely (1988) and Reid and	
						Miller (1989) referred to "option values" of biodiversity. E. O. Wilson (1988) highlighted values for biodiversity reflecting our lack of knowledge about the components of life's variation	
						and their importance to humankind. The MEA (2005a: 32) concluded that "the value individuals place on keeping biodiversity for future generations— the option value—can be	
						significant." Gascon et al. (2015) reviewed the many, sometimes surprising, benefits of species to argue for the importance of option value (and pointed to PD as a candidate measure of	
						option value). The Encyclical Letter "On Care for Our Common Home" (Francis 2015) addressed the loss of biodiversity, arguing for the importance of not only intrinsic values of species	
						but also the option values of biodiversity: "The loss of forests and woodlands entails the loss of species which may constitute extremely important resources in the future, not only for	
					ŀ	food but also for curing disease and other uses. Different species contain genes which could be key resources in years ahead for meeting human needs and regulating environmental	
						problemsMaclaurin and Stereiny concluded: "The crucial point about option value is that it makes diversity valuable. As we do not know in advance which species will prove to be	
						important, we should try to conserve as rich and representative a sample as possible" (2008:154)." Maintenance of options, or option value, has been described well in the IPBES	
						conceptual framework, in the preliminary guidelines, and in the IPBES catalogue of assessments. NCP 18 nicely echoes the Millennium Ecosystem Assessment (MEA; Biodiversity	
						synthesis): "Biodiversity loss is important in its own right because it represents unexplored options for the future (option values)." and "The loss of biodiversity in some instances is	
						7 ,	
						irreversible, and the value individuals place on keeping biodiversity for future generations—the option value—can be significant." So, from the NCP18 perspective, any status report on	
						biodiversity is also a status report on NCP18 – because variety is the benefit. My comments below therefore link to both chapters 2 and 3. The reference list for all comments is provided	
						at the bottom. Chapter 2 is to address how biodiversity (and ecosystem functions and services) contribute to good quality of life and address the trends in nature's contribution and the	
						link between nature's contributions to people and their quality of life. The scoping notes links to CBD Strategy/Goal D – enhancing benefits to all, and with reference to intergenerational	
						equity issues. Thus, it is important to discuss NCP 18. The current drafts of chapters 2 and 3 report on the status and trends of biodiversity broadly – e.g. reporting red list status for	
						many different species – but these assessments regarding global biodiversity are not yet well-linked to NCPs. This would be accomplished by linking the red list status to the status of	
						NCP18 (see below). In chapter 2, the assessment relating to good quality of life arising from NCP18's "Benefits (including those of future generations) associated with the continued	
						existence of a wide variety" could begin by noting recent examples. The chapter could point to some of the actual recent discoveries and benefits that have emerged from "maintenance	
						of options". For example, Chassagnon et al (2017) reported this year that the venom of the Darling Downs funnel web spider (Hadronyche infensa) is the unlikely source for a drug to	
						ward off brain damage caused by strokes. Also this past year, Peel et al (2016) reported that the milk from Tasmanian devils surprisingly provides a weapon against antibiotic-resistant	
						bacteria. There are many more recent examples in all the regions of these unanticipated benefits that fit under NCP18. These stories and others have been reported in the popular press,	
1						reinforcing people's relational value linking biodiversity to welfare of future generations (see Faith 2017). Option value of biodiversity has been promoted well by conservation NGOs (for perspective see Gascon et al. (2015) who provide many examples of surprising benefits from biodiversity). Gascon et al. also noted the measurement problem and point to	
	1						

				1		en e	i i
					ľ	"phylogenetic diversity" as a likely good measure of option value (see below). Over the past decade or more, a strong case (reviewed in Faith 2017) has been made for an indicator of	
						"maintenance of options" as the estimate, over multiple taxonomic groups, of the maintenance of phylogenetic diversity ("PD" sensu Faith 1992). Larsen et et al. (2012) argued that a big	
						challenge in biodiversity conservation is to find a "robust proxy" for global option values that effectively captures potential future values to society. They concluded that "maximizing the	
						retention of phylogenetic diversity (PD) should also maximize option value." Cadotte and Davies (2010) argued that "maximizing the preservation of PD will also tend to maximize the	
					- 1	preservation of feature diversity." Jetz et al (2014) argued "While any particular trait may be phylogenetically labile, PD captures the integrated genotype and phenotype of a lineage	
					i	and so represents both measured (e.g., present) and unmeasured (e.g., future) function and capacity." (see also Laity et al 2015; Mouillot et al 2016; Pollock et al 2017). Support for PD as	
					i	a measure of option value is found also in philosophy of science work (e.g. Maclaurin and Sterelny 2008) and among economists (e.g. Nehring, K., and C. Puppe 2004). Arrieta et al 2010	
					- 1	has explored how recent discoveries link to phylogenetic diversity. Fig 2 http://www.pnas.org/content/107/43/18318.full The IPBES catalogue of assessments illustrates the link of PD	
					1	to option value, based on the many foods and medicines discovered in plants. http://catalog.ipbes.net/assessments/144 "Phylogeny and the sustainable use of biodiversity: an	
					i	assessment based on the Survey of Economic Plants for Arid and Semi-Arid Lands." Forest et al. (2007) explored PD and option value using an estimated phylogenetic tree for genera	
					1	found in the Cape hotspot of South Africa. Forest et al. (2007) demonstrated that, if we did not know about those medicinal, food, and other uses, then preserving sets of species with	
					- 1	high PD would be a good way to preserve these unknown benefits. PD captures option values well because it reflects "feature diversity". This link is well corroborated through the many	
					1	tests (moderate to high confidence based on many published PTP tests that corroborate the PD model; e.g. Slowinski and Crother (1998); Wilkinson et al 2002). A well-established	
					1	framework for quantifying such global option values of biodiversity is "phylogenetic diversity". Status and trends in biodiversity and NCP18 could look at status and trends in PD in two	
						ways. 1) How well is PD represented well in the regional and global protected areas system? 2) How much PD is in peril given the known imperilled species from red list assessments? 1)	
						Pollock et al (2017; Extended Data Figure 3) show the global and regional priorities for expanding protected areas to benefit the bird versus mammal phylogenetic diversity. See	
						Extended Data Figure 3f https://www.nature.com/nature/journal/v546/n7656/fig_tab/nature22368_ft.html Mouillot et al (2016) found hotspots areas having lots of poorly protected	
						PD, for fish and for corals: Fig 3 b and c http://www.nature.com/articles/ncomms10359 2) The studies above address the "maintenance of options" challenge of securely representing	
						PD in protected areas. A complement to those efforts is to assess, for many taxonomic groups, how much PD currently is imperilled (based on red list assessments of imperilled species).	
						The assessment of imperilled PD is well-established in the EDGE program. The value to people of NCP18 is illustrated well by this successful global program, EDGE (see references), based	
						on preservation of PD. The EDGE of Existence programme highlights and conserves phylogenetically distinctive species that are "imperilled" or on the verge of extinction. This program	
						and the many related regional and global studies (listed in references) provides the existing data useful for this assessment of NCP18. Typically these studies, over many different	
1						taxonomic groups, integrate red list assessment with estimates of Evolutionary Distinctiveness (ED) ospecies. Evolutionary Distinctiveness (ED) measures the proportion of total	
						taxinism groups, integrate text is assessment with estimates the evolutionary positive group of the extra transfer and transfer and the extra transfer and the extra transfer and the e	
						privide interest under the properties of the superior of the properties of the prope	
1						unity (1984). Et al., 2007, Sudany, for insuring casonium, groups, we now innex adulated published isso of Least-cast and good phylogenies, and nave red as assented with good phylogenies, and nave red as assented to the species. We could add-up total ED values or count number of EDGs species in the region. But the most useful summary of this available information is simply sum of the tabulated ED and the species in the region. But the most useful summary of this available information is simply sum of the tabulated ED and the species in the region.	
						species. We could active the control of the control	
						values of the fine-lefted species, as this approximates infeateried or imperime. PO = thus, providing information linking brounders by status and trange to change in N-124. Technical comment - tabulations for all groups focus on so-called ED values (evolutionary districtiveness: the 1911 bit divided up among the species where the ED score for a species is the sum	
						comment—abunations for an groups rocus on so-camed by water (evolutionary dissinctiveness, the total PT) is univied up among the species where the ED source or a species is the sum of its ancestral branch lengths, each divided by the number of descendants of that branch.) Thus, each species gets partial credit for overall PDthis is dominated naturally by terminal	
						on to ancess an unation rengins, each invited by the intimient of understanding the interest of the properties of the interest	
						unation lengthout includes a reactional part or each despite a micestal principle. A variable tabulations or ED scores for species in reference are informative—the total of the ED scores for all imperfilled species approximates nicely the total imperfilled PD (an estimate of expected loss of PD). This use of the available tabulations, with	
						total PC and the color of the ECOCOMS for an imperimed species approximates integrate to color imperimed by call estimate of expected to so in PC. This size of the available fadulations, with its links to red list categories, is more informative that popular simple summing up in a region of all ED values (this has been shown to be a relatively weak indicator of total regional PD	
						its links to red instructiones, is middle information on a lifetime transport of two bits of existing information in the accepted core indicator information on red list, and information on a (Faith 2016). Thus, NCP18 can be assessed through the integration of two bits of existing information: the accepted core indicator information on red list, and information on a	
						recognised measure of biodiversity that links to option value. Below, are the draft assessments for multiple taxonomic groups (and I have emailed this to one or more of the ALAS). The	
						portion of imperilled PD allocated to the region is notional in these draft diagrams; it is not yet tabulated as a portion of the overall tabulated global imperilled PD for a given group. I can appear to the property of th	
				-		provide this, plus more descriptive text as needed.	Landa and the second of the se
					I.	Assiste Lesia M. Cashin Assaud Heardh and Cades M. Duedte (2010) What lies underseath. Cases in the assault assaults assaults.	In the new version, we invite an expert (Dan Faith) to address this NCP and
			_			Arrieta, Jesús M., Sophie Arnaud-Haondb, and Carlos M. Duartea (2010) What lies underneath: Conserving the oceans' genetic resources. PNAS	we now provide a general overview of maintenance of options in ECA with
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Dan Faith	Ch.2)	0	8091	Faith DP, Ferrier, S., Williams, KJ (2008) Getting biodiversity intactness indices right: ensuring that "biodiversity" reflects "diversity" Global Change Biology 14, 207-217.	its relevant literature
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Dan Faith	Ch.2		1	0	8091	Faith, D. P. (2011). Higher-Level Targets for Ecosystem Services and Biodiversity Should Focus on Regional Capacity for Effective Trade-Offs. Diversity 2011, 3, 1-7; doi:10.3390/d3010001	its relevant literature
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						Zoologist Online pp1-10. DOI 10.7882/AZ.2014.031 available at:	we now provide a general overview of maintenance of options in ECA with
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Dan Faith	Ch.2	()	0	8091	Preserving the evolutionary potential of floras in biodiversity hotspots. Nature, 445, 757–760.	its relevant literature
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Dan Faith	Ch.2)	0	8091	Haskins, C. (1974) "Scientists Talk of the Need for Conservation and an Ethic of Biotic Diversity to Slow Species Extinction", Science, 184: 646-47.	its relevant literature
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Dan Faith	Ch.2		1	0	8001	Isaac, N.J.B., Turvey, S.T., Collen, B., Waterman, C., Baillie, J.E.M., 2007. Mammals on the EDGE: conservation priorities based on threat and phylogeny. PloS One 2, e296.	we now provide a general overview of maintenance of options in ECA with its relevant literature
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Moleón M & Sánchez-Zapata JA. 2016. Non-trophic functions of carcasses: from death to the nest. Frontiers in Ecology and the Environment, 14: 340-341 Zapata, M Moleon and Z Morales) to adress	adress this topic, which actually
Morales-Reyes Z, Pérez-García JM, Moleón M, Botella F, Carrete M, Lazcano, C. Moreno-Opo R, Margalida A, Donázar JA & Sánchez-Zapata JA. 2015. Supplanting ecosystem services contributes to assess the NCP of regulation of	
Marcos Moleón Ch.2 0 0 0 0 provided by scavengers raises greenhouse gas emissions. Scientific Reports, 5: article 7811 thanks for this suggestion	
We did now an effort to provide a general or Finnish Government Ch.2 0 0 0 0 General: In many parts of the text general conclusions are drawn based on individual local studies. Try to avoid this.	<u> </u>
We provided them at the end of the whole defining the pro	hnage

-						
					Live and the se highlights the importance of the release of security and in the deaft is a really detailed used. In the deaft is a really detailed used.	and take into
					would like to highlight the importance of the role of scavengers as providers of ecosystem services. Although the draft is a really detailed work, in my opinion the draft sh	
			l		account the ecological role of both obligate (i.e., vultures) and facultative scavengers (e.g., large predators, corvids or raptors) as ecosystem service providers. It is surprisin	
			l		no content related to this topic in NCP 10. Regulation of organisms detrimental to humans. Many large predator and vultures are globally endangered and they are crucial	for providing
			l		ecosystem services, such as disease and pest control, nutrient cycling, indirect greenhouse emissions regulation, cultural inspiration or recreational activities. There are sev	eral
			l		publications about it, e.g.,:	
			l		Gangoso, L., Agudo, R., Anadón, J.D., de la Riva, M., Suleyman, A.S., Porter, R. & Donázar, J.A. 2013. Reinventing mutualism between humans and wild fauna: insights from	vultures as
			l		ecosystem services providers. Conservation Letters, 6, 172–179.	ratares as
			l			
			l		Mateo-Tomás P., Olea P.P., Moleón M., Vicente J., Botella F., Selva N., Viñuela J., Sánchez-Zapata J.A. 2015. From regional to global patterns in vertebrate scavenger commi	Inities
			l		subsidized by big game hunting. Diversity & Distributions, 21: 913-924.	
			l		Moleón, M., Sánchez-Zapata, J.A., Margalida, A., Carrete, M., Owen-Smith, N. & Donázar, J.A. 2014. Humans and scavengers: the evolution of interactions and ecosystems	services.
			l		Bioscience, 64: 394-403.	
			l		Moleón, M., Sánchez-Zapata, J.A., Selva, N., Donázar, J.A. & Owen-Smith, N. 2014. Interspecific interactions linking predation and scavenging in terrestrial vertebrate assert	ıblages.
			l		Biological Reviews, 89: 1042-1054.	
			l		Morales-Reyes Z., Pérez-García J.M., Moleón M., Botella F., Carrete M, Lazcano., C. Moreno-Opo R., Margalida A., Donázar J.A. & Sánchez-Zapata J.A. 2015. Supplanting eco	system In this new version, we have invited three experts in the topic (JA Sanchez-
					services provided by scavengers raises greenhouse gas emissions. Scientific Reports, 5: article 7811	Zapata, M Moleon and Z Morales) to adress this topic, which actually
Zebensui Morales						
					Morales-Reyes Z., Sánchez-Zapata J.A., Sebastián-González E., Botella F., Carrete M., Moleón M. 2017. Scavenging efficiency and red fox abundance in Mediterranean mou	
Reyes	Ch.2	0	(0	0 without vultures. Acta Oecologica, 79: 81-88.	thanks for this suggestion
1	1	1	1			ļ .
David González	Ch.2	0	(0 0	0 There is a need to contextualize from the beginning the approach to multiple conceptualizations of values in all assessments according to the proposal in the guide on value	es. This is addressed in chapter 1
					While economic values are not to be prioritized viz-a-viz other types of values (social, health, etc.) it is clear that this is one value dimension that will be sought by many go	vernments. As
	1		l]	part of a pluralistic value framing, it is important to not disregard economic values. Economic values would need to be contextualized under the multiple conceptualization	
					approach. This should ideally be done in Chapter 2 of the Regional assessments. In this assessment is present in section 2.2.1 however it is not strong enough and it does represent the contraction of the regional assessments.	
David González	Ch.2	0	,	0	O relevant messages for the SPM. This is something that should be done.	Now, economic values is included
David Gorizalez	CII.Z	U	_	0	o helevant messages for the 3-rw. This is something that should be done.	Now, economic values is included
					There is a need to synthesise assessed economic values of NCP within the broader multiple types (instrumental, relational) and dimensionality of values (social, health, etc.	
					shown by means of a table which provides key information about the values assessed, including those pertaining to economic values. It is important to make explicit what	
David González	Ch.2	0	(0 0	0 being assessed and identify gaps (e.g., lack of information on some types of values). This should ideally be done in Chapter 2 of the assessment.	We tried to provide such information in this final version in section 2.3.
						David, we are not sure whether we miss this information, but we had only
David González	Ch.2	0	,	0	0 The MEP will submit further guidance to support the integration of multiple values in all assessments. We advise you to take this guidance into consideration.	access to the deliverable of values and valuation and Pascual et al. paper
David Gonzalez	CII.Z			, ,	Reading trough the text there is a lot of values related content not comming trough, when doing a quick revie. The values section 2.3.5 should be strenghten trough a synt	
David González	Ch.2				reading rough the text there is a not or values related content not comming though which chapter of values related topics thoughout the text. This may also allow for shortening though the whole chapter	We moved the information of maket-values in the same section of values
Health Review:	CII.Z	U		0		
				_	"Routes of pathogen exposure for humans in the environment include through soil, air and water, and through contaminated food or activities that lead to interaction wit	
Marieta Braks	Ch.2	0		D	domestic animals or disease vectors"	We do not understand this comment
						Biodiversity aspects and the role of organisms, including mircroorganisms
						are in chapter 3. Besides, due to the requested editing down of the whole
			l			chapter, we could not add more information in this regard
	1	1	1			ļ .
	1		l]		ļ ,
	1		l]		
	1		l]	One issue of concern is that microbial biodiversity is by large overlooked in this chapter. Microbes are a major component of the human environment. In the light of accum	· ·
	1		l]	evidence linking human microbiota and diverse environmental microbial exposures with health and disease, including resistance to NCD's and infections, the environment	
	1		l]	biodiversity should be mentioned in chapter 2.3. In fact, exposure to microbes especially during the perinatal period of life may explain many of the health benefits that co	ntact with
	1		l]	nature has to offer. Microbes may also connect with nutrition and medicinal plants, since both may exert some of their positive health effects by regulating gut microbiota	
	1		l]	role of environmental microbes transcends almost all the aspects of biodiversity and human health connection.	·
	1		l]	The 2015 State of knowledge review published by the World Health Organisation and the Secretariat to the Convention on Biological Diversity (CBD) dedicates chapter 8 to	,
	1		l]		
	l		l		environmental microbial diversity and health. The IPBES Regional Assessment for Europe and Central Asia report should also not ignore this very important aspect. This exceeds	
	1	1	1		written by Graham Rook and Rob Knight could be the basis for a subchapter that could be included in current chapter 2.3. Indicative 2016 and 2017 relative references are	proviaea
	l		l		bellow.	<u> </u>
	1	1	1		Thomas S, Izard J, Walsh E, Batich K, Chongsathidkiet P, Clarke G, Sela DA, Muller AJ, Mullin JM, Albert K, Gilligan JP, DiGuilio K, Dilbarova R, Alexander W, Prendergast GC. T	ne Host
	1		l]	Microbiome Regulates and Maintains Human Health: A Primer and Perspective for Non-Microbiologists. Cancer Res. 2017 Apr 15;77(8):1783-1812.	ļ ,
	1		l]	Roy S, Trinchieri G. Microbiota: a key orchestrator of cancer therapy. Nat Rev Cancer. 2017 May;17(5):271-285.	ļ ,
	1		l]	van den Elsen LW, Poyntz HC, Weyrich LS, Young W, Forbes-Blom EE. Embracing the gut microbiota: the new frontier for inflammatory and infectious diseases. Clin Transl I	mmunology.
	l		l		2017 Jan 20:6(1):e125	
	1		l			ļ .
	1		l		Rooks MG, Garrett WS. Gut microbiota, metabolites and host immunity. Nat Rev Immunol. 2016 May 27;16(6):341-52	
	l		l		Monda V, Villano I, Messina A, Valenzano A, Esposito T, Moscatelli F, Viggiano A, Cibelli G, Chieffi S, Monda M, Messina G. Exercise Modifies the Gut Microbiota with Positiv	e Health
Health Review:	1		l		Effects. Oxid Med Cell Longev. 2017;2017:3831972.	ļ .
Theofilos Poutahidis	Ch.2	0	(0 0	0 Hua X, Goedert JJ, Pu A, Yu G, Shi J. Allergy associations with the adult fecal microbiota: Analysis of the American Gut Project. EBioMedicine. 2016;3:172-9.	ļ .

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	I					Multiple sclerosis patients have a distinct gut microbiota compared to healthy controls. Sci Rep. 2016;6:28484	
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						water awy, needing and as, Asimon in F, devely a Ago, Solicion in a Gue Locateria and prevening grown impariments of anismittee of ynitrodiscial anismittee of ynitrodisci	
						Science & Technology, 2016;57 Part B:213-32.	
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Health Review: Daniela				+-	+		
Haluza	Ch.2	0		0	0	0 All tables are hard to read and need formatting.	They are now formatted
							Thanks for the valuable comment; due to a need for drastic downsizing the
						It is evident from reading the WHO (2014) document that there has been little communication with the WHOQOL Group network that conducted two decades of international	whole health section, we were not able to incorporate this into the new
Health Review:						collaborative research in the WHO Division of Mental Health. The Traditional Medicine document (cited and linked in Chapter 2) was published in 2000. This document explicitly	text, and due to other priorities we could not follow up on this comment in
	Ch.2	0		0		recommends using the WHOQOL measures for evaluating multiple dimensions of QoL in the field as it presents the WHOQOL Manual as Annex XI	the new appendix
Health Review: Suzanne Skevington	Ch.2	0		0		Some of the comments above could be cross referenced with the section on Language Diversity.	We do not understand this comment
Suzanne Skevington	CILE	U		0		From the index it seems that values and valueation are only pressent in sections 2.5.5, 2.7.10, and 2.7.11 but really they are scattered all troughout the text. For the reader it would be	We do not understand this comment
David González	Ch.2	2	2	16	3	77 helpful if secion 2.3.5 sumarized better all values related content troughout the text.	We create a section on values
Harald Pauli	Ch.2	2	2	.7	2	27 suggest to add '(NCP)'	Done
Harald Pauli	Ch.2	2	3			56 you may replace 'NCPs' with 'NCP' - it just could be read as NC to peoples, which would not be intended	Done
Harald Pauli	Ch.2	4	7	1	4	74 This might be misunderstood in the way that the systems are now less important than before.	this has been changed in the first key message to refer to multiple
						As the appropriate of series output as the form to the first output and the first output as the first outp	contributions
Motto Skorp Mauritzon	Ch 2	4	7	11	4	As the management of marine systems at least in Europe have become more sustainable over the last 30 years, stocks are rebuilding from overharvest, aquaculture is still rising, and 21 bears it by enough action of Plus County Life II delight the support against contributions of plus County Life II delight the support against a property and the support against the s	the third key message now refers to the recovery of fish stocks and the
Mette Skern-Mauritzen		4	7	_		12 there is this general notion of Blue Growth, I find it difficult to support a general prediction of future decline of marine contributions	the third key message now refers to the recovery of fish stocks and the expansion of aquaculture
Mark Rounsevell	Ch.2	4 4 4	7	'3	4	to there is this general notion of Blue Growth, I find it difficult to support a general prediction of future decline of marine contributions 3 "Losses of" rather than "declines in"?	the third key message now refers to the recovery of fish stocks and the expansion of aquaculture declines preferred
		4 4		'3	4	12 there is this general notion of Blue Growth, I find it difficult to support a general prediction of future decline of marine contributions	the third key message now refers to the recovery of fish stocks and the expansion of aquaculture declines preferred NCP acronym now not used
Mark Rounsevell	Ch.2	4 4 4	7	3	4	to there is this general notion of Blue Growth, I find it difficult to support a general prediction of future decline of marine contributions 3 "Losses of" rather than "declines in"?	the third key message now refers to the recovery of fish stocks and the expansion of aquaculture declines preferred
Mark Rounsevell Harald Pauli UK: David Forrow Health Review: Edna	Ch.2 Ch.2 Ch.2	4 4 4	7 7	74	4 4	72 there is this general notion of Blue Growth, I find it difficult to support a general prediction of future decline of marine contributions 73 "Losses of" rather than "declines in"? 74 in the executive summary it may be helpful to put again the full term of NCP in brackets 75 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are	the third key message now refers to the recovery of fish stocks and the expansion of aquaculture declines preferred NCP acronym now not used ncp acronym nmot used and the list of NCPs are in the first and second section of the chapter
Mark Rounsevell Harald Pauli UK: David Forrow Health Review: Edna Cabecinha	Ch.2 Ch.2 Ch.2	4 4 4	7 7	74	4 4 8 2	There is this general notion of Blue Growth, I find it difficult to support a general prediction of future decline of marine contributions 1 "Losses of" rather than "declines in"? I in the executive summary it may be helpful to put again the full term of NCP in brackets Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are The acronym NPC appears very earlier in the text, but Nature's Contributions to People (NCP), only appears for the fist time on page 8, line 224. It Should be introduced in page 4, line 74.	the third key message now refers to the recovery of fish stocks and the expansion of aquaculture declines preferred MCP acronym now not used ncp acronym nmot used and the list of NCPs are in the first and second section of the chapter NCP acronym now not used
Mark Rounsevell Harald Pauli UK: David Forrow Health Review: Edna Cabecinha	Ch.2 Ch.2 Ch.2	4 4 4 4	7 7	74	4 4 8 2	72 there is this general notion of Blue Growth, I find it difficult to support a general prediction of future decline of marine contributions 73 "Losses of" rather than "declines in"? 74 in the executive summary it may be helpful to put again the full term of NCP in brackets 75 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are	the third key message now refers to the recovery of fish stocks and the expansion of aquaculture declines preferred NCP acronym now not used ncp acronym nmot used and the list of NCPs are in the first and second section of the chapter
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Mark Rounsevell Harald Pauli UK: David Forrow Health Review: Edna Cabecinha Hanna Skryhan	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	4 4 4 4 4 4 4 4	7 7 7 7	74 74 74 75 75 75 75 75 75 75 75 75 75 75 75 75	4 4 4 5 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	72 there is this general notion of Blue Growth, I find it difficult to support a general prediction of future decline of marine contributions 73 "Losses of" rather than "declines in"? 74 In the executive summary it may be helpful to put again the full term of NCP in brackets 75 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 76 Abtreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 77 Lacronym NPC appears very earlier in the text, but Nature's Contributions to People (NCP), only appears for the fist time on page 8, line 224. It Should be introduced in page 4, line 74. 78 Lacronym NPC appears very earlier in the text, but Nature's Contributions to People (NCP), only appears for the fist time on page 8, line 224. It Should be introduced in page 4, line 74. 78 Lacronym NPC appears very earlier in the text, but Nature's Contributions to People (NCP), only appears for the fist time on page 8, line 224. It Should be introduced in page 4, line 74. 78 Lacronym NPC appears very earlier in the text, but Nature's Contributions to People (NCP), only appears for the fist time on page 8, line 224. It Should be introduced in page 4, line 74. 79 Lacronym NPC appears very earlier in the text, but Nature's Contributions to People (NCP), only appears for the fist time on page 8, line 224. It Should be introduced in page 4, line 74. 79 Lacronym NPC appears very earlier in the text, but Nature's Contributions to People (NCP), only appears for the fist time on page 8, line 224. It Should be introduced in page 4, line 74. 79 Lacronym NPC appears very earlier in the text, but Nature's Contributions to People (NCP), only appears for the fist time on page 8, line 224. It Should be introduced in page 4, line 74.	the third key message now refers to the recovery of fish stocks and the expansion of aquaculture declines preferred NCP acronym now not used ncp acronym more used and the list of NCPs are in the first and second section of the chapter NCP acronym now not used this has been heavily revised and shortenend
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Mark Rounsevell Harald Pauli UK: David Forrow Health Review: Edna Cabecinha Hanna Skryhan Graciela Rusch Markus Fischer Mark Rounsevell UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	4 4 4 4 4	77 77 77 77 78 88 88	3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	72 there is this general notion of Blue Growth, I find it difficult to support a general prediction of future decline of marine contributions 73 "losses of" rather than "declines in"? 74 in the executive summary it may be helpful to put again the full term of NCP in brackets 75 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 76 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 77 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 78 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader start of chapter? 70 Abbreviations in full at start of chapter? If a reader start at started here, they would not know what NCPs are 70 Abbreviations in full at start of chapter? If a reader start of chapter? 70 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 71 Abbreviations in	the third key message now refers to the recovery of fish stocks and the expansion of aquaculture declines preferred NCP acronym now not used not acronym now not used and the list of NCPs are in the first and second section of the chapter NCP acronym now not used and the list of NCPs are in the first and second section of the chapter NCP acronym now not used this has been heavily revised and shortenend this has been heavily revised and shortenend this has been edited so the sentence mentions seas and marine habitats the main text of the chapter focussed on nursery habitats so this is the focus of this sentence now This is mentioned in chapter 4 and discussed at length in the pollination assessment. It is not discussed here due to lack of space More use of the IUCN red list indicators has now been incorporated in the main chapter text Yes, We tryed to set a clear diffrence in the information about Water quality and water quantity regulation. Information about water abstraction was
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Mark Rounsevell Harald Pauli UK: David Forrow Health Review: Edna Cabecinha Hanna Skryhan Graciela Rusch Mark Rounsevell UNEP-WCMC: The Biodiversity Indicators Partnership (BIP) Thomas Brooks	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	4 4 4 4 4 4 4 4 4	77 77 77 77 78 88 88 88	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 3 4 5 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	72 there is this general notion of Blue Growth, I find it difficult to support a general prediction of future decline of marine contributions 73 'losses of' rather than 'declines in'? 74 In the executive summary it may be helpful to put again the full term of NCP in brackets 75 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 76 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 77 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 78 Abreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a breviation in Captral Started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? 79 Abbreviatio	the third key message now refers to the recovery of fish stocks and the expansion of aquaculture declines preferred NCP acronym now not used not acronym now not used and the list of NCPs are in the first and second section of the chapter NCP acronym now not used and the list of NCPs are in the first and second section of the chapter NCP acronym now not used this has been heavily revised and shortenend this has been edited so the sentence mentions seas and marine habitats the main text of the chapter focused on nursery habitats so this is the focus of this sentence now This is mentioned in chapter focussed on nursery habitats so this is the focus of this sentence now More use of the IUCN red list indicators has now been incorporated in the main chapter text More use of the IUCN red list indicators has now been incorporated in the main chapter text Yes, We tryed to set a clear diffrence in the information about Water quality and water quantity regulation. Information about water abstraction was rewritten with the use of other indicators. Yes the regulation of water quality is the capacity of removing pollutant from water bodies, and this is the explaination of this NCP delivery. If that questionis related to water quality reg NCP, then YES this NCP supply is deacreasing over the whole region mostly due to loss of wetland and river
Mark Rounsevell Harald Pauli UK: David Forrow Health Review: Edna Cabecinha Hanna Skryhan Graciela Rusch Markus Fischer Mark Rounsevell UNEP-WCMC: The Biodiversity Indicators Partnership (BIP) Thomas Brooks	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	77 77 77 77 88 88 88	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 3 4 5 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	72 there is this general notion of Blue Growth, I find it difficult to support a general prediction of future decline of marine contributions 73 "losses of" rather than "declines in"? 74 In the executive summary it may be helpful to put again the full term of NCP in brackets 75 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 76 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 77 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 78 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, they would not know what NCPs are 79 Abbreviations in full at start of chapter? If a reader started here, th	the third key message now refers to the recovery of fish stocks and the expansion of aquaculture declines preferred NCP acronym now not used not acronym now not used and the list of NCPs are in the first and second section of the chapter NCP acronym now not used this has been heavily revised and shortenend this has been heavily revised and shortenend this has been edited so the sentence mentions seas and marine habitats the main text of the chapter focussed on nursery habitats so this is the focus of this sentence now This is mentioned in chapter 4 and discussed at length in the pollination assessment. It is not discussed here due to lack of space More use of the IUCN red list indicators has now been incorporated in the main chapter text More use of the IUCN red list indicators has now been incorporated in the main chapter text Yes, We tryed to set a clear diffrence in the information about Water quality and water quantity gregulation. Information about water abstraction was rewritten with the use of other indicators. Set her egulation of water quality is the capacity of removing pollutant from water bodies, and this is the explaination of this NCP delivery.

					It would be relevant to include a review of the trends in soil condition related to the addition of mineral fertilizers and agro-chemicals. At least to indicate that there is little documentation of trends. Also, it would be relevant to include a review of the state of the biological capacity of soils (likely little known).G23	We agree on your comments and tried to improve the text and added references to more published evidence (in additional refs) section 2.2.1.7 However, there are no widely available indicators of the biological capacity
Graciela Rusch	Ch.2	4	95	4 10	I This paragraph is a bit unclear. That air quality is decreasing may not have to do with a decline in the capacity to remove/control pollutants. It is also unclear what 'regulation of air quality in forests' means, and also what decreases in 'ari quality regulation involving rives, lakes and wetlands'. It would help to include first a brief statement of what 'air quality	of soils, this is why we used soil carbon as a proxy.
Graciela Rusch	Ch.2	4	106	4 10	8 regulation' means in this context. Many readers will likely not understand what this is about.	this has been edited and simplified and hopefully is now clearer
Graciela Rusch	Ch.2	4	113	4 11	Sometimes NCP are described in terms of 'use' and in others as the capacity of the system to generate these contributions. This may be a bit confusing for those unfamiliar with ES framework. It would be more straight forward here to refer to 'generation' or 'production' of material NCPs. I Would it be possible to review the trends in the level of human inputs (as distinguished from the contribution of nature to food production)? (in the next paragrph 'food provision' is used, for instance.	this sentence has been edited to refer to use and capacity so hopefully this is clear
Graciela Rusch	Ch.2	4	114		4 What about other biomass-based energy?	biofuels are now mentioned
Graciela Rusch	Ch.2	4	116	4 11	Are these medicinal resources occurring in Europe and CA? Any regional differences in these trends? Where are these resources provided?	regional differences are dicussed in the main text in section 2.2.2.4
Germany	Ch.2	5	118	5 12	2 This needs to be explained further- what role did these very different events and processes (such as CAP) play for food production?	lack of space in key meesages prevents a detailed discussion of policies here. The main message is that policies can have important impacts. The policies are all discussed in the main text especially section 2.2.1 and 2.2.2
Graciela Rusch	Ch.2	5	118	5 12	What would be relevant to point out here is not "food production' per se, but what these societal changes have brought about, in terms of the capacity of cropland ecosystems to contribute to food production. What have these changes brought about in terms of the structure of landscape mosaics, and the kind of on-farm food production practices.	the third key message now addresses this issue by dicussing trade offs and and agricultural area per capita
UK: David Forrow	Ch.2	5	120	5 12	Should read fall not fell	fall now not used
Graciela Rusch Finnish Government	Ch.2	5	122 125	5 12 5 12	Equating production to levels of extraction is problematic. Could these trends be explained in terms of the capacity of the system to generate benefits? Aren't there any statistics of fish/sea food stocks? And the levels of sustainable harvest? This would be more meaningful to report as the NCP than 'use' actual harvest. Ideally, these sections would be reported as the generation capacity and the level of use, and explain the mismatches to highlight unsustainable use when appropriate.	This message now considers fish production and stocks. Capacity is now discussed in the final key message when biocapacity is discussed. differences between countries are discussed in the main text the key messages concentrates on data for ECA as a whole
					Also here, the "level of production" of woodfuel and roundwood does not say anything about levels of sustainable expoloitation. The value of this information is limited, and can be interpreted in many different ways. For instance, that with better infrastructure (roads) and modern machinary, the "low production volumens" in Central Asia can be considrably	
Graciela Rusch	Ch.2	5	126	5 12	7 enhanced (see e.g. prognosis for one Eastern EU country http://www.pwc.ro/en/press_room/assets/2016/wood-industry.pdf)	This issue is discussed at the end of key message 3
Graciela Rusch	Ch.2	5	133		The language used here may be understandable by the ES research. But very hard to grasp by anyone else. This formulation is a bit ackward also: 'the source of existence value of biodiveristy'	this has been changed to make it more accessible to readers by discussing asepcts of quality of life
Graciela Rusch	Ch.2	5	143		Indicate LIKP as an accronym earlier	acronym not used now
Finnish Government	Ch.2	5	144		In many countries, especially those with "everyman's rights", the learning and inspriration is linked mainly to the surrounding nature areas of people, including commercial forests, not only with often remote protected areas.	the key message now diacusses inspiration linked to recreation in general not just in protected areas
Graciela Rusch	Ch.2	5	148		This paragraph is very difficult to grasp for a non-specilist. This synthesis should be readable by many.	this has been simplified and the word hybridization has been removed
Johannes Langemeyer	Ch.2	5	150	5 15	The statement 'linguistic diversity has been shaped by biodiversity' seems to be based on a limited geodeterministic understanding of cultural development and no evidence has been provided in the respective sub-section that would underscore this statement.	this is a debateable issue and some reviewers highlight literature on the link between biodiversity and linguistic diversity but this has been changed in the message and main text to make the commetn less deterministic
Markus Fischer	Ch.2	5	151	5 15	"linguistic diversity has been shaped by biodiversity": Is this true? And do you have evidence? Isn't it rather that geographic and environmental features (e.g. bareers, distance, 2 climate) largely shape both linguistic diversity and biodiversity?	this is a debateable issue and some reviewers highlight literature on the link between biodiversity and linguistic diversity but this has been changed in the message and main text to make the commetn less deterministic this is a debateable issue and some reviewers highlight literature on the link
Graciela Rusch	Ch.2	5	151	5 15	How well established is this? Linguistic diversity 'shaped' by biodiversity? What are the implications of the fact that languages go extinct? Languages can go extinct but not because of environmental degradation? Is there any documentation that the loss of languages has a bearing about how nature is managed and used? (This I think is a relevant issue to bring in). The 2 reference to this matter should be evaluated soundly. Are these precentages of lost languages for ECA?	this is a debateable issue and some reviewers nighting in the faute of in the link between biodiversity and linguistic diversity but this has been changed in the message and main text to make the comment less deterministic, this issue is discussed more fully in the mian text and the data is provided for ECA and the 4 subregions
Graciela Rusch	Ch.2	6	156	6 15	6 Also here, now this refers to 'renewable resources'. The terminology needs to be made consistent, and also adapted so that it can be understood by everyone interested in reading this.	The meaning of these terms are made clear in section 2.2.4
Finnish Government	Ch.2	6	156		This chapter mentions nothing about the sustainable use on natural resources in many European countries that is off-setting the use of e.g. fossil fuels. If not in this chapter, this substitutional effects and its positive impacts on climate and people should be discussed in pages 5-6.	sustainable practices are highlighted in the key messages in relation to wild fish, wood production and tourism and recreation
					It is necessary to provide at the start a brief introduction to the different elements along the ES concept (nature (the ecosystem and its functions), the contributions from ecoystems, the use/appreciation of these contributions, the benefits derived from the use/appreciation and the value attached to these benefits (how important they are in relation to each other and	this is provided in chapter 1 and also in the introdcution to the main chapter
Graciela Rusch	Ch.2	6	158		8 'per se').	due to space constraints imposed after the SOD this message focuses on ECA as a whole. Sub-regional differences are discussed in section 2.2.4 of
Finnish Government	Ch.2	6	158	6 15	Also Northern Europe is a net exported of NCP benefits. The ecological footprint is an established tool to communicate human dependency on nature, yet its scientific soundness is highly disputed. Given the importance of this assessment and	the chapter The key message recognsies that indicators are debated and so uses three indcators including biocapacity and HANPP which are recognised in the peer
Johannes Langemeyer	Ch.2	6	159	6 16	potential dispute it might cause policy-making I would avoid making reference to this indicator, which is not essential for the chapter.	reviewed literature
Markus Fischer	Ch.2	6	159	6 15	Also mention Central asia If a framework that distinguishes 'generation' /contribution' to 'use/appreciation' is used, then the ecological foodprint could be use as an entry point to bring about the issue of	central asia mentioned Thes issues are addressed by the message discussing HANPP and ECAs
Graciela Rusch	Ch.2	6	159	6 15	9 sustainable and unsustainable levels of use. (the mismatch between 'supply and demand')	reliance on land for crop prduction outside the ECA region
Mark Rounsevell	Ch.2	6	172	6 17	3 "are provided by": Not clear what this means	the phrase 'provided by' has been removed
Graciela Rusch	Ch.2	6	172	6 17	Here also there is confusion of concepts. 'instrumental and relational values are provided by NCPs". It is nature that both makes NCPs possible ('provide') and giver rise to 'instrumental and relational values'. Here again, this use of terminology according to IPBES guideline (on values for the assessments) is OK for the assessment, but it will be hard to understand by 2 everyone else outside the sphere. Can the languague of the introductory statements be more accessible? ANd also, beware the (confusing) use of terms and concepts.	the terms instrumental and relational have been removed and new valuation message has been produced

	1						1
UK: David Forrow	Ch.2	6	172	6	172	Significant instrumental and relational values? - not sure what this means	the terms instrumental and relational have been removed and new valuation message has been produced
Markus Fischer	Ch.2	6	173		174	"relational and instrumental values": Needs to be defined in Chapter 1	they are now defined in chapter 1 and in the introduction to chapter 2
Germany	Ch.2	6	176	6	177	These three given reasons are not self-explanatory. Why is there for instance only a reference to the nutritional value of wild foods?	the valuation key message has been completely revised and the discussion of nutrition is much broader
Health Review: Malcolm Ward	Ch.2	6	178	6	179	The health benefits of exposure to natural environments from Japanese literature now being acknowledged and acted on in many different cultures: literature http://www.natureandforesttherapy.org/the-science.html	the health key message has been completely rewritten and considers a range of ways health is infleunced by nature
Graciela Rusch	Ch.2	6	180	6		Could this paragraph be linked to those above about the contributions of nature to food and water?	the link between health and food is now discussed and safe water is
Graciela Rusch	Ch.2	6	181	6		This seems to contradict the fact that Western Europe relies more on imports, and that the footprint is much higher than the carrying capacity?	the discussion of food security in the key messages has been changed to avoid this contradiction
Gracicia Nascri	CITIZ	† j	101		102	"During 2007-2009, the percentage of households with children unable to afford a 183 nutritious meal doubled in some countries of Western and Central Europe (e.g. Estonia, Greece,	this has been removed from key messages and food secutiry is dicussed in
Johannes Langemeyer	Ch.2	6	183	6		184 Iceland and Italy)" This sounds sensationalist without knowing the outcome of the changes as total percentages of the population.	more detail in section 2.3.1.1
Graciela Rusch	Ch.2	6	191	6	194	This is a bit difficult to follow. Which % of these protectin categories is found in ECA?	this has been edited to make it clearer
Johannes Langemeyer	Ch.2	7	205	7	207	"Although there is a general increase in the number of people experiencing recreational activities in nature, the participation in these activities is lower in Central Asia and Eastern Europe than the other sub-regions because of the lower number of protected areas and less infrastructure for access." Consider that these are not the only possible reasons, cultural reasons might be as important (and also underlying lower numbers of PA).	this discussion is no longer in the key messages
Dan Faith	Ch.2	7	210		211	this is good "intergenerational injustices. Future trade-offs between NCPs could potentially cause problems for equity, as NCPs could be appropriated to different degrees by different social groups	this discussion is no longer in the key messages
Germany	Ch.2	7	215	7	217	While this is definitely an important statement, it remains at a very general level here. Where are examples how this can work in practice?	this key message has been re-written and more empirical detail is provided
Hanna Skryhan	Ch.2	7	218	7	218	Add the statement about the knowledge gaps and necessary reserches	due to space constraints imposed after the SOD knowledge gaps are not discussed in key messages but are discussed in detail in section 2.5
UK: David Forrow	Ch.2	8	224	8	230	English needs to be improved in this paragraph	this section has been completely re-written
						"we recognize that NCPs are more than themselves alone" Unclear.	
Johannes Langemeyer	Ch.2	8	225	8	226		this phrase has been removed
ECA values liaison group	Ch.2	9	235			Consider mentioning 'options for maintaining NCP' in this introduction. It is not covered in Section 2.2, but in section 2.3.4: Equity and Justice, because of inter-generational equity / justic.	This NCP is now added as a NCP in section 2.2., so it is also included in the introduction as requested.
Graciela Rusch	Ch.2	9	238	9	246	it would be important to 'translate' the jargon to an accessible language; through out th whole tocuments. E,g terms such as 'holistic, differences between ES and NCP (seem rather subtle in this context, and can be confusing for many.	We reduce the use of jargon, by using only integrated valuation and by explaining when we use ecosystem services and NCP.
Johannes Langemeyer	Ch.2	9	246	9	250	Why do you then use NCP in the executive summary (instead of ES)?	The decision is that we use Nature's contributions to people (NCP) when synthesizing, summarizing and assessing information. The term ecosystem services is used when referring to literature which uses the ecosystem services term. So, we use NCP as much as possible in the executive summary.
Health Review: Sjerp							We explain that Nature's contributions to people (NCP) is used when synthesizing, summarizing and assessing information. The term ecosystem services can be used when referring to literature which uses the ecosystem services term. For the differences between the two, the explanation is given
de Vries Amor Torre-Marin	Ch.2	9	246 249	9		Since NCP is such a central concept, I feel that it deserves to be introduced clearly, including its differences with the concept of ecosystem services. Is "established" a confidence term? If so to be used between brackets. If noy alternative wording should be used.	in chapter 1. Thanks for spotting this out!!!
Allioi Torre-Iviariii	CII.Z	+ 1	243		243	is established a commence term: it so to be used between brackets, it may afternative wording should be used.	manks for spotting this out:::
Graciela Rusch	Ch.2	9	249	9	250	It would be good to explain the use of these definitions in the excecutive summary, and then use them consistently in the 'main messages'. I suggest then, to use these terms consistently and avoid others such as 'production'.	The executive summary aims to provide the main messages and the key findings. As this is more methodological, we decide to explain this in section 2.1.2 when we present the list of indicators used in the assessment. We also add these concepts in the glossary of the ECA assessment
							We increase the size of the font. We want to keep the figure because it provides in a snapshot the scopus of this chapter, so we do believe this is
Nadine Goris	Ch.2	9	250	9	252	Figure 2.1: partly too small fonts and out of focus	not out of focus.
Johannes Langemeyer	Ch.2	9	251	9	256	It is not coherent to introduce the NCP framework (Fig. 2.1) and then speak about ES in the text.	We explain that Nature's contributions to people (NCP) is used when synthesizing, summarizing and assessing information. The term ecosystem services can be used when referring to literature which uses the ecosystem services term. We used this consistently across the chapter
Graciela Rusch	Ch.2	9	251	9		Would it be possible to move this graph and a bit of explanation in the previous section (excutive summary?)	Executive summary does not have figures. So it is not possible
Health Review: Daniela Haluza	Ch.2		252	٥	256	I would suggest some modification on Figure 2. TI would remove the numbers 1-15 or think about a more graspable presentation, write either non material or non-material and chose other color coding.	We used the same color coding than Pascual et al. (2017) for coherence with IPBES, but now a graphic designer is helping with figures. We delete the numbers of NCP according to reviewer's suggestion.
		9	232	9	230	out course.	Transpers of reci according to reviewer 5 suggestion.
Allan Watt	Ch.2	9	264	٥	265	Note that Chapter 3 only mentions NCPs in the chapter title!	Now we are more coordinated with the other chapters. Nevertheless, we agree that Nature's contributions to people (NCP) is used when synthesizing, summarizing and assessing information. The term ecosystem services can be used when referring to literature which uses the ecosystem services term.
, sidii watt	U.1.E	9	204	9	203	Perhaps a minor concern (because I understand what you mean) but the use of the word "component(s)" is somewhat misleading. You are referring to ecosystem service, capacity, use and value, which are not really components. You could avoid the word completely by starting "The emergence of an ecosystem service depends, firstly, upon the ecosystem's capacity to	and the feeting to interactive without uses the ecosystem services term.
						supply that service, secondly the use, flow or demand for that service and, thirdly, the value of that service" Incidentaly, the paper in the reference list by Schroter et al (albeit	
Allan Watt	Ch.2	10	272	11	291	published in a different year) doesn't use the word component. The larger context of the role of NCPs in human wellbeing should be at least mentioned. The commercial use of natural resources allows for job creation and welfare benefits to the poor	We deleted the word component.
Finnish Government	Ch 2	10	274	10	282	people financially covered by income and capital taxes gained in the value-chain of natural resource prosessing. The effect depends on the institutional setting of the country - the more leaditarian the system, the wider the welfare benefits trick-down.	This was not the goal of this section. Aspects of economic value are dealt with in the respective sections.
isii Governinciit	CITIZ .	10	2/4	10	203	pagamanan are system, are made are menare seneral and downs.	with in the respective sections.

	1	1	ı	1	1		T
							The text states that capacity relates to potential to provide an NCP, use
Health Review: Sjerp						Here no clear distinction between NCP and ecosystem service seems to be made. Moreover, it is not clear to me to which of the three aspects (provision, use, benefit) NCP refers. I find	referes to the actual appropriation, and value are measures of importance.
de Vries	Ch.2	10	27	74 10	285	this distinction quite important and useful, but not much use of it seems to be made in section 2.3.2	In this latter aspect our chapter bridges two boxes of the IPBES CF.
						Is the concpetual framework introduced coherent with other chapters of the assessment? The conceptualization, merging 1. ES capacity/ES demand/ecosystem functions, 2.	
						flow/demand, and 3. ES value, is not the most intuitive and probably not the most established in the lit. I beleive it would be important to mention that there are competing/differing	We acknowledge differeing conceptualisations and refer to example literature. We added that our aim was not a complete assessment for all
Johannes Langemeyer	Ch 2	10	27	76 10	285	conceptualizations of ES in the lit. In addition, the proposed framework is not applied in all sub-sections (this seems to be a major reason why table 2.1 is so empty) and when reading the rest of the chapter it is not clear why it needed to be introduced.	aspects across all NCP.
Johannes Eangemeyer	CILZ	10		10	203	the lest of the engiet it is not clear why it needed to be introduced.	We made more clear that the aim was not a systematic assessment of all
							components across all NCP, rather, the Table pinpoints to indicators used.
ECA values liaison						This is an excellent section on the difference between capacity, use and value. However, although Section 2.2 mostly features the trend in NCPs, there is frequent reference to the	We added more on economic values, as this part was developed after the
group	Ch.2	10	27	77 10	285	economic value of NCPs throughout. Please explain here why there is occasional reference to economic and monetary value (if still applicable) in Section 2.2.	SOD.
Dan Faith	Ch.2	10	28	oe .	200	Table 2.1: Indication of which ecosystem service component is assessed in this chapter per each Nature's Contribution to People (NCP) - but NCP18 is not an ecosystem service	We consider NCP 18, as given by the general classification of IPBES.
Dali Faltii	CII.2	10	- 20	55	289	Table 2.1 sense to be a selective choice of examples of indicators not a comprehensive assessment in its current for, I do not see the added value of this table (to the contrary it might	We consider NCP 18, as given by the general classification of IPBES.
						bias towards the future use of arbitrarily chose examples of indicators). The table (and the underlying framework) partly contradicts more holisitc understandings of value underlying	The table is a summary of all indicators used in the assessment. We made
Johannes Langemeyer	Ch.2	10	28	36		other parts of the chapter.	this more clear.
						This is fine, because, indicators will not always be available. But one of the most valuable aspects of the ES approach is that these indicators can be put together in a context that enables	
						to see linkages between each other (e.g. that the reduction of the capacity of a system to generate NCP, is related to the levels of use (flow-demand), which in turn can help us gain	We was not able to exact a systematic average for all indicators for all
Graciela Rusch	Ch.2	10	28	26 10	288	insights on whether levels of use/appreciation can decrease as a consequence of the depletion or degradation of the natural capacity/qualities. Suggest to indicate when these linkages are not possible to be made due for instance to lack of data at compatible spatial scales.	We were not able to create a systematic overview for all indicators for all aspects.
Mark Snethlage	Ch.2	10			200	The goal of ECA" -> "The goal of the ECA assessment"?	This was corrected.
						In France whe have a recent assessment of hunting and game ecosystem service (Evaluation du service écosystémique chasse en 2015, BIPE, 2016).	This table is a summary of the systematic evaluation of indicators we found
Jean-Pierre Arnauduc	Ch.2	10	28	37 10	288	http://docs.chasseurdefrance.com/FNC_BIPE_Rapport_Final_2016.pdf	in the literature (mostly English literature).
							The economic values will be added once the section is complete. The other
Germany	Ch.2	10	28	20 11		why are there gaps in the table? Are these yet to be filled?	gaps idnicate that we did deliberately choose not to assess both capacity and use for all NCP systematically
Health Review:	CII.2	10	- 20	59 11	end or tab	why are unere gaps in the cather Are these yet to be inter. Very little reference to health related values associated with many of the identified NCPs including QALYs (Quality Adjusted Life Years) and DALYs (Disability Adjusted Life Years) Very little reference to health related values associated with many of the identified NCPs including QALYs (Quality Adjusted Life Years) and DALYs (Disability Adjusted Life Years)	and use for all NCP systematically
Malcolm Ward	Ch.2	10	28	89 11	291	plyticularly relevant to NCPs 3, 4, 5, 8, 9, 12 & 14.	Health is a Quality of life aspect, this Tabel introduces NCP only.
Health Review:						In Table 2.1, heading 12, on medicinal plant resources, the Ecosystem Service Use should be described as Health Treatment and the consequent Ecosystem Service Value should reflect	
Epameinondas						the cost of Medical Care per capita against the population that uses natural medicinal resources. An other approach could incorporate as indicator of Ecosystem Services Value the Gross	
Evergetis	Ch.2	10	29	90 11	291	Sales of Natural Products/Natural Products inspired pharmaceuticals.	this more clear.
						in 1, ES value could be protection of particular habitats in national regulations or support to agri-environmental measures targeting habitat maintenance. But, it would be best to include	The table is a summary of all indicators used in the assessment. We made
Graciela Rusch	Ch.2	10	29	10	291	in 1,2 or since could be protected in the executive summary.	this more clear. The goal was not to assess all aspects of all NCP.
						,	
							The table is a summary of all indicators used in the assessment. We made
Graciela Rusch	Ch.2	10	29	10	291	2. Under ES use, More specifically, - area of pollinator dependent crops level of crop yield as a function of pollinator diversity and occurrences.	this more clear. The goal was not to assess all aspects of all NCP.
Graciela Rusch	Ch.2	10	29	10	201	would suggest to indicate in the table (and when appropriate) that ES 'use' has been in many contexts referred to 'benefits'. It makes more sense in the case of 'years of life gained' (rather than lost), for instance.	The use of several terms for aspects of ES/NCP has been clarified.
Graciela Ruscii	CII.2	10	2:	71 10	251	Traurier trian rost, for instance.	The use of several terms for aspects of Es/NCF has been claimed.
							The table is a summary of all indicators used in the assessment. We made
Graciela Rusch	Ch.2	10	29	10	291	Under 4 in the table. 'Reduction of atmospheric CO2 concentrations".	this more clear. The goal was not to assess all aspects of all NCP.
							L
Graciela Rusch	Ch.2	10	29	91 10	201	Under 5. "Amount of water availability (for human use)". Under ES use, 'amount of water extraction/consumption' These are referred in the ex. Summary so, good to use these as examples. ES Value, irrigation water costs, or other fees /taxes to water use.	The table is a summary of all indicators used in the assessment. We made this more clear. The goal was not to assess all aspects of all NCP.
Graciela Ruscii	CII.2	10	2:	71 10	231	examipes. 3 value, imgalion value costs, or other nees yeakes to water use. I would say that the amount of clean water available is also part of the supply. The use are not 'the quality measurements'. The use is the actual extraction of clean (drinkable) water for law of the property o	We acknowledge differeing conceptualisations and refer to example
						use. This could also be referred to use of water bodies for bathing. The value could be treatment costs, high water quality, costs of abatment measures to reduce pollution. Also, the	literature. We added that our aim was not a complete assessment for all
Graciela Rusch	Ch.2	10	29	10	291	stardards of water quality is an expression of value.	aspects across all NCP.
Graciela Rusch	Ch.2	10	29	91 10	201	Under 7 Capacity: Capacity of the vegetation to protect against soil erosion (not the ecosystem). Soil organic matter. Functional diversity of soil biota. Under ES use, could be: avaiable soil nutrients and water for crop growth. ES value: crop yield without fertilizers and irrigation.	The table is a summary of all indicators used in the assessment. We made this more clear. The goal was not to assess all aspects of all NCP.
Graciela Ruscii	CII.Z	10	- 2	71 10	291	som mutrients and water for drup growth. Es value, drup yield without fertilizers and irrigation.	this more clear. The goal was not to assess all aspects of all NCP.
	1					Under 9. Under production of grains, the ES capacity is mainly related to the soil capacity (see above). ES use, would be crop harvest. And value, market price of food stuffs. About	
Graciela Rusch	Ch.2	10	29	91 10	291	domestic animals, it is tricky if (as in many places in Europe) the food is based imports to the farm. Meat production with imported fodder is not related closely to ES.	We corrected this: indicators for production are related to "actual use".
							L
Crasiala Busah	Ch.2	10		11	201	Under 13. He day associate. A grap of habitate with a sadisinal plants. Ff. was Hannath of an advisoral plants.	The table is a summary of all indicators used in the assessment. We made
Graciela Rusch	CII.Z	10	29	10	291	Under 12. Under capacity. Area of habitats with medicinal plants. ES use: Harvest of medicinal plants	this more clear. The goal was not to assess all aspects of all NCP.
]						The table is a summary of all indicators used in the assessment. We made
Graciela Rusch	Ch.2	10	29	10	291	Under 15: Sacred sites: ES use: Could be Nr of people attached to sacred sites.	this more clear. The goal was not to assess all aspects of all NCP.
]					The table does not include the role of non-protected natural areas - commercial forests, fields, waters - as a source of physical and psychological experiences and supporting identities.	
L	l., .					Still many activies supporting identities and culture, especially fishing and hunting, take place especially in these areas. People enjoyd nature most often in their near-by areas (Sievānen	The table is a summary of all indicators used in the assessment. We made
Finnish Government	Ch.2	11	29	90 11	291	et al. 2004).	this more clear. The goal was not to assess all aspects of all NCP. In the current version, we reduce the background per NCP and focus on the
ĺ]						In the current version, we reduce the background per NCP and focus on the capacity to provide each NCP and the demand by people. This is the main
Mark Rounsevell	Ch.2	12	29	92	293	There's probably some scope to shorten this section by reducing the background/contextual information provided for each NCP category	focus now.
Mark Rounsevell	Ch.2	12	29	96		ILK is now standard usage	Ok
Hanna Skryhan	Ch.2	13	30		305	is the picture really necessary?	Now it is deleted
Lisa P. Sousa	Ch.2	13	306	48	1352	There should be more examples to clarify the role of marine ecosystems in regulating NCPs, other than habitat creation and maintenance (e.g., climate regulation, water purification)	November and the NCD of socialists of
ECA values liaison	1	1	}	+	1	Explain here, and in or around table 2.1 (289-290) that NCPs 'Ocean Acidification' and 'Regulation of organism detrimental to humans' are not covered in regulating NCP. Consider to	Now we add the NCP of regulation of ocean acidification
group	Ch.2	13	30	07 13	321	Explain nere, and in or around using Exp. (2015) and the explain nere, and in or around using Exp. (2015) and explain nere, and in or around using Exp. (2015) and explain nere, and in a regulation of original nere, and in the explain of the explain nere, and in a regulation of original nere, and in a regulation or original nere, and in a regulation original nere, and in a regulation or original nere, and in a regulation or original nere, and in a regulation or original nere, and in a	In the current version, both are now addressed
0						,	

ECC Freeder Lotter O 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Journal and Staburgs, which show the moderate contributions of urban ecopystems for provincemental Quality Staburded is due to opacial minimate between demonal by Annual Contributions of the Contribution of				ı		1		T
FIG. C. Fronce: The content of the	10.002 and 03 pas capture services. The tardy is referenced an follows 80x 5, 1 is as 0, 0, 6mes-degether. C. printzskals, it. 2005. Monastries between by what defended in water and a security of the securi							there can be even very local mismatches between ES provision and supply, in addition to the regional/country-scale ones. There is a study looking at the European cities of Stockholm,	
Section 1. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	when defended in when areas. A questifier as sessment in the European cities, closing in Indiana countion was classified as a supporting service and therefore, at least, it might be better not to start a discussion on regaliting services with the example of the								We are aware about these mismatches, but unfortunately we are not able
Consideration of the second control of the s	the district creation was closified a a page orang group and service and service as the result of the page of the	PESC-4: Frederic							
habite controls. November 1 of the Section And Section	rev. can see a lapse for foing so jot tart with the habitat and them move to the "real" regulating service. If so, perhaps some administration with a care transmission of the control o	Lemaitre	Ch.2	13	318	13	321	ecosystem services supply and demand in urban areas: A quantitative assessment in five European cities. Ecological Indicators 55: 146–158)	down the chapter by half. We prioritize the other inter-regional flows
Author contents. However, for own a signific of large (out of the highest and then more to the "art" regulating servers. For, pull-up-own airman-dispensate for all the highest and then more to the "art" regulating servers. For any pull-up-own airman-dispensate for all definition probably lists up that to dispense, or at text to need the proof or the server of the proof or the proof or the server of the proof or the proof or the server of the proof or the proof or the proof or the server of the proof or the proof	rev. can see a large for foing so just and the habitat and them move to the "real" regulating service. If so, perhaps some acknowledgement for different views at cereation shaded by a control of the								
habite controls. November 1 of the Section And Section	rev. can see a lapse for foing so jot tart with the habitat and them move to the "real" regulating service. If so, perhaps some administration with a care transmission of the control o							Originally (in the MA) habitat creation was classified as a supporting service and therefore, at least, it might be better not to start a discussion on regulating services with the example of	
on the control photoler control could be critically. See reporting could be a control of the country of the cou	tax creation should be included. Nevertheless, the (continued) emphasis on nuceries seems strange. One could never abalast creation in terms of habitats for all section, or all tests those that people are warred, simply because most species are important to prospic understand that, following this lags, received to the provided of th								
effection probably into as so bits of species, or of each tool and produce week are all simply because motion and propose. Interferent Mar. General	es us back to all spocies, or at least time that people are sware of, imply because most spoces are important to people. I understand that, following this key, in too long to loved by the part of th								
definition probably takes who for all size experts of the first probable probable that the first probable proba	es us back to all spocies, or at least time that people are sware of, imply because most spoces are important to people. I understand that, following this key, in too long to loved by the part of th							species (the original intention, I think) or for species important to humans, as explicitly stated here, acknowledging the IPBES definition. However, taking the apparently narrower	
Section Coasing for the total agreed as judicious games and by choosing some offer professional passages. For examine, you might include his built for head tradition on particular to the control of the common of	are too long to would suggest a) acknowledging the broader definition and b) chosing some other didditional examples. For example, you might include habitats use deemed and profilinators. The late example would ink well to the not section on pollinators, Indeed, that section does not acknowledge the fact beneficially and the profile of the profile o								
that pollutions are dependent on particular habitatic conditions. Application App	omedian on particular habitat conditions. Chapter 1 - overview of classification? Chapter 3 - overview of classification? Chapter 4 - overview of classification? Chapter 3 - overview of classification? All section has been completely re-written and focuses on different issues all gaplic materials improved in the final version all data on values from all section has been moved to section 2.3.5. Because it is not a measure of the status and trend of InCP capacity and cells gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the final version as a gaplic materials improved in the								
Allow Wort 0.7 19 22	Chapter 1 - overview of classification? Chapter 1 - overview of classification? Chapter 2 - overview of classification? Chapter 3 - overview of classification? Chapter 4 - overview of classificatio							for hunted species, natural enemies of pests and/or pollinators. The last example would link well to the next section on pollinators. Indeed, that section does not acknowledge the fact	
There has been an engage discussion in New york or years on specing the Lichton are for petrolem activity, which may be relevant to this section. The Colores are as a spawing and with the schedill special post of years or year	cell color and section in Norway for years on opening the Loflother area for petroleum activity, which may be relevant for this section. The Loflother area is a spawning and earl commercially important species (including od and herring), but expected rich in petroleum. The political parties are split relative to opening for petroleum, the including and suggest it is an addition to the authors of Section 2.3.5. Because it is not a measure of the status and rend of NCP capacity and section 2.2.1 and potentially overlaps with information covered in Section 2.3.5. Section 8.2.5. Section 8							that pollinators are dependent on particular habitat conditions.	
There has been an engage discussion in New york or years on specing the Lichton are for petrolem activity, which may be relevant to this section. The Colores are as a spawing and with the schedill special post of years or year	cell color and section in Norway for years on opening the Loflother area for petroleum activity, which may be relevant for this section. The Loflother area is a spawning and earl commercially important species (including od and herring), but expected rich in petroleum. The political parties are split relative to opening for petroleum, the including and suggest it is an addition to the authors of Section 2.3.5. Because it is not a measure of the status and rend of NCP capacity and section 2.2.1 and potentially overlaps with information covered in Section 2.3.5. Section 8.2.5. Section 8								
More Sear-Mayoritams (3,2 1,3 32) 1,3 32 (3,3	this section has been completely re-written and flocuses on different issues all applicementarially improved in the final version (his part has been rewritten in the final version). The political parties are split relative to opening for petroleum, this section has been completely re-written and flocuses on different issues all applicementarials improved in the final version (his part has been rewritten in the final version). Why a value of commercial landings' and suggest it as an addition to the authors of Section 2.3.5. Because it is not a measure of the status and trend of NCP capacity are in Section 12.4 and potentially overlaps with information covered in Section 2.3.5. Valuing NCP. Moreover, other value types (health, diversity & options, in part has been moved to section 2.3.5. Section 12.4.5. Because it is not a measure of the status and trend of NCP capacity and in the section which which is section in the section has been rewritten in the final version of the section has been rewritten in the final version of the section has been rewritten in the final version of the section has been rewritten in the final version of the section has been rewritten in the final version of the section has been rewritten in the final version of the section has been rewritten in the final version of the section has been rewritten in the final version of the section has been rewritten in the final version of the section has been rewritten in the final version of the section has been rewritten in the final version of the section has been rewritten in the final version of the section has been rewritten in the final version of the section has been rewritten in the final version of the final version of the section of the final version of the section of the final version of the final version of the final version of the final version of the section of the final version of the final v	Allan Watt	Ch.2	13	322				Chapter 1 - overview of classification?
Mark Serims Management Ch.2 14 54 54 54 54 54 54 54 54 54 54 54 54 54	ties is to keep it doleded shows a second moderate in the final version pixtems* shows you will be a formation in the final version of the part has been completely re-written and floxaces on different issues all graphic materials improved in the final version of this part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the RCP. all data or values from all sections have been moved to section 2.3.5 (valuing RCP). Moreover, other value types (peath, diversity & options, and addition to the authors of Section 2.3.5 (valuing RCP). Moreover, other value types (peath, diversity & options, and the part has been rewritten in the final version of section 1.2.4 (value) and the part of the RCP. all data or values from all sections have been moved to section 2.3.5 and data or values from all sections have been moved to section 2.3.5 and all graphic materials improved in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been rewritten in the final version of the part has been added in its reference was bothed and an value								
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CEA VAILAN SILAND TOTAL 15 35 35 35 35 35 35 35	ext in Section 2.2 and potentially overlaps with information covered in Section 2.3.5 (Valking RVP). Moreover, other value types (health, diversity & options, ingrefered to in this section in the section as the section share been moved to section 2.3.5 this section has been rewritten in the final version of this section has been rewritten in the final version of this section has been rewritten in the final version of this section has been rewritten in the final version of this section has been rewritten in the final version of this section has been rewritten in the final version of this section has been rewritten in the final version of this section has been rewritten in the final version of this section has been rewritten in the final version of this section share that the final version of this section has been rewritten in the final version of this section share that the final version of this section share that the final version of this section in the section of the final version of this section in the section of the final version of this section in the section of the final version of this section in the section of the final version of this section in the section of the final version of this section in the section of the final version of this section in the section of the final version of the final version of this section in the section of the final version of the final		Ch.2						
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Germany Cin.2 10 402 22 33/ Flease Telet to the index assessment on pointiation, pointiations and room seturity Done	St assessment on pollination, pollinators and food security Done	Germany	Ch.2	18	462	22	557	Please refer to the IPBES assessment on pollination, pollinators and food security	Done
	We could not address seed dispersion because lack of expertise and time								
	constrains. However, as the IPBES NCP classification recognizes, it exits the								
	possibility to split one type of NCP into its components, e.g. for this	ECA values lisians						a the IDDES NCD describes the NCD includes and discovered of condenses and at the control of the	
ECA values liaison In the IPBES NCP classification, this NCP includes 'and dispersal of seeds and other propagules'. Please explain that this has not been reviewed, and the reason for not including seed particular NCP, one can focus on pollination or on seed dispersal. Consider to account for this in Table 2.1 (line 289-290) as well.			Ch 2	10	463				
			Ch.2	18	462	19	477	Unspersar. Consider to account for this in Fable 2.1 (line 269-259) as wen. Shouldn't there be a reference to the IBPS report on pollination? That should be state-of-the-art in the issue.	

	1				1		In the state of th
Germany	Ch 2	18	465	18	160	"western honey hee"	Because the re-phrasing done from the SOD to the final version, this wording is not used in the final document
Germany	Ch.2	19	403	19		western noney use where the state of western the state of the stat	We indeed tried to emphasize this
ECA values liaison	CII.Z	15	470	13	4/2	Please remove overlapping statements out values and good quality of life. Polisinators etc. contribute to other NCPs and to aspects of good quality of life, and these must be mentioned	we indeed thed to emphasize this
group	Ch.2	19	478	19	483	separately.	Done
							Due to the required reduction in wording, this setence is not anymore in the
Germany	Ch.2	19	486	19	487	the loss of bees, butterflies is also true in Netherlands and UK? And is there a loss of biotic homogenisation?	document
Mark Snethlage	Ch.2	19	486			Holland = The Netherlands	Due to the required reduction in wording, this setence is not anymore in the
							document
UNEP-WCMC: The						Excellent use of these data; very important to retain.	
Biodiversity Indicators Partnership (BIP)	Ch 2	10	490	19	495		Many thanks
Thomas Brooks	Ch.2	19	490	19		Excellent use of these data; very important to retain.	Many thanks
THOMAS BIOOKS	CILL	13	430		, ,,,,,,	executive de	Due to the required reduction in wording, this setence is not anymore in the
PESC-4: Kristina Raab	Ch.2	20	512	20	512	New world context vs. Mother earth context => what is meant with New world? Western world?	document
							the relaince on insects due to delines in bees is ntoed. This issue is discussed
Ilja Gasan Osojnik						In addition, many agricultural food plants cannot be pollinated efficiently by honey bees. Furthermore, open trafic with commercially bred bumble bees (e.g. <u>B. terrestris</u>) may cause exctinction of locally adapted subspecies, as well as higher dissemniation of bacterial and viral disesses amongst various species of insects, in particularly pollinators.	in the in the pollination assessment. It is not discussed here due to lack of
Črnivec	Ch.2	20	513		524	excinction of locally adapted subspecies, as well as higher dissemination of bacterial and viral disesses amongst various species of insects, in particularly pollinators.	space
				1		This map of pollination services is relevant as well at EU level , it is basically based on Lonsdorf et al, and it provides both an assessment of capacity and of demand (and deficit). Zulian,	
						G., Maes, J., Paracchini, M.L., 2013. Linking land cover data and crop yields for mapping and assessment of pollination services in Europe. Land 2, 472-492.	Many thanks for the information, but the main author of this section
Graciela Rusch	Ch.2	21	533	21	533		decided to keep the original one as both present redudndant information
						Please remove this whole section which refers to economic and monetary value, and transfer it to Section 2.3.5. Because it is not a measure of the status and trend of NCP capacity or	
						use, it is out of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value types (health, diversity & options, security etc.) are not	
ECA values liaison	cl. a	24	525	24		being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of importance of the NCP. Finally, the valuation method is not	0
group	Ch.2	21	535	21	545	consistently mentioned.	Done
							The information of monetary values has moved to other section that
UK: David Forrow	Ch.2	21	544			Reference not in usual format	focuses on this aspect. We avoid also this way of presenting the information
Ilia Gasan Osoinik	CITE		511			Revise sentence (esp. The beginning of ine 551). Cosider of "direct calorific value" is necessary in this context, or if "calorific value" would suffice, or it can be even simply written "high	We review this paragraph according to all the changes suggested in this
Črnivec	Ch.2	21	550		551	energy content".	section by reviewers. Now it reads differently.
							We decide to keep it here because in current narrative of health seciton it
						Please remove and suggest it as an addition to the authors of Section 2.3.2 on Health. Because it is not a measure of the status and trend of NCP capacity or use, it is out of context in	does not fit and because the health section was the one precisely that
ECA values liaison						Section 2.2 and potentially overlaps with information covered in Section 2.3.2. Moreover, other value types (economic value, diversity & options, security etc.) are not or no longer being	
group	Ch.2	21	550	21	553	referred to in this section either, for the sake of consistency.	to the enw section on values.
Finnish Government	Ch.2	22	558	24	ı	The word "regulation" is associated to human-made control, which is not the case when considering the role of forests in the air quality. Better option could be e.g. "impact".	The text has changed so "regulation" is not used in this contect.
UK: David Forrow	Ch.2	22	562			Reference not in usual format	Corrected
Finnish Government	Ch.2	22	563	22		PM2.5: define	Done
Finnish Government	Ch.2	22	564	22		after 17000: ", respectively,"	Text was deleted in the revision
Finnish Government	Ch.2	22	564	22	564	why "while"?	"while" as this was in contrast to the previous clause
						Air pollution also has chronic effects on health such as lung cancer, cardiovascular diseases, decreased lung function and respiratory infections in children, low birth weight -See in:	
Health Review: Julie	ct. a	22	566	22		Queenan, K, Garnier, J, Nielsen, L, Buttigieg, S, de meneghi, D, Holmberg, M, Zinsstag, J, Ruegg, S, Hassler, B and kock, R (2017). Roadmap to One health Agenda. CAB Reviews.	The above This art are been been included
Garnier Finnish Government	Ch.2	22 22	566 568	22		http://www.cabi.org/cabreviews/review/20173134856 difficult sentence and wording	Thank you. This reference has been included Wording changed
Graciela Rusch	Ch.2	22	570	22		omrour sentence and wording NH4 is the formula for Ammonium, not for methane.	methane isnow just given in full
Finnish Government	Ch.2	22	570	22		NH 4 to the formula for Ammonium, not for metnane. Joilutants Should be precurency to pollutants	Can be sources or precursors
Finnish Government	Ch.2	22	570	22		ponutarits snown be precursors to ponutarits in the end of the sentence that are involved in the photochemical formation of O3.	added phrase
riiiiisii Goveriiiieiit	CII.Z	22	370	22	3/0	in the end of the sentence that are involved in the photochemical formation of Os.	added piliase
							Done - The total net benefit of vegetation in cities can be small relative to
							total emissions, for example, urban forests in Barcelona in 2008 removed
							305.6t of air pollutants and 19,036 t CO2eq, representing 2.66 % of PM10,
						The presented numbers should be put in perspective so that the reader could understand their significance. Pure numbers do not tell much for a non-expert. Are these processes	0.43 % of NO2, and 0.47 % of CO2eg of emissions, but locally the amount
Finnish Government	Ch.2	22	571	22	582	significant for the air quality?	removed can be very important (Baró et al., 2014).
							, , , , , , , , , , , , , , , , , , , ,
				1		Ref: 9. Baró F, Chaparro L, Gómez-Baggethun E, Langemeyer J, Nowak DJ, Terradas J (2014): Assessing ecosystem services provided by urban forests in relation to air quality and climate	
Johannes Langemeyer	Ch.2	22	574	1		change mitigation policies in Barcelona, Spain. AMBIO, 43:466–479. DOI 10.1007/s13280-014-0507-x http://link.springer.com/article/10.1007/s13280-014-0507-x	Added
Finnish Government	Ch.2	22	575	22		highest of all possible tree species?	Clarified as "Highest of European urban tree species"
Finnish Government	Ch.2	22	577	22	577	in which time period these deposition rates were observed? Was it seasonal?	This has been clarified
						Please remove this sentence which refers to monetary value and suggest it as an addition to the authors of Section 2.3.5. Because it is not a measure of the status and trend of NCP	
				1		capacity or use, it is out of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value types (health, diversity & options, security	
ECA values liaison						etc.) are not being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of importance of the NCP. Finally, the valuation	
group	Ch.2	22	580	22	582	method is not always clearly mentioned.	Removed as requested
				1			Thank you for the question. I think that "however" is appropriate here to
				1			show that other factors need to taken into consideration when looking at
Finnish Government	Ch.2	22	583	22	593	Why to start with "however"? In the previous chapter, different compounds and tree species were compared. This chapter compares ecosystems.	these figures
				1			vertical was used as this was how it was reported in the paper. Mean is used
Finnish Government	Ch.2	22	586	22	586	"vertical" and "mean" not needed	to show that this is a mean not a maximum value.
						Remove the end of the sentence ", which might be partly due to the short". Although the original article has speculations on reasons, such argumentation makes all modelling results	
Finnish Government	Ch.2	22	591	22	592	sound unreliable.	Removed as requested

						Training and the state of the s	T
						Emission removal is not only small in Nothern areas, the same counts for Barcelona, Spain (Baró, et al., 2014). We concluded that, apart for PM10, nature-based solution are inappropriate to cope with high levels of emissions especially in cities. To the contrary only a reduction of emission sources can improve air quality in cities. A statement on this limited	A statement about the limited capacity of trees in urban areas has been
Johannes Langemeyer	Ch 2	22	593	24	612	inappropriate to cupe with high levels of emissions especially in clues. To the contrary only a reduction of emission sources can improve an quality in clues. A statement on this limited capacity of ES is missing in the text.	included.
Johannes Langemeyer	CII.2	22	293	24	012	Capacity of es is missing in the text.	Sentence add "This is due to the higher level of pollutant capture by these
Finnish Government	Ch.2	22	594	23	597	Please explain what is the reason for this difference	ecosystems."
THINISH GOVERNMENT	CITIZ		334	- 23	33,	ricode explain what is the reason for this directione	It is the rate of deposition of particles and gases (in this case) on vegetation.
							I think here the imprtant thing is what is used for i.e measure of vegetation
Finnish Government	Ch.2	22	595	22	595	"dry deposition velocity which depends on". Here, define shortly the dry deposition velocity.	removal capacity
							I think that this is explained by the fact already stated (but made clearer in
							repsonse to another comment) that forests capture more than other
							vegetation types, yet in " in Flanders the heaths capture more than forests,
Finnish Government	Ch.2	23	597	23	600	why?	as they are closer to the emission sources."
Finnish Government	Ch.2	23	600	23	602	There exists no forest which could be able to absorb all the toxic gases!	Agree.
						*	This may be a function of the modelling approach used, but this was the
Finnish Government	Ch.2	23	603	23	604	The NOx deposition rates in the figure appear far too high	best information that could be found.
Finnish Government	Ch.2	23	611	23	611	abandonement of what?	changed to land abandonment
							This section has been re-written and refers to gases which affect air quality
Finnish Government	Ch.2	24	617	24		CH4 and N2O are not "polluting gases". CH4 is a precursor for O3, and N2O reacts only in stratosphere	and identifies CH4 as a precursor of O3
Nadine Goris	Ch.2	24	629	24	629	should be "LULUCF (land use, land use change and forestry)"	done
						This chapter is loose. First it refers to UNFCCC reporting (reference should be given!), stating that there is net GHG uptake in Europe. Next it refers to a single paper which shows opposite	Thank you for this comment. The section has been reorganised to provide a
						results, with a neutral balance when forests, grasslands, croplands and wetlands are accounted for. This difference should be explained and discussed. Last, Turkey is explained as a single	better structure and a more consistent content. The reference to Turkey has
Finnish Government	Ch.2	24	629	24		country, even though it is not stated how significant Turkey is as compared to the rest of Europe.	been deleted.
Nadine Goris	Ch.2	24	631	24	631	there is a comma missing after "Eastern Europe"	OK thanks
							The figure showing information by country has been deleted, according to
							TSU recommendaiton to prioritize figures at the sub-region level. The
						This text refers to Fig. 2.12, in which Finland is the only country with a change from a sink to a source, so presumably the text refers to Finland. The information in 2.12 must be wrong.	nfirmaiton regarding Finland was extracted from UNFCCC website at
						According to Statistics Finland (http://www.stat.fi/til/khki/2015/khki_2015_2016-12-07_tie_001_en.html) the GHG emissions from land use sector have been decreasing. Also, there has	
Finnish Government	Ch.2	25	641	25	645	not been significant drainage or loss of wetlands in 1992-2014 in Finland.	php?priref=600008730
Finnish Government	Ch.2	25	646	25	650	Why are the net removals of Kazakhstan and Uzbekistan treated in detail here? Perhaps some justification would be needed?	We deleted this sentence and refered to a study for the whole Central Asia
Johannes Langemeyer	Ch.2	25	657	24	662	Contradicting sentences.	These sentences have been deleted in order to condense the text
						Again, discussion related to Finland is fully misleading, since the Fig 2.12 show wrong information. Futhermore, wetland emissions are not reported under land use and land use change	We deleted this graph both to condense the chapter and prioritize region
Finnish Government	Ch.2	25	657	25	665	sector.	and sub-region information rather than country scale information
							Wetland data were found in UNFCCC at
							http://unfccc.int/documentation/documents/advanced_search/items/6911.
							php?priref=600008730. Text has been altered to "but given the decrease in
						This is very uncertain and should be stated as such. Consider, some countries in Europe (e.g. Sweden, Estonia) show a net increases in peatlands. Climate change might enahnce methane	wetlands area in many parts of Europe " and also the wording for the future
Johannes Langemeyer	Ch.2	25	660	25	665	emissions but also enhance peatland growth (as recently observed in parts of the antarctic).	does indicate some uncertainty.
						Referring to a figure which shows carbon storage, when discussing about GHG fluxes, is misleading. The size of the storage and the flux rate do not typically correlate. Thus a large C store	
Finnish Government	Ch.2	25	660	25	660	in peat does not have to mean high emission.	We agree and tried to clarify the text
Graciela Rusch	Ch.2	25	663	25	663	In boreal forests, underground carbon storage is larger than aboveground storage. And more carbon is stored in the soil than in the vegetation.	A statement has been added on this.
UK: David Forrow	Ch.2	26	666			lable graph axis	This will done in the final figure production
							We deleted this graph both to condense the chapter and prioritize region
Finnish Government	Ch.2	26	666	26	670	The information in this figure, related to Finland, is wrong. See a comment from page 25, line 641 to page 25, line 645 above. The stats for other countries were not checked.	and sub-region information / country scale information
UK: David Forrow	Ch.2	26	667			label graph axis	done
UK: David Forrow	Ch.2	26	668			label graph axis	done
Î							
		1		l	l		The main trend for cropland soils is indeed a loss of carbon (with local
						The statement about cropland is in agreement about the general understanding that agricultural practices tend to accelerate organic matter mineralization in the soil, leading to loss of	heterogeneity). This is consistent with figure 2.11 which shows emissions of
					l	carbon stocks. But this seems to be in desagreement with Figure 2.11. It would be good to explain the reason for the high levels of CO2 sequestration in cropland in the graphs. (or is this	CO2 from cropland (loss of carbon from soils). However, the surface area of
Graciela Rusch	Ch.2	26	671	26	671	due to abandoment? It would be good to explain this together with the graphs.	cropland has been decreasing in ECA (land abandonment, afforestation).
		1				* * * * * * * * * * * * * * * * * * * *	A heading has not been added but it hase been made clear that this NCP
					l		section focuses on carbon sequestration and storage and microclimate
Graciela Rusch	Ch.2	27	694	27	694	Separate with a subtitle 'microclimate regulation' from carbon sequestration and storage. These is a different ES with particular characteristics.	regulation
	Ch.2	28	703	28		Figure 2.15: unreadable due to too small font and out of focus	A better quality figure will be provided
	Ch.2	28	703		. 33	What are the two separate maps? No labelling	Labelled now
		ı İ					
		1		l	l		Data that could be obtained through national and UN based reports has
					l	the lack of the information about Asia, it seems necessary to add the data on CA	been considered, as well as AQUASTAT / FAO data. Data for water
				l	l	,,,,,	availability could be found for almost the entire ECA region. The challenge of
Hanna Skryhan	Ch.2	28	718	30	797		data shortage for CA has highlighted extensively in section 2.5.
oktyron		20	,10	30			
					l		Information on morphological changes lies beyond the scope of Chapter 2,
					l		as this chapter deals with trends in NCPs and GQOL. However, morphology
1	Ch.2	28	718	30	707	Add information on morphological changes, because hydrological (quantity, flow and timing) and morphological changes often have common impact.	as an underpinning characteristic has been made.
Finnish Government							

		1					
							This section explicitly deals with trends in the freshwater NCP. Relations
							between this NCP and other NCPs are partly covered in the water security
							section (2.3.1), as well as Section 2.4 However, please note that relations
							with other NCPs have not been covered in any other NCP section, as this
PESC-4: Kristina Raab	Ch.2	28	719	30	797	section 2.2.1.5: lack of information how NCPs are linked with freshwater	was beyond the scope of our assessment.
							Thank you for this comment. Suggestion to refer to water flow regulation
						More correct to use 'water flow regulation' than 'water regulation' or otherwise, indicate 'regulation of what'. This seems to refer to regulation of water availability of human use? Flow	has been incorporated, and the consequences of terminology have been
Graciela Rusch	Ch.2	28	725	28	725	regulation is usually related to buffering of peaks, and flood control.	considered.
Graciela Rusch	Ch.2	28	755	20	755	I do not understand what is meant by 'water regulation linked to human use has increased over the past decades'	This particular sentence has been deleted, and the paragraph has been updated and improved
PESC-4: Bakhtiyor	CII.Z	28	733	20	/33	Tuo not understanti what is meant by water regulation linked to numan use has increased over the past decades	apuateu anu improveu
Karimov	Ch.2	29	733	29	736	figure 2.16: can Europe and Central Asia be differentiated?	This has now been done, thanks for the suggestion.
Johannes Langemeyer	Ch.2	30	765	30	767	Unicear relation between sentences.	This has been improved
Johannes Langemeyer	Ch.2	30	765	30	767	Unicear relation between sentences.	This has been improved
Constate Books	Ch 2	20	7.00	20	7.00		This distinction has been further clarified, and the section has been restructured to further clarify it.
Graciela Rusch	Cn.2	30	765	30	765	Is water provision the same as water regulation? The use of 'water regulation is unclear. This sentence is not clear. Please revise. Also, pls explain the role of Wester European countries for water availability in Central Europe more clearly. As it stands now, it seems rather	This sentence has been revised. Any wording that could be observed as
Germany	Ch.2	30	769	30	769	ing senting in clear in least tense. Also, pis explain the role of wester conjugate and water availability in central curious more clearly. As it stands now, it seems taken	judgement has been removed
Germany	CITIZ	30	703	50	,,,,	Hander the Control of	Thank you for noting this. Another reviewer also pointed this out. It should
Graciela Rusch	Ch.2	30	769	30	769	much 'higher' or 'lower' than in Central Europ?	be 'higher' and this has been corrected.
Mark Snethlage	Ch.2	30	769			Incomplete sentence: Average water extraction is much [?] than in Central Europe, which is mainly due to high water extraction by France, Germany and Spain (Eurostat, 2016).	Thank you for noting this. Another reviewer also pointed this out. It should
							be 'higher' and this has been corrected.
Mark Snethlage	Ch.2	30	774			Dunabe = Danube	Done, thanks for noting this mistake
Mark Snethlage	Ch.2	30	791			Incomplete sentence: Water extraction in the Kyrgyz Republic has decreased (SAEPF et al., 2012), although recent trends are more ?????? (National Statistical Committee of the Kyrgyz Republic, 2016).	
		+			-	Republic, 2016).	This should be mixed, thanks for noting the mistake. Yes, the section is now named as "2.2.1.7Regulation of freshwater and
FCA values liaison						Section 2.2.1.6 perhaps requires some renaming. This NCP category should have the term 'water quality' in it, so it should be updated to Regulation of freshwater and coastal water	coastal quality" (section number have changed) . Changes in Table 2.1 will
group	Ch.2	30	798			Jeality, Please repeat this throughout section 2.2.1.6 and consider to account for this in Table 2.1 (line 289-290) as well.	be made to be consistent with this NCP name.
8.449							References about thsi NCP in CA is still very por, so that this gap of
Hanna Skryhan	Ch.2	30	798	36	1025	the lack of the information about Asia, it seems necessary to add the data on CA	knowledge is now indicated in the NCP section.
						suggest to include these explanations about what the services are, are included in the first-page summary. Together with a clear distintion of the assessment criteria/indicators	
Graciela Rusch	Ch.2	30	799	30	799	biophysical structures and functions), the use and the values attached, would make the summary messages easier to understand and the messages easier to get through.	This is addressed in table 2.1
Finnish Government	Ch 2	30	799	35	1021	More information about the impact of priority substances to freshwaters might improve the content of chapter	Priority substances that by be retained by this service have been listed in the introduction of this NCP section
rinnish Government	CII.2	30	/99	33	1031	more information about the impact of priority substances to reshwaters might improve the content of chapter	This section was completly revised so that this sentence does not exist any
Graciela Rusch	Ch.2	30	803	30	803	Replace 'ecological' by 'biological'?	more . Thanks anyway
						This paragraph notes 'processes in rivers and wetlands' and 'emission of pollutants into surface and groundwater' but there is much biogeochemical processing and retention in the catchment draining to the rivers and groundwater. Perhaps edit text to describe river catchments rather than rivers alone?	Yes, the biophysical system that support this NCP will be extended to the
Andrew Wade	Ch.2	30	803	31	808	determinent diaming to the inters and groundwater. I emply duit text to determine the relationship to the inters and groundwater.	river catchment with surface and groundwater in the next section version
	Ch 2						This section was completly revised and the terms "biophysical system" will
Graciela Rusch Graciela Rusch	Ch.2	31	807 811	31 31		Consider using 'biophysical' system in this case. It is unclear here what 'annually renewable NCP' means here. What do you wish to point out, and in relation to what is not 'annually renewable'?	be used further on This text annually renewable is not found in the SOD version , sorry
Graciela Ruscii	CII.Z	31	011	31	011	Please remove this sentence which refers to monetary value and suggest it as an addition to the authors of Section 2.3.5. Because it is not a measure of the status and trend of NCP	This text aimually renewable is not found in the 300 version , sorry
						capacity or use, it is out of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value types (health, diversity & options, security	
ECA values liaison						etc.) are not being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of importance of the NCP. Finally, the valuation	
group	Ch.2	31	813	31	815	method is not always clearly mentioned.	Monetary values have been removed of this section
						These studies may be relevant to refer to: Barton, D.N., Andersen, T., Bergland, O., Engebretsen, A., Moe, S.J., Orderud, G.I., Tominga, K., Romstad, E., Vogt, R.D., 2016. Eutropia –	
						integrated valuation of lake eutrophication abatement decisions using a Bayesian belief network in: Niel, Z.P. (Ed.), Handbook of Applied Systems Science. Routledge, New York and London, and Barton, D.N., Saloranta, T., Moe, S.J., Eggestad, H.O., Kuikka, S., 2008, Bayesian belief networks as a meta-modelling tool in integrated river basin	Thoule for this supportion House of the reading those 2 rafe than are
						London. and Barton, D.N., Saloranta, T., Moe, S.J., Eggestad, H.O., Kuikka, S., 2008. Bayesian belief networks as a meta-modelling tool in integrated river basin management - Pros and cons in evaluating nutrient abatement decisions under uncertainty in a Norwegian river basin. Ecological Economics 66, 91-104.	Thanks for this suggestion. However after reading those 2 refs they are mostly focusing on the method via bayesiam models to give evidence of
						interingenient - Fros and Cons in evaluating nutrient abatement decisions under uncertainty in a Not wegian river basin. Ecological Economics 80, 51-104.	farmers practice effects. The trends of the natural services are not described
Graciela Rusch	Ch.2	31	833	31	834	.	as a results so thoses papers could not be selected as part of this assessment
Johannes Langemeyer	Ch.2	31	835	32	854	Unclear why this discussion on indicators is relevant for the chapter.	Indicator discussion have been moved to the indicators section
1					l	That is why the connection between the capacity of the natural system to generate the ES and the actual outcome (level of benefit) needs to be considered together. And that the	
Graciela Rusch	Ch.2	31	840	31	0.40	resulting water quality is not 'clean' can simply mean that the capacity of the system to absorbe pollution levels has been overrun, and that water quality would be worse, if the filtering capacity would not be there.	Yes , I agree with this statement. The section have been completely rewritten. (and shortened) so that this message is now included in.
Mark Snethlage	Ch.2 Ch.2	31	840 840	31	842	capacity would not be there. "Therefore, indicators that quantify the purification capacity of the water do not say anything per se about the remaining water quality and vice versa." Remaining = resulting?	Yes , I agree with this statement. Indicator of this NCP delivery are
Iviaik Siletiliage	CILE	31	640	l	l	The colors, makesors and quantity the painted to he water do not say anything per se about the remaining water quanty and vice versa. Refinding a resulting	quantifying the capacity to remove pollutant of the water. However, the
1					1		water quality results of the adverse effect of this self purification and the
		<u> </u>		<u> </u>	<u> </u>		quantity of pollutant that arrive in the water
							This NCP indicators are including: indicator of delivery (pollutant removial
1					1		capacity) and those are at the source of the negative trends described over
L				_	l _	It is unclear which kind of 'indicator' is not listed below. Why focus only on the 'demand' indicators only. Could one think that the capacity of the natural system could be enhanced?	the ECA. The demand indicator are included, in agreement with litterature
Graciela Rusch Nadine Goris	Ch.2 Ch.2	31 32	842 849	31 32		Maybe be with a larger catchment area? And, water quality says nothing about what the quality would have been if the natural filtration would not have been there.	as water quality. Yes this is now corrected
Graciela Rusch	Ch.2	32	849 859	32		Induction Dec William Would it be possible to indicate which are the main reasons that are affecting the decline of capacity?	Yes, the reasons of declined are now explained
Gradicia Nascri		32	033	32	033	Trouble is de possible to mandre in the ment reasons that are arresting the decime or capacity:	res, the reasons of declined are now explained

Graciela Rusch	Ch.2	32	860	32	875	Could these facts be represented in the form of a table?	This section was completly revised and shorten so that this information was removed due to lack of available space
						River systems draining farmland and urban areas with a major groundwater component are projected to take a long time (100s of years) to recover from past pollutant inputs and this may confound current and future attempts to improve water quality. For example, a model-based assessment of the River Lambourn demonstrated that it would take at least 100 years for the stream water nitrate concentrations to return to 1920 levels even if nitrogen inputs were reduced to zero. More details are given in - Jackson et al. 2007. Catchment-scale modelling of flow and nutrient transport in the Chalk unsaturated zone. Ecological Modelling 209, 41-52.	Thank you very much for this additionnal information, however for space concern we were forced to limit the assessment to references that focus on
Andrew Wade	Ch.2	32	860	32	875	In the discussion about phosphorus , perhaps include the paper - Powers et al., 2016. Long-term accumulation and transport of anthropogenic phosphorus in three river basins. Nature	direct NCP stutus and trends Thanks but we need to be very selective in the choice of papers that only
Andrew Wade	Ch.2	32	868	32	875	Geoscience 9, 353-356. The paper describes how phosphorus, over long time scales, can become remobilised.	describe status and trends of natural services and benefits This section was completly revised and shorten and attention was paid to
Graciela Rusch	Ch.2	32	870	32	870	increase in P concentrations in water'	mention P in the water, specially coastal waters This section was rewritten so that the relation between NCR Delivery and
Graciela Rusch Mark Snethlage	Ch.2 Ch.2	32 32	872 878	32	872	The relationship between the loads (release/retention) and the limitation to primary production do not follow from each other in a direct way. Please explain what this refers to. "Over 60 % of European wetlands were lost before the 1990s and approximately two thirds of all European wetlands existing at the beginning of the 20th century were lost by 1995."-	water quality shoudl be more understandable now
						Odd juxtaposition of two rather similar data facts	Yes we made this information more straightforward Yes , The directives that was able to improve water quality are now
Graciela Rusch	Ch.2	32	885	32	887	It is mportant to hightlight that conservation /protection measures have worked and indicate which ones!	mentionned , like European directives Yes we not any more mentionned the wetland inventories with different
Johannes Langemeyer	Ch.2	32	888	32	890	Some countries, such as Estonia, do have national inventories of wetlands (in Germany this information is collected by specific regions, e.g. Niedersachsen)	progress depending on the countries, but Estonia is cited as an example for restoration of riparian zones as cost effective measures for water quality improvement
Graciela Rusch	Ch.2	33	897	33		Avoid repetition, this paragraph comes back to what was said before. Summarize facts in a table and shorten text. Simlar comment to next paragraphs.	This section was completly revised and shorten also that redondancies were avoided
ECA values liaison group	Ch 2	22	912	- 33	337	Explain what high-value habitats are. Is it biodiversity rich?	We mentionned wetlands and rivers floodplains and coastal area as major contributors to this NCP delivery
Graciela Rusch	Ch.2	34	974	34	977	Explain what high-value habitate. In the Update Individual to 1970 The lags state apartity to privide this NCP The last statement has an unclear connection.	This section was completly revised and rewriten
Nadine Goris	Ch.2	35	977	35		numbers should be superscripts, also the reference is missing	Yes this was appliyed
Graciela Rusch	Ch.2	35	979	34	985	Here the same idea presented earlier about suitable indicators comes back. I cannot see that water quality alone can be a sufficiently informative indicator of what is the contribution of natural/biophysical systems to provide water cleaning services. Please distinguish capacity from outcome, and address that outcome alone cannot inform about the amount of pollutants that have already been removed. A single indicator disregarding the different components of ES (that you refer to at the start), cannot be a sufficient indicator of ES generation.	Yes, I completelly agree water quality is not in indicator of this NCP delivery and brings ambiguity in this section. We tryed to make it more clear in the next version but ther was a request from other sides to keep water quality inclued in the indicator list as a demand indicator
Andrew Wade	Ch.2	35	987	35		It might be clearer to say 'improved wastewater treatment' rather than 'water purification' - I'm not sure final effluent can be described as pure water.	This section was completly revised and rewriten
Nadine Goris	Ch.2	35	1002	35	1002	Reference is missing	Reference is now included in the list of references fro this NCP
Andrew Wade	Ch.2	35	1013	35	1013	May also be appropriate to note that climate change may have a confounding influence on the mitigation measures used to reduce water pollution. Reviews of the impacts of climate change on water quality include: Whitehead et al. 2009. A review of the potential impacts of climate change on surface water quality. Hydrological Sciences-Journal-des Sciences Hydrologiques 54(1); Watts et al. 2015. Climate change and water in the UK - past changes and future prospers. Progress in Physical Geography 39(1) 6-28; Arnell et al., 2015. The implications of climate change for the water environment in England. Progress in Physical Geography 39(1), 93-120.	The effects of CC on the service delivery shoudl be incuded in the drivers chapter
ECA values liaison group	Ch.2	35	1014			In the IPBES NCP classification, this NCP includes 'and sediments'. If possible, then please use that name as title of this section. If not possible, then please explain that this has not been reviewed, and the reason for not including it. Consider to account for this in Table 2.1 (line 289-290) as well.	We found very little references to ecosystem services provides by sediments (see Wall et al. 2004). Their contribution to freshwater quality is covered in section 2.2.1.4.
Allan Watt	Ch.2	35	1015			Doesn't make sense: see (very clear) introductions to other NCPs on lines 719 and 799. Also this introduction to the soil sub-sections is rather narrow and does not introduce the reader to the important topics that follow, which, essentially, cover the importance of soil for the production of crops - the loss of soil through erosion and soil fertility.	This section was restructured and partly re-writen
Johannes Langemeyer	Ch.2	36	1021			Misplaced information.	This section has ben restructured
Mark Rounsevell	Ch.2	36	1026	36	1026	There's quite a lot of background/contextual text in this section that could be reduced.	This section was reduced
Mark Snethlage	Ch.2	36	1026			possible additional refs: Boardman, J., Poesen, J., & Wiley InterScience (Online service). (2006). Soil erosion in Europe. Wiley. Panagos, P., Meusburger, K., Ballabio, C., Borrelli, P., & Alewell, C. (2014). Soil erodibility in Europe: A high-resolution dataset based on LUCAS. Science of The Total Environment, 479, 189–200. http://doi.org/10.1016/j.scitotenv.2014.02.010	Thank you for the suggestions. References have been included
Hanna Skryhan	Ch.2	36	1042	36	1042	and what about CA? it seems necessary to add the data on CA	We revised this informaito trying to clarify for CA. References were added for CA.
							This paragraph was really shortened in order to condense the chapter and
Graciela Rusch The Netherlands:	Ch.2	36	1043	35	1059	Present these facts in a summary table?	to focus on NCP rather than on the state of land degradation in ECA The status of the capacity to protect against erosion. This has been
Astrid Hilgers	Ch.2	36	1043	36	1046	It is not clear which status is addressed here. The status of the need for erosion prevention, the amount of erosion, or the amount of the capacity to protect against erosion?	hopefully clarified.
The Netherlands: Astrid Hilgers	Ch.2	36	1046	36	1050	The focus here is on the relation to climate. This is not completely relevant; better to address more the relation with management, which expresses the human-induced erosion while the relation with climate merely addresses the relation with erosion as a geological, landscape forming process.	Most focus is given on the effect of management on erosion. However, forecasted climate changes have been demonstrated, by modelling (e.g. Jones 2009. See also section on futures.
Graciela Rusch	Ch.2	37	1062	37	1062	Difficult to see the contrasts, use more distinct colours. Fig 2:18	better versions of the figures will be used and some of them will be redrawn by TSU
Mark Snethlage	Ch.2	38	1068			Same map cut to the precise ECA region border: Soil Cover Factor data downlad: http://www.fao.org/nr/lada/gladis/gladis/downl.php Also see https://tinyurl.com/ECA-Maps for example	Thanks I
Graciela Rusch	Ch.2	39	1082	39	1085	Biological interactions (such as simbiotic fungi (michorryza) contribute importantly to water and nutrient uptake by plants.	Yes, biological contrbution to soil fetility was mentioned Soil fertility has been defined as an NCP (see IPBES conceptual framework).
PESC-4: Kristina Raab	Ch.2	39	1082	42	1131	chapter 2.2.1.7.2: what does soil fertility have to do with NCPs? In this section, there is more information on chemical/mineral components of soil than on biological aspects and the link to biodiversity and ecosystem services is not highlighted as needed	Soil retrility has been defined as an NCP (see IPBES conceptual framework). We changed to soil quality which is broader. Soil related NCP involve biological aspects but not only.

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PESC-4: Jonas Geschke	Ch.2	39	1082	42	1131	chapter 2.2.1.7.2: content is way too detailed (with all the chemicals) and could be synthetised further	This section has been condensed
PESC-4: Eva Spehn	Ch.2	39	1082	42	1131	chapter 2.2.1.7.2: content is way too detailed (with all the chemicals) and could be synthetised further	This section has been condensed
The Netherlands: Astrid Hilgers	Ch.2	40	1112	40	1113	If the soil organic carbon stock increases upon afforestation, it's not supporting food production anymore, while for the growth of timber the soil organic carbon stock is of lesser importance. Would advise to reconsider if this is really an NCP.	NCPs are not only focused on agricultural production but on the many contributions of nature to people. Soil organic carbon is a reasonable proxy for soil fertility (at least its variable components including those related to biological activity.
							better versions of the figures will be used and some of them will be redrawn
Nadine Goris Mark Snethlage	Ch.2	40	1116 1122	40	1116	Figure 2.22: unreadable due to too small font and out of focus suggestion to use a consistent clip mask (covering the entire ECA region, with consistent projection) for thematic layer extraction.	by TSU
Mark Snethage	Cn.2	41	1122			Suggestion to use a consistent city mass (covering title either Ect. region, with consistent projection) for thematic layer extraction. Data download: http://websrchive.iisas.ac.ac/4Research/LUC/External-World-soil-database/ Also see https://tinyurl.com/ECA-Maps for examples	Thanks for your work on this matter I LAs do not have the know-how to do it
Mark Snethlage	Ch.2	41	1126			map does not cover the entire ECA area (Central Asia is missing). Alternative might be Below Ground Carbon data download: http://www.fao.org/nr/lada/gladis/gladis/downl.php	·
						Also see https://tinyurl.com/ECA-Maps for example	Thanks for your work on this matter! We will see with technical support unit what can be doen to imprive maps provided.
Nadine Goris	Ch.2	42	1129	42	1129	Figure 2.25: partly unreadable due to too small font and out of focus	better versions of the figures have been used
Allan Watt	Ch.2	42	1132			Obviously incomplete and the draft does not address the issue of decontamination. Perhaps the loss of soil described here could be dealt with in the earlier section on soil erosion.	This section has been elaborated. However, given the necessity to strongly condense the text, no specific information was given on natural attenuation of contaminants by soils
						the paragraph should be complete by the information about soil contamination after the disaster at Chernobyl NPS in Belarus, Russia and Ukraine. I can summarize in half-page text this	
Hanna Skryhan	Ch.2	42	1132	42		data, if the authors will agree with my suggestion	Thnak you. There will be a box on Chernobyl elsewhere in the chapter.
Nadine Goris	Ch.2	42	1138	42	1138	Figure 2.26: unreadable due to too small font and out of focus	better versions of the figures have been used
Mark Rounsevell	Ch.2	42	1139		1139	The relevance of this figure to this section is not clear, and I can't see a cross-reference to the figure in the text. Delete?	This figure was referenced in the text. Urban sprawl is a major driver of ES and NCP changes in ECA, especially in Western Europe
						There's some scope to shorten the text in this section by focusing more on the NCP aspects rather than the broader contextual descriptions about infrastructure, socio-economics and	
Mark Rounsevell	Ch.2	43	1143		1143	governance issues.	This section was severelly shorten and rewritten
Allan Watt	Ch.2	43	1143	43	1167	This section should be framed in such a way that the NCP (or NCPs) are clearer. Perhaps start by writing "Natural hazards and extreme events may be mitigated by, for example, flood regulation, drought mitigation"	This section was reorganised and rewritten with focus on few hazards because of space constrains, mostly floods and droughts
PESC-4: Kristina Raab	Ch.2	43	1144	43	1167	chapter 2.2.1.8: nature based solutions should be mentioned here	NBS will be suggested again in the next version , but not sure they will remain in the final version of this NCP
Health Review: Julie							
Garnier	Ch.2	43	1149	43	1149	Human activities and demographics	Sorry, what are the lines where this comment refers ?
							Yes, this information should be included in the explaination of the flood and see level rise regulation NCP. Explaination on the process involved in this
Health Review: Julie						Beaches/dunes are components of coastal ecosystems which role as natural barriers against erosion and extreme weater events will only be fulfilled if the integrity of this ecosystem as a	
Garnier	Ch.2	43	1151	43	1154	whole is respected. Other vital habitats include salt marshes, estuaries etc	next version
Mark Rounsevell	Ch.2	42	1155		1150	Shouldn't the SLR statements be in section 2.26 on 'Future trends'?	Yes some information about flood and drought frequencies and severity trends in the future were movend in the future section
Mark Kounseveil	Cn.2	43	1155		1156	The NCP is buried in the detail on the hazard.	This section was fully rebuilt with fucus on flood and drought as main
Allan Watt	Ch.2	43	1168	46	1276	5	hazards.
Germany	Ch.2	43	1169	43	1180	Concerning flood events it is referred to a period from 1980-2010. After 2010 there were several worse flood events in Germany but also in other countries (e.g. 2011/2013 on rivers Elbe and Donau, 2016 extrem rainfall with pluvial floods above all in South Germany). If a current status should be provided it is advisable to take these events in account (e.g. in naming a period of 1980-2016). In Line 1275 for example the Climate Change information refers to a period up to 2014. But due to the bibliographical reference the authors themselfs shouldconsider if the extension of the period could be made.	A mixed trends is now settled for the flood as major hazard of this NCP, with an encrease of flood severity and frequency in some parts of the region
Graciela Rusch Health Review: Julie	Ch.2	43	1175	43	1180	This paragraph is unclear. Which is the message?	This section was fully rebuilt with fucus on flood and drought as main hazards. The main message is that "a mixed trends is observed in the region due to different climate and vegetation in south and North EAC regions. The information about the demand is much more available than informatuion about the delivery of this reg NCP
Garnier	Ch 2	43	1181	43	1181	Floodplains are part of river ecosystems so better tho rephrase with "Most river ecosystems and associated floodplains"	This precision is made about central europ were the focus is on the floodplains
Graciela Rusch	Ch.2	44	1185	44		This paragraph is unclear too.	This section was completelly rewritten
Graciela Rusch	Ch.2	44	1197	44	1210	It is unclear how these changes have been related to the capacity for flood control of the watershed.	All the information about the flood control have been removed from this section and we will insist again in the next version to include in
						This section needs to be more structured, the paragraphs are to a large extent disconnected from each other, difficult to get a coherent picture of what is going on and what the evidence	
Graciela Rusch	Ch.2	45	1229	45	1	supports.	because of space constrains, mostly floods and droughts
ECA values liaison						This section can be left out. Especially remove the sentence which refers to economic / monetary value and suggest it as an addition to the authors of Section 2.3.5. Because it is not a measure of the status and trend of NCP capacity or use, it is out of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value types (health, diversity & options, security etc.) are not being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of	
group	Ch.2	45	1236	45		importance of the NCP. Finally, the valuation method is not always clearly mentioned.	All information about values were removed from this NCP section
Hanna Skryhan	Ch.2	45	1242	45	1265	may be it has sense to remove this small part of the text to Ch.6 (policy insruments)?	This part was removed from this section Unfortunatelly this section don't include anymore information at this level
Germany	Ch.2	45	1251	45	1253	"Kinzig watershed": the river Kinzig exists two times in Germany. Both — one in the Blackforest and one in the South of Hessen — show relevant flood events and have noteworthy watersheds. A hint, which Kinzig is meant would be useful, although it might be concluded because of the reference that it is the one in Hessen.	of precision with watershed names. We were severelly constrained by space avalability
Johannes Langemeyer	Ch.2	45	1266	46	1273	A bit unclear paragraph	This section was completelly rewritten
ECA values liaison						Number of deaths is an indicator for Quality of Life rather than NCP, as is economic consequence in terms of GDP change. Suggestion to leave it out here and, after discussion, move it to	
group	Ch.2	45	1266	46	1276	Quality of Life.	flood

]]	The introduction of new species should not be the first recommendation, because there is a potential of several unintended consequences of introductions. Rather maintain the genetic	
Graciela Rusch	Ch.2	46	1291	46	1300	The introduction of new species should not be the first recommendation, because there is a potential of several unintended consequences of introductions. Kather maintain the genetic variability within native species, including forms adapted to drought, and warmer / wetter climates would be a more resilient solution.	This comment has been removed in the 3od
							This NCP was completely rebuilted and rewriten mainly focusing on floods and droughts as regulated hazards. Information on the flood regulation
							NCP capacity being supported by riparian forest is limited (and does not
							remain any more) but more generally decreasing trends are reported for
							densely populated areas where most floodplain landscapes and wetlands
Mark Rounsevell	Ch.2	46	1277	46		What are the NCP implications here?	have been heavily transformed.
	Ch.2	46	1277	46	1290	chapter 2.2.1.8.2: drougth is especially important in the Central Asian regions (Caucasus ect) => see UNCCD national reports	Yes, drougths encrease in CA is now mentionend in this section
PESC-4: Sophiko Akhobadze	Ch 2	46	1277	46	1290	chapter 2.2.1.8.2: drougth is especially important in the Central Asian regions (Caucasus ect) => see UNCCD national reports	Yes, drougths encrease in CA is now mentionend in this section
AKIIODAUZE	CILE	40	12//	40	1230	Chapter 2.2.2.3.2. Group in Especially important in the central regions (caucasus etc) = 2 sec once of hardinan reports	res, drougers encrease in CA is now mentionena in this section
Hanna Skryhan	Ch.2	46	1290	46	1290	and what about CA? it seems necessary to add the data on CA	Yes, drougths and floods encrease in CA is now mentionend in this section
						A better sub-section but the NCP is not clear. You could start with writing something like: "The risk of wind damage to forests may be mitigated through management This regulating	For space availability concern, the number of hazard that are explored in
						NOP" NOP	this section was linited to fllod, and droughts and few lines abour fires, but
Allan Watt	Ch.2	46	1291	46	1300		wind is not remaining any more This subsection is now rebuilted with focus on the floods regulation NCP
Allan Watt	Ch.2	46	1277	46	1290	The NCP is not even mentioned here.	floods being the most damaging natural hazard.
Allali Watt	CILE	40	12//	70	1230		noods being the most damaging natural nazard.
							Unfortunatelly CA information about Water quality regulation NCP is still
Hanna Skryhan	Ch.2	46	1300	46	1300	and what about CA? it seems necessary to add the data on CA	very poor and it was mentionned as a gap of information in the new version
							This section was completely rewritten, with main focus on flood and
Allan Watt	Ch.2	AC.	1301	47	1325	Too much emphasis on fire and not enough on the regulating NCP.	drought regulation, other hazards such as fire and land slides were much reduced because of section length concerns.
, mail watt	U2	40	1301	4/	1323		We found very few information about regulation capacity and trends about
							fire as one hazard. Most ref are about the demand for this hazards
							regulation (number of fire etc) so that this hazard part was shorten and
Graciela Rusch	Ch.2	47	1303	47	1315	How does this relate to the capacity of ecosystems to reduce fire hazards?	rewriteen in order to evidence this.
Health Review: Daniela							About Flooding: Acreman MC, Fisher J, Stratford CJ, Mould DJ, Mountford JO. Hydrological science and wetland restoration: some case studies from Europe. Hydrology and Earth System Sciences Discussions. 2007 Jan 17;11(1):158-69. Mrozik K. Assessment of Retention Potential Changes as an Element of Suburbanization Monitoring on Example of an Ungauged Catchment in Poznań Metropolitan Area (Poland). Rocznik Ochrona Środowiska. 2016 Jan 1;18(cz. 1):188-200. Grygoruk M, Mirosław-Świątek D, Chrzanowska W, Ignar S. How much for water? Economic assessment and mapping of floodplain water storage as a catchment-Scale ecosystem service of wetlands. Water. 2013 Nov 1;5(4):1760-79. Pehlivanov I, Fikova R, Ivanova N, Kalchev R, Kazakov S, Pavlova M, Doncheva S. Analysis of ecosystem services of wetlands along the Bulgarian section of the Danube River. Acta zoologica bulgarica. 2014 Jun 1:103-7. About FIRE: Mašins G, Urbāne V, Ielvijā, Malahova J. Preventive measures for grass fire risk reduction. ECONOMIC SCIENCE FOR RURAL DEVELOPMENT. 2015 Apr 15:205. Mavsar R, Japelj A, Kovač M. Trade-offs between fire prevention and provision of ecosystem services in Slovenia. Forest Policy and Economics. 2013 Apr 30;29:62-9. Cocak S. Transhumance in Central Anatolia: A Resillent Interdependence Between Biological and Cultural Diversity. Journal of Agricultural and
	Ch.2	47	1316	47	1318	What are "The very few manuscripts found for Central Europe"? How was the "low" perceptions of people of the threat of fire measured?	Environmental Ethics. 2016 Jun 1;29(3):439-53.
Mark Snethlage	Ch.2	47	1322			Other info source on fires at the global level, i.e. also including Eastern Europe and Central Asia: VIIRS Active Fire Data (7 days) - Fire Information for Resource Management System (FIRMS) - Earth Observing System Data and Information System - https://earthdata.nasa.gov/earth-observation-data/near-real-time/firms; Condition of Natural Fire Systems by Terrestrial Ecoregion - Atlas of Global Conservation - Data Basin - https://databasin.org/galleries/2d2d35ae3bc3439976b598ed7893254; MODIS Active Fire Data (7 days) - Fire Information for Resource Management System (FiRMS) - Earth Observing System Data and Information System https://firms.modaps.eosdis.nasa.gov/active_fire/; Global Fire Emissions Database, Version 4, (GFEDv4) - Vegetation Collections Data Sets - ORNL DAAC Data - http://www.globalfiredata.org/; Burned Areas MODIS Active Fire and Burned Area Products - http://modis-fire.umd.edu/pages/BurnedArea.php; Active Fires - MODIS Active Fire and Burned Area Products - http://modis-fire.umd.edu/pages/ActiveFire.php	Thanks a lot for those information about fires. Most of the available information about this hazards are concerning the deman for this NCP Unfortunatelly, are infrmation about the regulation delivery are still very poor. This NCP section was rebuilted mainly focusing on flood regulation and other hazards was much reduced in length due to space concern.
Mark Rounsevell	Ch.2	47	1326		1326	Possibly some literature available for Israel for this section?	Sorry we didn't find any litterature about Israel for this NCP
	Ch.2	47	1326	47	1331	A much better example, although the NCP is implicit. Perhaps start by writing "Desertification can be mitigated by protective forests but" Also, are there other relevant regulating NCPs?	Deserticification is not included in this NCP section, since it was decided to focus on flood and drought regulation NCP in this section.
Graciela Rusch	Ch.2	47	1326	47	1331	Any contribution of agricultural and pasturlands to desertification control? Different kinds of mamangement?	Deserticification is not included in this NCP section, since it was decided to focus on flood and drought regulation NCP in this section.

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<u>A</u> llan Watt	Ch.2	47	1332	4	7 13	The regulating NCP is somewhat hidden in the text (again). Also there are other relevant NCPs: forests are not the only NCP relevant to this hazard.	This section was rewritten with focus on floods and droughts regulation. Available and relevant information about this NCP regulation from forest and wetlands and coastal morphology will be suggested to addition with a more concise from again in this section. The suggested text is "Beaches/dunes are components of coastal which role as natural barriers against erosion and extreme weater events will only be fulfilled if the integrity of this ecosystem as a whole is respected. The knowledge base for decision-making on coastline management is weak, in general. Other vital habitats include salt marshes and estuaries, as well as natural wetlands or nature based solutions all along the catchment for continental ecosystems." This section was completelly re-organised focusing on flood and drought
Graciela Rusch	Ch.2	47	1332	4	7 13	11 This section could be better placed together with flood control.	hazards
Health Review: Margarida Simões	Ch.2	47	1332	4	7 13	Information that may be added for better visual perspective: http://www.eurosion.org/ http://www.eurosion.org/project/eurosion_en.pdf *image page 11 And arguments that may be 1 used to reinforce issue awareness: "Finding 5: The knowledge base for decision-making on coastline management is weak, in general"	Thanks a lot for this relevant information, the text that was suggested to add in this section about the natural support for this NCP is: "Beaches/dunes are components of coastal which role as natural barriers against erosion and extreme weater events will only be fulfilled if the integrity of this ecosystem as a whole is respected. The knowledge base for decision-making on coastline management is weak, in general. Other vital habitats include salt marshes and estuaries, as well as natural wetlands or nature based solutions all along the catchment for continental ecosystems."
Graciela Rusch	Ch.2	47	1343	. 4	7 13	Case for snowslide control in Norway, could be referred to: Schröter, M., Barton, D.N., Remme, R.P., Hein, L., 2014. Accounting for capacity and flow of ecosystem services: A conceptual model and a case study for Telemark, Norway. Ecological indicators 36, 539-551.	Thank you very much for this relevant suggestion. However it was decided to not any more developp snowslides hazards of this NCP section, and just focus on flood and drought hazards regulation. A few lines was added for each of the hazards: fire, land slides, wind, etc
Germany	Ch.2	48	1353	. 7	8 20	The whole subject of ABS and Nagoya Protocol seems to be missing or at least is reflected in a very limited way. The list of material NCPs in Chapter 2.2.2 seems to be limited/incomplete. It seems to be mainly focused on the use of commodities as such food and feed, energy, medicine. What seems to be missing is the use of the genetic resources of such materials which is different for many reasons from using them as commodities. Furthermore, utilization of genetic resources goes beyond medicinal purposes. Many very different sectors benefit from research and development on genetic resources, such as pharma, cosmetics, biotech, biocontrol, plant and animal breeding, food and feed, but also academic (non-applied) research. All provide important contributions to people. Data of such material contributions from nature are not well covered (if at all) in national economic statistics. Lines 1881-1884 seem to briefly mention all of this but do not go into any detail. Also, the focus is again on medical plants only.	Unfortunatly, the author group did not have the expertise to cover this subject in more depth.
ECA values liaison group	Ch.2	48	1354	. 4	8 13	In this sentence, please elaborate on ' part of our daily life'. Add that material NCPs contribute, among others, to mental and physical health and wellbeing, nutrition, sense of place and sense of community, and artistic inspiration. Because the following sentences discuss economic cycles and accounting quite strongly, it suggests that Material NCP's are about 5 ['commodities' and 'economics'. This will provide the reader with a frame that is too limited.	We considered that to the extent that these contributions are in fact made through the materials themselves they are accounted for in the economic considerations, and where the non-matrial contributions that come along with production of materials are meant in this comment these are discussed in other parts of Chapter 2.
ECA values liaison group	Ch.2	48	1355	. 4	8 13:	The introduction section to 2.2.2 (Material NCPs) suggests that Material NCP's are very much about 'entering economic cycles' and 'commodities'. This piece of text is meant to illustrate and introduce the difficulties of where to find data, and how to account for the diversity of NCP's. We suggest to clearly start the sentence with a phrase, such as: "Quantifying the status 7 and trends of material NCPs faces a number of challenges with relation to data availability"	We found this would be poor messenging.
ECA values liaison group	Ch.2	48	1362		8 13	3 Please add that, in addition, people value the NCPs in many different ways.	We have covered this using the example of seafood.
ECA values liaison group	Ch.2	48	1367			This sentence again suggests that trends of Material NCPs can mostly be discerned by looking at economic statistics, which frames to the reader that Material NCPs are about economics (and thus: money) and that you only relied on national statistics for your data. Either leave the sentence out, or leave the word 'economic' out (statistics remain). In addition, please also 9 refer to the general state of scientific knowledge on material NCPs, so that the reader knows that both aspects were covered. Food (and feed) are contemplated in terms of bulk quantities. Nothing is mentioned about food quality and safety. However, several studies show that quality foods linked to particular	
Alberto Bernués	Ch.2	48	1371	5	3	Frou Jahr Leey, Jac Contemplaced in terms of bout (qualitudes. Notining is inentionide about tool quality and safety, netwer), several studies show that quality doors linked to particular territories (e.g. POO), specially in HNV farmland areas, are perceived by the public as key provisioning ecosystem services of agroecosystems. This is particularly true in Mediterranean Europe, but also in other Mediterranean countries. See for example: Bernués A, Tello-García E., Rodríguez-Ortega T., Ripoll-Bosch R., Casasús I., 2016. Agricultural practices, ecosystem services and sustainability in High Nature Value farmland: Unraveling the perceptions of farmers and nonfarmers. Land Use policy 59, 130-142. Bernués A, Rodríguez-Ortega T., Alfnes F., Clemetsen M., Elik L.O., 2015. Quantifying the multifunctionality of fjord and mountain agriculture by means of sociocultural and economic valuation of ecosystem services. Land Use Policy 48, 170-178. Bernués A, Rodríguez-Ortega T., Ripoll-Bosch R., Alfnes R., 2014. Socio-cultural and economic valuation of ecosystem services provided by Mediterranean mountain agroecosystems. PLos ONE 97(5): e100479.	This section is meant to cover the delivery of food as NCP. The indicators found and the literature mentioned, as most of the works found in the extensive literature review, do not provide assessments of food quality or safety. However some related information is provided in section "2.3.1.1 Food Security".
Allan Watt	Ch 2	48	1372		3 14:	There is a lot of interesting detail in this section but no clear messages about production. In the places where trends are given these are presented often per person and it is not clear whether this refers to the total population or the agricultural workforce.	Values per person refer to the whole country population. However, this section has substantially changed in order to address comments by reviewers and text-length constraints.
	Ch 2	40		4	3 1	Surely technological advances in agriculture have been a major influence ton?	All containts related to drivers of change have been removed because they
Allan Watt Graciela Rusch	Ch.2	48	1373 1373	. 4		11 Solver a the result of the state of the s	are addressed in chapter 4. All containts related to drivers of change have been removed because they are addressed in chapter 4.
The Netherlands: Astrid Hilgers	Ch.2	48	1373	5	3 14	Here, the change of terminology from ES to NCP does not seem to work. Agricultural land could be an (agro) ecosystem, and thus land-basedagricultural food production as an ecosystem service. However, perceiving agricultural land as "nature" does not seem corrent, and thus land based agricultural food production is then not a contribution of nature to people. If so, please clarify the definition of nature in this context here.	The agreement in ECA-IPBES regional assessment is to indistintively use NCP or ES as prefered. As for the definition of NCP, please see Pascual et al., 2017. "Valuing nature's contributions to people: the IPBES approach". Current Opinion in Environmental Sustainability. 26-27.

The Netherlands:	Ch.2	48	1382	48	1382	Is the area of agricultural land per capita a relevant indicator? The benefit related to this NCP is the amount of food per capita, which has strongly increased due to intensification.	This indicator has been removed in the current version.
Astrid Hilgers	Ch.2	48	1382	48	1382		This indicator has been removed in the current version.
							Its has been reduced and linked accordingly to the other sections and
Mark Rounsevell	Ch.2	48	1386	49	1396	Is all of this contextual information really needed?	chapters where the implications of agricultural intensification are addressed.
		1					No, it is calculated index: cultivated area of a ceratin country / agricultural
Germany	Ch.2	48	1387	48	1387	should that mean " cultivated area / agricultural area per population"?	population living in that country.
							It has been rephrased. It is not an indicator of the NCP but of the way it is
The Netherlands:						Clarify why population dedicated to agriculture is actually an NCP indicator.	delivered. This part has been substantially reduced and crossreferenced
Astrid Hilgers	Ch.2	49	1388	49	1389		with other sections and chapters.
Germany	Ch.2	49	1391	49		indicators like the mechanisation of food production in the region in the last decades, or the increased use of agricultural tractors"	See above.
							Yes, it is correct. What is decreasing is ECA region's share of the world's
							production of meat, i.e. meat production in the world is increasing more
An Martel	Ch.2	49	1397			Table 2.4: correct? Increase of domestic animals/rural inhabitant and decrease of meat production in Western Europe?	rapidly in other regions, what has "left ECA behind".
The Netherlands:		1					
Astrid Hilgers	Ch.2	49	1403	50	1404	Please explain why there is more data on organic production and consumption needed	This sentence has been changed.
							This part has been removerd because monetary values of NCP are reported
Graciela Rusch	Ch.2	50	1404	50	1404	Are these data presented somewhere?	on section "2.3.5.2 Monetary values".
						This section does not actually address the capacity of European agro-ecosystems to produce food. What about linking food production to soil condition, the amount and diversity of	
				50		pollinators, the control of pests by natural enemies. And, to relate condion to landscape characteristics? It would also be insightful to provide evidence about trends in the dependence	All this is covered in other sections of chapter 2, chapters 3, 4 and 6.
Graciela Rusch	Ch.2	50	1404	50	1	on external inputs (mineral fertilizers, feed for livestock, pesticides). What about the incidence of pest outbreaks?	Regarding pest outbreaks, no appropriate data could be identified.
						Please remove the part of this text which refers to economic value and suggest it as an addition to the authors of Section 2.3.5. Because it is not a measure of the status and trend of NCP capacity or use, it is out of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value types (health, diversity & options etc.) are	This part has been removerd because monetary values of NCP are reported
ECA values liaison						Lapacity or use, it is out of context in section 2.2 and overlaps with information covered in section 2.5.3 (valuing NCP), indirectors, other value types (nearly, overlay & options etc.) are	on section "2.3.5.2 Monetary values". This section currently does not deal
group	Ch.2	50	1404	50	1408	not always clearly mentioned.	with NCP values but NCP provision. All sources of data are mentioned.
Mark Rounsevell	Ch.2	50	1413	50		What are the NCP implications of this?	This has been removed from the current version.
							All mentions to drivers have been removed because chapter 4 extensively
Mark Rounsevell	Ch.2	50	1418	50	1419	"when it had a sharp decline": Why was this?	elaborates on them.
Health Review: Julie							All mentions to drivers have been removed because chapter 4 extensively
Garnier	Ch.2	50	1419	50		Why do we see such a decline in 1990??	elaborates on them.
Graciela Rusch	Ch.2	51	1427	51	1427	Which is the time unit of meat production, per day?	Per year (all FAOSTAT indicators unless explicited otherwise)
							This section is only meant to addres NCP delivery and not the ecosystem or
						It would be more informative if the section about food production is structured following the components of biophysical structures and functions underpinning food production	ecosystem functions making that possible (what is done in chapter 3). In
						including the agro-ecosystem component, both local capacity and the landscape capacity), the use and the value. And that the different indicators of these components are presented in	order to be consistent, we have removed all text related to the production
Graciela Rusch	Ch.2	51	1434	51	1445	a table. It would also be informative to distinguish between natural elements/capacity and man-made elements and inputs.	model and drivers, what is addressed in chapter 4.
						A low and decreasing number of milking machines per head of cattle indicates scale enlargement and technical progress - increased capacity of milking robots, to be precise. What has	
						happened, is that in the first decade of the CAP more farmers bought a milking machine. Later on, milking machines became more powerful, meaning that you can manage with fewer	
						milking machines. Also, scale enlargement has taken place throughout (western) Europe. While (for example) previously 200 cows were owned by 4 farmers who all had a milking	
The Netherlands:						machine, nowadays, 200 cows are owned by one farmer who milks them with just one milking machine. Similarly, the lower number of milking machines per head of cattle in CA en EE	
Astrid Hilgers	Ch.2	51	1439	51	1444	can mean a larger scale as well as a lower degree of mechanization. This is an ambivalent indicator and the suggestion is therefore to refrain from using it.	This indicator has been removed.
The Netherlands:						more important reasons are the increased capacity of milking machines, and scale enlargement. See next comment.	
Astrid Hilgers	Ch.2 Ch.2	51	1441 1445	51	1442	What has decreased in Central Europe?	This indicator has been removed.
Graciela Rusch	CII.2	21	1445		1445	what has decreased in Central Europe?	This part has been removed from the current version. Yes, but all mentions to drivers have been removed because chapter 4
Mark Rounsevell	Ch.2	52	1447	52	1447	Is there a connection between the declines in this graph around 1990/01 and those in the cereals graph? Presumably because of the break-up of the USSR?	exrensively elaborates on them
Mark Rounsevell	Ch.2	52	1460	52		Define "capital stock". What are the NCP implications of this paragraph?	This part has been removed from the current version.
Graciela Rusch	Ch.2	52	1460	52		The connection of this paragraph to Es is unclear.	This part has been removed from the current version.
						Please remove this sentence which refers to economic value and suggest it as an addition to the authors of Section 2.3.5. Because it is not a measure of the status and trend of NCP	
		1				capacity or use, it is out of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value types (health, diversity & options, security	
ECA values liaison						etc.) are not being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of importance of the NCP. Finally, the valuation	This part has been removed because monetary values of NCP are reported
group	Ch.2	53	1477	53	1478	method is not always clearly mentioned.	on section "2.3.5.2 Monetary values".
		1					All data has been updated during this review to latest data available in
	ch a						Septemebr 2017 for all indicators used: between 2010 and 2013 depending
Germany	Ch.2	53	1480	53	1481	This information is quite old. Is there more recent data? It would be good to include a statement about how/why unsustainable exploitation levels were reached, and how they were set, and to distinguish more clearly sustainable and	on the source). We added information that the overexploitation was mostly due to setting
						It would be good to include a statement about how, why unsustainable exploitation levels were reached, and now they were set, and to distinguish more clearly sustainable and unsustainable 'production' levels. Some reflection about difficulties in establishing sustainable use standards, and also about using 'production' alone as an indicator of ES flow. ES flow. Some reflection about difficulties in establishing sustainable use standards, and also about using 'production' alone as an indicator of ES flow. ES flo	we added information that the overexploitation was mostly due to setting of catch limits larger than those scientifically advised. The methology for
		1				unsustamane production levels. Some reflection about difficulties in establishing sustainable use standards, and also about using production alone as an indicator or is now. En tows need to be matched to productive capacity, (this information is not likely to be available always, but it is important to point out the need) and the limitation of using levels of use as	TAC advice is complex was in flux during this period, and therefore cannot
Graciela Rusch	Ch.2	53	1503	53	1503	indicators of ES flows.	be easily summariesed here.
Health Review: Daniela			-200	- 55			,
Haluza	Ch.2	54	1505	55	1535	Figures 2.32. – 2.34.: the colors and the presentation of the data could be improved.	All figures will be professionally re-designed.
Hanna Skryhan	Ch.2	54	1512	54	1512	is it mistake in the link on figure 2.2?	Yes
						Could refer to the Norwegian case, where the problem with salmon lice is hindering increased production. A new management system has very recently been put into place, with a traffic	
						light system reflecting salmon lice abundance in the region defines whether production can be increased or if actions against salmon lice is needed	
Mette Skern-Mauritzen	Ch.2	54	1523	54	1527	right of years in the temperature of the region defined whether production can be indicated on it determs against daminor need to its effects.	We added reference to this in the text.
	l			_			There are very tight length constraints, so the section needed to be shorted
Graciela Rusch	Ch.2	54	1527	54	1527	Authors from the Scandinavian countries could contribute to the section about challenges in acquaculture (one possible contact: Ingeborg Helland-Palm Ingeborg.Helland@nina.no)	rather than expanded.
LINED MICAGO The							
UNEP-WCMC: The						Unite of production that are conserved as impacial unite "sone" rather than the matrix unite "sone" (Sone all FAO date (and I are united all asked all asked as I ask	
Biodiversity Indicators Partnership (BIP)	Ch.2	55	1529		1	Units of production that are expressed as imperial units "tons" rather than the metric units "tonnes". Since all FAO data (and I presume, almost all other data, except that from the	Eived
rai uleisiip (bir)	CII.Z	55	1529			USA) is in "tonnes" this should be corrected throughout.	Fixed.

	1						T
UNEP-WCMC: The							
Biodiversity Indicators	Cl. 3		4520				This is a possibility. But we cannot speculate about this claim here unless
Partnership (BIP) Mark Snethlage	Ch.2	55 55	1529 1529			The decline in catch in eastern Europe may also be attributed to deterioration in monitoring and the proliferation of illegal or informal fishing that is unreported. do the original data also allow an aggregation along the ECA subregions definitions, i.e., Western Europe, Central Europe, Eastern Europe and Central Asia?	there are referencable sources to support it. No.
IPBES Knowledge and	CII.2	33	1529			to the original data also allow an aggregation along the ECA subregions definitions, i.e., western Europe, Central Europe, Eastern Europe and Central Asia?	NO.
Data Task Force (KD							
TF)/ Task Group on							
Indicators (TGI)	Ch.2	55	1529	55	;	The graph of Inland Fishery Production can be replaced to the graph which TGI will provide soon	Unfortunately, we did not recieve this.
Mark Snethlage	Ch.2	55	1533	33	1	The graph of manufactor conscious care at the place to the graph which is discussed as a constant of the profit of the original data also allow an aggregation along the ECA subregions definitions, i.e., Western Europe, Central Europe, Eastern Europe and Central Asia?	no
Wark Streetinge	CII.Z	33	1555			to the original data and an aggregation along the EoA staticgions definitions, i.e., western Europe, central Europe, eastern Europe and Central Asia:	We decided to stick with the FAO sub-regions (1) because this is how data is
							proviced and (2) because it reveals key facts that ECA subregions would not
Mark Rounsevell	Ch.2	55	1534	55	1534	How do "Northern Europe and Southern Europe" relate to the ECA sub-regions?	resolve.
Graciela Rusch	Ch.2	55	1537	55		Which is the time unit ? Year?	This passage has been removed due to length constraints.
Graciela Rusch	Ch.2	55	1547	55		Norwegian fisheries are of considerable importance but are not represented in EU statistics. Could other sources be searched to include this?	This passage has been removed due to length constraints.
						Please remove this sentence which refers to economic value and suggest it as an addition to the authors of Section 2.3.5. Because it is not a measure of the status and trend of NCP	
						capacity or use, it is out of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value types (health, diversity & options, security	
ECA values liaison						etc.) are not being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of importance of the NCP. Finally, the valuation	
group	Ch.2	56	1544	56	1545	method is not always clearly mentioned.	Done!
ECA values liaison						Please swap the whole of Section 2.2.2.1 (Food) with Section 2.2.2.2 (Energy) in order to align with the latest NCP classification, and the order of NCPs. Energy comes ahead of food in the	
group	Ch.2	56	1569			classification	The change has been made.
ECA values liaison						Please swap the whole of Section 2.2.2.2 (Energy) with Section 2.2.2.1 (Food) in order to align with the latest NCP classification, and order of NCPs. In addition, please name the section	
group	Ch.2	56	1569			Energy' instead of 'Biomass-based Energy'. Energy comes ahead of food in the classification	The change has been made.
Hanna Skryhan	Ch.2	56	1586	57	1601	replace to the Ch.6	Text has been removed and content will be proposed to Ch 6
		1					
						This seems to be related to specific management and harvesting practices, and timber harvest turns, not to the existence of old-growth forest. Cover of old-growth forest is the outcome	
Graciela Rusch	Ch.2	57	1597	57		of specific management approaches. It would be good to provide some relfection about trade-offs with other functions / ES / NCP as a consequence of different management practices.	Text has been removed
Mark Rounsevell	Ch.2	57	1601	57	1601	Central Asia doesn't appear on the graph (except the legend). Is that correct?	Graph has been corrected to better reflect Central Asia
The Netherlands:							
Astrid Hilgers	Ch.2	57	1601	57		CA is not visible in the graph. Reconsider the Y axis scale.	Graph has been corrected to better reflect Central Asia
Hanna Skryhan	Ch.2	57	1616	58	1621	delete this text	Text has been removed
							There are data gaps for EE and CE regarding the share of woody biomass in
							the overall renewables; however, the section has been revised and
Hanna Skryhan	Ch.2	58	1640	59	1644	and what about EE & CA? it seems necessary to add the data on EE & CA	shortened to cover all ECA
						The intensification of forestry production for bio-energy, that includes decisions about how much biomass can be extracted from the forest without compromising other benefits in e.g.	
						Finland and Sweden (e.g. soil carbon storage, soil conservation, biodiversity protection) have been studied in depth, and sustainability criteria may not have been completly settled yet.	Thank you for the reference suggestions. Due to the limited space available
						Please, consider references in the Finnish and Swedish literaturature (see e.g., Hämäläinen et al. 2015 Canadian J of Forest Research; http://www.slu.se/en/Collaborative-Centres-and-	for each NCP, the issue of trade-offs has been treated more at length in FEW
Graciela Rusch	Ch.2	59	1645	59	1000	Projects/tree-stump-harvesting-and-its-environmental-consequences/; and here about challenges and trade-offs in Scandinavian forest management: https://link.springer.com/article/10.1007/s13280-015-0743-8	section. Nevertheless the new text mentions this comprimise in lines 1396- 1398
Nadine Goris	Ch.2	59	1651	59		Figure 2.37: unreadable due to too small font and out of focus	
Naume Gons	CII.2	39	1001	39	1052	Figure 2.37: unreadable due to too small font and out of focus	This figure has been removed from the section Due to the limited space available for each NCP, the issue of trade-offs has
						This is indeed the case, and the trade-offs and challenges of intensification of extraction needs to be treated in its own right. There has been extensive research in these countries	been treated more at length in FEW section. Verkerk et al. study has been
Graciela Rusch	Ch.2	59	1672	50	1674	into a indeed the case, and the charge of an advantage of interest in a contract of the contra	cited
Gradicia Nascri	Cinz	33	10/2		1074	The context of the word "forest" needs to checked. Surely hunting and collection of other NWTP are older uses of forest than fuel wood collection. Maybe forest refers to the wood, not	Text has been smoothened to: 'woodfuel collection has been among the
Finnish Government	Ch 2	60	1675	60	1676		earliest uses of forests by humans'
ECA values liaison							
group	Ch.2	60	1684	60	1690	This text relates to recreation, which is covered in Section 2.2.3.2. Hence it can be left out here.	This text has been removed
ECA values liaison						In the IPBES NCP classification, this NCP does not include the addition 'and assistance'. Please remove the reference to 'assistance' in the title of the section and throughout the section.	
group	Ch.2	60	1694			Consider to account for this in Table 2.1 (line 289-290) as well.	The classification that went to plenary contains "and assistance".
·							
Health Review:						The Material and Assistance NCP should include in the utilization purposes the industrial production, with reference to the numerous phytochemicals. A distinct example indicates the	This section addresses the main actual material contribution by nature.
Epameinondas						potentials of wild plants for the provision of Fine Chemicals, a sector of the chemical industry with small volume but high value. Indicative references: Evergetis E and Haroutounian SA.	Potential futher contributions by nature are addressed in other parts of this
Evergetis	Ch.2	60	1696	60	1696		assessment.
							This is a plausible option, but we decided not to choose it because it runs
Johannes Langemeyer	Ch.2	60	1705			I suggest to merge this section with 2.2.2.2.1	counter to the NCP classification.
						it should be acknowledged in the report that there are trade-offs between different NCPs - not only timber and NWF products and services. Between different berries, between	
Finnish Government	Ch.2	60	1714	60	1719		Trade-offs are discussed in a different part of the Chapter
						Please remove this sentence which refers to economic value, and ideally Figure 2.43 as well, and suggest it as an addition to the authors of Section 2.3.5. Because it is not a measure of	
						the status and trend of NCP capacity or use, it is out of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value types (health,	
ECA values liaison						diversity & options, security etc.) are not being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of importance of the	
group	Ch.2	61	1764	61	1766	NCP. Finally, the valuation method is not always clearly mentioned.	All data on economic values have been moved to section 2.3.5
L	L	1			1		all graphic materials have been redone for the final version, so this should
Germany	Ch.2	62	1733	62	1733		have been harmonized
						Please, indicate which kind of production this graph refers to: 1: forest productivity (based on forest growth (m3/ha/yr) or 2: round wood extraction. I would not call 'production' in the	
						context of ES as extraction/removal, without any further consideration. IT would be better to use consistently the terminology for indicators of the different components of ES (capacity,	L
Graciela Rusch	Ch.2	62	1733	62	1733		This refers to roundwood production (FAOSTAT)
						Compared to the importance given to the provision of biofuels by, the use of forest for other purposes (e.g. timber/round wood) seems to be very simply treated. Timber production is	L
L			.=-			very well documented. There could be references to different forest/tree types. Also, other products from wood (fibres) are of considerable importance, not least with the development	Given the limited space available for each section, not everything could be
	Ch.2	62	1737	62	1737	of new technology. The diversification opportunities for forest products seems to be neglected.	covered
Graciela Rusch						1	1
IPBES Knowledge and							
IPBES Knowledge and Data Task Force (KD							
IPBES Knowledge and	Ch.2	62	1737	62		The graph of Total Wood Removals can be replaced to the graph which TGI provided	This graph has not been repaiced as it is based on EUROSTAT dataa nd consistent with other data used

		l I			1	T	Given the limited space available for each section, not everything could be
Graciela Rusch	Ch.2	63	1753	63	1753	miss some important products such as: seeds and genetic resources (e.g. for forestry), tree derived fibres, peat (huge importance for horticulture and floriculture)	covered
Nadine Goris	Ch.2	64	1764	64		comma missing after "2014"	checked
							Given the limited space available for each section, not everything could be
Hanna Skryhan	Ch.2	65	1776	66	1799	The information about Birch juice & Opium poppy & Cristmas trees is missing	covered
Graciela Rusch	Ch.2	66	1808	66	1011	Please consult the Norwegian literature.	Literature review has been undertaken following a standardized methodological approach
Graciela Ruscii	CII.2	00	1000	00	1011	Please cross this sentence which refers to economic value and suggest it as an addition to the authors of Section 2.3.5. Because it is not a measure of the status and trend of NCP Please remove this sentence which refers to economic value and suggest it as an addition to the authors of Section 2.3.5. Because it is not a measure of the status and trend of NCP	тесподоюдіса арргоаст
						capacity or use, it is out of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value types (health, diversity & options, security	
ECA values liaison						etc.) are not being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of importance of the NCP. Finally, the valuation	
group	Ch.2	66	1809	66		method is not always clearly mentioned.	All data on economic values have been moved to section 2.3.5
Nadine Goris	Ch.2	67	1826	67		Figures 2.44 and 2.45: unreadable due to too small font and out of focus	all graphic materials have been improved in the final version
Graciela Rusch	Ch.2	68	1841	68		This would apply to the case of peat too.	this has not been changed as this section focuses on maerl
Mark Rounsevell Allan Watt	Ch.2 Ch.2	68 68	1845 1845	68 69		Should this be 'guard dogs'?	Done According to the IPBES classification of NCP, this is a material NCP.
Alian watt	Cn.2	58	1845	69	1860	s this a productive NCP or a regulating NCP??	According to the IPBES classification of NCP, this is a material NCP.
ECA values liaison group	Ch.2	68	1845	69	1866	Section 2.2.2.3.6 relates to ILK and 'Education & Knowledge' in relation to management, identity, cultural heritage etc., rather than material NCPs. It is highly interesting and relevant to the ECA, but does not belong in Section 2.2. Suggestion to move it to Section 2.3.3 (Cultural Heritage and Identity), either as text section or as a box.	this section is here becase it realted to NCP 15 learning and inspiration. Inspiration includes knwoledge acquistion and devleopment and thus ILK
O ,						Hunting dogs accompanied human being prior to livestock keeping. If the latter type of dog-human interaction is included in the report, then also hunting and herding dogs should be	this is designed as an example of direct use of living organsisms for NCP 13
Finnish Government	Ch.2	68	1845	68	1862	included. As it goes, a whole rage of domesticated farm animals and reindeer are part of the NCPs.	and space constraints prevent the use of other examples
Health Review: Valentina Savo	Ch.2	69	1867	75		I randomly found sentences that were copied and pasted, you must use quotes and references in those cases. I could not check the text throughoutly since my application for checking this issue only works in word format. Please check if there are other instances of copy and paste. The citations in the text are written using different styles, there is no consistency. Table names are sometimes wrong. References cited in the text or tables (including those in appendix that are referred within the section) are sometimes not cited in the reference list (Please check carefully). The literature search is incomplete and it is not clear how they performed the search. The number of papers is quite higher than 64, in a simple search in 5 mins I found about 20 papers that were relevant to the list and only one was included in the reference list. I have put these the end of this sheet, but consider that it is NOT complete, it is the result of a 5 min random search, not of a comprehensive full search. This comment pertains the part from page 69 to 75	appendix)
						Can be emboided with some numerical data e.g. by citing such references: '71% of new drugs that have been approved since 1981 have directly or indirectly been derived from natural	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Yelda Guzel	Ch.2	69	1868	69	1872	products (Newman and Cragg, 2012)' or with some actual examles like 2015 Nobel prize that was given to antimalarian drug 'artemisinin'isolated from 'Artemisia annua'	the new appendix Thanks for the helpful comment. We use standard terms at this general level
ECA values liaison							of the assessment and can only include details when discussing specific
group	Ch.2	69	1868			Please replace 'biodiversity' with what the components of biodiversity that you really mean, as indicated in the sentences that follow.	issues
O ,						Sammons HM, Gubarev MI, Krepkova LV, Bortnikova VV, Corrick F, Job KM, Sherwin CM, Enioutina EY. Herbal medicines: challenges in the modern world. Part 2. European Union and	Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						Russia. Expert Rev Clin Pharmacol. 2016 Aug;9(8):1117-27 Informative review article that could be used to support statements throughout 2.2.2.4 text	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Theofilos Poutahidis	Ch.2	69	1868	78	2052	Attention must also be given to how to ensure a sustainable supply of food under changing environmental and climatic conditions as well as changing needs. Effective conservation and	the new appendix
Health Review:						enhancement of agro biodiversity and variability needs a legal framework that takes into account genetic resources-related issues to facilitate conservation activities and sustainable use	This is a very valid statement, but beyond the scope of this particular
Gilberto IGREJAS	Ch.2	69	1868	69	1884	of genetic resources.	section; perhaps this is relevant to other parts of the assessment
Health Review:						Please insert the following reference after the "modern pharmaceutical products"; (Cragg & Newman, 2016): Newman, D.J., & Cragg, G.M. (2016): Natural Products as Sources of New Drugs from 1981 to 2014. J. Nat. Prods., 79 (3), 629-661. DOI: 10.1021/acs.jnatprod.5b01055	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Mahmut Miski	Ch.2	69	1872	69	1872		the new appendix
Health Review: Zorica Popovic	Ch.2	69	1872	69	1876	This intersection of biodiversity, health and culture is a fertile ground for inter- and transdisciplinary studies, with interest across numerous disciplines including anthropology, archaeology, ethnobiology, ethnoecology, ethnopharmacy, veterinary and human medicine and epidemiology, pharmacology and others (Heinrichs & Jäger, 2015; Payyappallimana & Subramanian, 1876 2015)).	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in the new appendix
Health Review:						Change "ethnopharmacy" into 'ethnopharmacology'. Change "veterinary and human medicine and epidemiology, pharmacology and others" into 'veterinary, human medicine and	
Valentina Savo	Ch.2	69	1874	69	1876	others'. There is an extra bracket at the end of the sentence	this is now adapted
Health Review:				_		L	l
Suzanne Skevington	Ch.2	69	1874	69	1875	health psychology	this is now added
ECA values liaison group	Ch.2	60	1876		l	In the IPBES NCP classification, this NCP includes 'biochemical and genetic resources'. Please explain that these have not been reviewed, and the reason for not including them. Consider to account for this in Table 2.1 (line 289-290) as well.	We only had the expert capacity for medicinal plants; this will now be pointed out in the new title of this section
Health Review:	Cinz	03	10/0		l	To deposit to this it took tit fine too too go well.	pointed out in the new title of this section
Valentina Savo	Ch.2	69	1877	69	1879	The sentence is too long and can be shortened easily	the sentence is reworked for clarification
						Change "in many ways with issues relating to agriculture, food and nutrition, and genetic resources, and that many of the policy and ethical issues associated with medicinal plants	Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review: Valentina Savo	Ch 2	69	1882	69	199/	converge with issues of equitable access to, and sharing of the benefits from, genetic resources" into 'in many ways with issues relating to biodiversity conservation, agriculture, food and nutrition, but also genetic resources and intellectual properties. Many of the policy and ethical issues associated with medicinal plants converge with issues of equitable access to, and sharing of the benefits from, genetic resources'	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in the new appendix
Health Review: Epameinondas Evergetis	Ch.2	69	1884	69		After having reviewed the chapter on Medicinal plant Resources I understood that the utilization of biodiversity for bioprospecting and the consequent discovery of novel therapeutic agents had not been approached. In my opinion the cases of Artemisinin and Taxol as plant derived medicines should be noted and the relevant references could be: Artemisinin: Tu Y. 2011. The discovery of Artemisinin (qinghaosu) and gifts from Chinese medicine. Nature. 17. 1217-1220. Taxol: Goodman J and Walsh V. 2001. The story of Taxol: Nature and Politics in the pursuit of an Anti-Cancer Drug. Cambridge University Press. ISBN: 978-0-521-5612-51. In the same context a fundemental reference for the utilisation of Natural Products in modern medicinal practice and drug discovery is: Newman D J & Cragg G M. 2016. Natural Products as sources for New Drugs from 1981 to 2014. Journal of Natural Products. 79(3): 621-661. There is stated that 49% of all anticancer drugs is of direct natural origin, while the inclusion of nature inspired drugs alleviates this figure to 75%.	This is a very valid statement, but beyond the scope of this particular section, due to limited resources we could not look into this aspect
İ	Ì				1	Rural Development Policy, via its agri-environmental measures to target the level of practical farming and via the European Innovation Partnership to bridge practice needs with research	
Health Review:					1	activities and foster interaction between relevant a corrs; Research & Innovation Policy with this Framework Programme Horizon 2020 to build up the knowledge base on genetic diversity.	This is a year, valid statement, but have add the seems of this post;
Gilberto IGREJAS	Ch 3		1885	72	1035	in agriculture; Particular emphasis must be given to an integrated and holistic approach that ensures a better coordination of genetic resources conservation efforts through sustainable	This is a very valid statement, but beyond the scope of this particular section; perhaps this is relevant to other parts of the assessment
GIIDELLO IGREJAS	CII.Z	69	1982	12	1925	use and an effective interplay among the relevant actors.	I section, pernaps this is relevant to other parts of the assessment

		Г					This indeed not integrated in this report; a good suggestion for future
Yelda Guzel	Ch.2	69	1886	70	1890	Despite it's very rich biodiversity there is no information about Turkey.	inclusion
Health Review:							
Valentina Savo	Ch.2	69	1886	69	1886	Change "particular" into 'particularly'	Thanks for the good suggestion, we will adapt
Health Review:							
Valentina Savo	Ch.2	70	1890	70	1890	The figure is not at a good resolution, The smaller text is quite blurry and not readable in some cases.	Valid statement: all figures will be improved for the final version of the text.
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Davieur						Chilley A.N. Desharitelana C.N. Melanay V.C. Warner H. Verrande D. and Uninciph M. 2014 Medicinal elegate of the Durain Discourage in their history and applications (asserted in the Control of the Cont	whole health section, we were not able to incorporate this into the new
Health Review: Valentina Savo	Ch.2	70	1892	70		Shikov, A.N., Pozharitskaya, O.N., Makarov, V.G., Wagner, H., Verpoorte, R. and Heinrich, M., 2014. Medicinal plants of the Russian Pharmacopoeia; their history and applications. Journal of ethnopharmacology, 154(3), pp.481-536.	text, and due to other priorities we could not follow up on this comment in the new appendix
valentina savo	CILZ	70	1032	,,		or compinamacology, 234(3), pp.402-336.	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:						Amessis-Ouchemoukh, N., Madani, K., Falé, P.L., Serralheiro, M.L. and Araújo, M.E.M., 2014. Antioxidant capacity and phenolic contents of some Mediterranean medicinal plants and	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79		their potential role in the inhibition of cyclooxygenase-1 and acetylcholinesterase activities. Industrial Crops and Products, 53, pp.6-15.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:							whole health section, we were not able to incorporate this into the new
Valentina Savo	Ch.2	70	1892	70		Mayer, M., Vogl, C.R., Amorena, M., Hamburger, M. and Walkenhorst, M., 2014. Treatment of organic livestock with medicinal plants: a systematic review of European ethnoveterinary research. Forschende Komplementärmedizin/Research in Complementary Medicine, 21(6), pp.375-386.	text, and due to other priorities we could not follow up on this comment in the new appendix
valentina savo	CII.Z	70	1032	/3		research, rorschende komplementamientenin kesteren in complementary medicine, 22(a), pp.373-300.	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:						Baydoun, S., Chalak, L., Dalleh, H. and Arnold, N., 2015. Ethnopharmacological survey of medicinal plants used in traditional medicine by the communities of Mount Hermon, Lebanon.	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79		Journal of ethnopharmacology, 173, pp.139-156.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
	1					L	whole health section, we were not able to incorporate this into the new
Health Review:	Ch 2	70	1002	70		Menendez-Baceta, G., Aceituno-Mata, L., Molina, M., Reyes-García, V., Tardío, J. and Pardo-de-Santayana, M., 2014. Medicinal plants traditionally used in the northwest of the Basque	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	/9	-	Country (Biscay and Alava), Iberian Peninsula. Journal of ethnopharmacology, 152(1), pp.113-134.	the new appendix Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79		Hayta, S., Polat, R. and Selvi, S., 2014. Traditional uses of medicinal plants in Elazığ (Turkey). Journal of ethnopharmacology, 154(3), pp.613-623.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79		Kaval, I., Behçet, L. and Cakilcioglu, U., 2014. Ethnobotanical study on medicinal plants in Geçitli and its surrounding (Hakkari-Turkey). Journal of ethnopharmacology, 155(1), pp.171-184.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:						Alarcón, R., Pardo-de-Santayana, M., Priestley, C., Morales, R. and Heinrich, M., 2015. Medicinal and local food plants in the south of Alava (Basque Country, Spain). Journal of	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79		ethnopharmacology, 176, pp.207-224.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	/9		Cavero, R. Y., and M. I. Calvo. "Medicinal plants used for respiratory affections in Navarra and their pharmacological validation." Journal of ethnopharmacology 158 (2014): 216-220.	the new appendix Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:						Tuttolomondo, T., Licata, M., Leto, C., Savo, V., Bonsangue, G., Gargano, M.L., Venturella, G. and La Bella, S., 2014. Ethnobotanical investigation on wild medicinal plants in the Monti	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79		Sicani Regional Park (Sicily, Italy). Journal of ethnopharmacology, 153(3), pp.568-586.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
	1						whole health section, we were not able to incorporate this into the new
Health Review:	Ch 3						text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79	-	Mükemre, M., Behçet, L. and Çakılcıoğlu, U., 2015. Ethnobotanical study on medicinal plants in villages of Çatak (Van-Turkey). Journal of ethnopharmacology, 166, pp.361-374.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79		Calvo, M.I. and Cavero, R.Y., 2014. Medicinal plants used for cardiovascular diseases in Navarra and their validation from official sources. Journal of ethnopharmacology, 157, pp.268-273.	
							Thanks for the valuable comment; due to a need for drastic downsizing the
	1						whole health section, we were not able to incorporate this into the new
Health Review:	Ch 2						text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79		Cavero, R.Y. and Calvo, M.I., 2015. Medicinal plants used for musculoskeletal disorders in Navarra and their pharmacological validation. Journal of ethnopharmacology, 168, pp.255-259.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:	1					Menale, B. and Muoio, R., 2014. Use of medicinal plants in the south-Eastern area of the partenio regional park (Campania, Southern Italy). Journal of ethnopharmacology, 153(1),	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79		pp.297-307.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:	1						text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79		Sargin, S.A., 2015. Ethnobotanical survey of medicinal plants in Bozyazı district of Mersin, Turkey. Journal of ethnopharmacology, 173, pp.105-126.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:	1					Calvo, M.I. and Cavero, R.Y., 2015. Medicinal plants used for neurological and mental disorders in Navarra and their validation from official sources. Journal of ethnopharmacology, 169,	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79		Cardy, M.L. and Caverdy, K.T., 2015. Medicinal plants used for neurological and mental disorders in Navaria and their validation from oriclar sources. Journal of entiropharmacology, 169, pp. 263-268.	the new appendix
	1 40 - 104	70	1032	. ,,		IED	face control and become

					1		T
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:							whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79	9	Güler, B., Kümüştekin, G. and Uğurlu, E., 2015. Contribution to the traditional uses of medicinal plants of Turgutlu (Manisa-Turkey). Journal of ethnopharmacology, 176, pp.102-108.	the new appendix
		1					Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79	9	Paksoy, M.Y., Selvi, S. and Savran, A., 2016. Ethnopharmacological survey of medicinal plants in Ulukṣla (Nigde-Turkey). Journal of Herbal Medicine, 6(1), pp.42-48.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:							whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	70	1892	79	9	Karadeniz, A., Cinbilgel, I., Gün, S.Ş. and Çetin, A., 2015. Antioxidant activity of some Turkish medicinal plants. Natural product research, 29(24), pp.2308-2312.	the new appendix
Health Review: Gerard							The reason for this is the fact that this publication incorporates an overview
Clarke	Ch.2	70	1892	70	1905	am not an expert on this area but the information in this section seems overly reliant on just one source.	of available knowledge
Health Review: Rosaria						No specific comments to the text but I commented on the state of evidence and key messages in the expert consultation for this tekst part, which will feed into the next version of this	
Costa	Ch.2	70	1892	79	9	tekst part	thanks
Health Review: Nurcan Frbil	Ch.2	70	1892	79		No specific comments to the text but I commented on the state of evidence and key messages in the expert consultation for this tekst part, which will feed into the next version of this tekst part	thanks
LIDII	CII.2	70	1032	/3	1	teast part	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Yelda						There is very limited data on the status of medicinal plant knowledge on Turkey despite here having the most publications per country (as indicated in line 1922). Analysing	text, and due to other priorities we could not follow up on this comment in
Güzel	Ch.2	70	1892	79	9	ethnomedicinal publications from Turkey more detaily will be provide more detailed information on this issue	the new appendix
	1			l			L
	1			l		In general, there are a lot of good references. Even if I am not an expert on this topic, I assume that there must exist a lot of other references too, but they may not have being published in well established scientific publications. For instance, I found this "grey" report from Finland, which is a literature survey: Bertalan Galambosi & Kirsi Jokela 2002: Uhanalaisten	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review: Jukka-						ill Bakekassusienus kuutenus vuon sisanee, riitoinu unis grey Tepor riitoin riinaana saaria vuon saa kiisi Judea 2002. Viinaanaassen ja Viileyk, Kirjallisuusselvitys (Abstract: Market potential and research in kultivation of some endres medicinal plants, Literature survey). Maa- ja	text, and due to other priorities we could not follow up on this comment in
Pekka Jappinen	Ch.2	70	1892	79	9	elintarviketalous 17. 88 pp. + 8 appendixes. (MTT Agrifood Research Finland, Environmental Research, Ecological Production).	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Jukka-							text, and due to other priorities we could not follow up on this comment in
Pekka Jappinen	Ch.2	70	1892	79	9	There are also some recent scientific references on the medicinal properties of wild plants in the Argumenta report, which can be obtained here:	the new appendix
						Jäppinen et al. 2014 (Jäppinen, JP., Tyrväinen, L., Reinikainen, M. & Ojala, A. (eds.) 2014. Luonto lähelle ja terveydeksi. Ekosysteemipalvelut ja ihmisen terveys Argumenta-hankkeen	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review: Jukka-						Togotham the control of the control	text, and due to other priorities we could not follow up on this comment in
Pekka Jappinen	Ch.2	70	1892	79	9	Health (2013–2014)). Suomen ympäristökeskuksen raportteja (Reports of the Finnish Environment Institute) 35/2014. 104 pp. Helsinki). https://helda.helsinki.fi/handle/10138/153461	the new appendix
Health Review:						No specific comments to the text but I commented on the state of evidence and key messages in the expert consultation for this tekst part, which will feed into the next version of this	
Johannes Langemeyer	Ch.2	70	1892	79	9	tekst part	Thanks
UNEP-WCMC: The							
Biodiversity Indicators						Excellent use of these data; very important to retain.	1
Partnership (BIP)	Ch.2	70	1893	70	1903	3	Thanks
Thomas Brooks	Ch.2	70	1893	70	1903	Excellent use of these data; very important to retain.	Thanks
							1
						Even though the fundamental reference (Allen et al. 2014) is of high confidence, it should be noted that the relative shortlisting of medicinal plants presents significant omissions. Some cases of ommitted medicinal plants worth mentioning are: Paeonia parnassica Tzanoud. (Annex II of the Habitats directive), Mandragora officinarum L. (Annex IV of the Habitats	
						cases of unimited influential plants worth menutioning arise. Faetunin partiassina Lzanoud. (Animex it of the hadrest officerative), Menutional partiassina (Edge, Also in the Red Data Book of Rare and Thretened plants of Greece - Phitos D, Constantinition T & Kamari G, (edg.) 2009, Hellenic Botanic Society, Patra, Greece, 2 Vols, ISBN 978-	Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						960-9407-12-0 - are listed three species of Sideritis (the Greek Mountain Tea): S. euboea Heldr. (Endangered) S. raeseri Boiss. & Heldr. Subsp. attica (Heldr.) Papan. & Kokkini (Vulnerable)	
Epameinondas						S. sipylea Boiss. (Endangered). It should also be noted the total absence of Apiaceae plant Family from the fundamental reference, a significant omission since Apiaceae taxa relate to	text, and due to other priorities we could not follow up on this comment in
Evergetis	Ch.2	70	1894	70	1901	above 10% of the medicinal taxa in numerous herbals of the past (Evergetis & Haroutounian, 2015).	the new appendix
Health Review:	ch a		4000				Advantage
Valentina Savo	Ch.2	70	1896	70	1896	Change "3 Vulnerable (VU), 6 Endangered (EN), but none Critically Endangered (CR)" into 'three are Vulnerable (VU), six Endangered (EN), but none Critically Endangered (CR)'	Adapted Thanks for the valuable comment; due to a need for drastic downsizing the
	I			1			whole health section, we were not able to incorporate this into the new
	I			1			text, and due to other priorities we could not follow up on this comment in
Hanna Skryhan	Ch.2	70	1903	71	1 1906	the table isn't suitable here, replace to Ch.6 or delete	the new appendix
Health Review:							
Valentina Savo	Ch.2	70	1905	71	1906	The second row of the table has a different column size from the others	Adapted
Health Review:	I			1		In Table 2.7 should be added: The Nagoya Protocol on access to genetic resources and the fair and equitable sharing of benefits arising for their utilization Regulation (EU) No 511/2014 fight in the Company Declinears and the Course of the	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Epameinondas	1			l		of the European Parliament and the Council of 16 April 2014 on compliance measures for users from the Nagoya Protocol on Acess to Genetic Resources and the Fair and Equitable Sharing of Benefits arising from their Utilization in the Union Commission Implementing Regulation (EU) 2015/1866 of 13 October 2015, laying down detailed rules for the	text, and due to other priorities we could not follow up on this comment in
Evergetis	Ch.2	70	1905	71	1906	implementation of regulation (EU) No 511/2014.	the new appendix
Health Review: Lars						No specific comments to the text but I commented on the state of evidence and key messages in the expert consultation for this tekst part, which will feed into the next version of this	
Bjork	Ch.2	71	1907	79	9	tekst part	Thanks
1	I			1			Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:	I			1		Change "In national CBD reports 12 countries report on medicinal plants (mainly Eastern Europe and Central Asia), albeit mentioning different kinds of information about these species, which makes it difficult to compare (Table 2.8)" into 'In national CBD reports, 12 countries document medicinal plants (mainly Eastern Europe and Central Asia), albeit mentioning	whole health section, we were not able to incorporate this into the new
Valentina Savo	Ch.2	71	1908	71	1911	which makes it dirricult to compare (Labe 2.8) into in hational clab reports, 12 countries document medicinal plants (mainly Eastern Europe and Central Asia), albeit mentioning clifferent kinds of information about these species, making comparisons difficult (Table 2.8).	text, and due to other priorities we could not follow up on this comment in the new appendix
. Sicilia Savo	1	1 1	1500		1,71,	and the decision of the second	
	1			l		Italy and Germany are missing in the list of countries mentioning medicinal plants in their CBD reports. See the 5th Italian CBD report available at https://www.cbd.int/doc/world/it/it-nr-	Thanks for the valuable comment; due to a need for drastic downsizing the
ĺ	I			1		05-en.pdf (at page 47) and related documents at: https://www.politicheagricole.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/7562 Also see the 5th German CBD report available at	whole health section, we were not able to incorporate this into the new
Health Review: Valeria	l			l		https://www.bd.int/doc/world/de/de-nr-05-en.pdf (page 119) Possibly also other countries are missing in the list; I would advise to search within each country report also using	text, and due to other priorities we could not follow up on this comment in
Negri	Ch.2	71	1909	71	1911	"officinal", "pharmaceutical use plants" etc. as key search words	the new appendix

Description 1	1	1						
The state of the control of the co								Thanks for the valuable comment; due to a need for drastic downsizing the
Control Section 1. Control								,
March Marc	Hanna Skryhan	Ch.2	71	1912	72	1913	add the information about other countries of the region	
Part Part	,							Thanks for the valuable comment; due to a need for drastic downsizing the
Section Control Cont								
Seed Notices Control Active 19								· · · · · · · · · · · · · · · · · · ·
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suzanne Skevington Ch. 2 73 1927 73 1934 and Illness. Arnold Publishers and Bath Press, Fourth edition: Chapter 8. Culture and pharmacology. ISBN 0 7506 4789 8 the new appendix					_			
	Suzanne Skevington	Ch.2	73	1927	73	1934	and Iliness. Arnoid Publisners and Bath Press, Fourth edition: Chapter 8. Culture and pharmacology. ISBN 0750647898	the new appendix

	1						<u> </u>
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						Rewrite the full paragraph. Suggested new text 'Among 64 recent studies (2014 – 2017) about medicinal plants, almost half (28) provided information on their pharmacological activity, chemical or genetic characterization (Table 2.20 in Appendix 2.7.3). Several focused on the pharmacological activity of folk medicinal plants (some examples in Table 2.10). Information	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	73	1928	73	1934	on the pharmacological activity can be important for local users: see Table 2.11 or some examples on the pharmacological activity or lock medical activity can be important for local users: see Table 2.11 or some examples.	the new appendix
Valentina Savo	CIIIZ	,,,	1320	,,,	1354	on the philimeological destrict an of important to recard decision of the complex.	the new appendix
						Additional relevant literature for 2.2.2.4.2 Medicinal plant knowledge- Traditional medicinal knowledge is given bellow for your consideration	
						Bartha SG, Quave CL, Balogh L, Papp N. Ethnoveterinary practices of Covasna County, Transylvania, Romania. J Ethnobiol Ethnomed. 2015 May 6;11:35	
						Staub PO, Casu L, Leonti M. Back to the roots: A quantitative survey of herbal drugs in Dioscorides' De Materia Medica (ex Matthioli, 1568). Phytomedicine. 2016 Sep 15;23(10):1043-52.	
						Kujawska M, Klepacki P, Łuczaj Ł. Fischer's Plants in folk beliefs and customs: a previously unknown contribution to the ethnobotany of the Polish-Lithuanian-Belarusian borderland. J	
						Ethnobiol Ethnomed. 2017 Mar 23;13(1):20. Mayer M, Zbinden M, Vogl CR, Ivemeyer S, Meier B, Amorena M, Maeschli A, Hamburger M, Walkenhorst M. Swiss ethnoveterinary knowledge on medicinal plants - a within-country	
						wayer my, Zumuen my, vogi Ch, iverneyer S, iverer B, Amorena M, maeschim A, namoriger m, waitermioris m, swiss emmoverentiary knowledge on medicinal plants - a within-country comparison of Italian speaking regions with north-western German speaking regions. J Ethnobiol Ethnomed. 2017 Jan 3;13(1):1.	
						Calvo MI, Cavero RY. Medicinal plants used for ophthalmological problems in Navarra (Spain). J Ethnopharmacol. 2016 Aug 22;190:212-8	
						Rivera D, Verde A, Obón C, Alcaraz F, Moreno C, Egea T, Fajardo J, Palazón JA, Valdés A, Signorini MA, Bruschi P.Is there nothing new under the sun? The influence of herbals and	
						pharmacopoeias on ethnobotanical traditions in Albacete (Spain). J Ethnopharmacol. 2017 Jan 4;195:96-117.	
						Söukand R, Pieroni A. The importance of a border: Medical, veterinary, and wild food ethnobotany of the Hutsuls living on the Romanian and Ukrainian sides of Bukovina. J	
						Ethnopharmacol. 2016 Jun 5;185:17-40.	
						Valiakos E, Marselos M, Sakeliaridis N, Constantinidis T, Skaltsa H.Ethnopharmacological approach to the herbal medicines of the "Elements Alpha to Delta" in Nikolaos Myrepsos' Dynameron. Part II. J Ethnopharmacol. 2017 May 10. pii: S0378-8741(17)30318-5	
						Oylaikos E, Marselos M, Sakellaridis N, Constantinidis T, Skaltsa H. Ethnopharmacological approach to the herbal medicines of the "Antidotes" in Nikolaos Myrepsos' Dynameron. J	Thanks for the valuable comment; due to a need for drastic downsizing the
						Ethnopharmacol. 2015 Apr 2;163:68-82.	whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
Theofilos Poutahidis	Ch.2	73	1935	75	1975		the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						A paragraph cannot be constituted by a single sentence (which by the way is too long). Suggested new text: "Traditional medicine is defined here according to the World Health	whole health section, we were not able to incorporate this into the new
Valentina Savo	Ch.2	73	1936	73		Organisation 4. Traditional medicine is the body of "knowledge, skills, and practices based on the theories, beliefs, and experiences indigenous to different cultures, whether explicable or not, used in the maintenance of health as well as in the prevention, diagnosis, improvement or treatment of physical and mental illness."	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	CII.2	/3	1930	/3	1335	not, used in the maintenance of health as wen as in the prevention, diagnosis, improvement of treatment of physical and mental niness.	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	73	1936	73	1939	After these new two sentences I would add another sentence because the paragraph seems incomplete and there is no logical flow to the next paragraph	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						Change "The importance of biodiversity-derived medicines for population health has been widely reported, with the WHO estimating that 70-80% of the global population depend on some form of traditional or indigenous medicinal knowledge for their primary health care (Ekor, 2014)"into 'The importance of traditional medicines has been widely reported, with the	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	73	1940	73	1942	WHO estimating that 70-80% of the global population depend on some form of traditional or indigenous medicinal knowledge for the primary health care (Ekor, 2014) into the misportance or traduction and extension of the global population depend on some form of traditional or indigenous medicinal knowledge for their primary health care (Ekor, 2014)	the new appendix
Health Review:	Citz	73	1510	,,,	13-12	The Community that is a constitute proposation depend on some form of traditional or morphological including and the primary region and proposation depend on some form of traditional or morphological including and the primary region and proposation depend on some form of traditional or morphological including and the primary region and the pr	the new appendix
Valentina Savo	Ch.2	73	1945	73	1945	Change "by both written and oral ways" into 'through both oral histories and witten texts'	Adapted
						Change "Plant use has formed the basis of European Traditional Medicine since at least the Middle Ages (fifth to fifteenth centuries AD), with more specialised use of plants, such as	
						homeopathy and the extraction of alkaloids, emerging from the nineteenth Century onwards (Allen et al., 2014; Firenzuoli & Gori, 2007; Petrovska, 2012; C. L. Quave, Pardo-De-Santayana, & Pieroni, 2012)" into "Plant use has been at the basis of the European Traditional Medicine since at least the Middle Ages (fifth to fifteenth centuries AD), with more	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:						Santayana, & Pieroni, 2012) into "plant use has been at the base of the European i radiitional Medicine since at least its minidule Ages (Intit to interent centuries Au), with more specialised use of plants, such as homeopathy or the extraction of alkaloids, emerging from the intertenth century onwards (Allen et al., 2014; Fienzuoli & Gori, 2007; Petrovska, 2012;	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	73	1945	73	1949	Specialised use of plants, such as indirectation of alkadions, enlerging from the infleteenth Century of wards (when et al., 2014, Friedzoon & 3011, 2007, Fettovska, 2012, Quave, Pardo-De-Santayana, & Pieroni, 2012)*	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:						Change "Central Asian herbalism has been strongly influenced by Greek, Indian and Chinese, later by Arabic traditions (Eisenman et al., 2014)" into 'Central Asian herbalism has been	text, and due to other priorities we could not follow up on this comment in
Valentina Savo Health Review:	Ch.2	73	1950	73	1952	initially influenced by the Greek, Indian and Chinese traditions, and later by the Arabic ones (Eisenman et al., 2014)"	the new appendix
Valentina Savo	Ch.2	73	1953	73	1058	The few sentences of this paragraph still belong to the previous one	Thanks for the valid suggestion, we will correct this
Valentina Savo	CILZ	/3	1555	/3	1330	Change "This results in a very rich pharmacopoeias and a profound local knowledge surrounding medicinal plants. Due to the differing traditions the approach towards products of	Thanks for the valuable comment; due to a need for drastic downsizing the
						herbal origin is remarkably different from country to country (e.g. (A. Máthé, 2015; Payyappallimana & Subramanian, 2015))" into 'These transformations resulted in a very rich	whole health section, we were not able to incorporate this into the new
Health Review:						pharmacopoeia and a diverse local knowledge about medicinal plants. As a result, the diversity in traditions has let to different approaches towards products of herbal origin in various	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	73	1955	73	1958	ECA regions (e.g., Máthé, 2015; Payyappallimana & Subramanian, 2015).'	the new appendix
						Suggested new text: 'In literature, a wide diversity of medicinal plant species are taken into account and a wide range of medicinal uses are identified. According to a recent literature	Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						search we found many recent studies (2014 – Feb 2017) focusing on traditional medicine, either in new ethnobotanical studies in which traditional medicinal knowledge holders are consulted (Table 2.10) or in review studies (Table 2.11). Several studies suggest that there is need for further ethnobotanical research on traditional medicines. We highlight some key	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	73	1959	73	1965	Consume (Table 2.1.1). Several studies (Table 2.1.1). Several studies suggest that there is need for further ethilopotamical research on traditional medicines, we nignight some key arguments extracted from these studies in Table 2.1.2.	the new appendix
Health Review: Valeria							This was a mistake, the wrong table references are used here; will be
Negri	Ch.2	73	1959	75	1974	Line 1959: not 25 but 12 papers listed in the tables mentioned below	corrected
							Thanks for the valuable comment; due to a need for drastic downsizing the
						The bland of analysis of the different ways and the same ways are the same and the	whole health section, we were not able to incorporate this into the new
Graciela Rusch	Ch.2	74	1967	74	1967	The kind of conclusions of the differnent papers are somewhat disparate. Would it be possible to refer to the effectivess of the treatement or any indicator of curative value? Adding the degree of certainty about the findings would be useful, if possible.	text, and due to other priorities we could not follow up on this comment in the new appendix
Sacicia nascii		, · ·	1507	74	1507	The state of the s	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
							text, and due to other priorities we could not follow up on this comment in
Hanna Skryhan	Ch.2	74	1967	74	1973	delete table 2.10 and table 2.11	the new appendix
							There has for a the control has been considered as a first of the state of the stat
						Natural compounds have been identified as a useful source of bioactive molecules with promising neuroprotective capabilities. In the present report, we investigated whether extracts derived from two ubiquitous Mediterranean plants namely, the prickly pear Opuntia ficus-indica (EOFI) and the brown alga Padina pavonica (EPP) alleviate neurodegenerative	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review: Sandra						uerree from two uniquitous wieurierraiem plants inamely, tier pincky pear Opinitia incus-mora (corr) and the provint age a fautier payonital circly alleviate incum objective plants in the provint age and payonital circly alleviate incum objective plants in the provint age and payonital circly alleviate incum objective plants in plants of the province plants in the province payonity and payonital payonital circly alleviate plants in the provint age and payonital payonital circly alleviate plants in the province payonital payonital circly alleviate plants in the provint age and payonital payonital circly alleviate plants in the provint age and payonital payonital circly alleviate plants in the provint age and payonital circly alleviate plants in the provint age and payonital circly alleviate plants in the provint age and payonital circly alleviate plants in the provint age and payonital circly alleviate plants in the provint age and payonital circly alleviate plants in the provint age and payonital circly alleviate plants in the provint age and payonital circly alleviate plants in the provint age and payonital circly alleviate plants in the payonital circle plan	text, and due to other priorities we could not follow up on this comment in
C. Buttigieg	Ch.2	74	1967	74		Cauchi, R. J. (2017). Extracts from two ubiquitous Mediterranean plants ameliorate cellular and animal models of neurodegenerative proteinopathies. Neuroscience Letters, 638, 12-20.	the new appendix

						T	
Health Review: Valentina Savo	Ch.2	74	1967	74	1068	Change "focusing on establishing evidence regarding local traditional medicine" into "focusing on the pharmacological activity of some plants used in local traditional medicine'	This table is now deleted
Health Review:	CILZ	/-	1507	,,	1300	critings recoming on establishing experience regarding rocal traditional medicals and rocal single rocal regarding rocal traditional medicals.	This table is now deleted
Valentina Savo	Ch.2	74	1968	74	1969	in the line of Bulgaria it seems that a reference is missing	This table is now deleted
Health Review:							
Valentina Savo	Ch.2	74	1968	74	1969	In the line of Bulgaria: Change "Antiviral potential of n medicinal plants used in folk medicine" into 'Antiviral potential of medicinal plants used in folk medicine' In the line of Bulgaria: Change "Inconstant ecological factors lead to variation in content and volume of plant secondary metabolites, pleading for in vitro cultivation of plant species in	This table is now deleted
Health Review:						optimal constant (non-changing) environment" into Tinconstant ecological factors lead to a variation in content of plant secondary metabolities. The study suggested in vitro cultivation of optimal constant (non-changing) environment" into Tinconstant ecological factors lead to a variation in content of plant secondary metabolities. The study suggested in vitro cultivation of	
Valentina Savo	Ch.2	74	1968	74	1969	plant species in optimal constant (non-changing) environment'	This table is now deleted
Health Review:							
Valentina Savo Health Review:	Ch.2	74	1968	74	1969	In the line of Mediterranean change the reference into (Galasso et al., 2014) Change "Recent (2014 – Feb 2017) studies highlighting different purposes of medicinal plant characterization studies" into 'Recent (2014 – Feb 2017) studies on the various focuses of	This table is now deleted
Valentina Savo	Ch.2	74	1971	74	1972	research on medicinal plants' Tesearch on medicinal plants'	This table is now deleted
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Valentina Savo	Ch.2	74	1971	75	1073	Table 2.11: Change the style of references (Hayta et al., 2014) (Kholina et al., 2014) (Ordak et al., 2016) (Aidarkhanova, Samatova, & Khusainov, 2015)	text, and due to other priorities we could not follow up on this comment in
Health Review:	Cn.2	/4	19/1	/5	1973	l abie 2.11: Change the style of references (Hayta et al., 2014) (Kholina et al., 2014) (Ordak et al., 2016) (Aldarkhanova, Samatova, & Khusainov, 2015)	the new appendix
Valentina Savo	Ch.2	74	1971	75	1973	Table 2.11. In the line of Turkey: you cannot copy and past text from an article unless you use quotes	adapted
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Valentina Savo	Ch 2	74	1971	75	1073	Table 2.11. In the line of Russia Change "Informative for conservation measures, such as e.g. for genetic resources" into 'Informative for conservation measures (e.g., for genetic resources)	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	CII.Z	74	19/1	/5	1973	resources) The survives of the state of the	the new appendix
Yelda Guzel	Ch.2	75	1974	75	1975	structure and deep historical roots to the ethnomedicinal knowledge.	Adapted
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Graciela Rusch	Ch.2	75	1974	75	1074	The issue about property rights in the table (Efferth et al. 2016) on medicinal plants and the commercial use of these species could be brought up into the broader discussion about this NCP.	text, and due to other priorities we could not follow up on this comment in the new appendix
Health Review:	CII.2	/3	1974	/3	1974	NUP.	тне нем аррения
Valentina Savo	Ch.2	75	1974	75	1974	Change "Arguments for ethnobotanical research" into 'Arguments in literature supporting ethnobotanical research'	Adapted
Health Review:							
Valentina Savo	Ch.2	75	1974	75	1975	Table 2.12: Change "(Menale, De Castro, Cascone, & Muoio, 2016) into (Menale et al., 2016)	Adapted
						Table 2.12, in the line of Menale et al., 2016: Change "Recovering ancient knowledge is very important for preserving ethno-biodiversity and to discover new entities for a further	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:						lable 2.12; in the miscon extended at the continue of the continue of the continue of their biological activity" into "Recording traditional medicinal knowledge is very important for preserving biocultural diversity and to rediscover plant uses that can be	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	75	1974	75	1975	interesting for a further evaluation as regards their biological activity	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
						Table 2.21 in the line of Jaric et al., 2015. Change "They warn for over-exploitation, causing some plants to have become exceptionally rare and under threat, leading to the need for their	whole health section, we were not able to incorporate this into the new
Health Review: Valentina Savo	Ch.2	75	1974	75	1075	rational use and protection so as to ensure they are still around for future generations" into 'the authors highlight that over-exploitation is causing some plants to have become exceptionally rare and under threat and they advocate for their rational use and protection so as to ensure they are still around for future generations'	text, and due to other priorities we could not follow up on this comment in the new appendix
valentina savo	CII.2	/3	1374	/3	15/3	exceptionally rate and under unear and they advocate for their rational use and protection so as to ensure they are still abound for future generations	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:						In the line of Mustafa et al., 2015 Change "From a cultural perspective they point at the potential of cross-cultural ethnobiological for fostering collaboration" into 'From a cultural	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	75	1974	75	1975	perspective, they highlight the potential of cross-cultural ethnobiological research fo fostering collaboration'	the new appendix
Health Review: Valentina Savo	Ch.2	75	1974	75	1075	In the line of Pawera et al., 2016 Change "A gap in documentation of traditional knowledge in Kyrgyzstan" into 'Authors highlight a gap in documentation of traditional knowledge in Kyrgyzstan'	Adapted
valentina Savo	CII.Z	,,,	1374	,,	1373	[VI.5](2.101)	Adapted
						In the line of Efferth et al., 2016 Change "Focus their review on biopirarcy: the use of biological resources and/or knowledge of indigenous tribes or communities without allowing them	
						to share the revenues generated out of economic exploitation or other non-monetary incentives associated with the resource/knowledge. They argue that the patenting of herbs or	
Health Review:	Cl. 2		40		46	natural products" into 'Authors focus their review on biopirarcy, which is the use of biological resources and/or knowledge of indigenous tribes or communities without sharing with	Advantad
Valentina Savo Health Review:	Ch.2	75	1974	75	1975	them the revenues generated from any economic exploitation of the resource/knowledge. They argue that the patenting of herbal or natural products' This part is well written and organized, the arguments are important and timely. Minor changes and some comments for develop an argument further. This part pertains the text from	Adapted
Valentina Savo	Ch.2	75	1976	78		ning parts were written and organized, the arguments are important and uniety, windor changes and some comments for develop an argument further. This part percans the text non- page 75 to 78	Thanks
Health Review:						Change "In our fast-changing environment, especially related to increasing urbanisation and changing agricultural practices" into 'In our fast-changing environment, resulted especially	
Valentina Savo	Ch.2	75	1977	75	1978	from an increasing urbanisation and changing agricultural practices'	Adapted
Health Review: Valentina Savo	Ch.2	75	1980	75	1001	Change "(e.g. (C. L. Quave et al., 2012; Sánchez-Mata, María de Cortes, Tardío, 2016) (see also Section 2.2.3.1)" into ' (e.g., Quave et al., 2012; Sánchez-Mata, María de Cortes, Tardío, 2016) (see also Section 2.2.3.1)	Adapted
Valentina Savo	CII.2	/3	1980	/3	1981	20.16) (see also Section 2.2.5.1)	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
The Netherlands:						This paper provides a global-scale overview of demand for medicinal plants: Wolff, S, Schulp, CJE, Kastner, T & Verburg, PH (2017). Quantifying Spatial Variation in Ecosystem Services	text, and due to other priorities we could not follow up on this comment in
Astrid Hilgers	Ch.2	76	1986	76	1993	Demand: A Global Mapping Approach. Ecological Economics, 136, 14-29.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
							text, and due to other priorities we could not follow up on this comment in
Hanna Skryhan	Ch.2	76	1986	76	2001	to short! It's repetition of the information	the new appendix
,							
						Reasons cited for this increased attention have included public desire for affordable health remedies, and a perception that "natural" products are somehow safer and more effective	Thanks for the valuable comment; due to a need for drastic downsizing the
Health Davieur 74						than mainstream medicines. Besides, natural products often provide synergistic action of multiple active compounds, contributing to more than one aliment, which is a usually better	whole health section, we were not able to incorporate this into the new
Health Review: Zorica	Ch.2	76	1990	76	1993	choice in comparison to a target-specific chemical product (Popović et al. 2016). Popović, Z., Matić, R., Bojović, S., Stefanović, M., Vidaković, V. (2016). Ethnobotany and herbal medicine in modern complementary and alternative medicine: An overview of publications in the field of I&C medicine 2001–2013. Journal of ethnopharmacology, 181, 182-192.	text, and due to other priorities we could not follow up on this comment in the new appendix
Health Review:		, ,	1330	70	1555	and the second s	
Valentina Savo	Ch.2	76	1991	76	1991	Change "(FAO, 2005; Marco Leonti & Verpoorte, 2017)" into (FAO, 2005; Leonti & Verpoorte, 2017)'	Adapted

	I	1			1		Thanks for the valuable comment: due to a need for drastic downsizing the
						Migrant populations moving into Europe and Central Asia from other regions have also brought their own traditional knowledge and related medicinal practices with them. Moreover,	whole health section, we were not able to incorporate this into the new
Health Review: Zorica						immigrants often brought particular varieties of common plants, which due to its different origin may significantly differ by the composition and content of secondary metabolites. This	text, and due to other priorities we could not follow up on this comment in
Popovic Health Review:	Ch.2	76	1997	76	1998	also may have a further impact on biodiversity among the native flora.	the new appendix
Valentina Savo	Ch.2	76	2000	76	2001	Change "(Andrea Pieroni et al., 2013; C. L. Quave et al., 2012)" into '(Pieroni et al., 2013; Quave et al., 2012).	Adapted
Mark Rounsevell	Ch.2	76	2002	76		A bit too prescriptive?	We do not think so
Health Review:							
Valentina Savo Mark Rounsevell	Ch.2	76 76	2004 2007	76 76		Change "science-based evidence to local and" into "science-based evidence about local and" Meaning?	Adapted
Mark Rounsevell	Ch.2	/6	2007	/6	2007	Meaning	Adapted Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Zorica						This is particularly important for minority groups who may be representative of local or indigenous communities overseas who traditionally rely on medicinal plant species for their	text, and due to other priorities we could not follow up on this comment in
Popovic	Ch.2	76	2010	76	2011	primary care, and who may be better adapt in new environment due to implementation of knowledge from the country of origin.	the new appendix
Mark Rounsevell	Ch.2	76	2011	76	2012	"should be mainstreamed into national public health care systems": Prescriptive? Re-write as 'if-what' statement, e.g. 'if' this were done 'what' would be the benefits.	Adapted
IVIAIR ROUTISEVEII	Citiz	,,,	2011	,,,	LUIL	and a second control and the second participation of the second control and the second cont	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
Suzanne Skevington	Ch.2	76	2016	76		Relatively little is known about the interactions between prescribed and traditional medicines on psychological and physical health.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
ECA values liaison						Section 2.2.2.4.3 "Public Health Perspectives" perhaps has a better place in 'Health (GQOL 2.3.2)' or in a section on 'Education and knowledge' (Q3). As it is, it does not link clearly to the	text, and due to other priorities we could not follow up on this comment in
group	Ch.2	76	2017	78	2052	NCP part of the framework. Another suggestion would be to delete the section altogether or integrate it with section on medicinal plant knowledge.	the new appendix
						Two additional relevant publications for 2.2.2.4.3 Public health perspectives and Table 2.13 are given bellow for your consideration	Thanks for the valuable comment; due to a need for drastic downsizing the
						Willis C, Sadler-Reeves L, Elviss N, Aird H, Fox A, Kaye M, de Pinna E, Lane C, McLauchlin J. An assessment of the microbiological safety of fresh whole-leaf herbs from retail premises in the	
Health Review:						United Kingdom with a focus on Salmonella spp. J Appl Microbiol. 2015 Sep;119(3):827-33.	text, and due to other priorities we could not follow up on this comment in
Theofilos Poutahidis	Ch.2	76	2017	78	2052	Koleva V, Dragoeva A, Stoyanova Z, Koynova T. A study on current status of herbal utilization in Bulgaria. Part 2: Safety concerns. J Ethnopharmacol. 2016 May 13;183:123-7.	the new appendix
Health Review: Valentina Savo	Ch.2	76	2017	76	2017	Change "2.2.2.4.3 Public helath perspectives" into '2.2.2.4.3 Public health perspectives'	Adapted
valentina Savo	CILZ	,,,	2017	70	2017	Criminge 2.2.2.4.3 r duite relativity perspectives into 2.2.2.4.3 r duite relativity perspectives	Adapted
						Economic viability is one of the main critical factors that influence farmers in choosing breeds and crops. In order to safeguard genetic resources, it is necessary to improve the economic	Thanks for the valuable comment; due to a need for drastic downsizing the
						benefit farmers can derive from using underutilized species, varieties and breeds. This includes promoting new products and encouraging increasing demand by consumers. Research	whole health section, we were not able to incorporate this into the new
Health Review:	Ch 2	76	2047	70	20452	should continue to engage to further harness scientific and technological developments to advance in genomic and phenotypic characterisation, preferably oriented to detect and	text, and due to other priorities we could not follow up on this comment in
Gilberto IGREJAS Health Review:	Ch.2	76	2017	78	20152	evaluate relevant traits associated with, i.a. productivity, robustness, health, welfare, resource utilisation and product quality.	the new appendix
Valentina Savo	Ch.2	76	2023	76	2023	Change "Kassam, Karamkhudoeva, Ruelle, & Baumflek, 2010)" into 'Kassam et al., 2010)'	Adapted
							Thanks for the valuable comment; due to a need for drastic downsizing the
Hardah Bardania							whole health section, we were not able to incorporate this into the new
Health Review: Valentina Savo	Ch.2	77	2026	77	2026	Add a topic sentence	text, and due to other priorities we could not follow up on this comment in the new appendix
Voicitatio 50VO	CITE	.,	2020		2020	tood topic zeriteine.	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
Suzanne Skevington Health Review:	Ch.2	77	2032			'health care strategies' based on cultural beliefs that are not aligned with those of the cultural majority.	the new appendix
Valentina Savo	Ch.2	77	2035	77	2038	The same concept and almost the same sentences are repeated few lines above (1997-2001). There is even the same little mistake in the reference style	Adapted
Health Review:							
Valentina Savo	Ch.2	77	2037	77	2038	Change "(Andrea Pieroni et al., 2013; C. L. Quave et al., 2012)" into '(Pieroni et al., 2013; Quave et al., 2012).	Adapted
						I would argue that this is not a problem for the new country of residence, since immigrants might plant their favorite plants but they do not gather them in the wild. This is because plants do not grow in the same familiar environment as back home, have different life forms or grow in different conditions that affect the 'medicinal power'. Instead, I would say that	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:						plants up to grow in the same infiliation infiliation in the same infiliation	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	77	2040	77	2043	localiy)	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Hanna Skryhan	Ch.2	77	2044	78	2052	to replace to Ch.6 (policy instruments)	text, and due to other priorities we could not follow up on this comment in the new appendix
Ski yildii		- "	2044	70	2002	construction of the same and th	Thanks for the valuable comment; due to a need for drastic downsizing the
						Marketed products also have problems of contamination, adulteration, approximative determination of the content of active principles) there are also cases where different plant parts	whole health section, we were not able to incorporate this into the new
Health Review:	ch a	77		77		have quite different contents of active principles (see for the example the case of Kava (see Martin, A.C., Johnston, E., Xing, C. and Hegeman, A.D., 2014. Measuring the chemical and	text, and due to other priorities we could not follow up on this comment in
Valentina Savo Health Review:	Ch.2	//	2044	- //	2045	cytotoxic variability of commercially available kava (Piper methysticum G. Forster). PloS one, 9(11), p.e111572.)	the new appendix
Valentina Savo	Ch.2	77	2051	78	2052	Table 2.13 in the line of (Dhami & Mishra, 2015) remove "and" from the first line or use a comma instead of a colon	Adapted
Health Review:							
Valentina Savo Health Review:	Ch.2	77	2051	78	2052	Table 2.13 in the line of (Calapai, 2008): Add a comma before and after "which may be based on traditional practice"	Adapted
Health Review: Valentina Savo	Ch.2	77	2051	78	2052	Table 2.13 in the line of Chan, 2003; Ekor, 2013. Remove the extra parenthesis	Adapted
TELEVISION DOVO		"I	2031	70	2032	Section 2.2.3 on non-material NCPs will overlap to some extent with Section 2.3 on Good Quality of Life. This is unavoidable and not that problematic. Although a statement about the	
						difference between use and value has been added to 282-285, we would suggest to explain that value and NCP are so strongly intertwined, that certain overlap between them could not	
ECA values liaison						be avoided. Note that the statement 'For the assessment of an ecosystem service capacity or use we consider only if it is valued, not how it is valued' has not been followed that	
group	Ch.2	78	2054	78	2058	consistently in Section 2.2.3, but some other comments will highlight this individually.	this is now addressed in chapter 1 section on value

	П						
						The whole section on 'Learning and knowledge generation' is interesting and matches quite nicely with the propose NCP. However, you will have noticed that there is a GQOL category	
						'education and knowledge' which overlaps strongly but is currently not mentioned in section 2.3. Two different lengthy sections on such overlapping topics seem unnecessary, but please	1
ECA values liaison						at least mention in section 2.2.3.1 that there is overlap with GQOL and, vice versa, mention in section 2.3 that education and knowledge is covered in section 2.2.3.1. Alternatively, you	section 2.1.1 now expalins the structure of chapter 2 and the realtionship
group	Ch.2	78	2059	83	2241	could consider shortening the section in 2.2.3.1 and moving a part to 2.3 that relates more strongly to GQOL.	between GQOL and NCP
ECA values liaison	Ch 2	78	2059			The name of this section does not quite match the NCP category. Please consider updating it to 'Learning and Inspiration' or link it to the NCP category, and reflect to what extent 'inspiration' is covered.	section title changed and inspiration is also focussed on in section 2.2.3.2.2 on aesthetic experience
group Mark Snethlage	Ch.2	78	2059			Inspiration is covered. Suggested additional refs: Gorenflo, L. J., Romaine, S., Mittermeier, R. A., & Walker-Painemilla, K. (2012). Co-occurrence of linguistic and biological diversity in biodiversity hotspots and	on aesthetic experience
iviaik siletiliage	CII.2	/6	2000			Suggested additional relia. Got relimity, E. 3, official reliable, S. 3, white interfer, N. A., waken relimined States of American (1992), Coolcul relice of impusite, and biological university in university in university in university of interfer. N. A., waken relimined States of American (1992), 8032—7. http://doi.org/10.1073/pnas.1117511109	
						Axelsen, J. B., & Manrubia, S. (2014). River density and landscape roughness are universal determinants of linguistic diversity. Proceedings of the Royal Society of London B: Biological	
						Sciences, 281(1784).	
						Grant, C. (2012). Analogies and links between cultural and biological diversity. Journal of Cultural Heritage Management and Sustainable Development, 2(2), 153–163.	
						http://doi.org/10.1108/20441261211273644	Gorenflo added but other two not used due to space constraints and maafi
		1					2005 used instead
Johannes Langemeyer	Ch 2	78	2067	78	2077	Evidence and further explanations needed.	this section has been rewritten and now includes more references as evidence and explanations
Germany	Ch.2	78	2069	78		Evidence and universe explanations receive. This information would be useful to include in the SPM (p. 16, ll 410 ff) and link this with the discussion of languages in chapter 2, p. 80, l. 2139-2156	this is mentioned in SPM
Health Review:							space prevetned the menion of such case studies and evidence used is from
Malcolm Ward	Ch.2	79	2079	79	2082	UK example od Ecoschools at http://www.eco-schools.org.uk/	peer reviewed literature
Graciela Rusch	Ch.2	79	2083	79	2088	This paragraph is a bit difficult to follow.	this has been rewritten
						Please remove this section which refers to economic value and suggest it as an addition to the authors of Section 2.3.5. Because it is not a measure of the status and trend of NCP	
FCA						capacity or use, it is out of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value types (health, diversity & options, security	this has been seemed from the standard and the standard and the
ECA values liaison group	Ch 2	70	2083	79	2000	etc.) are not being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of importance of the NCP. Finally, the valuation method is not always clearly mentioned.	this has been removed from chapter 2. economic valeue is now covered in section 2.3.5 and other forms of vlaue in sections 2.3.1-2.3.4
Mark Rounsevell	Ch.2	79	2113	80		Defined elsewhere, so no ende to repeat here	Ok
Mark Snethlage	Ch.2	80	2135	-		possible additional refs: BABAI D. & MOLNÁR ZS. (2013): Multidimensionality and scale in a landscape ethnoecological partitioning of a mountainous landscape (Gyimes, Eastern	
						Carpathians, Romania). Journal of Ethnobiology and Ethnomedicine 9:11.	We are adding the suggested references in the supplementary material.
						MOLNÁR ZS. & BABAI D. (2009): Folk plant knowledge in Gyimes I.:Plant names, folk taxonomy, plant knowledge on individual and community level (in Hungarian). Botanikai	Unfortunately we were also requested to edit down the whole chapter, and
		1				Közlemények 96:117-143.	particularly this section.
						An evidence base and explanation on how biodiversity (loss) and linguistic diversity (loss) are related is not given. Suggestive statements like those introduced on this connection might	
Johannes Langemeyer	Ch.2	80	2139	80	2072	undermine the overall credibility of the assessment. "which has usually rewarded those farmers who produced more at the expense of supporting smaller farms": This was true in the past, but the MacSharry reforms of the mid 1990s	Now it is completely reworded
						winci has usually revaried unless farmers wing produced unler at the experise of support and sharing relative to the interest, but the watering relative to the mine past, but the watering relative to the mine past provided additional payments to less Favoured Areas, see that situation with greater 'protection' for smaller farmers and less for large farms. Also the CAP has for a very long time, provided additional payments to less Favoured Areas,	
Mark Rounsevell	Ch.2	82	2191	82	2192	which might also support ILK holders. I'd suggest re-phrasing.	Not applicable in the current version
Graciela Rusch	Ch.2	82	2191	82		Should these issues about policies be dealt with in Ch 6? It would provide a more consistent structure among the different NCPs, because policy instruments are treated in only a few.	Yes, we agree. So we leave this out
Graciela Rusch	Ch.2	82	2211	82	2219	The statements here are a bit unclear.	We delete this pragraph
Germany	Ch 2	83	2229	80	2226	"There is enough evidence about the role of ILK as a reservoir of knowledge for guarantying food security and health in Europe." This sentence needs to be explained more clearly. In how far can ILK guarantee food security and health? In general ILKP is seen as very positive - are there instances of overuse/misuse associated with ILKP in ECA?	We delete this pragraph
Graciela Rusch	Ch.2	83	2229	83		The connection between ILK and food security is unclear. Please, explain this.	We delete this pragraph
ECA values liaison						This text on guaranteeing food security and health has some overlaps with Section 2.3, especially with text on relations between NCP and GQOL, and / or text on food security and	
group	Ch.2	83	2229	83	2236	health. Please reconsider if it should stay here in 2.2.3 or if it can be moved to Section 2.3. It is a great statement with stand-alone value, so it could be moved quite easily.	We delete this pragraph
Johannes Langemeyer ECA values liaison	Ch.2	83	2242			I suggest to use a coherent subdivision of this section either along the lines of activities or ecosystems (but not mixed) to avoid repetitions in the text.	We keep the subidivision of activities
group	Ch.2	83	2242			In the IPBES NCP classification, this NCP is just named Physical and Psychological experiences. Please consider updating the heading to match the NCP category, and throughout the section. Consider to account for this in Table 2.1 (line 289-290) as well.	Suggestion accepted
group	CILE	- 03	2242			Section: Consider to decount for this in Table 2.2 (line 207 230) as wen.	Juggestion accepted
						Quality of life is an important psychological experience, yet is not included in this section. Needs to be acknowledged in the introductory para. There is little international empirical	
						evidence to evaluate the relation between biodiversity, health and quality of life (Skevington, 2009), despite good qualitative evidence from cultural case studies. Ref: Skevington S.M.	
Health Review:						(2009) Quality of life, biodiversity and health: observations and applications. In' Biodiversity Change and Human Health: from ecosystem services to spread of disease'. Eds O.E. Sala,	Quality of life has a whole section, 2.3. , which includes health and the
Suzanne Skevington	Ch.2	83	2242			L.A.Meyerson, and C Parmesan: SCOPE 69, Island Press, Washington and London. Chapter 15. ISBN-13 978 1 59726 497	contributions of this NCP.
Haralita Baratana						Additional evidence at the Natural Resources Wales annual Welsh Outdoor Recreation Survey - https://naturalresources.wales/evidence-and-data/research-and-reports/welsh-outdoor	The defended to the first term of the second
Health Review: Malcolm Ward	Ch 2	83	2242	84	2276	recreation-survey/?lang=en with Summary Report for 2016 at: https://naturalresources.wales/media/681025/welsh-outdoor-recreation-survey-key-facts-for-policy-and-practice- 2016.pdf	Thanks for this inputhowever, we try to cite the scientific literature as it is requested
IVIAICUIII WAIU	CILZ	03	2242	84	22/0	1-couper	Accesability is already mentioned in this section as a key factor determining
Finnish Government	Ch.2	83	2243	88	2377	take into account the importance of open access condictions on recreational use of nature	the experience of nature
Graciela Rusch	Ch.2	83	2244	83		suggest to use 'nature-based tourism' instead of ecotourism. In any case, use the same term consistently throughout. In places 'nature' tourism is used.	Suggestion accepted
Health Review: Julie							
Garnier	Ch.2	83	2253	83		Birding should also be mentioned since it has become the number one hobby in some countries such as UK	We added wildlife tourism (not only birding) in this list
Mark Snethlage	Ch.2	83	2258	83	2265	Although there may be a correlation between areas people prefer for outdoor recreation and nature, a recent study from the UK showed that the nature (biodiversity) value of sites is not what draws the peoples' choices. Hornigold, K., Lake, I., & Dolman, P. (2016). Recreational Use of the Countryside: No Evidence that High Nature Value Enhances a Key Ecosystem	
						not what draws the peoples' choices. Hornigola, K., Lake, I., & Uoliman, F. (2016). Recreational Use of the Countryside: No Evidence that High Nature Value Enhances a Key Ecosystem Service. PLOS ONE, 11(11). Be 0165043. http://doi.org/10.1371/journal.pone.0165043	Many thanks for this information. We add this reference
Mark Snethlage	Ch.2	83	2258			Service: PLOS ONE, 11(11), PLOSOUS. http://doi.org/10.1571/journas.pune.ui.osous3 I miss in the discussion the important sector of wildlife watching, and in particular bird watching which is a booming tourist business. For example, Extremadura has seen the	mony cross for this information, we due this reference
	l					development of a wide range of services (guided tours, bed and breakfast etc) focusing on wildlife watching. Bird watching is only mentioned under the iconic species section, but it is	
						much more than that. Several valuation studies have been done to assess the effect of the return of iconic species on the local economy, through growth in tourism: e.g.: Molloy, D,	We added birdwatching in this list and the references recommended by
						2011. Wildlife at work. The economic impact of white-tailed eagles on the Isle of Mull. The RSPB, Sandy. http://www.rspb.org.uk/Images/wildlifeatwork_tcm9-282134.pdf; Bryden, D.M.,	reviewer. We are aware about this service, but we did not find in the review
						Westbrook, S.R., Burns, B., Taylor, W.A., and Anderson, S. 2010. Assessing the economic impacts of nature based tourism in Scotland Scottish Natural Heritage Commissioned Report No.	F
						398. http://www.snh.gov.uk/docs/B726802.pdf	Central Asia. We are aware about this knowledge gap and we highlight it in
							the corresponding section of knowledge gaps. We also add new information about the economic values of the NCP in a new section on values.
1	l				l	1	about the economic values of the NCP in a new section off Values.

							The literature and reports consulted do not give us evidence about a
Johannes Langemeyer	Ch.2	84	2273	84	2276	is this due to changing behaviour (as suggested) or simply due to the fact that the area considered as PA has increased?	possible cause, so we cannot add the explanation here
							Although we are confindent about the data provided in this figure because
		84	2278			The figure os AAVR cannot be right considering the populations of Finland and the UK. Furthermore, the very low rates in Finland, and no visitors in the UK in the late 1990's are suspicious.	we used peer-review papers as a source of information; we decide to
Finnish Government	Ch.2	84	22/8	84	22/8	suspicious.	remove it .
							Yes, that's right! This is why this is explained earlier in the text. Figure 2.50
							only refers to protected areas, but we also highlight the role of these
						Most of the nature recreation (especially those in table 2.14) in many countries takes place in commercially managed forests (Nordic countries), in meadows and fields, closeby	ecosystems in providing recreational services. We have removed the
Finnish Government	Ch.2	85	2285	85	2289	waterways notwithstanding their protection status, or in neighbouring semi-natural environment (forested parks etc.). E.g. Sievänen et al. 2004	statement about protected areas to avoid any misreading.
IPBES Knowledge and							
Data Task Force (KD							
TF)/ Task Group on Indicators (TGI)	Ch.2	95	2291	85		The graph of Percentage of areas covered by protected areas can be replaced to the graph which TGI provided	We add the figure prepare by the knowledge task force
indicators (101)	CII.2	83	2291	83		The graph of Percentage of areas covered by protected areas can be replaced to the graph which to provided	Following the suggestions of other reviewers and because the wording
Johannes Langemeyer	Ch.2	86	2296			Double check table. It is not clear what the nummber in the table mean (Why do they not sum 100 if they are %?)	limitation, we drop this table out.
,						Recreational fishing is given more attention than in the FOD but this table (rerferring to it only as angling) suggests it is only important in the UK, which is surely wrong. And see lines 2494	
Allan Watt	Ch.2	86	2296	86	2299	2495 for some other data.	limitation, we drop this table out.
Hanna Skryhan	Ch.2	86	2296	86	2299	delete the table! It doesn't has value for the chapter	Suggestion accepted
						More data on particularly hunting participation rates can be found in Schulp, CJE, Thuiller, W & Verburg, PH (2014). Wild food in Europe: A synthesis of knowledge and data of terrestrial	Many thanks for this suggestionas we must shorten the text we did not
The Netherlands:	Ch.2	06	2200	0.0	2299	wild food as an ecosystem service. Ecological Economics, 105, 292-305.	include this metadata, but some information about participation in hunting
Astrid Hilgers	CII.Z	86	2298	86	2299	Use more recent participation rates for Finland: Sievänen, Tuija; Neuvonen, Marjo (Eds.) 2011. Luonnon virkistyskäyttö 2010. Metlan työraportteja, Working Papers of the Finnish Forest	is provided Following the suggestions of other reviewers and because the wording
Finnish Government	Ch.2	86	2298	86	2298	Use more recent participation rates for riniand: Slevamen, July, Neuvonen, Marjo (Eds.), 2011. Luonnon virkistyskäyttö. 2010. Metian työraporttejä, Working Papers of the rinnish Forest Research Institute 212: 190 s Finnish Forest Research Institute, Metsähntutkimuslaitot.	limitation, we drop this table out.
Health Review: Julie		55		- 55			Following the suggestions of other reviewers and because the wording
Garnier	Ch.2	86	2298	86	2298	Same as above 95.	limitation, we drop this table out.
Finnish Government	Ch.2	86	2315	86	2315	reword recreation experience increases -> improves	Not applicable in the current version
Johannes Langemeyer	Ch.2	86	2317	87	2318	What about the Black Sea, Caspian Sea and the Eastern Mediterranean?	Not applicable in the current version because the required shorten
	Ch.2	06	2247	87	2240		We could not find these numbers for all the countries of the ECA region.
Johannes Langemeyer	Cn.2	86	2317	87	2318	More intuitive (and comparable) than monetary values would be amounts of visitors. I assume such numbers could be quite easily be found. Please remove this section which refers to economic value and suggest it as an addition to the authors of Section 2.3.5. Because it is not a measure of the status and trend of NCP	Anyway, this is not applicable in the current version.
						rease relived in section wind releast decommendate and suggest it as an adultion to the admission section (2.5.). Because it is not a free assumed in the as	
ECA values liaison						etc.) are not being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of importance of the NCP. Finally, the valuation	
group	Ch.2	86	2317	87		method is not always clearly mentioned.	Suggestion accepted
						The distinction between different ecosystem types provides good structure to this section. An effort to organize the sections of the other NCP would be desirable. For instance, the	Thanks for this comment. However, because we were asked to shorten the
						section about food provision refers barely to agro-ecosystems and agricultural landscapes. this distinction would also be useful to identify which are the ecosystems that are most	text, this section has been merged as we all NCP follow now the same
Graciela Rusch	Ch.2	87	2324	87	2324	important for the generation for each NCP.	storyline
Firetal Community	Cl. 3	87	2225	87	2224	Additional to the Fall Control of the Control of th	Because wording limitation, we do not add the specific names of the
Finnish Government	Ch.2	87	2325	87	2331	add Finland in this list (Sievänen & Neuvonen 2011)	coutries, but just we refer to the subregions. Because wording limitation, we do not add the specific names of the
Finnish Government	Ch.2	87	2325	87	2331	and in Finland (Sievānen et al. 2004).	coutries, but just we refer to the subregions.
						This is a too far-reaching conclusion on few, geographically limited areas. Preferences are culture dependent, and these conclusions are not valid in countries where conifers are part of	
Finnish Government	Ch.2	87	2332	87	2335	the natural species. Furthermore, recreationists usually prefer variance over homogeneity in forest landscape.	We have deleted this paragraph
Finnish Government	Ch.2	87	2338	87	2338	remove word "preserving"	We have deleted this paragraph
						However, visitors make trade-offs between the different factors in the recreations sites, for example they might accept lower biodiversity level to gain prefered scenery or easier access	
Finnish Government	Ch.2	87	2339	87	2220	(Horne et al. 2005). Reference: Horne, P., Boxall, P.C. & Adamowicz, W.L. 2005. Multiple-use management of forest recreation sites: a spatially explicit choice experiment. Forest Ecology and Management 207: 189-199.	We have deleted this paragraph
Finnish Government	Cn.2	87	2339	87	2339	and wanagement 20: 189-199. Please remove this section which refers to economic value and suggest it as an addition to the authors of Section 2.3.5. Because it is not a measure of the status and trend of NCP	we have deleted this paragraph
						rease remove this sout of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value types (health, diversity & options, security	
ECA values liaison						tect, are not being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of importance of the NCP. Finally, the valuation	
group	Ch.2	87	2340	87	2342	method is not always clearly mentioned.	Suggestion accepted
Finnish Government	Ch.2	87	2353	87	2355	mysterious expresson	We have deleted this paragraph
						The section on 'urban systems' (I assume 'urban green and blue spaces' would be a more appriate title) is poorly developed, given that urban green spaces are both in terms of visits and	
						visitors the most important ecosystems for recreational activities at all. Several references are outdated (e.g. Bolund & Hunhammar, 1999) and wrongly cited (Camps-Calvet et al., 2016). Several reviews on urban ES, including recreation, have not been considered, including: Haase D, Larondelle N, McPhearson T, Schwarz N, Hamstead Z, Kremer P, Langemeyer J, Elmqvist T	
						Several reviews on union 12, including rectaculum, never not user including, indexed by Autonometry, Autonometry, increasions, Jackwar 24, Introduced 2, Nemier 7, Enigency 1, Juny 18 of the Lat (2014): Quantitative review of urban ecosystem services assessment: Concepts, models and implementation. AMDIO, 43:413–433. DOI 10.1007/s13280-014-050 04/2014 by 18 of the Concepts of the	
						10.1007/s13280-014-0504-0 http://link.springer.com/content/pdf/10.1007%2Fs13280-014-0504-0.pdf; 8. Gómez-Baggethun E, Gren Á, Barton DN, Langemeyer J, McPhearson T,	
						O'Farrell P, Andersson E, Hamstead Z, Kremer P (2013). Urban Ecosystem Services. In Elmqvist T. (Ed.): Urbanization, biodiversity and ecosystem services. Springer Netherlands: 175-251.	We follow a systematic review for all the NCP with a clear searching string
						DOI 10.1007/978-94-007-7088-1_11 http://link.springer.com/content/pdf/10.1007%2F978-94-007-7088-1_11.pdf; GÓMEZ-BAGGETHUN, Erik; BARTON, David N. Classifying and valuing	and unfortunately these papers did not appear. Having siad this, we were
						ecosystem services for urban planning. Ecological Economics, 2013, vol. 86, p. 235-245; 21.22. Konijnendijk, C. C., Annerstedt, M., Nielsen, A. B., & Maruthaveeran, S. (2013). Benefits of	also requested to cut the chapter by half and to reduce this section by 70%.
						urban parks: a systematic review. A report for IPFRA. IFPRA; Langemeyer J., Latkowska M.J., Gomez-Baggethun E., Voigt A., Calvet-Mir L., Pourias J., Camps-Calvet M., Orsini F., Breuste J.,	So in the final version we do not go though all the ecosystems, but rather
lohannos langomercas	Ch.2	87	2356	88		Artmann M., Jokinen A., Béchet B., Brito da Luz, P., Hursthouse A., Stepień M.P. and Baležentiene L. (2016). Ecosystem services from urban gardens. In: Bell, S., et al., (Eds.) Urban	synthesize the information. Some of the references suggested by the
Johannes Langemeyer Health Review: James	CII.Z	8/	2356	88	23/0	Allotment Gardens in Europe, Routledge; London, pp. 115-141. ISBN 978-1-138-92109-2 (hbk) This section on the physical and psycological benefits of urban nature may wish to add the evidence of improved mental health (e.g. Triguero-Mas et al. 2015) and child's cognitive	reviewer were included in the Supplementary amterial of extra references. The links between NCP and health is made in section 3. In section3, we
JT Connolly	Ch.2	87	2356	23777	88	Inis section on the physical and psycological benefits of urban nature may wish to add the evidence of improved mental health (e.g., Inguero-Mas et al. 2015) and child's cognitive development (Davdand et al. 2015).	include this information.
		0/	2330	23///	- 00		Because word limitations and to follow the same storyline than other NCP,
Finnish Government	Ch.2	88	2373	88	2375	health, psychological wellbeing and emotional attachment can be also motivations for recreation activities. The hierarchy of motivations is unclear.	this paragraph was deleted
Graciela Rusch	Ch.2	88	2378	88	2378	The contribution of PA to nature-based tourism is mentioned earlier. Suggest to merge to avoid repetition.	Suggestion accepted
							They represent different data, but in order to avoid misunderstandings we
Johannes Langemeyer	ICh 2	88	2379	88	2385	this is contradicitng figure 2.50	delete this sentence.

			-		1		T
Johannes Langemeyer	Ch.2	88	2383	88	2402	Mostly redundant with information provided in intro of 2.2.3.2	Agree, and we merge them
							Unfortunately we were also requested to edit down the whole chapter, and
Finnish Government	Ch.2	88	2383	88	2383	Mention that in Scandinavia the large amount of complementing areas is the reason for low number of visits in protected areas.	particularly this section. So this comment does not apply anymore. We now mention which activities can erode the provision of this NCP.
						It could be mentioned that tourism needs to be managed as any other use of nature. High nr of visitors can not only cause physical damage, but also erode the nature-experience in	However we did not add new references because we were requested to edit
Graciela Rusch	Ch.2	88	2400	88		some cases. The literature about Recreational Opportunity Spectrum (ROS) provides some theory about the management of visitor nrs.	down the whole chapter, particularly this section
Finnish Government	Ch.2	88	2400	88	2400	"recreational use" use "recreational experinece" instead	Done
Graciela Rusch	Ch.2	89	2418	89	2418	Hunting is very importan in Norway and in Eastern European Countries (e.g. Romania, including international hunting). IT would be informative to distinguish between trophee hunting (usually international hunting, important in e.g Eastern Europe, Romania) from other hunting that ecompasses food (mainly own consumtion) and recreation - maintainance of culture (Norway, Sweden, Finland). Also, 'photographing - photo safaries' could be mentioned as alternatives to hunting (but related to it). And, this section that refers to hunting and consuption overlaps with provisioning NCP from wild species.	We clarified in the new version that hunting is explained as part of this NCP, although we acknowledge the possibility of being NCP-food. Besides this, we could not address the suggestion because we did not find data that distinguishes between trophee hunting from hunting for food. We did not find papers or statistic about photosapharis either
							We clarified in the new version that hunting is explained as part of this NCP,
Johannes Langemeyer	Ch.2	89	2419	89		Why this specific focus on hunting tourism and hunting in general?	although we acknowledge the possibility of being NCP-food.
Mark Rounsevell	Ch.2	89	2429	89	2429	Southern Europe is?	Correct
Finnish Government	Ch.2	90	2419	90	2422	This paragraph of hunting tourism should not start the chapter, as tourism is a minor part of hunting which is mainly conducted by local people as part of their culture.	Now this is corrected
Jean-Pierre Arnauduc	Ch.2	90	2442	90	2443	In France, hunters are not usually farmers: http://chasse.bipe.fr/#/Portrait	Not applicable in the current version because the required shorten
Johannes Langemeyer	Ch.2	90	2444	90		Can you really seperate hunting for meat from hunting for recreation (I assume mixed motiviations are prevailing), thus rather speak of 'main motivation'	We clarified in the new version that hunting is explained as part of this NCP, although we acknowledge the possibility of being NCP-food. Besides this, we could not address the suggestion because we did not find dat that distinguishes between trophee hunting from hunting for food.
Finnish Government	Ch.2	90	2446	90		add "mainly"	Not applicable in the current version because the required shorten
						From the control of t	Not applicable in the current version because we were required to build a
Jean-Pierre Arnauduc	Ch.2	90	2458	90	2459	In France, the economic value of hunting is €3.89 Milliards : http://chasse.bipe.fr/#/ChiffresCles	new section on values and do not add values here
ECA values liaison	Ch.2	90	2458	90	2450	Please consider removing this sentence which refers to economic value and suggest it as an addition to the authors of Section 2.3.5. Because it is not a measure of the status and trend of NCP capacity or use, it is out of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value types (health, diversity & options, security etc.) are not being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of importance of the NCP. Finally, the valuation method is not always clearly mentioned.	D
group	CII.2	90	2436	90	2459	valuation method is not always cleanly mentioned.	Done We are adding the suggested references in the supplementary material.
Finnish Government	Ch.2	90	2461	90	2463	and in Finland (Nygård & Uthardt 2011). Mikael Nygård & Lorenz Uthardt, 2011. Opportunity or threat? Finnish hunters' attitudes to hunting tourism. Journal of Sustainable Tourism, Volume 19:383-401.	we are adding the suggested references in the supplementary material. Unfortunately we were also requested to edit down the whole chapter, and particularly this section.
							We could not find statistics about EE for hunting. However, this is not
Hanna Skryhan	Ch.2	90	2473	90		add the information about EE in the paragraph	applicable in the current version because we were required to shorten
Graciela Rusch	Ch.2	91	2485	91	2485	Remove 'recreational' at the start.	Not applicable anymore
Hanna Skryhan	Ch.2	91	2485	92		information about EE & CA is totally missing!	We could not find statistics about EE & CA for fishing. However, this is not applicable in the current version because we were required to shorten
Finnish Government	Ch.2	91	2496	91		satisfaction from the fishing	Not applicable in the current version because the required shorten
Finnish Government Mark Rounsevell	Ch.2	91 92	2501 2505	92 92		Recreation fishing (e.g. angling) does not demand travel infrastructure (like roads?) and if it does it is not missing form the other parts of the continent. ! Could these data be tabulated?	Not applicable in the current version because the required shorten We drop this information out because the shorten required
ECA values liaison	Ch.2	92	2505	92		Flease remove this section which refers to economic value and suggest it as an addition to the authors of Section 2.3.5 or make it less about 'economy' and more about NCP use. Because it is not a measure of the status and trend of NCP capacity or use, it is out of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value types (health, diversity & options, security etc.) are not being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of importance of the NCP. Finally, the valuation method is not always clearly mentioned.	Done
Finnish Government	Ch.2	92	2512	93		you need to recognize that big part of the muschroom yield, especially in Eastern Europe, do not enter into markets, statistics do not provide accurate picture	Not applicable in the current version because the required shorten
							We clarified in the new version that hunting and this content is explained as
Mark Rounsevell	Ch.2	92	2520	92	2520	Compare this section with the relevant section on material NCPs to avoid overlap?	part of this NCP, although we acknowledge the possibility of being NCP-food.
Graciela Rusch	Ch.2	92	2520	92	2520	Some of this information overlaps with provisioning services, merge / cross-reference, avoid repetition.	We clarified in the new version that hunting and this content is explained as part of this NCP, although we acknowledge the possibility of being NCP-food.
lahanna l	Ch 2	000	2520	00	25.00	Numbers for Western Europe only seem to include Italy (from what the text states), the numbers seem in general to be little credible. Differences seem much better explained by lacking	Mat and limble in the august region by
Johannes Langemeyer Health Review: Daniela	Ch.2	92	2529	93	2549	reporting/available data.	Not applicable in the current version because the required shorten
Haluza	Ch.2	92	2533			The term "connectedness of people with nature" is cited. I would suggest that connectedness to nature should also be included in the section on	The section suggested is not provided in the comment.
						Please remove in this sentence the reference to economic value and suggest it as an addition to the authors of Section 2.3.5, and delete it in Figure 2.53 as well. Because it is not a measure of the status and trend of NCP capacity or use, it is out of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value	
ECA values liaison	Ch 2		25.40		35.55	types (health, diversity & options, security etc.) are not being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of	Dana .
group Mark Snethlage	Ch.2 Ch.2	92 93	2543 2250	93	2545	importance of the NCP. wild food gathering is a recent and trendy development, also among urban dwellers: UK: http://www.wildfoodschool.co.uk/; http://www.wildfoodduk.com/;	Done
wark oneulidge	CII.Z	93	2230			wild rood gathering is a recent and rendy development, also among uroan ownelers: UK: nttp://www.wildroodscrool.co.uk/; nttp://www.wildroodscrool.co.uk/; nttp://www.wildroodscrool.co.uk/; nttp://www.wildroodscrool.co.uk/; nttp://www.wildroodscrool.co.uk/; nttp://www.wildroodscrool.co.uk/; nttp://www.foragingcourses.com/; https://www.sauvages-et-comestibles.org/;	
						http://plantessauvagescomestibles.com/; Austria: http://www.esbarewildpflanzen.at/; numerous books in german language:	Many thanks for this information, however due to the edition down
		1 1				http://www.buchhaus.ch/result?bpmquery=Essbare%20Wildpflanzen etc	required, this is not applicable anymore. But many thanks!
					•		

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							We clarified in the new version that this content is explained as part of this
Graciela Rusch	Ch.2	93	2544	93		As above, these sections seem to fit better under provisining services, since also teh economic value is presented.	NCP, although we acknowledge the possibility of being NCP-food or material
							Mo election in the commercian that this content is complete and account of this
Mark Rounsevell	Ch.2	93	2550	93	2550	Again, try to avoid overlap with the material NCP section on this topic	We clarified in the new version that this content is explained as part of this NCP, although we acknowledge the possibility of being NCP-food or material
Finnish Government	Ch.2	93	2550	93		You need to mention everymans right in Scandinavian countries and Finland that allow picking berries	Not applicable in the current version because the required shorten
							We could not find anything else, but as mentioned often we could not
Finnish Government	Ch.2	93	2555	93	2558	You need to find references showing the trend for wild foods	expand more due to the required shorten of the text
						Please remove in this sentence the reference to economic value and suggest it as an addition to the authors of Section 2.3.5, and delete it in Figure 2.53 as well. Because it is not a	
ECA values liaison						measure of the status and trend of NCP capacity or use, it is out of context in Section 2.2 and overlaps with information covered in Section 2.3.5 (Valuing NCP). Moreover, other value types (health, diversity & options, security etc.) are not being referred to in this section either, which implies that IPBES / Chapter 2 puts uses economic value as the sole measure of	
group	Ch 2	93	2569	93	2572	types (reacti, over six & options, security etc.) are not being ferened to in this section entire, which impirates of the NCP.	Done
Біопр	Citiz	1 3	2505	- 33	2372	importance of the work	Bone
							We clarified in the new version that this content is explained as part of this
Finnish Government	Ch.2	94	2583	94		The taste and nutritional value of wild berries is highly appreciated in Nordic countries - the picking is not only for recreational purposes.	NCP, although we acknowledge the possibility of being NCP-food or material
Graciela Rusch	Ch.2	94	2585	94		Here medicinal plants are mentioned too, as in section above. Could some of these sections be revised to avoid repetition?	Done
Mark Rounsevell	Ch.2	94	2597	94	2597	"traditional" instead of "typical"?	Not applicable in the current version because the required shorten
Johannes Langemever	Ch.2	94	2601			The message of the graphs (and why they have been included) is not clear.	We delete this figure in the new version
Finnish Government	Ch.2	94	2601	94	2604	index is unclear	We delete this figure in the new version
							We follow the classification of NCP approved by all te governments in a
Johannes Langemeyer	Ch.2	94	2605			Consider upgrading this section making it a stnad-alone subsection of 2.2.3	IPBES pleanry. This is why it cannot stand alone as a NCP
						Other services are also generated at the lanscape scales (landscape physical features are important for their delivery); these include for instance pollination and pest control by natural	The effect of lan-uses and landscapes were included when appropriate
Graciela Rusch	Ch.2	94	2605	94	2605	enemies. It would be good to make this distinction under these services too.	across NCP
Health Review:						Suggest insert a subheading 'Quality of Life' commensurate with the opening statement on page 1 that Good QoL is central to this area. ALL subsections should review evidence on Quality of Life (where available), or where necessary, note that good evidence is missing. Until recently, good indicators to assess all the important dimensions of QoL relevant to this field	1 Quality of Life has its own section 2.3, and due to the required shorten of
Suzanne Skevington	Ch.2	95	2038			have not been widely available.	the whole chapter we refer to it mostly in section 2.3.
							We are adding the suggested references in the supplementary material.
							Unfortunately we were also requested to edit down the whole chapter, and
Graciela Rusch	Ch.2	95	2612	95		Recent work by Tenerelli et al. 2016 could be cited also (using photoseries techniques).	particularly this section.
Finnish Government	Ch.2	95	2642	95	2650	Take into account the seasonal effects: Tyrväinen et al. Scandinavian Journal of Forest Research Vol. 32, Iss. 4,2017 Scandinavian countries exclude Finland, Fenno-Scandivian countries or Nordic countries include her. The authors should check which region they are referring to not only in this	Not applicable in the current version because the required shorten
Finnish Government	Ch 2	95	2642	95	2642	Scandinavian Counties excude minding retinions, retinions or nordic countries include net. The auditors should check which region they are reterring to not only in this sentence, but in many previous ones as well.	Not applicable in the current version because the required shorten
THIRD GOVERNMENT	Citiz		2012	- 55	2012	errores out in many provided on their	We are adding the suggested references in the supplementary material.
						Grazing activities, i.e. cattle in the landscape increase the landscape values. Grammatikopoulou, I., Pouta, E., Salmiovirta, M. & Soini, K. 2012. Heterogeneous preferences for agricultural	Unfortunately we were also requested to edit down the whole chapter, and
Finnish Government	Ch.2	96	2658	96		landscape improvements in southern Finland. Landscape and Urban Planning, 107: 181–191.	particularly this section.
ECA values liaison						Symbolic meaning of life' is perhaps the only NCP category in Section 2.2 that does not really feature in the IPBES NCP classification anymore. Either explain why this NCP was included,	This title is indeed from an old version of the NCP categories. The whole section has been reduced to a great extent and has been moved under the
group	Ch.2	97	2719	97	2720	symbolic meaning on me is permaps the only where Category in section 2.2 that does not related in the PBES NEP Classification anymore, cruter explain why this NEP was included, for consider including "Existence of species and ecosystems" and "Spiritual and religious experience".	'Cultural heritage, identity and stewardship' section in the final draft (2.3.3)
8.00p	Citiz		2,13	3,	2720	The whole section on 'spiritual and religious experiences' overlaps strongly with the GQOL category 'spirituality and religions', which is currently not mentioned in section 2.3. Two	cutaramentage, racrately and stewardship section in the mandrate (2.5.5)
						different lengthy sections on such overlapping topics seem unnecessary, but please at least mention in section 2.2.3.3.1 that there is overlap with GQOL and, vice versa, mention in	
ECA values liaison						section 2.3 that spirituality and religions are covered in section 2.2.3.1. Alternatively, you could consider shortening the section in 2.2.3.1 and moving a part to 2.3 that relates more	
group ECA values liaison	Ch.2	97	2720			strongly to GQOL	The whole section has now moved to the QoL section under 2.3.3
group	Ch 2	97	2720			Spiritual and religious experience now seems to fit better in section 2.3, because it coincides with the 'new' category in QOL called 'spirituality and religions'. So far it has seemed difficult to present this as an NCP, perhaps it will be better off in a section on Quality of Life?	The whole section has now moved to the QoL section under 2.3.3
ECA values liaison	CII.Z	37	2/20			This introductory text could also serve well in Section 2.3 as a heading on spirituality an religions. It does not really cover status and trends of the NCP, but frames and explains in a very	The whole section has now moved to the Qot section under 2.5.5
group	Ch.2	97	2721	97	2778	useful way how spirituality and religions can relate to nature.	Thank you for the suggestion; it has been used in that section.
Health Review:							Due to the limited space, this section has been removed from the final
Suzanne Skevington	Ch.2	97	2722			2005)'. Good spiritual quality of life can be a potent outcome (Skevington, 2009)	chaper structure thus it is no longer possible to add references here.
ECA values liaison group	Ch.2	98	2754	98	2758	Please remove or suggest it as an addition to the authors of Section 2.3.2 on Health. Because it is not a measure of the status and trend of NCP capacity or use, it is also of much use in Section 2.3 (health or relation NCP - GOOL).	Text has been removed
group	CILE	50	2/34	50	2730	Also Horne 2008. Reference: Horne, P. 2008. Use of Choice Experiments in Assessing the Role of Policy Instruments in Social Acceptability of Forest Biodiversity Conservation in Southern	rext has been removed
						Finland. In Birol, E. & Koundouri, P. (eds.) Choice Experiments Informing Environmental Policy	Thank you for the reference suggestion. Due to the limited space, this
Finnish Government	Ch.2	99	2772	99	2773	A European Perspective. Edward Elgar Publishing.	section has been removed from the final chaper structure.
Health Review:							Due to the limited space, this section has been removed from the final
Suzanne Skevington	Ch.2	99	2778			Needs a statement here about the need for more empirical evidence on spiritual QoL.	chaper structure.
						I would not necessarily speak of 'underexplored'. Several historical reasons (mainly the enlightenment) explain very well why spiritual and religious links are less important for large parts	
						would not necessarily speak or underexploid agree that it seems in seems in seems in the part of Central European societies. I would agree that it is clearly controlled the part of Central European societies. I would agree that it is chapter many cultural background partly fallitated over-uses of natural resources, but as explained elsewhere in this chapter many cultural-	Due to the limited space, this section has been removed from the final
Johannes Langemeyer	Ch.2	99	2783	99	2789	natural sights in Western Europe are nowadays formally recognized and protected (the assessment of historical and cultural values is also included in the EU-EIA legislation).	chaper structure.
Health Review: Julie						The lack of exploration between cultural and natural diversity in Western Europe is worth being emphasized as it has been explored worldwide and the overlap is significant. This places	Due to the limited space, this section has been removed from the final
Garnier	Ch.2	99	2789	99	2789	local and indigenous communities at the forefront of protecting such diversity.	chaper structure.
							Ma are available for the commant Chart that Cit 2 will do a live it
						It would be informative to include other biophysical indicator for 'existance value' than protected areas. Habitat provision for native biodiversity and the problems associated with	We are grateful for the comment. Given that CH. 3 will do a biodiversity assessment, and that indicator choice for the assessment of this NCP has
						habitat degradation are important questions to take up. Further, this is relevant for the discussion of flows of services because some of the iconic species in Europe (the large 5) migrate,	•
						and usually require large areas. Also existance value could be attributed by urban dwelers or people not coexisting with the animals, but the service is generated by those who live close	indicators. The aspect of migratory species is currently understudied, but
Graciela Rusch	Ch.2	100	2827	100	2827	to them.	referenced (Lopez-Hoffman et al. 2010).
ECA values liaison						Please consider referring to relevant aspects of Good Quality of Life in the introductory text of 'Existence of Species and Ecosystems'. This element would mostly be 'Living well in	
group	Ch.2	100	2827		<u> </u>	harmony with nature' (not covered in 2.3)	We made a short reference to increased quality of life.

		1					This is part of the NCP classification, agreed upon by IPBES. The classification
Germany	Ch.2	100	2828	100	2828	NCP supporting identies - how does this relate to the IPBES framework and/or chapter 1	is provided and explained in Chapter 1.
Lisa P. Sousa	Ch.2	101	2850	101	2853	Figure 2.55 - It is dificult to identify protected areas in Western and Central Europe so maybe the map size should be increased	
							In order to show the whole ECA we want to keep the current map size.
Maria Barrasa III	Ch.2	404	205	404	2055		Western and Central Europe have indeed a relatively low amount of areas.
	Ch.2	101 101				Perhaps represent as a bar chart to better visualise the data? add the colomn "Total area"	We decided to keep the table, as we were asked to add totals. We added this.
	Ch.2	101	2862	101	2830	add the colonial real licenses and the colonial real licenses from the wider public to see include: cetaceans (whale watching in the Azores, Iceland, Bay of Biscay etc), vultures (Gorges du Tarn, France licenses in Europe that attract interest from the wider public to see include: cetaceans (whale watching in the Azores, Iceland, Bay of Biscay etc), vultures (Gorges du Tarn, France licenses).	For the assessment we built systematic literature search. No literature is
Mark Sileanage	C1112	102	2001			http://wautours-lozere.com/defaultgb.htm), European Bison (Bialowieza), Brown Bear (Romania, Finland), Wolf (Spain), Red Deer, etc	suggested here. Several of the suggested species are already included in the text.
Finnish Government	Ch.2	102	2888	102	2920	Summary of excistence values is very limited.	This comment referred to a section on an indicator for this NCP, not specifically existence value.
ECA values liaison						This section deals with the consequences of interregional flows NCPs, which is much needed and highly interesting. The suggestion is to clearly separate and structure the effects into effects on Nature (ecosystems & biodiversity), on NCPs, and finally and especially 'Good quality of life'. The only aspects of GQOL that are now mentioned are distributional equity and lower costs of food. We are aware that this section is on interregional flows of NCPs, but nevertheless suggest to touch upon consequences for some GQOL categories (sensu Pascual et	The reference to distributional equity and to food security should be
group	Ch.2	103	2937	104	2952	al. 2017), especially: Diversity & options, Security and livelihoods (among others: political stability, FEW security), living well in harmony with nature.	sufficient here.
Mark Snethlage	Ch.2	103	2938	3		additional ref: Meyfroidt, P., Lambin, E. F., & Hertel, T. W. (2013). Globalization of land use: distant drivers of land change and geographic displacement of land use. Current Opinion in Environmental Sustainability, 5(5), 438–444. http://doi.org/10.1016/j.cosust.2013.04.003	We decided to stick to references with empirical focus.
Johannes Langemeyer	Ch.2	104	2953	3 104	2973	Which of the previously described ES are considered in EFP? Is this a scientifically sound indicator? Consider common critiques on EFP and evalaute if this indicator is appropriate for this type of assessment. Using NFA 2015 in data year 2011: per capita values look correct, but I count 52 countries in this aggregation. Same with western and central Europe – I count 40 countries in this aggregation.	The ES considered in the Ecological Footprint are described in the section. We have considered and are aware of the critique on the method. Within the assessment there is no space for a method critique. We are of the opinion that the indicator can be used for this purpose.
UNEP-WCMC: The Biodiversity Indicators						If you want to update with NFA 2016 in data year 2012: The Europe and Central Asia region have a per capita footprint of 4.5 gha/person and per capita biocapacity of 2.9 gha/person (calculations based on 52 countries). For western and central Europe (data for 40 countries) the per capita footprint is 4.6 gha/person, while per capita biocapacity is 2.2 gha/person. For eastern Europe (7 countries) the per capita footprint is 4.7 gha/person (5.2 gha/person biocapacity per capita). For central asia (5 countries), the footprint was 3.2 gha/person while per capita biocapacity was 1.7.	ECA has 54 countries, for 7 EF data is missing, this makes 47 countries as the
Partnership (BIP)	Ch.2	104	2964	105	2971	(Note: increases can be attributed to change in carbon footprint methodology from NFA 2015 to NFA 2016)	basis for the calculations
UNEP-WCMC: The Biodiversity Indicators Partnership (BIP)	Ch.2	104	2964	105	2971	Values used here are outdated and could be updated/replaced with the values up to 2012 that have been provided to IPBES for these reports.	Values have been updated with the 2017 edition of the national footprint accounts.
1							
Johannes Langemeyer	Ch.2	104	2968	104	2973	Are EFP and biocapacity based on the same indicators? If not, it is very questionable to compare them as done here.	Yes, according to the methodology they are meant for these purposes.
Johannes Langemeyer	Ch.2	104	2971	104	2072	How does this relate to the flow between regions (2.2.4)? What is the consequence of having a reserve in terms of biocapacity, are those countries encouraged to use more?	We added a sentence that a negative balance between biocapacity and EF can be ascribed to interregional flows.
UNEP-WCMC: The Biodiversity Indicators	Cn.2	104	2971	104	2973	now does this relate to the now between regions (2.2.4)? What is the consequence of naving a reserve in terms of blocapacity, are those countries encouraged to use more?	Caption was amended accordingly. Israel is part of Western Europe in the
Partnership (BIP)	Ch.2	105	2974	ı		Please amend the figure caption to indicate that results are expressed in gha per person. Also, according to which criteria is Israel included in the map?	IPBES regions.
	Ch.2	105)		suggested map: Imhoff, M.L., L. Bounoua, T. Ricketts, C. Loucks, R. Harriss, and W.T. Lawrence. 2004. HANPP Collection: Human Appropriation of Net Primary Productivity. Palisades, NY: NASA Socioeconomic Data and Applications Center (SEDAC). http://dx.doi.org/10.7927/H4W66HPJ. (Old data though)	We decided not to include a map of HANPP per se, as this section is about interregional flows of ES, not about the appropriation per se
	Ch.2	105	2986			Is it correct to say that HANPP is 'imported' by Europe?	Changed to "embodied HANPP"
Mark Rounsevell	Ch.2	106	2988	106	2989	Ch1 is currently using the same figure, so we might need to agree on where it appears. No need for 2 appearances.	to be discussed with CH. 1
Johannes Langemeyer	Ch.2	106	2989)		(Sub-)regional boundaries established for this chapter are not respected in the graph which makes it a bit misfitting. Could this be adapted.	This can unfortunately not be re-drawn based on the original data. We had to rely on published literature.
Johannes Langemeyer	Ch.2	106	2994	106	2994	Since the section is mainly focussing on the flow between sub-regions it is confusing to include here national accounts (which might also include flows within the same subregion).	This was deleted as there was enough large scale evidence. The focus of this section was more on the interregional flows, a link to other
Graciela Rusch	Ch.2	109	3037	109	3040	This paragraph could be linked to the section about wood fuels and the importance of carbon storage in reducing CO2 emissions.	sections could, also given word limits, not be established. This is a valid point, but it could, given word limit, not be addressed in this
Health Review: Julie Garnier	Ch.2	109	3039	109	3039	I think that there is a CRUCIAL point to highlight: low-income countries and the most vulnerable and deprived societies are the ones bearing the most impact from climate change. Even though Europe has reduce its GHG emissions, the impact of CC is increasingly unbearable for the ones at the frontline of biodiversity conservation, despite their vital role as custodians of ecosystems upon which climate change mitigation largely depends.	section, which focusses on interregional flows of ES (and not the equity consequences) - in turn, for the equity section no literature was found that specifically pointed to this issue.
	Ch.2	109	3041	113	3130	It could be interesting to compare the relative proportion of studies on marine and terrestrial ecosystem services	We agree, but unfortunately when we extract data from the revised papers, we did not do this analysis and now we couldn't go back to the thousands of papers revised
Mark Rounsevell	Ch.2	109	3048	109	3048	"should be taken into account": Through the confidence language.	Not applicable in the current version because the required shorten
Mark Rounsevell	Ch.2	110	3082			l like the way these data are presented in this figure. But, I'm struggling to discern the differences between the colours. Could a different color scheme be used that's more contrasting? Plus, also best to avoid red-green combinations for the colour blind.	We worked this figure with the graphics designers of IPBES
Germany	Ch.2	113	3132	113		Please add the criteria, that were used to structure the "semi-structured" literature review	Elements are referred to in Section 2.2. annd full detials are in the Appendix
Graciela Rusch Graciela Rusch	Ch.2	113	3135			LULCC a driver of change? Please, revise. Land - use change maybe? IT would be good to indicate the degree of uncertainty that both the scnenarios and the predictions have.	Kept as LULCC to be consistent with other parts of the assessment Scenario uncertainty is dealt with in Chapter 1. It is difficult to deal with Predcition uncertainty, as this is (often) not covered in the papers reviewed. Some indication is given by use of alternative scenarios where possible

	1			1	
				While allowed about the second desired as the second desired and desired as the second desired desired as the second desired desired as the second desired d	As we were extracting information from papers we could only use what
				While climate change was identified as the most frequently mentioned driver based on the literature reviews, this does not necessarily imply that it is the most important in terms of impacts on NCPs. Please explain why you focus here only on IPCC scenarios? Chapter 4 provides an indepth assessment of direct and indirect drivers, making much more drivers than	authors had used which was entirely IPCC scenarios for climate change. Links to Chapter 4 are included, as well as the reason for the focus on
Germany Ch.2 113	3137	113	3177	Impacts on Nurs. Hease explain why you tocus nere only on Incl. Scenarios? Chapter 4 provises an inceptin assessment or direct and indirect drivers, making much more drivers than climate change evident. Also, chapter 4 explicitely covers future trends for these drivers. Please make such that this is mentioned and well linked.	climate and LULCC change.
Mark Snethlage Ch.2 113	3138	113	31//	Dissible map: Climate Effects on Food Supply Projected % Change in Wheat Yield, under various SRES (2050)	consiste and cocco triange.
				data download: http://sedac.ciesin.columbia.edu/data/collection/crop-climate/maps/gallery/search/;	
				Projected % Change in Wheat Yield, under various SRES (2020)	Thank you for this suggestion. We decided to use similar maps but from
				data download: http://sedac.ciesin.columbia.edu/data/collection/crop-climate/maps/gallery/search/	Nelson et al. 2009;2010)
		Ţ			These responses refer to different crops and for most regions there is a
Ch 2	24.47	440	24 **	while there are projected increases and mixed response, the per capita availability might decline> this does not sound convincing. If there are increases and mixed responses, overall it	greater dependence on wheat, hence as a broad generalisation across ECA
Germany Ch.2 113 Mark Snethlage Ch.2 113	3147 3161	113	3149	still declines? "In Finland, for example, forest stand models calculate that under an IPCC SRES B2 scenario pine growth in southern Finland could increase by 16% and in Lapland by 31%, while under a	there is an overall decrease in daily calories available. This a consequence of different scenarios (Extreme possibly A1F1, as
work Streethage Cli.2 113	2101			in Finand, for example, forest stand modes calculate that under an IPCL SNES B4 Scenario pignown in Southern Finand could increase by 10% and in Lapiand by 3.1%, while under a higher (A2) scenario these figures were 40% and 80% respectively (Forsius et al., 2013)." Compare this with (Chapter 2, page 47, line 1304): "In an extreme scenario, large regions of the	oppposed to A2) and different models and slightly different time periods.
				larger (AZ) scenario tiese rigures where 40% and us one respectively revisible et al., 2013). Compare this will (Liapiter 2, page 47), line 1304), in an externil scenario, anger regions on the boreal forests could, by the end of the century, shift to a drier climate with lands normally occupied by the woodland/shrubland biome. Under a warming climate, it is likely that fire	agree that fire frequency and severity could increase and this has been
				frequency and severity will increase (Keywood et al. 2013)."	flagged.
				It should be noted that the climate envelope model by Cheung et al is a simplistic prediction model, not taking into account key mechanisms. For instance, in high latitidue systems light	
Mette Skern-Mauritzen Ch.2 114	3170	114	3171	is a key factor, with onset of spring bloom and with winter dark. The light conditions will not change with climate.	Thanks for this comments which has been noted.
				IT would be good to refer to these statements in the section about Bio-fuel production. Because, indeed, the extraction of forest products as biofuel, will take in some regions (e.g. the	
Constitute Provide	2262			Nordic countries) about 90 years to recover (above ground and root biomass). Since building of soil carbon is estimated to take around 5 000 yr, the loss of soil carbon associated with	A new section on biofuel/wood energy production has been added which
Graciela Rusch Ch.2 115	3202	115	3206	the process of woodfuel extraction should be estimated to recover in this time lag.	hopefully deals with this.
				It would be good to distinguish clearly in the scenario analysis what are impacts of management from those unavoidable drivers of change. Because management can be changed, and	This example was just looking at changes in management and other drivers of change were not included explicitly. The effects of policy are dealt with at
Graciela Rusch Ch.2 115	3202	115	3217	It would be good to distinguish clearly in the scheduled with a few might be under the control of the control o	the end of the section.
115		113	3217	and many and an analysis of parameters and parameters and an an an an an an an an an an an an an	
					This has been kept as it shows how different management scenarios impact
Hanna Skryhan Ch.2 115	3212	115		delete or replace to Ch.5	on different components of an NCP and on two NCP
Graciela Rusch Ch.2 116	3250	116	3250	Could this analysis be structured around the specific NCP? (e.g. water quality, water amount, flood control, etc)?	This has been done
				L	This has been rewritten and this section removed as it is not about the NCP
Graciela Rusch Ch.2 116 Finnish Government Ch.2 118	3258	116 118		This statement is very general. IN which sense, and which 'future environmental change'?	itself
Finnish Government Ch.2 118	3303	118	3328	The chapter 2.2.6.3 is unorganized and the line of thought is missing, redundant examples The chapter 2.2.6.3 is unorganized and the line of thought is missing, redundant examples. The chapter 2.2.6.3 is unorganized and the line of thought is missing, redundant examples.	This has been rewritten
Graciela Rusch Ch.2 118	3315	118	3322	These examples show that the evidence is very fragmented. See my comment at the start. Could some general statements be made about these services. Regarding green infrastructure in urban areas there is considerable literature to review also. Any reviews to refer to rather than more case-study base?	A comment has been made at the start that
Finnish Government Ch.2 118	3319	118		"mental recreation" term is established	This term has now been removed
				You may want to discuss about equality of the effects in 2.2.6.3 : 36. Pouta, E., Neuvonen, M. & Sievānen, T. 2009. Participation in Cross-country Skiing in Finland under Climate Change:	Thank you. A s we revised this section there was not room to include your
Finnish Government Ch.2 118	3322	118	3322	Application of Multiple Hierarchy Stratification Perspective. Journal of Leisure Research 41 (1), pp. 87-104.	suggestion.
		7		Thank you for the opportunity to review and comment on the health section of chapter 2. I applaud the authors for developing an interesting draft with transdisciplinary perspectives on	
				NCPs. As the document currently stands, a number of interconnected topics are not well integrated. These appear as stand alone topics, yet they clearly are not. This section of chapter	
Haalibb Davisuu Davaa				two would benefit from more synthetic treatment across some of the key subject areas. For example, as noted into the report, environmental pollution was identified as a human health	section 2.3 has been redrafted to create more interconenctions between
Health Review: Bryan W. Brooks Ch.2 119	1	164	4936	concern by 55% of ECA, yet pollution in general received short shrift in this report, likely due to the authors expertise. I have made some comments below to hopefully facilitate such and effort, which would strengthen this document.	topics. Pollution is now mentioned 4 times in the executive sumamry and is extensively considred in the sections on air and water quality
Health Review:	-	104	4230	Before, which would strengthen this obcument. Many researchers in the quality of life field would say that a substantial part of this section (2.3.2) is not about Quality of life (which is a subjective experience) but about Standard of Many researchers in the quality of life field would say that a substantial part of this section (2.3.2) is not about Quality of life (which is a subjective experience) but about Standard of	section 2.3 has been redrafted to focus more on quality of life and section
Suzanne Skevington Ch.2 119	3332	133	3848	Living. Suggest change the title	headings reflect the gudiance for IPBES assessments
Health Review:					biodiversity and health is now dicussed extesnively in a revised section 2.3.2
Suzanne Skevington Ch.2 119	3332	133		No review of Quality of Life or Wellbeing (MDGs) in relation to biodiversity and/or health	on contributions to physical, mental and scoial dimesnsion of health
ECA values liaison	3334			In this introduction to GQOL, please consider explaining that certain aspects of GQOL (sensu Pascual et al. 2017) have not been covered, and the reasons for this. Reasons include overlap	abia is now sourced in section 1.5.2 and 2.1.1
group Ch.2 119 Finnish Government Ch.2 119	3334	119	33/1/	with non-material NCPs and other ones, plus that the aspects had not been in focus during the ECA. The concept of "relational values" is not well established. Needs to be introduced more profoundly if used in essential role.	this is now covered in section 1.5.2 and 2.1.1 this is covered in section 1.5.2 in the intrductory chapter
Dan Faith Ch.2 119	3344	119	3344	The concept of read to diversity of future options—but where is the discussion of this, especially with ref to not 18? Feferance is made to diversity of future options—but where is the discussion of this, especially with ref to not 18?	this is covered in section 1.5.2 in the introductory chapter this is noiw covered in section 2.2.3.4 on maintenance of options
113				,	In the sub-sections on security, an introduction will highlight which NCPs
				It was encouraging to see the Food-Energy-Water nexus given attention. Certainly this represents a global megatrend that must be examined. This section, however, like much of the	contribute to each security objective. The part of the comment on
				FEW work, fails to examine the environmental quality and ecosystem integrity interfaces and implications of divergent FEW management scenarios. It also fails to identify the importance	implications of different management scenarios is about solutions which is
				of green/circular economy, sustainable and green chemistry and engineering as ways to reduced disease burden while fueling innovation. Sustainable molecular design of chemicals for	in principle a topic for chapter 6 unless it is decided that NBS are part of
Health Review: Bryan	22.45			reduce hazard represents a transformational approach to address the environmental pollution and health implications of such exposures. I recommend Coish et al 2016:	chapter 2
W. Brooks Ch.2 119	3345			http://pubs.acs.org/doi/abs/10.1021/acssuschemeng.6b02089?src=recsys&journalCode=ascecg	Wasto is already advaced in chapters F. C. Wikhin the limitation - 5500
				An increasing problem is overeating and obesity, as well as food waste. Are you able to cover this issue at all: The following paper might be useful for this: Alexander, P. et al. (2017).	Waste is already adressed in chapters 5, 6. Within the limitation of 500 words for this section, references and data are included about the trends in
				An increasing problem is overleading and obesity, as wen as blood waster, are you only to cover this issue at all. The following paper ringing to design for this. Alexander, P. et al. (2017). Losses, inefficiencies and waster in the global food system. Agricultural Systems, 153, 190-200	average fat supply and protein supply, obesity and overwight, and the
Mark Rounsevell Ch.2 119	3354	119	3354	9	prevalence of food over-acquisition .
					·
		l		Similarly, the contribution to food provisioning is mainly addressed in terms of food security. Food security is an important issue, specially in the Global South, but not so much in	
		l		Western Europe where the debate is on food quality and safety, and generally in the way the food chain operates. "Extrinsic" quality attributes (those that do not depend on the product	
				itself but on the production system) are increasingly important for consumers/citizens (e.g. origin, tradition, link to the territory, animal welfare, etc.). The report mainly follows a food	
				security narrative, which can be counterproductive for biodiversity conservation and ecosystem services.	
				See for example: Barrusé A. (Disirals A. Corona K. 2003 Extrinsic attributes of red meat as indicators of quality in Europe: an application for market compensation. End Quality and Preference 1/1/1).	This section lenght is limited to 500 words. However, we have incorporated
				Bernués A., Olaizola A., Corcoran K., 2003. Extrinsic attributes of red meat as indicators of quality in Europe: an application for market segmentation. Food Quality and Preference 14(4), 265-276.	a food sovereingty approach and included references and data on the
Alberto Bernués Ch.2 119	3354	122		Grunert K. G., 2006. Future trends and consumer lifestyles with regard to meat consumption, Meat Sci, vol. 74, no. 1, pp. 149–160.	nutrition transition and changes in the diet.
					Unfortunately, given the limitation of this section's lenght to 500 words, we
1 1 1			ì		
		I			have needed to leave out much information. The NCP Food is dealt with in
				Food security is appropriately examined. Food security also includes food safety, but unfortunately it is not examined at any length. However, sustainable and safe food production is	have needed to leave out much information. The NCP Food is dealt with in section "2.2.2.1 Food and feed". The tradeoffs associated related to food
Health Review: Bryan W. Brooks Ch.2 119	3354			Food security is appropriately examined. Food security also includes food safety, but unfortunately it is not examined at any length. However, sustainable and safe food production is clearly an NCP. Food contamination has direct influences on health outcomes, yet the lists of contaminants examined in foods, if they are examined, are very limited. Food safety considerations associated with pollution, and challenges with production in water stresses regions, should be examined.	

	I				1		T
Graciela Rusch	Ch.2	120	3378	120	3378	Which sub-region?	This sentence has been left out due to the lenght contraints of the section.
							Thanks you for the suggestion. However, we have needed to cut references,
Health Review: Malcolm Ward	Ch.2	120	3382	120	3300	Loopstra R et al. Austerity, sanctions and the rise of food banks in the UK - BMJ 2015; 350 doi: https://doi.org/10.1136/bmj.h1775 (Published 08 April 2015)Cite this as: BMJ 2015;350:h1775	so this could not be added. We have included it in the extra-references appendix
Health Review:	CILE	120	3302	120	3333	There is no reference to the alarming rise of 'food waste', particularly in developed economies? https://www.theguardian.com/environment/ng-interactive/2015/aug/12/produced-but-	аррения
Malcolm Ward	Ch.2	120	3400	121	3413	never-eaten-a-visual-guide-to-food-waste	Food waste is dealt with in chapters 5 and 6.
							Will be addressed in the upcoming energy security and food-energy-water
Graciela Rusch Health Review: James	Ch.2	122	3448	122	3448	It would be good to provide a balanced picture about sources of reweable energy, and put bio-fuels in a context of sustainable management.	security sub-sections
JT Connolly	Ch.2	122	3448	3451	122	The discussion of Energy Security may wish to include recent European scholarship on the rising issue of energy poverty	Will be addressed in the upcoming energy security sub-section section
,							
Johannes Langemeyer	Ch.2	125	3539	125		This paragraph seems to be on flood regulation (and thus misplaced here), the link to water availability is not clear.	This paragraph was removed
Hanna Skryhan	Ch.2	125	3551	125	3558	replace to the Ch.6 The basis to examine these trade-offs is limited in the description of 'provisioning services in the sections above). The asssessement on food production provides little evidence on the	This paragraph was removed
Graciela Rusch	Ch.2	128	3653	128	3659	dependence on nature.	This section on trade-offs was completely reframed
							The Aral sea case overlaps with chapters 3, 4 and 6. This case will be
							significantly reduced and kept in a box in the contribution to security sub-
Mark Rounsevell	Ch.2	129	3694	129	3694	It's worth checking for overlap with other chapters on this topic.	section of chapter 2
Graciela Rusch	Ch.2	133	3844	133	3844	Earlier you state that seawater desalinization is rather challenging due to energy demands?	We will change the text in order to avoid this contradiction in the section.
							Thanks for the valuable comment; due to a need for drastic downsizing the
						l	whole health section, we were not able to incorporate this into the new
Health Review: Sandra	Ch.2	133	3848	146	4212	I have found this section quite exhaustive on physical and mental health but somewhat lacking on emotional health. Perhaps it is good to provide conceptual/operational definitions of the three types of health. Additionally, we refer to emotional well-being and it's importance in being resilient to stress, pressures etc. What about meditation in open spaces?	text, and due to other priorities we could not follow up on this comment in the new appendix
C. Buttigieg	Cn.2	133	3848	146	4312	the triee types of nealth. Additionally, we refer to emotional well-being and it's importance in being resilient to stress, pressures etc. what about meditation in open spaces?	Thanks for the valuable comment; due to a need for drastic downsizing the
						Active networking and steady exchange of information and knowledge between science, breeding and farming practices play a key role in creating synergies and achieving economies of	whole health section, we were not able to incorporate this into the new
Health Review:						scale, while avoiding overlaps and making outcomes more accessible to end-users. Such networks lead to better coordination and offer opportunities for innovation, while building on	text, and due to other priorities we could not follow up on this comment in
Gilberto IGREJAS	Ch.2	133	3848	134	3910	shared needs.	the new appendix
						I think this section gives a good precise and concise summary of the topic. I would suggest that the mention of ageing populations (line 3889) is replaced with some text on shifts in the structures of society (the implications of an aging society are contested) and that the rise in the prevalence and costs of NCDs is also referenced. I wasn't sure what was meant by the	
						mention of increasing cultural diversities on line 3890. You may want to reference the recent WhO Cultural Contexts of Health report which discusses the relevance of the natural	Thanks for the valuable comment; due to a need for drastic downsizing the
						environment (e.g. line 3892) Napier, A. D., Depledge, M., Knipper, M., Lovell, R., Ponarin, E., Sanabria, E., & Thomas, F. (2017). Culture matters: World Health Organisation. On line 3905 I	whole health section, we were not able to incorporate this into the new
Health Review:						wondered if it would be useful to list Ecohealth, One Medicine and Global Health along with One Health as, while they general refer to the same-ish approaches, they relate to different	text, and due to other priorities we could not follow up on this comment in
Rebecca Lovell	Ch.2	133	3848	134	3910	sectors.	the new appendix Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:						This sentence does not give an accurate reflection of the SOK review (WHO and CBD, 2015). The SOK review (WHO and CBD, 2015) covered 10 thematic and 4 cross cutting areas, not	text, and due to other priorities we could not follow up on this comment in
Konstantinos Tzoulas	Ch.2	133	3849	133	3853	three as mentioned in this sentence.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review: Sjerp						Here the term biodiversity is used. To me, this is not the same as nature. I think it is important to define central terms clearly and to use them in a consistent manner. NB: later on also	text, and due to other priorities we could not follow up on this comment in
de Vries	Ch.2	133	3850			terms such as green space are used.	the new appendix
						L	Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review: Maud						I think it is a bit akward to say that BD/ES support 'good health status'. They also support your health when you do not have a good health status. When you are mentally ill, access to green space will have positive health impacts, but not to such extent that you will have a 'good health status'. And what is actually meant with 'good health status'. It is a sort of ideal	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Huynen	Ch.2	133	3854			green space will never postive regain impacts, but into us out extent italy you will never a good realitisease. Any will will never be state. Hence, I suggest to change this formulation. Perhaps just say: in supporting human health's reproducing any promoting human health's	the new appendix
						The examples of active and passive experience of health benefits accruing from nature do not include examples that reflect contact with nature in urban areas. Active contact with	Thanks for the valuable comment; due to a need for drastic downsizing the
						nature in urban areas may include undertaking sports, exercise, dog walking or other physical activity in urban green spaces. Passive contact with nature in urban areas often includes	whole health section, we were not able to incorporate this into the new
Health Review: Konstantinos Tzoulas	Ch.2	133	3856	133	3863	walking through, or driving past, urban green spaces; viewing parks from windows; or simply listening to natural sounds. Such experiences are important in urban areas and need acknowledging	text, and due to other priorities we could not follow up on this comment in the new appendix
KONSTANTINOS 1200IAS	CILZ	155	3030	133	3003	ucatowicuging.	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Emma						other benefits' of biodiversity/NCPs are mentioned but this could be elaborated upon further. In general I felt that this chapter lacked depth on the links between biodiversity and	text, and due to other priorities we could not follow up on this comment in
Goring	Ch.2	133	3863	133	3865	mental/emotional health. The psycho-social benefits, cultural benefits, and therapeutic effects of biodiversity were largely absent and few references given.	the new appendix Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Maud							text, and due to other priorities we could not follow up on this comment in
Huynen	Ch.2	133	3863		 	Idem. Reconsider using the term 'good health'.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review: Maud						2.3.2 introduction paragraphs: I greatly miss reference to the report of The Rockefeller Foundation-Lancet Commission on planetary health. This highly influential report stresses the fact	
Huynen	Ch.2	133	3863	134	3910	that natural systems underpin human health and explores the associated scientific basis.	the new appendix
		1 1			1		Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						Health benefits are also variously linked to many different aspects of quality of life: physical, psychological, social, environmental and spiritual (Skevington and Mc Crate, 2012). Skevington SM and Mc Crate FM. (2011) Expecting a good quality of life in health. Assessing people with diverse diseases and conditions using the WHOQOL-BREF. Health Expectations,	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Suzanne Skevington	Ch.2	133	3866			Skevington Sw and Mic Crate FM. (2011) Expecting a good quality of life in nealth. Assessing people with diverse diseases and conditions using the WHOLQUL-BREF. Health Expectations, 15, 49-62. DOI 10.1111/j.1369-7625, 2010.00650.x.	text, and due to other priorities we could not follow up on this comment in the new appendix
,							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: James JT Connolly	Ch 2	133	3867	3871	122	In addition to the increasing focus on health and access as a result of urbanizing populations, there is increasing attention paid to the extent to which the health benefits provided by nature are inequitably distributed in urban environments, raising environmental and health justice concerns	text, and due to other priorities we could not follow up on this comment in the new appendix
11 Collifolity	CII.Z	133	300/	30/1	133	mature are medunany usunouteu in urban environments, faising environmental and neatri justice concerns	тие нем аррения

							1
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:							whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Stefania Paduano	Ch.2	133	3867	133	3871	Barton H, Grant M. A health map for the local human habitat. J R Soc Promot Health 2006; 126: 252–53. Reference for Health Cities	the new appendix
						Perhaps a sentence could be included before these lines, explaining that the urban parks movement of the 19th century (in the UK as well as in Europe and the US) was primarily driven	Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						by improving health improvements (i.e. fresh air, greenery, contact with nature, health benefits) and a morality agenda (i.e. mixing of social classes). Such an outline historical sentence would help emphasise the current urban health problems are not new.WARD-THOMPSON, C., 1998. Historic American Parks and Contemporary Needs. Landscape Journal, 17, 1; 1-25.;	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Konstantinos Tzoulas	Ch.2	133	3867	133	3871	WARD-THOMPSON, C., 2002. Urban Open Space in The List Century, Landscape and Urban Planning, 60; 59-72.	the new appendix
			2001				Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Emma	Ch 2	422	2050	422	2074	Would be interesting here to provide a couple of examples of research groups, universities, papers, etc. which demonstrate the increasing interest in human health-environment linkages	
Goring	Ch.2	133	3868	133	38/1	in Europe.	the new appendix Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Julie							text, and due to other priorities we could not follow up on this comment in
Garnier	Ch.2	133	3870	133	3870	Need to include disease associated with air pollution current food production systems which are all more generally linked to our disconnect from nature and anthropocentric vision of life	
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review: Emma							whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Goring	Ch.2	133	3871	133	3873	Can references for studies in Central Asia be provided here?	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:	Cl. 3	424	4005	425	2027	Zoonotic diseases of significance in developing countries fall into three categories based on the form of transmission: foodborne (cysticercosis, brucellosis, tuberculosis), infectious (avian	text, and due to other priorities we could not follow up on this comment in
Gilberto IGREJAS	Ch.2	134	1885	135	392/	influenza, tuberculosis), and vector-borne (rabies or trypanosomosis).	the new appendix Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
Theofilos Poutahidis	Ch.2	134	3096	134	3098	"Other approaches". Although the One Health concept is more or less known, referring to those other approaches without any clue for the reader would benefit from citation(s).	the new appendix
Amor Torre-Marin	Ch.2	134	3874	134	3874	"well-established": confidence term? If so to be used between brackets. If noy alternative wording should be used.	Thanks for the valuable comment, here it was not inteded as formal IPBES confidence term
Allioi Torre-Iviariii	CII.Z	134	30/4	134	30/4	weir-established - comfuence terms in 30 to de used between drackets. In floy alternative wording should be used.	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Daniel							text, and due to other priorities we could not follow up on this comment in
Todorov	Ch.2	134	3874	134	3877	There is not distinct citation about the connection between wild life as a source of medicinal recources	the new appendix
						The narrative here does not reflect the urban European perspective. For example the importance and significance of cultural ecosystem services in urban areas has not been acknowledged in this paragraph. This acknowledgement would make the relevance of this review to urban areas more explicit than it is now. Relevant references include: Kremer, P,	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:						Elmqvist, T, McPhearson, T, 2015. Advancing the frontier of urban ecosystem services research, Ecosystem Services, 12, 149-151. La Rosa, D., Spyra, M., Inostroza, L., 2016. Indicators for	text, and due to other priorities we could not follow up on this comment in
	Ch.2	134	3874	134	3886	cultural ecosystems services for urban planning: a review. Ecological Indicators, 61, 74-89.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review: Zorica						The ways in which health status is affected by biodiversity and NCPs is therefore determined by the nature of specific climate, ecological and socio-economic conditions, including the	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Popovic	Ch.2	134	3877	134	3880	the ways in winton treatments account in a street or to include a street or the comment of the stree	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Sjerp	Ch.2	134	2070			(is therefore determined by Put way to strong. (According to some evolutionary theories, e.g. Stress Reduction Theory, the benefical effects of contact with nature are quite universal.)	text, and due to other priorities we could not follow up on this comment in
de Vries	CII.2	154	3878		1	is therefore determined by Put way to strong, factoring to some evolutionary theories, e.g. stress reduction meory, the benefical effects of contact with nature are quite universal.	the new appendix Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Julie							text, and due to other priorities we could not follow up on this comment in
Garnier	Ch.2	134	3878	134	3878	Health status is affected by biodiversity LOSS – Loss of food diversity ahs been largely responsible for observed trends in NCDs	the new appendix
Health Review: Maud Huynen	Ch.2	134	3880			I would not say that they determine the strength/directionPerhaps better reformulate to stress that the social/economic/cultural factors can mediate the relationships between health and biodiversity.	adapted for the new appendix
, -					1	·	Thanks for the valuable comment; due to a need for drastic downsizing the
						This important issue can be assessed by citing more literature if available	whole health section, we were not able to incorporate this into the new
Volda Guzol	Ch.2	134	2004	42.	2007	,	text, and due to other priorities we could not follow up on this comment in the new appendix
Yelda Guzel	CII.2	154	3881	134	3882		Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Edna						A reference or references here is needed (e.g. Denis and James, 2016; Ruokolainen et al., 2016) http://www.sciencedirect.com/science/article/pii/S1618866715001612; DOI:	text, and due to other priorities we could not follow up on this comment in
Cabecinha	Ch.2	134	3882	134	3886	10.1097/ACI.00000000000304	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review: Emma						I found the issue of group- or community-specific dependencies and risks very interesting. This could be expanded upon and perhaps one of two references provided? Have there been	text, and due to other priorities we could not follow up on this comment in
Goring	Ch.2	134	3882	134	3886		the new appendix
	·						Thanks for the valuable comment; due to a need for drastic downsizing the
Hoalth Povision Zaric						This means that differentials in the ways in which some communities (including indigenous and local communities), groups specifically associated with nature (through work, education, presentials), and the state of the specific and the specific	whole health section, we were not able to incorporate this into the new
Health Review: Zorica Popovic	Ch.2	134	3882	134	3886	recreational activities, tourism) or groups within wider society (e.g. women, people suffering from poverty) experience and interact with biodiversity and ecosystems may also result in differences in the influence of biodiversity and ecosystems on their health status, with the potential for group- or community-specific dependencies and risks.	text, and due to other priorities we could not follow up on this comment in the new appendix
		254	5032		5300	and the second s	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Emma	Ch 2			***			text, and due to other priorities we could not follow up on this comment in
Goring	Ch.2	134	3887	134	3891	It is stated that healthcare systems are struggling due to changing demographics, climate change, etc. Is there (quantitative) evidence of this that could be refrenced or given here?	the new appendix

which have been compared to the form of the compared of the co	r	1						<u> </u>
Learn Marcher Code 1								Thanks for the valuable comment; due to a need for drastic downsizing the
The control of the co								
Section for the cultimate content of the culti		Ch 2	124	2007	124	2001	The whole and to set healted up with any station	
well completed by the complete of the complete	TOGOTOV	CII.2	154	3007	154	3691	The whole part is not backed up with any citation.	
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Control Contro	Health Review: Julie							
Lister Tables (1) 12 1 13 1 13 1 13 1 13 1 13 1 13 1 13	Garnier	Ch.2	134	3891	134	3891	Keyb issues also include highly sectoralized health at governances and policy levels (See One Health paper - Queennan et al 2017)	
The This Review Price 1								Thanks for the valuable comment; due to a need for drastic downsizing the
Express 5.1 1.5 300 1.5 300 1.5 300 sever of the first personnel continues in the sever of might be sever of the sever								whole health section, we were not able to incorporate this into the new
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Mach Reserved OLD 180 201 201	Garnier	Ch.2	134	3906	134	3907	One Health IS an integrated approach and is increasingly recognized as the approach needed for dealing with global health challenges by WHO, FAO, OIE.	the new appendix
Mail Rouseword Ct. 2 18 291 134 191 Would be good to have a stronger find to MCNs in this section . ***House the structure of the MCD octions a bit code.** Why use the title scena to nature? Yeature is a very ill-defined term for this publication, there are many terms used in the leterance and finish the discussion of the dedices provided and the leterance and finish the discussion of the dedices provided and the leterance and finish the discussion of the dedices provided and the leterance and finish the discussion of the dedices provided and the leterance and finish the discussion of the dedices provided and the leterance and finish the discussion of the dedices provided and the leterance and finish the discussion of the dedices provided and the leterance and finish the discussion of the dedices provided and the leterance and finish the discussion of the dedices provided and the leterance and finish the discussion of the dedices provided and finish the discussion of the dedices p						l		Thanks for the valuable comment; due to a need for drastic downsizing the
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Section 2.3.2.1 Non-communicable disease. This section is divided in three sub-sections: mutition, access to nature and ecotoxicology. I really miss inclusion of an emerging important topic, ramely the liels between blockwertay and NCD. It is somewhat unclear whether the linkages between blockwertay and NCD is part of the section on access to nature. It is seen that the immune systems included as heath outcome in Table 2.31, but it returns clear what mechanism would underly the health impart (access to stature." It is seen that the health impart (access t		Ch 2	13/	3011	1/11	4005		Changed into 'Exposure to nature'
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						"()cardiovascular diseases are the major NCDs worldwide, with the highest per-capita 3921 cardiovascular disease burden falling on Eastern Europe and Central Asia (Benziger et al.,	whole health section, we were not able to incorporate this into the new
Health Review:						2016)". This statement may be related to Table 2.1 (page 10), relatively to Regulation of climate (reduce heat stress) for which effects are correlated (heat stress and stroke and	text, and due to other priorities we could not follow up on this comment in
Margarida Simões	Ch.2	135	3920	135	3921	cardiovascular diseases)	the new appendix
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Huynen Health Review: Lars	Cn.2	135	3921			I do not think that Benziger et al 2016 is included in the references list to this chapter. (note: I did not check all references) No specific comments to the text but I commented on the state of evidence and key messages in the expert consultation for this tekst part, which will feed into the next version of this	the new appendix
Biork	Ch 2	135	3928	148		no specific continents to the text but i continented on the state of evidence and key messages in the expert consultation for this texts part, which will recommend the next version of this texts part.	thanks
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							whole health section, we were not able to incorporate this into the new
Health Review: Maud						Would there be a possibility to include a separate subsection stressing the importance of biodiversity-climate-health interlinkages. I think it would really be a big omission and a missed	text, and due to other priorities we could not follow up on this comment in
Huynen	Ch.2	135	3928	148		opportunity if this issue is not made more explicit in this chapter.	the new appendix
						L	Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						The lack of coordination of policy making between agriculture and health undermines efforts to overcome ill health among the rural poor and gives short shrift to agriculture's role in alleviating many of the world's most serious health problems. Considered here are malaria, pesticide poisoning, AIDS, and diseases transmitted from animals to humans. The important	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Gilberto IGREJAS	Ch.2	135	3928	136	3068	altervating many or the words of most serious needs in proteins. Considered nere are mainta, pesticide possibility, Alba, and diseases transmitted from animals to numaris. The important link through food security and nutrition is discussed elsewhere.	the new appendix
GIIDETTO TOTIESTES	CIIIZ	133	3320	150	3300	initial and open root decently that matrician is discussed electricities.	тем аррения
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Health Review: An						tekst part Please insert the following reference after the "modern pharmaceutical products"; (Cragg & Newman, 2016): Newman, D.J., & Cragg, G.M. (2016). Natural Products as Sources	text, and due to other priorities we could not follow up on this comment in
Martel	Ch.2	135	3928	148		of New Drugs from 1981 to 2014. J. Nat. Prods., 79 (3), 629-661. DOI: 10.1021/acs.jnatprod.5b01055	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review: Valeria							whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Negri	Ch 2	135	3929	135	3020	An issue lacking: not just 'modern agriculture', but 'ALL TYPES OF AGRICULTURE' (including traditional agriculture in less developed areas, organic agriculture, etc)	the new appendix
Negri	CILE	155	3323	155	3323	An issue meeting, not just modern agriculture, but Act in Exist Admitotrate (memoring distinction in resistance) and exercise a first memoring distinction in the state of the	the new appendix
Health Review:						The term 'well established' (used as a consistent confidence term for this review) is more accurate for this statement, than the term well documented' (which seems broad and	
Konstantinos Tzoulas	Ch.2	135	3929	135	3930	undefined). Consider amending accordingly.	Adapted in the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
						In the nutrition section urban food growing needs mentioning, including the potential benefits and risks from air and land contamination. References to consider include: Lawson, L.,	whole health section, we were not able to incorporate this into the new
Health Review:						2016. Agriculture: Sowing the city, Nature, 540, 522-524. Meharg, A.A., 2016. City farming needs monitoring. Nature, 531, 560; Leake, J.R., Adam-Bradford A., Rigby J.E., 2009. Health	text, and due to other priorities we could not follow up on this comment in
Konstantinos Tzoulas	Ch.2	135	3929	136	3968	benefits of 'grow your own' food in urban areas: implications for contaminated land risk assessment and risk management? Environ Health, 8 Suppl 1: S6.	the new appendix
						Of increasing interest is the role which biodiversity can play in nutrition security towards the concept of "functional food", supporting dietary health by providing a wide food resource	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review: Zorica						base, diversifying sources of macro- and micro-nutrients, providing opportunities for development of nutraceuticals, and helping to meet nutritional needs in times of social or economic	text, and due to other priorities we could not follow up on this comment in
Popovic	Ch.2	135	3930	135	3934	instability (Hunter et al., 2015).	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Sjerp							text, and due to other priorities we could not follow up on this comment in
de Vries	Ch.2	135	3935	135	3951	Is this relevant with regard to contributions to health?	the new appendix
UNEP-WCMC: The Biodiversity Indicators						Excellent use of these data; very important to retain.	
Partnership (BIP)	Ch 2	135	3941	135	3943		Thanks
Thomas Brooks	Ch.2	135	3941	135		Excellent use of these data; very important to retain.	Thanks
				200	2343		Thanks for the valuable comment; due to a need for drastic downsizing the
						Lacking bibliographic references: Magos Brehm, J., N. Maxted, B.V. FordLloyd, and M.A. Martins Loução 2008. National inventories of crop wild relatives and wild harvested plants: case	whole health section, we were not able to incorporate this into the new
Health Review: Valeria						study for Portugal. Genet. Resour. Crop. Evol. 55:779–796 Landucci F., Panella L., Lucarini D., Gigante D, Donnini D., Kell S., Maxted N., Venanzoni R., Negri V. 2014. A prioritized inventory	text, and due to other priorities we could not follow up on this comment in
Negri	Ch.2	135	3945	135	3948	of crop wild relatives and wild harvested plants of Italy. Crop Science. 54: 1628-1644 DOI: 10.2135/cropsci2013.05.0355	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Heelth Day's Vala							whole health section, we were not able to incorporate this into the new
Health Review: Valeria Negri	Ch 2	135	3950	135	2051	Islands like Madeira or the Canary islans belong to 'Western' Europe, Western Europe is not mentioned in the text (Western in place of Eastern?)	text, and due to other priorities we could not follow up on this comment in the new appendix
ivegii	CII.Z	133	3530	133	3531	Islands like wadena or the Canary islans belong to western Europe, western Europe is not mentioned in the text (western in place or Eastern?)	пе нем аррения
	1	1				Additional recent studies on edible wild plants of Europe for subchapter 2.3.2.1.1 Nutrition are provided bellow for your consideration	
		1					
						Guarrera PM, Savo V. Wild food plants used in traditional vegetable mixtures in Italy. J Ethnopharmacol. 2016 Jun 5;185:202-34.	
						Pulaj B, Mustafa B, Nelson K, Quave CL, Hajdari A. Chemical composition and in vitro antibacterial activity of Pistacia terebinthus essential oils derived from wild populations in Kosovo.	
						BMC Complement Altern Med. 2016 May 26;16:147.	
						Licata M, Tuttolomondo T, Leto C, Virga G, Bonsangue G, Cammalleri I, Gennaro MC, La Bella S. A survey of wild plant species for food use in Sicily (Italy) - results of a 3-year study in four	
						Regional Parks. J Ethnobiol Ethnomed. 2016 Feb 9;12:12.	Thoule for the valuable someont, due to a condition down to
						Kaliszewska I, Kołodziejska-Degórska I. The social context of wild leafy vegetables uses in Shiri, Daghestan. J Ethnobiol Ethnomed. 2015 Aug 11;11:63. (Daghestan is in Eastern Europe). Schunko C, Grasser S, Vogl CR. Explaining the resurgent popularity of the wild: motivations for wild plant gathering in the Biosphere Reserve Grosses Walsertal, Austria. J Ethnobiol	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:						Schulink C, Grasses 7, Vog. Ck. Explaining the resulgent popularity of the wild: motivations for wild plant gathering in the biosphere Reserve Grosses Walsertal, Austria. J Ethnomed. Ethnomed. 2015 Jun 30:11:55.	text, and due to other priorities we could not follow up on this comment in
Theofilos Poutahidis	Ch.2	135	3952	136	3968	Kasper-Pakosz R, Pietras M, Łuczaj Ł. Wild and native plants and mushrooms sold in the open-air markets of south-eastern Poland. J Ethnobiol Ethnomed. 2016 Oct 7;12(1):45 🗵	the new appendix
		. 155	3332	130	5550	,,,,	

	1						T
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review: Sjerp							whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
de Vries	Ch.2	135	3952	136	3968	What is the conclusion with regard to contribution to health?	the new appendix
de viies	CITIZ	155	5552	150	3300	Time is the concession management to continue the result.	are new appendix
						The phrase 'widely assessed' does not seem to be accurate, especially since the statement has only been substantiated by one reference. Either the phrase 'widely assessed' needs	Thanks for the valuable comment; due to a need for drastic downsizing the
						replacing with an accurate phrase, or additional references added. Further references that could be relevant include: MISRA, R.C., SAHOO, H.K., PANI, D.R. and BHANDARI, D.C., 2013.	whole health section, we were not able to incorporate this into the new
Health Review:						Genetic resources of wild tuberous food plants traditionally used in Similipal Biosphere Reserve, Odisha, India. Genetic Resources and Crop Evolution, 60(7), pp. 2033-2054.;	text, and due to other priorities we could not follow up on this comment in
Konstantinos Tzoulas	Ch.2	135	3952	135	3952	NEDELCHEVA, A., 2013. An ethnobotanical study of wild edible plants in Bulgaria. EurAsian Journal of BioSciences, 7, pp. 77-94.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Hardah Bardani Maria							whole health section, we were not able to incorporate this into the new
Health Review: Maud Huynen	Ch.2	136	3879	136	2002	Include references to these 14 review studies	text, and due to other priorities we could not follow up on this comment in the new appendix
nuyileii	CII.2	130	30/3	130	3302	miciade references to diese 14 review studies	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
	Ch.2	136	3966	136	3968	Could this reference be of relevance? KHASBAGAN, HUAI, H., PEI, S., 2000. Wild plants in the diet of Arhorchin Mongol herdsmen in Inner Mongolia. Economic Botany, 54(4), pp. 528-536.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
							text, and due to other priorities we could not follow up on this comment in
Hanna Skryhan	Ch.2	136	3969	137	4004	add information about consequencies of the Chernobyl disaster	the new appendix
						Additional studies to support statement: "wild foods as a route of exposure to environmental contaminants" of subchapter 2.3.2.1.2 Ecotoxicology are given bellow for your	
						consideration	
						Galgowska M, Pietrzak-Fiečko R. Pesticide contaminants in selected species of edible wild mushrooms from the north-eastern part of Poland. J Environ Sci Health B. 2017 Mar 4;52(3):214-	
						2017.	
						Erric I, Kasap A, Bedekovic D, Falandysz J. Lead, cadmium and mercury contents and bioaccumulation potential of wild edible saprophytic and ectomycorrhizal mushrooms, Croatia. J	Thanks for the valuable comment; due to a need for drastic downsizing the
						Environ Sci Health B. 2017 Mar 4;52(3):156-165.	whole health section, we were not able to incorporate this into the new
Health Review:						Abass K, Koiranen M, Mazej D, Tratnik JS, Horvat M, Hakkola J, Järvelin MR, Rautio A.Arsenic, cadmium, lead and mercury levels in blood of Finnish adults and their relation to diet,	text, and due to other priorities we could not follow up on this comment in
Theofilos Poutahidis	Ch.2	136	3969	136	3969	lifestyle habits and sociodemographic variables. Environ Sci Pollut Res Int. 2017 Jan;24(2):1347-1362. doi: 10.1007/s11356-016-7824-5.	the new appendix
						The ecotoxicology section would benefit from: 1. Identifying the need to prioritize contaminants and other stressors of concerns within different parts of ECA; and 2. Identify next	Thanks for the valuable comment; due to a need for drastic downsizing the
						generation tools employed to understand ecological responses to and functions providing resilience to stressors. Herein, the Adverse Outcome Pathway approach (Ankley et al 2010.	whole health section, we were not able to incorporate this into the new
Health Review: Bryan W. Brooks	Ch.2	136	3969			Environmental Toxicology and Chemistry), ecological genomics (see https://cfpub.epa.gov/si/si_public_record_report.cfm?dirEntryId=335537) and high resolution chemical profile analysis.	text, and due to other priorities we could not follow up on this comment in the new appendix
W. BIOOKS	CII.2	130	3909			attarysts.	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Sjerp						Is this section not rather early positioned in the chapter? Perhaps better at the end of the chapter and combine it with other disservices/potential negative effects (e.g. growing	text, and due to other priorities we could not follow up on this comment in
de Vries	Ch.2	136	3969			vegetables in allotment gardens with polluted soil).	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
						Agriculture affects health, and health affects agriculture. Agriculture supports health by providing food and nutrition for the world's people and by generating income that can be spent	whole health section, we were not able to incorporate this into the new
Health Review:						on health care. Yet agricultural production and food consumption can also increase the risks of water-related diseases (malaria) and foodborne diseases—as well as health hazards linked	text, and due to other priorities we could not follow up on this comment in
Gilberto IGREJAS	Ch.2	136	3969	137	4004	with specific agricultural systems and practices, such as infectious animal diseases (avian flu, brucellosis), pesticide poisoning, and aflatoxicosis.	the new appendix
						Consider mentioning the fact that some of the European edible plants may themselves contain substances causing subclinical adverse health effects	
						Kristanc L, Kreft S.European medicinal and edible plants associated with subacute and chronic toxicity part I: Plants with carcinogenic, teratogenic and endocrine-disrupting effects. Food Chem Toxicol. 2016 Jun;92:150-64	
						Kristanc I, Kreft S. European medicinal and edible plants associated with subacute and chronic toxicity part II: Plants with hepato-, neuro-, nephro- and immunotoxic effects. Food Chem	
Health Review:						Toxicol. 2016 Jun;92:38-49.	
Theofilos Poutahidis	Ch.2	136	3970	136	3982		This is touched upon in the medicinal plants section in the appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
						The section on ecotoxicology seems unfinished and an early draft. There is no clear narrative that runs through this section. The last sentence of the section (lines 4003-4004) are very	whole health section, we were not able to incorporate this into the new
Health Review:						broad and general (potential for what exactly? How could such different studies all be grouped and generalised as one?). There is no clear conclusion from this section. The whole section	text, and due to other priorities we could not follow up on this comment in
Konstantinos Tzoulas	Ch.2	136	3970	137	4004	needs re-writing.	the new appendix Thanks for the valuable comments due to a pood for dractic downsizing the
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
						The question of toxicity of lead ammunition has been a very hot topic in Norway. This literature could be revised more thoroughly. Similar systems in Sweden and Finland. Sigbjørn	text, and due to other priorities we could not follow up on this comment in
Graciela Rusch	Ch.2	136	3974	136	3974	Stokke could be contacted for further information Sigbjorn. Stokke@nina.no and Bjørnar Ytreshus for one-health Bjornar. Ytrehus@nina.no	the new appendix
						Additional references for supporting statement "In contrast, some other studies" are provided bellow	
						Lehel J, Laczay P, Gyurcsó A, Jánoska F, Majoros S, Lányi K, Marosán M. Toxic heavy metals in the muscle of roe deer (Capreolus capreolus)food toxicological significance. Environ Sci	
						Pollut Res Int. 2016 Mar;23(5):4465-72.	Thanks for the valuable comment; due to a need for drastic downsizing the
I						García MÁ, Núñez R, Alonso J, Melgar MJ. Total mercury in fresh and processed tuna marketed in Galicia (NW Spain) in relation to dietary exposure. Environ Sci Pollut Res Int. 2016	whole health section, we were not able to incorporate this into the new
Health Review:						Dec;23(24):24960-24969.	text, and due to other priorities we could not follow up on this comment in
Theofilos Poutahidis Health Review: Sjerp	Ch.2	136	3975	136	3975		the new appendix
de Vries	Ch.2	136	3979	136	3000	So, what is the conclusion regarding contribution to health?	Clarified in the new appendix
ac viics	J2	130	3319	130	3302	por mine or the commonwer regarding contribution for neutrit	отпессия и и пеж аррения
						Recent review studies on ecotoxicology relevant to health issues for the ECA-region IPBES assessment (N=14) focus mainly on environmental pressure on the ecosystem related to health	Thanks for the valuable comment; due to a need for drastic downsizing the
						care & safety (N=11) and some on the use of animals or plants as bioindicators for monitoring environmental pollution and its effects (N=3). Reserach on phytoremediation led to the	whole health section, we were not able to incorporate this into the new
Health Review: Zorica						sucessful implementation of solutions related to using of green plants to remove, contain, inactivate or destroy harmful environmental pollutants (Schwitzguebel, 2004). Schwitzguebel,	text, and due to other priorities we could not follow up on this comment in
Popovic	Ch.2	136	3979	136	3982	J. P. (2004). Potential of phytoremediation, an emerging green technology: European trends and outlook. PROCEEDINGS-INDIAN NATIONAL SCIENCE ACADEMY PART B, 70(1), 131-152.	the new appendix
Health Review: Daniel							
Todorov	Ch.2	136	3979	136	3982	The whole part is not backed up with any citation.	Clarified in the new appendix
Health Review: Sjerp	Ch.2	136	3983			Describing subscripting fit in this continues are articles the health found eather conductivities this continues 2.2.2.2.2.	Voc. it conseque hoolth relevant recover in relation to not
de Vries	CII.Z	136	3983		l	Does this subsection fit in this section on contributions to health (and rather early within this section, 2.3.2)?	Yes, it concerns health relevant research in relation to nature

April 1997 Company C								
Part Part							Re: Bisphenol A. An additional reference:	The defendance of the second for the
semble from the control of the contr								
Section Special Conference Confer	Health Review:						Exposure to dispire for A with obesity and cardiometabolic datas in climanood. Elivinon test, 2010 Apr., 240-375 67.	text, and due to other priorities we could not follow up on this comment in
See 1. 19. 19. 19. 19. 19. 19. 19. 19. 19.		Ch.2	136	3987	136	3987		
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Secretary O. 1 19 190 190 190 190 190 190 190 190 19		Ch.2						
Country Cou		Ch.2	136	3988	136	3988	"inconclusive": confidence term? If so to be used between brackets. If noy alternative wording should be used.	not intended as a IPBES confidence term
The war of partners and according to expert a more transfer and control and the size and control and the size and according to the size and accordin		Ch 2	126	2000	120	2004	Place to attention to the kildings why.	Not ours what is most with the someont
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medical responsibility of the compan							recognizing currently unrecognized ones (Mansouri K, et al. CERAPP: Collaborative Estrogen Receptor Activity Prediction Project. Environ Health Perspect. 2016 Jul;124(7):1023-33.) Additional recent studies from Europe reporting on endocrine disruptors include (but not restrict to)	
Report CA, Maria AS, Robins of AC, Code C, Almeda AS, and to All Code Control Page 200 Code Control Page 200 Code Control Page 200 Code Control Page 200 Code Code Code Code Code Code Code Code							newborn weight in Southern Spain. Chemosphere. 2016 Aug; 156:135-42. Ruczyńska W, Szlinder-Richert J, Drgas A. The occurrence of endocrine disrupting compounds in off-shore sediments from the southern Baltic Sea. Environ Sci Process Impacts. 2016 Sep	
Light Review (Co.) F. Peterno F. A. (Light May Co.) May (Co.) F. Peterno F. A. (Light May Co.) May (Co.) F. Peterno F. A. (Light May Co.) May (Co.) F. Peterno F. A. (Light May Co.) May (Co.) F. Peterno F. A. (Light May Co.) May (Co.) F. Peterno F. A. (Light May Co.) May (Co.) F. Peterno F. A. (Light May Co.) May (Co.) F. Peterno F. A. (Light May Co.) May (Co.) F. Peterno F. A. (Light May Co.) May (Co.) F. Peterno F. A. (Light May Co.) May (Co.) F. Peterno F. A. (Light May Co.) May (Co.) F. Peterno F. A. (Light May Co.) May (Co.) F. Peterno F. A. (Light May Co.) May (Co.) F. Peterno F. A. (Light May Co.) May (Co.) F. Peterno F. A. (Light May Co.) May (Co.) Ma							Ribeiro CM, Maia AS, Ribeiro AR, Couto C, Almeida AA, Santos M, Tiritan ME. Anthropogenic pressure in a Portuguese river: Endocrine-disrupting compounds, trace elements and	
Final Behavior Fina							Cocci P, Palermo FA, Quassinti L, Bramucci M, Miano A, Mosconi G. Determination of estrogenic activity in the river Chienti (Marche Region, Italy) by using in vivo and in vitro bioassays. J	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
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It was extremely happy to see mention of green and blue spaces in this chapter. However, again I felt that there was much more focus on the physical health links with these that the review. The control of the control	Graciela Rusch (Ch.2	137		137		The analysis in this section is very good. If some of this (listing references, indicating degree of certainty and regional coverage) could be done to structure other sections, the specific	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in the new appendix
Access to nature: I miss a brief overview of the possible underlying mechanism. Direct effects of access to nature (for mental wellbeing?), indirect effect via physical activity, how does success to nature affect the endorrine system?? et ect. (What is included in the term access to nature? For example, line 4020-402 1 discusses reduced heat stress through improved the two does not necessary to a support of the possible underlying mechanism. Direct effects of access to nature? For example, line 4020-402 1 discusses reduced heat stress through improved the two does not necessary to a support of the possible underlying mechanism. Direct effects of access to nature? For example, line 4020-402 1 discusses reduced heat stress through improved the text whole heaths text could not follow up on the new appendix. Thanks for the valuable commercing due to a need for drastic discusses of the possible underlying the possible underlying mechanism. Direct effects of access to nature? For example, line 4020-402 1 discusses reduced heat stress through improved the text whole heaths text whole heaths text with the could not follow up on the new appendix. Thanks for the valuable commercing due to a need for drastic discusses of the possible underlying mechanism. The possible underlying mechanism. The device of the possible underlying due to a need for drastic discusses of the possible underlying due to a need for drastic discusses of the possible underlying due to a need for drastic discusses of the possible underlying due to a need for drastic discusses of the possible underlying due to a need for drastic discusses of the possible underlying due to a need for drastic discusses of the possible underlying due to a need for drastic discusses of the possible underlying due to a need for drastic discusses of the possible underlying due to a need for drastic discusses of the possible underlying due to a need for drastic discusses of the possible underlying due to a need for drastic discusses of the possible underlying due to a need		Ch.2	137	4005	141	4095		Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in the new appendix
Health Review: Gilberto (GREJAS Ch. 2 137 4005 141 4095 countries Worse, developing countries overuse pesticides and do not take proper safety precautions because they do not understand the risks and fear smaller harvests. Making matters worse, developing countries seldom have strong regulatory systems for dangerous chemicals: Pesticides banned or restricted in industrial countries are used widely in developing the worse of the review of the total configuration of the review and the risks and fear smaller harvests. Making matters worse, developing countries seldom have strong regulatory systems for dangerous chemicals: Pesticides banned or restricted in industrial countries are used widely in developing the review of the valuable comment; due to a need for drastic whole health section, we were not able to incorporate this text, and due to other priorities we could not follow up on it the review and the review of the valuable comment; due to a need for drastic whole health section, we were not able to norporate this text, and due to other priorities we could not follow up on it the review and studies mentioned in lines 4007-4012, would be collated, evaluated and summarised. Without this synthesis it is difficult to see how one conclusion from one review could reflect the broad for research shown by the studies mentioned and the star of this paragraph, to reflect the key messages across the studies mentioned in lines 4007-4012, would be collated, evaluated and summarised. Without this synthesis it is difficult to see how one conclusion from one review could reflect the text, and due to other priorities we could not follow up on it has broad the review and studies mentioned in lines 4007-4012, would be collated, evaluated and summarised. Without this synthesis it is difficult to see how one conclusion from one review could reflect the text, and due to other priorities we could not follow up on it has not been also as a structure of the section on all the section is provided in the following sub-sections (a) o	Health Review: Maud	Ch 2	127		141		Access to nature: I miss a brief overview of the possible underlying mechanism. Direct effects of access to nature (for mental wellbeing?), indirect effect via physical activity, how does access to nature affect the endocrine system??? etc etc. What is included in the term 'access to nature'? For example, line 4020-402 1 discusses reduced heat stress through improved	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Health Review: Stefania Paduano Ch.2 137 4006 137 4016 Martinez Juarez et al 2015 The impact of ecosystems on human health and well-being: A critical review. J Outdoor Recreation and Tourism. 10;63-69. This study cab be added the new appendix then was papendix then the waspendix then waspendix This paragraph ends with a conclusion from a literature review, that may or may not had the same aim and objectives of the review reported here. So, it is not clear how the conclusion from Sandfer et al. (2015) could reflect the review of the studies mentioned at the start of this paragraph. It would be expected that the conclusions, from end of the reviews and studies mentioned in lines 4007-4012, would be collated, evaluated and summarised. Without this synthesis it is difficult to see how one conclusion from one review could reflect the breadth of research shown by the studies mentioned above. Consider amending the second half of this paragraph, to reflect the key messages across the studies mentioned in the first Konstantinos Tzoulas The whole of section 2.3.2.1.3 could improve with a clear structure and narrative. At the moment the information in this section is provided in the following sub-sections (a) overview of a body of literature other than the literature reviews that were covered (lines 4006-4015); (b) overview of European projects (lines 4017-4028); (c) strength of evidence for specific health outcomes from contact with nature (Table 2.17), fine, literature shown in Tables 2.17 and 2.18, then the start of the section ough to overview the fireture shown in Tables 2.17 and 2.18, then the start of the section ought to overview the fireture shown in Tables 2.17 and 2.18, then the start of the section ought on verview the fireture shown in Tables 2.17 and 2.18, then the start of the section ought to overview the fireture shown in Tables 2.17 and 2.18, then the start of the section ought to overview the literature shown in Tables 2.17 and 2.18, then the start of the section ought to overview the fireture shown i	Health Review:						Many farmers in developing countries overuse pesticides and do not take proper safety precautions because they do not understand the risks and fear smaller harvests. Making matters worse, developing countries seldom have strong regulatory systems for dangerous chemicals: Pesticides banned or restricted in industrial countries are used widely in developing	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in the new appendix
Health Review: Ana R. Ribeiro Ch. 2 137 4006 "shows THAT there are" This paragraph ends with a conclusion from a literature review, that may or may not had the same aim and objectives of the review reported here. 50, it is not clear how the conclusion from sandifer et al. (2015) could reflect the review of the studies mentioned at the start of this paragraph. It would be expected that the conclusions from each of the reviews and the studies mentioned in the first studies mentioned at the start of this paragraph. It would be expected that the conclusions from one review could reflect the breadth of research shown by the studies mentioned at the start of this paragraph, to reflect the key messages across the studies mentioned in the first breadth of research shown by the studies mentioned above. Consider amending the second half of this paragraph, to reflect the key messages across the studies mentioned in the first the review of the studies mentioned in the first whole health section, we were not able to incorporate this text, and due to other priorities we could not follow up on the new appendix The whole of section 2.3.2.1.3 could improve with a clear structure and narrative. At the moment the information in this section is provided in the following sub-sections (a) overview of a body of literature of viewnec for specific health outcomes from contact with nature (Table 2.17, lines 4029-4050); (d) attempted explanation of differences in strength of evidence (Table 2.18, Figure 2.71 and lines 4051-4067); (e) negative aspects of ecosystems and health (only touched upon, lines 4068-4072); (f) gaps in knowledge (lines 4077-4086); and (g) water bodies (lines 4087-4055). First, if this section is about the literature shown in Tables 2.17 and 2.18, then the start of the section ought to overview the literature shown in Tables 2.17 and 2.18, then then start of the section ought to overview the literature shown in Tables 2.17 and 2.18, then then start of the section ought to overview the literature shown in Ta		Ch 2	137	4006	137	4016	Martinez Juarez et al 2015 The impact of exosystems on human health and well-heine: A critical review. I Outdoor Recreation and Tourism. 10:63-69. This study cab be added	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in the new anneadix
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Rebecca lovel Ch.2 137 4007 137 4016 Section.	Health Review: Rebecca Lovell	Ch.2	137	4007	137	4016	I think this paragraph needs redrafting. Some of the references are included twice and in different formats. The comment that more research is needed should go at the end of this section.	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in the new appendix

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Health Review: Sjerp de Vries	Ch.2	137	4012	137	4016	Confusing: strong evidence vs. limited in rigor. Which is it?	This is a quote
de viies	CII.Z	137	4012	137	4010	Company: strong evacance vs. mineco in rigor, writer or it	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Daniel Todorov	Ch 2	137	4012	137	4016	I geet the idea but the structure of the last part makes it unclear clear.	text, and due to other priorities we could not follow up on this comment in the new appendix
Health Review: Sjerp	CII.Z	137	4012	137	4010	rgeet the loca but the structure of the last part makes it unities treat.	пе нем аррения
de Vries	Ch.2	137	4017	137	4028	Conclusions of these two (large?) projects?	We have added status / conclusions of these projects.
Health Review: Rebecca Lovell	Ch.2	137	4017	138		I'm not sure why providing extensive details of EU funded projects (including the mention of the BlueHealth project later in the chapter) is useful. I'd out back to one or two sentences and save words for actual evidence? Line 4035 – the reviews relate to more than just the quantity of greenspace around residential areas. Also relate to proximity, type, features, qualities etc. There are many more reviews (many of which are fully systematic) which could have been included in the table and text to give a more comprehensive overview of the state of the evidence. I've included a list of some of the ones I am aware of at the end of this document. Some of the reviews used here are not systematic, give little detail on method, or do not consider the quality of the evidence. The title of table 2.17 needs restructuring. Why don't you use the after four box evidence assessment approach as used in the full IPBES assessment? In the table (and genrally) I don't think that the use of language which suggests change (e.g. 'improved' mental health, 'reduced' mental health) is helpful unless ovu are discussing the results of an intervertion or change in some exposure etc. I don't agree with some of the summaries of evidence in the table, e.g. that 'improved' (see above) Mental Health' is 'week'— the Hartig et al. 2014 review for instance (which should be referenced here as it is a review of reviews) concluded that some of the strongest evidence relates to mental health. The 'positive or weak' summary in relation to obesity could be misinterpreted. I don't think there is 'consistent' evidence that nature based physical activity is a precursor of reduced obesity — the Lachowzy paper specifically highlights the lack of evidence, and the global links between obesity and physical activity are, as of, yet unclear. The reporting of the strength of evidence (arguably not the strength but the consistency) changes towards the end of the table (reduced cardiovascular disease row).	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in the new appendix
						Executive summary and main report: ten Brink P., Mutafoglu K., Schweitzer JP., Kettunen M., Twigger-Ross C., Kuipers Y., Emonts M., Tyrväinen L., Hujala T., Ojala A. (2016) The Health	
Health Review:						and Social Benefits of Nature and Biodiversity Protection – Executive summary. A report for the European Commission (ENV.B.3/ETU/2014/0039), Institute for European Environmental	
Stefania Paduano	Ch.2	137	4017	137	4022	Policy, London / Brussels. I think you have just written this in red IEEP et al. 2016, but I didn't find it in the paragraph 2.6 References.	Will be included in the new appendix
Health Review: Stefania Paduano	Ch.2	137	4017	137	4022	Case studies: Schweitzer J-P., Mutafoglu K., ten Brink P., Paquel K., Illes A., Gitti G., Kettunen M., TwiggerRoss C., Baker J., Kuipers Y., Emonts M., Tyrväinen L., Hujala T., and Ojala A. (2016) The Health and Social Benefits of Nature and Biodiversity Protection: Annex 1: 20 Cases. A report for the European Commission (ENV.B.3/ETU/2014/0039), Institute for European Environmental Policy, London/Brussels. I think you have just written this in red IEEP et al. 2016, but I didn't find it in the paragraph 2.6 References.	we will refer to the main report
Health Review: Konstantinos Tzoulas	Ch.2	137	4025	137	4020	This sentence needs further explanation and elaboration. What were the findings from this study? Why are these findings significant to merit mentioning here (i.e. making relevance explicit).	the sentence is deleted in the new appendix
KONSTANTINOS 1200IAS	CII.2	137	4025	137	4028	expirity.	the sentence is deleted in the new appendix
Health Review:						Additional evidence Re: "positive relation between the quantity of green space around residential areas and certain health outcomes.": Ruijsbroek A, Mohnen SM, Droomers M, Kruize H, Gidlow C, Gražulevičiene R, Andrusaityte S, Maas J, Nieuwenhuijsen MJ, Triguero-Mas M, Masterson D, Ellis N, van Kempen E, Hardyns W, Stronks K, Groenewegen PP. Neighbourhood green space, social environment and mental health: an examination in four European cities. Int J Public Health. 2017 Apr 7. Nieuwenhuijsen MJ, Khreis H, Triguero-Mas M, Gascon M, Dadvand P. Fifty Shades of Green: Pathway to Healthy Urban Living. Epidemiology. 2017 Apr.28(1):537-1. Zach A, Meyer N, Hendrowarsito L, Kolb S, Bolte G, Nennstiel-Ratzel U, Stillanakis NI, Herr C; GME Study Group. Association of sociodemographic and environmental factors with the mental health status among preschool children-Results from a cross-sectional study in Bavaria, Germany. Int J Hyg Environ Health. 2016 Jul;219(4-5):458-67 Grazuleviciene R, Vencloviene J, Kubilius R, Grizas V, Danileviciute A, Dedele A, Andrusaityte S, Vitkauskiene A, Steponaviciute R, Nieuwenhuijsen MJ.Tracking Restoration of Park and Urban Street Settings in Coronary Artery Disease Patients. Int J Environ Res Public Health. 2016 May 31:131(6) van den Berg M, van Poppel M, van Kamp J, Andrusaityte S, Balseviciene B, Cirach M, Danileviciute A, Ellis N, Hurst G, Masterson D, Smith G, Triguero-Mas M, Uzdanaviciute I, de Wit P, van Mechelen W, Gidlow C, Grazuleviciene R, Nieuwenhuijsen MJ, Kruize H, Maas J. Visiting green space is associated with mental health and vitality: A cross-sectional study in four european cities. Health Place. 2016 Mar;38:8-15.	Thank you for this relevant literature overview. As these sources are not
	Ch.2	137	4034	137	4035		reviews, we did not include them in Table 2.17.
Health Review: Sierp							This indeed is an informational addition. We have now added the green
de Vries	Ch.2	137	4036	137	4037	Generally, I am missing a discussion/mentioning of the green space/nature indicators used in the different studies.	space / nature inclusion criteria for each review study in table 2.18.
Health Review: Jenny Roe	Ch.2	137	4036			Table 2.17: Often reviewed greenspace-related health outcomes and their state of evidence as reported in reviews. Is all the literature cited systematic reviews? "often reviewed" is an ambiguous descriptor; it would be helpful to now how much rigor is applied in this list of reviews. If not systematic reviews, how included? I recommend you only include systematic reviews in this Table. Under Reduced psychiatric morbidity you state "Attention" (precursor) – what do you mean? how is attention a precursor of physciatric morbidity? do you mean cognitive functioning? The categories in this table require some consolidation e.g. Mental health; what's the differene between improved perceived mental health and general mental health? Why not combine in one category? What do the numerals mean (e.g., [ull of III]) There's no note for interpretation. The referencing is muddled; le. sometimes abbreviated initiats are included, sometimes just surnames. I'm not sure what your basis for inclusion of the reviews is, but a number of recent reviews are missing: WHO Urban Green Space and Health 2016 http://www.euro.who.int/_data/assets/pdf_file/0005/321971/Urban-green-spaces-and-health-review-evidence.pdf?ua=1 Frances Kuo, 2015 http://journal.finotiersion.org/article/10.3389/fyrsg.2015.01093/full Havarda Public Health http://www.chapharvard.org/sites/default/files/resources/Paper-NaturalEnvironmentsInitative_0.pdf On mental wellbeing, my own review (not systematic) of mental wellbeing benefits and nature, 2016 http://www.dovepress.com/article_0.3389/full-paragraps/surlay/surlay/surlay/surlay-	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in the new appendix
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Health Review: Konstantinos Tzoulas	Ch.2	137	4036	138	4038	Table 2.17 needs clarity. Specifically which studies were cross sectional and which were longitudinal needs to be clearly indicated. Also, the empty quotation marks within the Table need explaining. Where exactly in the text are the levels of evidence strength explained? Is the strength of evidence evaluated consistently across the studies? The terms used in the relevant column do not seem to suggests to (e.g. Fairly consistent and moderate both are indicated as II of III; and other terms have no indication at all!) Clarity and consistent and moderate both are indicated as II of III; and other terms have no indication at all!) Clarity and consistent and moderate both are indicated as II of III; and other terms have no indication at all!) Clarity and consistent and moderate both are indicated as II of III; and other terms have no indication at all provides the consistent and moderate both are indicated as II of III; and other terms have no indicated the consistent and moderate both are indicated as II of III; and other terms have no indicated the consistent and moderate both are indicated as II of III; and other terms have no indicated the consistent and moderate both are indicated as II of III; and other terms have no indicated the consistent and moderate both are indicated as II of III; and other terms have no indicated the consistent and moderate both are indicated as II of III; and other terms have no indicated the consistent and moderate both are indicated as II of III; and other terms have no indicated the consistent and moderate both and the consistent and moderate both are indicated as II of III; and other terms have no indicated the consistent and moderate both are indicated as II of III and II of	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in the new appendix

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Maria Mari							This casting work could be the control of the contr	
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Substitution Subs	Rebecca Lovell	Ch.2	138	4039	139	4050	health and well-being benefits of biodiverse environments. Journal of Toxicology and Environmental Health, Part B, 17(1), 1-20.	,,,,
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Intelligence for the Control of the	Malcolm Ward	Ch.2	138	4044	139	4050	Additional evidence from Natural England: http://publications.naturalengland.org.uk/category/6502695238107136	
Media New Part							Recommend adding these reviews which includes a discussion of urbanisation and mental health http://www.sciencedirect.com/science/article/sii/S00747743163012002vis%30hin.h	
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de views 9		Ch.2	139	4050			De Vries et al. (2016) in BJPO might be added here	Done, thank you.
think the section finduling table 2.18 could be reduced to a sentence or two about the types, reliability etc. of evidence. Tim not sure this helpful here and think the space could be used to discuss the extractal evidence to a spread region. You could find it as successful and the scheme of evidence reliability in the section. The successful region of the sessement of evidence reliability in the section of the sessement of evidence reliability in the section. The section of the sessement of evidence reliability in the section of the sessement of evidence reliability in the section. The section of the sessement of the selection of the section of the sessement of evidence reliability in the section. The section of the section of the sessement of evidence reliability in the section of the sessement of the section. The section of the sessement of the section of the sessement of the section of the sessement of the section of the sessement of the section of the sessement of the section								
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Health Review: Jukka- Epidemiological evidence for a relationship between microbial environment and age-adjusted Alzheimer desease burden. In: Evolution, Medicine and Public Health 2013(1): 173-186. text, and due to other priorities we coul	ld not follow up on this comment in
Pekka Jappinen Ch.2 139 4072 139 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3868447/ the new appendix	
Thanks for the valuable comment; due t whole health section, we were not able	
Health Review: Sandra text, and us to other priorities we could	
C. Buttigieg Ch.2 139 4074 140 4076 The column Evidence grading criteria is not filled up consistently across sources and therefore difficult to understand	
Thanks for the valuable comment; due t	
Table 2.18; I find some of this literature problematic, for the reasons citied above, it's not systematically generated, e.g., James et al., 2015 "This review is not meant to be whole health section, we were not able	
Health Review: Jenny Roe Ch.2 139 4074 comprehensive"; so why include? This table needs an evaluative paragraph; I found it difficult to follow; what it seems to show is that there is no consistent approaches, even in text, and due to other priorities we coul approaching reviews of the literature. The Cochrane method for systematic reviews is the gold standard to which these should be compared. the new appendix	ia not rollow up on this comment in
Thanks for the valuable comment; due to the contract of the co	to a need for drastic downsizing the
whole health section, we were not able	
Health Review: Most the points made about future research needs are good. Agree it is difficult to conduct intervention research but there are many good opportunities to which a natural experiment text, and due to other priorities we could	
Rebecca Lovell Ch.2 140 4077 140 4086 methodology could be applied? Could also note that greater use of theory – especially in relation to intervention research – would be very valuable. the new appendix	
Thanks for the valuable comment; due to Additional evidence at the Natural Resources Wales annual Welsh Outdoor Recreation Survey - https://naturalresources.wales/evidence-and-data/research-and-reports/welsh-outdoor-whole health section, we were not able	
Health Review: evenue the new further extremely and the new further extremely and the state of the further extremely and the state of the further extremely and the further ex	
Malcolm Ward Ch.2 140 4077 140 4077 140 4077 140 4077 150 4079 2016.pdf	
Thanks for the valuable comment; due t	to a need for drastic downsizing the
Challenges for future research are therefore to follow subjects prospectively, differentiate between greenness quantity and quality, and identify the above mediators (James et al., 2015; whole health section, we were not able	•
Health Review: Zorica Gascon et al., 2016). Besides, more research is needed on the impact of specific green space on the human health and well-being (specific floristic composition, volatile emission in the text, and due to other priorities we could be now a need of the control of the cont	Id not follow up on this comment in
Popovic Ch.2 140 4082 140 4082 green environment, forest bath, etc.). the new appendix Health Review: Sjerp We understand that we should not use	this concept without discussing it
we understand union we should not use the should no	
Thanks for the valuable comment; due t	to a need for drastic downsizing the
whole health section, we were not able	те потементо и пот
Health Review: Emma It is fabitastic to see mention of blue space but I felt that this section was under-developed. 'Blue spaces' as a concept should be briefly defined. For example these can be natural or man-text, and due to other priorities we could be briefly defined. For example these can be natural or man-text, and due to other priorities we could be briefly defined. For example these can be natural or man-text, and due to other priorities we could be briefly defined. For example these can be natural or man-text, and due to other priorities we could be briefly defined. For example these can be natural or man-text, and due to other priorities we could be briefly defined. For example these can be natural or man-text, and due to other priorities we could be briefly defined. For example these can be natural or man-text, and due to other priorities we could be briefly defined. For example these can be natural or man-text, and due to other priorities we could be briefly defined. For example these can be natural or man-text, and due to other priorities we could be briefly defined. For example these can be natural or man-text, and due to other priorities we could be briefly defined. For example these can be natural or man-text, and due to other priorities we could be briefly defined. For example these can be natural or man-text, and due to other priorities we could be briefly defined.	ld not follow up on this comment in
Goring Ch.2 140 4087 141 4095 made, etc. What exactly is meant by 'blue infrastructure' (this is not a commonly-known term and perhaps requires defining). When is the BlueHealth project due for completion? the new appendix	

	1			1	T		Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Daniela						The combination of nature and water (green and blue spaces) has been shown to have positive effects on helath and well-being compared to one of the spaces alone. Also, waterfalls	text, and due to other priorities we could not follow up on this comment in
Haluza	Ch.2	140	4087			have positive health effects, see Gaisberger et al. (2012), Grafetstätter et al. (2017).	the new appendix
						I'm not sure I agree with the statement that all the water/health research originates from toxicology etc There is now a small but growing body of research on bluespaces of relevance	
						to this section coming out of psychology, social sciences and geography. I'm not sure I think it is helpful to make such a distinction between blue and green spaces. Very few 'blue sapces'	
						don't have any green, and many green spaces have blue elements. Would be good to actualy report some of the evidence of the links between blue spaces (and the ecology of blue spaces) and health?? Throughout the whole chapter I think it would be very helpful to make a clear distinction between evidence which tells us which environments are associated with	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:						spaces and resource in the space of the spac	text, and due to other priorities we could not follow up on this comment in
Rebecca Lovell	Ch.2	140	4087			based solutions etc. which enhance the environment to enhance health. The term biodiversity is rarely mentioned throughout the chapter.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review: Ana R.							whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Ribeiro	Ch.2	140	4087	140	4090	This is importante, considering the uses for recreational activites, besides the use for drinking.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Zorica Popovic	Ch.2	140	4106	140	4090	However, the relationship between water and health in current literature is mostly investigated in the field of ecosystem functioning, environmental toxicology and microbiology and not explicitly in the research field of blue space and human well-being.	text, and due to other priorities we could not follow up on this comment in the new appendix
ropovic	Citiz	110	4100	240	1030	Expressly in the research new of what space which which we make the second seco	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: James	Ch.2		4000	l		The threat of displacement and gentrification as a result of tourism and property value increase is also likely much greater for new blue space infrastructure than new green space,	text, and due to other priorities we could not follow up on this comment in
JT Connolly Health Review: Sjerp	Cn.2	141	4092	141	1 4092	especially with the expansion and development of beachfronts. This threat moderates health benefits, especially for lower SES populations.	the new appendix
de Vries	Ch.2	141	4092			Associations: with mental health	Thank you, we have added this.
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review: Maud						For section 2.3.2.2.: Perhaps see theme issue Theme issue 'Conservation, biodiversity and infectious disease: scientific evidence and policy implications' compiled and edited by Hillary S.	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Huvnen	Ch.2	141	4096	142	4136	Young, Cheba L. Wood, A. Marm Klipatrick, Revin D. Lafferty, Charles L. Nunn and Jeffrey R. Vincent	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Gilberto IGREJAS	Ch.2	141	4096	146	1312	Coordinating agriculture and health interventions can yield significant welfare benefits for the poor in developing countries.	text, and due to other priorities we could not follow up on this comment in the new appendix
GIIDEI TO IGILENAS	CII.2	141	4030	140	4312	Continuous grantente and nearth met ventrons can yield significant wentre benefits for the poor in developing countries.	пенем аррения
						An issue which is not well presented here is the question of hypotheses beyond the dilution effect. For example the idea that the linearity of the interface between more natural habitat	
						and human landscapes; agricultural and settlement can lead to a similar phenomena to the forest edge effect associated with a number of vector borne diseases in tropical systems e.g. yellow fever, chikungunya, etc. Modelling of the social economic and ecological/structural changes on the disease environment show how disturbance of ecosystems might lead in some	
						circumstances to increasing disease emergence or activity in human landscapes. There may be some generalizable scenarios associated with patterns of development and different	
						landscapes and species communities. This can be through simply host switching by pathogens given population opportunity and in some cases related to changes in the so-called dilution	
						effects with biodiversity trends. Perhaps more important are the artificially generated biological and structural anomalies (genetics and novel habitat (e.g. urban environment	whole health section, we were not able to incorporate this into the new
Health Review: Richard Kock	Ch.2	141	4096	143	3 4136	dengue; monoculture livestock systems, poultry and highly pathogenic avian influenza). This idea is closely aligned to theories on resilience and biodiversity. There is an increasing literature on this subject even if still lacking in absolute proof of concept given its complexity, the evidence is building and mechanistic explanations emerging.	text, and due to other priorities we could not follow up on this comment in the new appendix
	-				1		Thanks for the valuable comment; due to a need for drastic downsizing the
						Blue health, see CREW review of literature http://www.hutton.ac.uk/sites/default/files/files/snc/CREW%20Blue%20Health%20project%20FINAL.pdf My main criticism is the criteria for	whole health section, we were not able to incorporate this into the new
Health Review: Jenny	Ch 2	141	4096			inclusion i.e. systematic reviews or just general reviews or just general research papers; over what period of time? It's not clear, and therefore difficult to assist in providing additional literature.	text, and due to other priorities we could not follow up on this comment in the new appendix
Health Review: Daniel	CII.2	141	4030			niciacuie.	пе нем аррения
Todorov	Ch.2	141	4097	142	4136	There should be some data and mentioning about the connection between lowering the biodiversity and lowering the access to folk medicine from indigenous people	Included in the section on medicinal plants
	1						The state of the s
				l		Climate change also affects human and animal health directly and indirectly through its impact on biodiversity. Hosts and pathogens were evolving together in a relatively stable climate but the equimilibrium is now changing withchange in vector distribution and behaviour and rate of evolution of pathogens being much faster than those of host species (Queenan et al	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review: Julie	1					2017) and Kock RA, Khomenko S, Zuther S, Orynbayev M. Emergency Response to Saiga Mortality Kazakhstan May 2015. Available from: URL: http://www.cms.int/saiga/sites/	text, and due to other priorities we could not follow up on this comment in
Garnier	Ch.2	141	4103		1	default/files/document/Saiga%20MOS3_report%20Kock% 20Khomenho%20Zuther%20Orynbayev%2011062015_eng_1.pdf	the new appendix
	1						Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:							whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Marieta Braks	Ch.2	141	4104	141	1 4105	i would adjust into:	the new appendix
	1	1					Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review: Julie				l		Routes of pathogen exposure for humans include through direct contacts with infected animals, through aerosols, through contact with contaminated food, soils or water, and activities	whole health section, we were not able to incorporate this into the new
Garnier	Ch.2	141	4104	<u> </u>	<u> </u>		the new appendix
				l		I think it is important to highlight that there might be different pathways involved in disease transmission. In some cases there might be conflicts between being in nature on the one	Thombs for the published assument, due to a read for decays down
				l		hand and avoiding diseases on the other hand. However, the risks must be properly evaluated and also pinpointed down to the proper pathway. A recent study highlighting this is Elmberg et al, 2017: Johan Elmberg, Charlotte Berg, Henrik Lerner, Jonas Waldenström & Rebecca Hessel (2017) Potential disease transmission from wild geese and swans to livestock,	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review: Henrik				l		poultry and humans: a review of the scientific literature from a One Health perspective, Infection Ecology & Epidemiology, 7:1, 1300450 I have further below highlighted a few other	text, and due to other priorities we could not follow up on this comment in
Lerner	Ch.2	141	4104	141	1 4106	passages where this reference might be suitable, and I think it is wise to comment on this topic only in one of these passages.	the new appendix
	1						Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:				l		Hosseini PR et al. 2017 Does the impact of biodiversity differ between emerging and endemic pathogens? The need to separate the concepts of hazard and risk. Phil. Trans. R. Soc. B 372:	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Stefania Paduano	Ch.2	141	4104	141	1 4113	20160129. It is interesting this different view on emerging and endemic pathogens.	the new appendix

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Accordance for the control of the co								Thanks for the valuable comment; due to a need for drastic downsizing the
Section Polarism Co. 2								
Inhalf Review Parlation OLY 15 490 31 410 VOC CL, Michael Mr. Young HS, Kim Del Lafferry 50, 2617 imman infectious discusses with unbalastation bad and with biodiversity. Phil. Trace, 8, 5cc 8 271; 2010022. The property of the property	Health Review:						Kilpatrick AM, Salkeld DJ, Titcomb G, Hahn MB. 2017 Conservation of biodiversity as a strategy for improving human health and well-being. Phil. Trans. R. Soc. B 372: 20160131. New	text, and due to other priorities we could not follow up on this comment in
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						2.3.2.4 Medicines and Biomedical research This subchapter seems that would benefit from some clarification and focus. Currently, it starts with reports about legal and ethical issues relating to drug development from natural	
						resources. Then it ends up with the potential of marine bacteria and plant endophytic fungi for contributions in drug discovery. First, this text seems to need a few introductory lines	
						explaining why biodiversity is important in biomedical research. Something similar to the introductory text of 2.2.2.4 Provision of Medicinal resources.	
						Chapter 9 of the 2015 WHO/CBD State of knowledge review is an excellent guide for that. Also, the two following papers	
						Chapter 9 of the 2013 WHO/CBD state of knowledge review is an excellent guide for that. Also, the two londwing papers Takahashi Y. Continuing fascination of exploration in natural substances from microorganisms. Biosci Biotechnol Biochem. 2017 Jan;81(1):6-12.	
						Shen B.A. New Golden Age of Natural Products Drug Discovery. Cell. 2015 Dec 3;163(6):1297-300.	
						It is unclear why marine cyanobacteria and plant endophytic fungi are selectively mentioned and other sources are overlooked. What about fresh water microalgae for example? Finamore A, Palmery M, Bensehaila S, Peluso I. Antioxidant, Immunomodulating, and Microbial-Modulating Activities of the Sustainable and Ecofriendly <>Spirulina> />> Oxid Med Cell	
						Longev, 2017;2017;3247528.	
						Wu Q, Liu L, Miron A, Klímová B, Wan D, Kuča K. The antioxidant, immunomodulatory, and anti-inflammatory activities of Spirulina: an overview. Arch Toxicol. 2016 Aug;90(8):1817-40.	
						a second marketing hosteric for double in contract of the cont	
						In general, mentioning bacteria for drug discovery parallels the concept of pro- and postbiotics. Along these lines there are numerous reports published at 2016 and 2017 describing similar effects of many different types of bacteria. Don't bacteria with known probiotic properties belong to our natural microbial ecosystem? Why only marine bacteria or the	Thanks for the valuable comment; due to a need for drastic downsizing the
						endophytes are considered and mentioned here as "natural" source bacteria? The lack of information regarding microbial diversity and contributions of environmental, food grade and	whole health section, we were not able to incorporate this into the new
Health Review:	Ch 2		44.53			commensal microbes in human health in chapter 2 makes it even more difficult to the reader to understand clearly the concept of subchapter 2.3.2.4	text, and due to other priorities we could not follow up on this comment in
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							whole health section, we were not able to incorporate this into the new
Health Review: Julie						Training and investment in developing One health approach is being addressed currently through European funded NEOH (Network for the Evaluation of One Health) as well as	text, and due to other priorities we could not follow up on this comment in
Garnier	Ch.2	142	4135		1	development of One Health academic courses (One Health mastyer developed by Royal Veterinary College and London School of Hygiene and Tropical medicine in London) Climate change is mentioned, but only as driver of disaster risk. I really miss more elaboration on the biodiversity-claimechange-health nexus. Both climate change and biodiversity are	the new appendix
						cuminate triangle is mentioned, out only as other or unsaster risk. I relay miss more eadout autor or une observed risk relay and a manage and unuquestry are expected to have an impact on human health. However, they do not operate in isolation from each or unique triangle risk expected to greatly affect future.	Thanks for the valuable comment; due to a need for drastic downsizing the
						biodiversity/ES, while many climate mitigation efforst will adopt natur-based solutions/options. There is an urgent need to account for such biodiversity-climate interlinkages in assessing	whole health section, we were not able to incorporate this into the new
Health Review: Maud	Ch.2	142	4127	143	4161	associated health implications (i.e. biodiversity-health-climate nexus). [Note: see for example the upcoming conference on this issue in Bonn June 27-29:	text, and due to other priorities we could not follow up on this comment in the new appendix
Huynen	CII.2	142	4137	142	4101	http://www.europarc.org/news/2017/01/biodiversity-health-face-climate-change-conference/	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
						add information about consequencies of the Chernobyl disaster (may be in special Box). I can provide links and publications or summarize information published in Russian in Belarus,	text, and due to other priorities we could not follow up on this comment in
Hanna Skryhan	Ch.2	142	4138	142	2 4161	Russia and Ukraine, if authors will agree with comment	the new appendix Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:						Nature based solutions are gaining increasing political support at the European Union level. This needs appropriate acknowledgement in this section. For details	text, and due to other priorities we could not follow up on this comment in
Konstantinos Tzoulas	Ch.2	142	4138	142	4161	https://ec.europa.eu/research/environment/index.cfm?ge-nbs	the new appendix Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Emma							text, and due to other priorities we could not follow up on this comment in
Goring	Ch.2	142	4141	142	4142	This is a large statement to make (the health burden of disasters is likely to increase as a result of climate change). I feel that is could be expanded upon and more references provided.	the new appendix Thanks for the valuable comment; due to a need for drastic downsizing the
						it would be good to reference Nature based solutions as well as EbA. A reference detailing this umbrella concept that includes both adaptation and mitigation measures would be: H.	whole health section, we were not able to incorporate this into the new
PESC-4: Frederic						Eggermont, E. Balian, J.M.N. Azevedo, V. Beumer, T. Brodin, J. Claudet, et al. Nature-based solutions: new influence for environmental management and research in Europe GAIA -	text, and due to other priorities we could not follow up on this comment in
Lemaitre	Ch.2	142	4150	142	4150	cological Perspectives for Science and Society, 24 (2015), pp. 243–248	the new appendix Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
							text, and due to other priorities we could not follow up on this comment in
Graciela Rusch	Ch.2	142	4154	142	4154	This could be linked to the necessity of maintaining bio / genetic diversity of organisms that generate food.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
						Here the benefit sharing mechanism of the Nagoya protocol on Access and benefit-sharing of genetic reouces (CBD) could be referred to. If some of these plants are cultivated later, the	text, and due to other priorities we could not follow up on this comment in
Graciela Rusch	Ch.2	142	4170	142	4170	Nagoya protocol can be in conflict with the regulations under the International Treaty on Plant Genetic resources under FAO	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review: Gerard						An important point for sure but may need more balance. Is it plausible that indigenous communities could scale up for more widespread distribution and maximum benefits at the	text, and due to other priorities we could not follow up on this comment in
Clarke	Ch.2	142	4170	142	4175	population level? More dialogue between stakeholders needed on this point.	the new appendix
						I'm happy that this section is included but it really needs strengthening. There is an urgent need for integrated, system-based approaches. The Rockefeller Foundation–Lancet	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review: Maud						I'm happy that this section is included but it really needs strengthening. There is an urgent need or integrated, system-based approaches. The Nockerelier Foundation-Lancet Commission on planetary health report, for example, stresses the need for, among others, improve understanding of potential non-linear state shifts in the natural systems underpinning	
Huynen	Ch.2	143	4191	143	4199	human health, expanding transdisciplinary research activities, integrated surveillance systems.	the new appendix
		I T					Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review: Henrik						This paragraph could be further developed. The sentence ending with reference to Sandifer et al. gives the implication that new coalitions must be promoted. At other places, broad approaches such as One Health, EcoHealth etc. are mentioned but here I am unsure if these approaches will fit into the claim of new coalitions. I think this paragraph needs to address	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Lerner	Ch.2	143	4192	143	4199	approaches sout as often retain, conceant etc. as intentioned out neer aim usual en asset as often retain, or new continuous. I timin uns paragraph needs to aduless that. The sentence ending with Oosterbroek et al. might be improved by Elmberg et al mentioned above.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:							whole health section, we were not able to incorporate this into the new
Stefania Paduano	Ch.2	143	4192	143	4199	Rydin et al 2012. Shaping cities for health: complexity and the planning of urban environments in the 21st century. Lancet 379: 2079–108	text, and due to other priorities we could not follow up on this comment in the new appendix
	•						

	1			1	1		
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Emma	Ch 2	143	4197	443	4400		text, and due to other priorities we could not follow up on this comment in
Goring	Ch.2	143	4197	143	4199	is it possible to identify institutions/research groups/organisations/funders already engaging in this sort of research?	the new appendix
Health Review:						The section on integrating policy etc. is usefull and generally well written. The discussion of the ECA work is very detailed but is only descriptive. Is this necessary? Could policy/practice	We give an overview of what is mentioned in the CBD reports as indication of to what extend countries find these issues important, not to assess policy
Rebecca Lovell	Ch.2	143	4200			In e section on integrating policy etc. is useruli and generally well written. The discussion of the ELA work is very detailed out is only descriptive, is this necessary? Could policy/practice opportunities be identified?	opportunities
Repetta Loveii	CII.2	143	4200		-	opportunities de identinea?	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Hanna Skryhan	Ch.2	143	4210	143	4217	turn the text into the diagram	text, and due to other priorities we could not follow up on this comment in the new appendix
riailila Skiyilali	CII.Z	143	4210	143	421/	turn the text into the diagram	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Fmma							text, and due to other priorities we could not follow up on this comment in
Goring Coring	Ch.2	144	4230	144	/231	Again, mental health effects are mentioned in passing but not expanded upon. Could examples of mental health benefits be provided here or references given?	the new appendix
Cornig	CITE	211	4250		1232	To the state of th	the new appendix
						Better than reference Jäppinen & Heliölä 2015 (this may also stay as second reference), there should be a reference to the original report Jäppinen et al. 2014 (Jäppinen, JP., Tyrväinen,	Thanks for the valuable comment; due to a need for drastic downsizing the
						L. Reinikainen, M. & Ojala, A. (eds.), 2014. Luonto lähelle ja terveydeksi. Ekosysteemipalvelut ja ihmisen terveys Argumenta-hankkeen (2013–2014) tulokset ja toimenpidesuositukset	whole health section, we were not able to incorporate this into the new
Health Review: Jukka-						(Nature for Health and Well-Being in Finland – results and recommendations from the Argumenta project Ecosystem Services and Human Health (2013–2014)). Suomen	text, and due to other priorities we could not follow up on this comment in
Pekka Jappinen	Ch.2	144	4234	144	4235		the new appendix
		1					Thanks for the valuable comment; due to a need for drastic downsizing the
		1					whole health section, we were not able to incorporate this into the new
Health Review: Henrik							text, and due to other priorities we could not follow up on this comment in
Lerner	Ch.2	144	4244	144	4246	Encouraging people to be more in the wild might increase the risk of spreading disease. However, the true risk might be very limited. Compare this with Elmberg et al. mentioned above.	the new appendix
Health Review:							
Marieta Braks	Ch.2	144	4246	144	4247	"for the same reason" the reason in the preceding sentence is opposing. I do not understand.	This is adapted and included in the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
							text, and due to other priorities we could not follow up on this comment in
Hanna Skryhan	Ch.2	144	4248	144		replace to the Ch.6	the new appendix
PESC-4: Kristina Raab	Ch.2	144	4255	146	4312	knowledge gaps should be addressed in the knowledge gap section rather than in the middle of some other section => include this text in section 2.5	Adapted in the new text
Health Review: Maud							
Huynen	Ch.2	144	4255			What report is meant here. There is no reference. Or do you mean the Appendix 2.7.7? this is not clear.	Adapted in the new appendix
						In order to make such an IPBES health assessment one need to further analyze the underlying definition of health. Initially stated in the chapter a rather broad definition of health seems	
						to be used. In the WHO & SCBD report this section builds on, the WHO definition of health is fundamental. Unfortunately there has been a major theoretical discussion of the	
						shortcomings of the WHO definition, although it has merits of being a political vision of improving health. I do believe a more thorough analysis of what kind of health one strives for is	
						needed. See for example two papers of mine where I discuss this for One Health: Henrik Lerner & Charlotte Berg (2015) The concept of health in One Health and some practical	
						implications for research and education: what is One Health?, Infection Ecology & Epidemiology, 5:1, 25300, DOI: 10.3402/iee.v5.25300 Lerner, H. 2016. Conceptions of health and	Thanks for the valuable comment; due to a need for drastic downsizing the
						disease in plants and animals. In: T. Schramme & S. Edwards. Handbook of the Philosophy of Medicine. Springer Science + Business Media, Dordrecht. DOI 10.1007/978-94-017-8706-	whole health section, we were not able to incorporate this into the new
Health Review: Henrik Lerner	Ch 2	144	4256	144	4250	2_19-1 Lerner, H. 2016. Conceptions of health and disease in plants and animals. In: T. Schramme & S. Edwards. Handbook of the Philosophy of Medicine. Springer Science + Business Media, Dordrecht. DOI 10.1007/978-94-017-8706-2_19-1	text, and due to other priorities we could not follow up on this comment in the new appendix
Lerner	CII.2	144	4230	144	4230	Weda, Doraledit. Doi 10.1007/978-94-017-8706-2_19-1	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:						l agree that an IPBES health assessment is necessary, however it should be sensitively designed (perhaps following a period of expert prioritisation?) so as not to waste time/resources	text, and due to other priorities we could not follow up on this comment in
Rebecca Lovell	Ch.2	144	4256			agree that an inequality in the second in th	the new appendix
Nebecca Loven	CII.Z	144	4230			and reproduce the various existing reviews. However, I aim not safe the evidence as discussed in the preceding sections will convince it best of this.	тие нем аррения
						Need to have an IPBES Conclusion on Quality of life and Wellbeing and its relationship with biodiversity and health. This would be commensurate with the statement in the first	Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						paragraph of Chapter 2. There is considerable need for a cross-cultural study with a wide range of different cultures world-wide, to be able to draw global conclusions with confidence.	whole health section, we were not able to incorporate this into the new
Suzanne Skevington	Ch.2	144	4256			The WHO (2000) link you already include to their document on Traditional Medicines recommends using the WHOQOL to assess quality of life in Annex IX. This should be brought out in the Conclusion. Also a review by Lercher (2004) (see ref in Key recommendations)	text, and due to other priorities we could not follow up on this comment in the new appendix
Suzanne Skevington	CII.Z	144	4230			[the Conclusion: Also a review by Lercher (2004) (see ref in key recommendations)	пе нем аррения
				1			
]		1		l	1	First, the sentence in lines 4192-4195 is contradictory. It starts by saying this is not a matter of just research design, and then goes on to talk about things that are indeed a matter of	
] [research design (i.e. establishing causation). Second, the information mentioned in relation to appendix 2.7.7 (lines 4201-4231) reflects political priorities, not necessarily scientific	Thanks for the valuable comments, which we unfortunately cannot fully
]		1		l	1	priorities. The distinction and the implications need to be made clear. Third, the European Centre for Environment and Human Health, the Health Walks, the Green Gym, and green	integrate due to severe downsizing of the health text. The first remark led to
		1				exercise initiatives in the UK cold also be mentioned in lines 4232-4247). Fourth, yes the need exists for a systematic review of knowledge as indicated in knowledge gap 1 (lines 4256-	a change in the new appendix. The second remark: we never interpreted
Usadeb Based] [42631. Fifth, the knowledge gap 2 ought to acknowledge the need for effective communication, co-operation, and integration amongst the action of different institutions (lines 4265-	this a purely political or scientific. Third remark: we cannot add more
Health Review: Konstantinos Tzoulas	Ch.2	144	4250	146	4312	4278). Finally, knowledge gaps 4,5 and 6 need setting in the context (i.e. acknowledging both the biomedical and public health models, and then justifying the focus on the biomedical setting the focus of t	examples due to limited space. We partly improved the knowledge gaps in
Konstantinos Izoulas Health Review:	CII.2	144	4256	146	4312	model accordingly; lines 4292-4312).	the appendix.
Health Review: Malcolm Ward	Ch.2	144	4256	145	4264	Also consider Health Impact Assessment which should also identify links, relationships and inform policy recommendations - http://www.who.int/hia/en/	We partly improved the knowledge gaps in the appendix, but cannot include it in the new tekst due to drastic downsizing needs.
Health Review: Emma	UII.Z	144	4236	145	4204	consider reduct impact assessment, which should also identify links, relationships and inform policy recommendations - http://www.wno.intyma/en/	We partly improved the knowledge gaps in the appendix, but cannot include
Goring	Ch.2	144	4257	144	4257	How will biodiversity-health relationships be 'more appropriately' assessed? What will assessment criteria or protocols look like?	it in the new tekst due to drastic downsizing needs.
	C2	144	7237	144	7237	The way and the second	to in the new texts due to drastic downstaing needs.
						Identifying the one health concept here was useful. However, it should have, in my opinion, been introduced at the beginning of the health portion of chapter 2, and provided an guiding	
]		1		l	1	theme for demonstrated the various connections among human and ecosystem health and NCPs. I recommend reviewing this document:	
		1				https://www.ncbi.nlm.nih.gov/pubmed/27717067. Harmful algal blooms in inland and coastal a waters, for example, represent a time example of a one health issue for ECA because these	
Health Review: Bryan				1		often occur when NCP are stressed. I recommend this article: Brooks BW, Lazorchak JM, Howard MDA, Johnson MV, Morton SL, Perkins DAK, Reavie ED, Scott GI, Smith SA, Steevens JA.	We partly improved the knowledge gaps in the appendix, but cannot include
	1	1					
W. Brooks	Ch.2	145	4265			2016. Are harmful algal blooms becoming the greatest inland water quality threat to public health and aquatic ecosystems? Environmental Toxicology and Chemistry 35: 6-13.	it in the new tekst due to drastic downsizing needs.

	1						1
						Biomonitoring programs for humans and ecosystems should be developed and implemented as a coordinated activity throughout Europe and East Asia. For example, programs such as	
Health Review: Bryan						UBA's environmental specimens bank (http://www.umweltbundesamt.de/en/topics/health/assessing-environmentally-related-health-risks/environmentall-specimen-bank) in Germany and CDC's NHANES program in the USA (https://www.cdc.gov/nchs/nhanes/index.htm) would support the NCP knowledge gaps identified here, because data from these activities can	We partly improved the knowledge gaps in the appendix, but cannot include
W. Brooks	Ch.2	145	4270	145	4300	then be directly linked to health status and the rise of noncommunicable diseases.	it in the new tekst due to drastic downsizing needs.
Health Review: Emma							We partly improved the knowledge gaps in the appendix, but cannot include
Goring	Ch.2	145	4279	145	4281	What sort of data is needed? How will this be collected? Who will conduct the research? Who will fund the research? Possible fundingsources would be useful to identify here.	it in the new tekst due to drastic downsizing needs.
Health Review:						L	We partly improved the knowledge gaps in the appendix, but cannot include
Rebecca Lovell	Ch.2	145	4279			This section needs to be re-drafted and language tightened, some of the points are a bit confused.	it in the new tekst due to drastic downsizing needs.
Health Review:						Natural Experiments offer huge potential here too. There have been reviews of biodiversity-health (we did one as above) and see Dean, J., et al. (2011). "Does biodiversity improve	We partly improved the knowledge gaps in the appendix, but cannot include
Rebecca Lovell	Ch.2	145	4292			mental health in urban settings?" Medical hypotheses 76(6): 877-88 Again why identify water as a specific feature? Why not other other elements such as woods, geodiversity etc.?	it in the new tekst due to drastic downsizing needs.
Health Review: Sjerp							We partly improved the knowledge gaps in the appendix, but cannot include
de Vries	Ch.2	145	4294	145	4295		it in the new tekst due to drastic downsizing needs.
Health Review: Gerard						Agreed but also some research ongoing that should be acknowledged e.g. work of Graham Rook and others http://journals.sagepub.com/doi/abs/10.1177/1757913916650225?url_ver=Z39.88-2003𝔯_id=ori:rid:crossref.org𝔯_dat=cr_pub%3dpubmed	We partly improved the knowledge gaps in the appendix, but cannot include
Clarke	Ch.2	145	4301	145	4305		it in the new tekst due to drastic downsizing needs.
Health Review: Sjerp							We partly improved the knowledge gaps in the appendix, but cannot include
de Vries	Ch.2	145	4305			Kuo (2015) in Frontiers of Psychology	it in the new tekst due to drastic downsizing needs.
Health Review:						Point 2. Not just policy integration from these intergovernmental organsations but also integration between departments/divisions within them. Perhaps you might recommend an	We partly improved the knowledge gaps in the appendix, but cannot include
Suzanne Skevington	Ch.2	146	4265			initiative to 'mainstream' biodiversity health and quality of life at Deputy Director General level, in each UN organisation for a period, to create a network and move it forward?	it in the new tekst due to drastic downsizing needs.
Health Review: Sjerp							We partly improved the knowledge gaps in the appendix, but cannot include
de Vries	Ch.2	146	4307			Mediate? I assume moderate is intended.	it in the new tekst due to drastic downsizing needs.
Health Review: James	Ch.2	***	4200	1	4200		We partly improved the knowledge gaps in the appendix, but cannot include
JT Connolly	CII.Z	146	4308	146	4309	Lower SES populations are also the most vulnerable to being displaced from access to new and improved urban natural infrastructure meant to provide health benefits.	it in the new tekst due to drastic downsizing needs.
Johannes Langemeyer	Ch.2	146	4333	146	4339	Maybe absolute numbers are more intuitive.	in revised section 2.3.3 both absolute numbers and percentages are used
,							this has been addressed in revised section 2.3.3 that now has two sectiosn
						In the section about cultural landscapes, it would be good to try to distinguish the value of cultural heritage (what do humans wish to preserve of how we have shaped nature in the past	
Graciela Rusch	Ch.2	146	4333	146	4333	(and has survived the pass of time), vs new ways of 'transforming nature' for our use, that will happen as these systems being part of a dynamic socio-ecological system.	and beyond use
Graciela Rusch	Ch.2	146	4341	146	4341	Are these percentages of 'protected cutlural landscapes'? This is not the same as saying that Western Europe has 'more cultural landscapes'? The other regions are likely to have considerable area of "cultural landscapes".	the text has been revised so it is now clear when the percetnages or numbers are for particualr sub-regions
Graciela Nascri	CILE	140	4341	140	7341		given space contraints introduced after the SOD the mention of the ELC had
						The "European Landscape Convention (ELC)" should be mentioned much more prominently in this chapter. The ELC has a very inclusive understanding of landscape (see http://www.coe.int/en/web/landscape/home) and could serve as a kind of role model how landscape and biodiversity can be appreciated by different stakeholders.	to be removed and this section had to focus on material that covered the
Roger Keller	Ch.2	147	4387	148	4389	http://www.toe.ingerjywed/ianustape/nonie/ and could serve as a kind of role model now landscape and biodiversity can be appreciated by different stakeholders.	whole of the ECA region
Health Review: Bryan W. Brooks	Ch.2	151	4490				given space contraints introduced after the SOD this sentence was removed and water quantity issues are discussed in section 2.2.16
W. Brooks	Cn.2	151	4490			Water reuse was not examined, yet reuse if done well and safely represents and important management strategy to meet SGDs. In parts of ECA that are drought susceptible Literature on Justice/equity in the context of biodiversity generally talks about 3 dimensions: distribution, procedure/participation, and recognition. The last one is missing from this	and water quantity issues are discussed in section 2.2.16
						section. (on recognition and conservation see eg. Franks, Martin & Schreckenberg (2016) From livelihoods to equity for better protected area conservation; Franks & Schreckenberg	
						(2016) Advancing equity in protected area conservation; Martin et al. (2016) Justice and conservation: The need to incorporate recognition; Zafra-Calvo et al. (2017) Towards an indicator	
Brendan Coolsaet	Ch.2	151	4492	151	1 4909	system to assess equitable management in protected areas; etc.)	This has been added and some of the literature has also been added.
						The structure of section 2.3.4 is problematic. The distinction intra/inter-generational should probably be made upfront (section 2.3.4.1), as this does not only relate to distribution.	As we could not assess much on other aspects of justice than distributional
Brendan Coolsaet	Ch.2	151	4492	151	1 4909	The structure of section 2.5.4 is problematic. The distinction intra/inter-generational should probably be made upirotic (section 2.5.4.1, as this does not only relate to distribution.	justice for ECA empirically, we decided to keep this structure.
						77	The health section has now been integrated in the distributive justice
Brendan Coolsaet	Ch.2	151	4492	151		What is the rationale of making 'health equity' a separate section? This clearly deals with the distribution of non-material NCPs	section.
Belgian government -	Ch.2	151	4492	151	4909	Literature on Justice/equity in the context of biodiversity generally talks about 3 dimensions: distribution, procedure/participation, and recognition. The last one is missing from this	
Hilde Eggermont (IPBES National Focal						section. (on recognition and conservation see eg. Franks, Martin & Schreckenberg (2016) From livelihoods to equity for better protected area conservation; Franks & Schreckenberg (2016) Advancing equity in protected area conservation; Martin et al. (2016) Justice and conservation: The need to incorporate recognition; Zafra-Calvo et al. (2017) Towards an indicator	
Point)						Leady awarining equity in protected area conservation, man timet as (2010) Justice and Conservation. The need to incorporate recognition, Zana-Cano et al. (2017) Towards an indicator system to assess equitable management in protected areas; etc.)	This has been added and some of the literature has also been added.
Belgian government -	Ch.2	151	4492	151	4909	The structure of section 2.3.4 is problematic. The distinction intra/inter-generational should probably be made upfront (section 2.3.4.1), as this does not only relate to distribution.	
Hilde Eggermont							
(IPBES National Focal Point)							As we could not assess much on other aspects of justice than distributional
Belgian government -	Ch.2	151	4492	151	4909	What is the rationale of making 'health equity' a separate section? This clearly deals with the distribution of non-material NCPs	justice for ECA empirically, we decided to keep this structure.
Hilde Eggermont	- -	-		l		· · · · · · · · · · · · · · · · · · ·	
(IPBES National Focal				l			The health section has now been integrated in the distributive justice
Point)		}		1	1		section.
				l		l appreciated reading the environmental justice section. However, human exposures to environmental contaminants associated with poor city planning, waste management and services	
				l		representation teaming interminiminimum justices execution, involver, intuining exposurant provided by ecological buffers was not considered. This consideration is particularly relevant for marginalized populations in urban regions in East Asia. I recommend including	the section is not about general environm. equity, but on contributions of
Health Review: Bryan				1		consideration regarding the exposome (see http://www.sciencedirect.com/science/article/pii/S0160412016309187). Biomonitoring programs such as UBA's environmental specimens	ecosystems to support equity/prevent unequity, e.g. through removal of
W. Brooks	Ch.2	151	4492			bank and the US CDC's NHANES program would support such efforts, which can then be directly linked to health and the rise of noncommunicable diseases.	pollutants.
Mark Rounsevell Brendan Coolsaet	Ch.2	151 151	4493 4493	151 151			We decided it should stay here. This has been added.
Belgian government -	Ch.2	151	4493	151	4493	Section covers both justice and equity, but justice is not reflected in the title Section covers both justice and equity, but justice is not reflected in the title	THIS HAS SEEN BOUCK.
Hilde Eggermont				1	1		
(IPBES National Focal				l			
Point)	Ch 2		45.0	L	45.5		This has been added.
Amor Torre-Marin	Ch.2	151	4513	151	4513	Section 2.4.2 does not exist	this has been corrected. This was reformulated. The aim in this section is to clarify the conceptual
				1		Lack of participation is a form of injustice in its own right. As noted on line 4515 and 4516, it's about the power and procedural aspects, not just about distributional outcomes (an	differences and the importance of distributive and procedural euity issues in
Brendan Coolsaet	Ch.2	151	4514	151	1 4516	outcome which is distributively just/equitable, may still be procedurally unjust/inequitable)	their own right.

Belgian government -					_	-	•
-	Ch.2	151	4514	151	4516	Lack of participation is a form of injustice in its own right. As noted on line 4515 and 4516, it's about the power and procedural aspects, not just about distributional outcomes (an	
Hilde Eggermont						outcome which is distributively just/equitable, may still be procedurally unjust/inequitable)	This was reformulated. The aim in this section is to clarify the conceptual
(IPBES National Focal Point)							differences and the importance of distributive and procedural euity issues in their own right.
	Ch 2	151	4523	151	4523	Section 2.4.2 does not exist	this has been corrected.
Health Review: James	CITE	100	1525	133	1525	Detroit 2-112 dues not chart	and had been corrected.
JT Connolly	Ch.2	152	4546	4549	152	This is an important observation that has been seen in urban and non-urban contexts. Stressing that this is not simply a non-urban ecosytem service challenge may be desirable here.	This part has been deleted when shortening.
Brendan Coolsaet	Ch.2	152	4554	152	4556	Genetic resources have both material and non-material (information) components, both of which can be public and private.	This part has been deleted when shortening.
Belgian government -	Ch.2	152	4554	152	4556	Genetic resources have both material and non-material (information) components, both of which can be public and private.	
Hilde Eggermont							
(IPBES National Focal							
Point)							This part has been deleted when shortening.
Germany	Ch.2	153	4600	153	3 4604	see also summary: While this is definitely an important statement, it remains at a very general level here. Where are examples how this can work in practice?	This part has been deleted when shortening.
Johannes Langemeyer	Ch.2	154	4633	154	1 1620	Consider also potential negative effects for low income groups from green gentrification / expulsion (this is an open research frontier but e.g. hedonic pricing models have shown increases in housing prices close to urban parks).	We had to rely on published data that came out of the systematic review approach.
Health Review: James	CII.2	134	4033	154	+ 4036	As well, access to greenspace is a multi-facted issue. The type, quality, and size if the space can greatly affect the health beenfits it imparts. Use is also determined in part by the social	Some studies that point to the social context were added from a text that
JT Connolly	Ch.2	154	4633	4638	3 154		already appeared below.
21 connony	CITE	13	1033	1030	25.	and detailed contains of the Space.	ancady appeared below.
						This section is new but relates to a previous mention of conflict in the FOD, which I suggested should be explanded to consider conservation conflict more widely. The section deals with	
						what is termed (here) as human-wildlife conflict but (as pointed out in relation to the FOD), the conflicts referred to here may be defined as conservation conflicts. Indeed, one of the	
						papers cited here refers to a similar conflict in this way. See e.g. Redpath et al. (2013) Understanding and managing conservation conflicts. Trends in Ecology and Evolution 28, 100-109,	
						particularly the section on defining conservation conflicts. Given that this section deals with intragenerational equity and justice, the conflict is not really between people and wildlife but	A new section on Human-Wildlife conflicts was written, based on an
						between different groups of people.	elaborate review of the literature. An appendix now provides an overview of
Allan Watt	Ch.2	154	4650	155	4656		this literature.
						links on the publications about human-wilflife conflicts: Эффективность социальных институтов и проблема соответствия в экологическом управлении — конфликт «человек —	
						бурый медведь» в природном парке «Ергаки» in Применение метода кейсов в комплексных социально-экологических исследованиях. Под общей редакцией О.В. Лихачевой,	
Harris Charles	ct. 2	45.	4650	450	4656	А.Ю. Скриган и А.Д. Шкарубо, Псков, 2017	Mr. and declarate to the control of the Parish Parish
Hanna Skryhan	Ch.2	154	4650	155	4656		We could only take into account English literature.
Finnish Government	Ch.2	155	4655	155	4656	Also the moose (Alces alces) (Horne & Petäjistö 2003. Reference: Horne, P. & Petäjistö, L. 2003. Preferences for alternative moose management regimes among Finnish landowners: a choice experiment approach. Land Economics 79(4): 472-482	Reference was added.
ECA values liaison	CII.2	13.	4033	13.	4030	triote experiment approach. Land Economics 75(4), 472-462	Reference was added.
group	Ch.2	155	4657			Consider referring to 'options for maintaining NCP' in this text. It is not covered in Section 2.2 on NCP, but it is here.	This was added
J - 1							The focus of the section was to link equity/justice to ES. Sentence was
						So problem in saying - "Intergenerational equity/justice requires the maintenance of nature, i.e. a resilient and productive state of ecosystems that allows the future provision of NCPs	added: Within IPBES, this capacity of ecosystems is considered an
Dan Faith	Ch.2	155			4660		overarching NCP category (Maintenance of options).
	Ch.2	155				Health equity section seems to be using equity and equality interchangeably. This should be clarified.	We have taken this into account
Belgian government -	Ch.2	155	4683	157	4760	Health equity section seems to be using equity and equality interchangeably. This should be clarified.	
Hilde Eggermont							
(IPBES National Focal Point)							We have taken this into account
Amor Torre-Marin	Ch 2			155	1601	"well established": confidence term? If so to be used between brackets. If noy alternative wording should be used.	This was no longer applicable in the new text
		159	4684			need to short	
	Ch.2	155					
,	Ch.2	155 156		156		need to short	It is was no longer applicable in the new text it has been shortened now
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ch.2					Providing health equity depends in part, on being able to assess quality of life outcomes from health interventions sensitively, appropriately and accurately. The developers of some	
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	Ch.2					Providing health equity depends in part, on being able to assess quality of life outcomes from health interventions sensitively, appropriately and accurately. The developers of some measures have gone to considerable effort to improve the comparisons between people living in different cultures and situations by adapting each language version of a measure to the culture concerned so that it is appropriate and acceptable to those who complete it. The WHOQOL Group developed advanced techniquesto improve the accuracy of cross-cultural comparisons in the WHOQOL measures (Bowden and Fox-Rushby, 2004; Mac Dowell, 2006), so improving the chances that funding would be more equitably distributed between	it has been shortened now
Health Review:		156	4699			Providing health equity depends in part, on being able to assess quality of life outcomes from health interventions sensitively, appropriately and accurately. The developers of some measures have gone to considerable effort to improve the comparisons between people living in different cultures and situations by adapting each language version of a measure to the culture concerned so that it is appropriate and acceptable to those who complete it. The WHOQOL Group developed advanced techniquesto improve the accuracy of cross-cultural comparions in the WHOQOL measures (Bowden and Fox-Rushby, 2004; Mac Dowell, 2006), so improving the channes that funding would be more equitably distributed between countries (and between cultures within countries where different language versions have been developed). An international protocol exists to carry out the same work for all 7,300	It has been shortened now Thanks for the valuable comment; due to a need for drastic downsizing the
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Health Review: Suzanne Skevington Brendan Coolsaet	Ch.2 Ch.2	156 157 159	4750 4771	156	5 4718 1 4867	Providing health equity depends in part, on being able to assess quality of life outcomes from health interventions sensitively, appropriately and accurately. The developers of some measures have gone to considerable effort to improve the comparisons between people living in different cultures and situations by adapting each language version of a measure to the culture concerned so that it is appropriate and acceptable to those who complete it. The WHOQOL Group developed advanced techniquesto improve the accuracy of cross-cultural comparions in the WHOQOL measures (Bowden and Fox-Rushby, 2004; Mac Dowell, 2006), so improving the chances that funding would be more equitably distributed between countries (and between cultures within countries where different language versions have been developed). An international protocol exists to carry out the same work for all 7,300 language or the chances. We are aware of around 90 language versions of the WHOQOL-BREF. Language of introductory paragraph should be improved. The whole section on procedural justice reads quite poorly	It has been shortened now Thanks for the valuable comment; due to a need for drastic downsizing the
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Health Review: Suzanne Skevington Beredan Coolsaet Belgian government Hilde Eggermont (IPBES National Focal Point) Johannes Langemeyer Health Review:	Ch.2 Ch.2 Ch.2 Ch.2	157 157 159	4750 4771 4771 4807	161 161	4867 4867 4826	Providing health equity depends in part, on being able to assess quality of life outcomes from health interventions sensitively, appropriately and accurately. The developers of some measures have gone to considerable effort to improve the comparisons between people living in different cultures and situations by adapting each language version of a measure to the culture concerned so that it is appropriate and acceptable to those who complete it. The WHOQOL Group developed advanced techniquesto improve the accuracy of cross-cultural comparions in the WHOQOL measures (Bowden and Fox-Rushby, 2004; Mac Dowell, 2006), so improving the chances that funding would be more equitably distributed between countries (and between cultures within countries where different language versions have been developed). An international protocol exists to carry out the same work for all 7,300 languages. We are aware of around 90 language versions of the WHOQOL-BREF. Language of introductory paragraph should be improved. The whole section on procedural justice reads quite poorly Language of introductory paragraph should be improved. The whole section on procedural justice reads quite poorly Make it a box! The Ecotourism example is not so similar to the same practice in the ECA region. Closer examples should be brought in, adding the risks and benefits in the region where charter flights, constant traveling and "experiences" collections induce new sustainable challenges. This issue is very delicateregulations framework should not be too permissive but on the other hand it should not be inaccessible to all of us (a Human right to be affordable to every Human being)	It has been shortened now Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text. We worked on the language and clarity. We worked on the language and clarity. Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text. Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text.
Health Review: Suzanne Skevington Beredan Coolsaet Belgian government- Hilde Eggermont (IPBES National Focal Point) Johannes Langemeyer Health Review: Margarida Simões	Ch.2 Ch.2 Ch.2 Ch.2	157 159 160	4750 4771 4771 4807	161 161	4867 4867 4826	Providing health equity depends in part, on being able to assess quality of life outcomes from health interventions sensitively, appropriately and accurately. The developers of some measures have gone to considerable effort to improve the comparisons between people living in different cultures and situations by adapting each language version of a measure to the culture concerned so that it is appropriate and acceptable to those who complete it. The WHOQOL Group developed advanced techniquesto improve the accuracy of cross-cultural comparions in the WHOQOL measures (Bowden and Fox-Rushby, 2004; Mac Dowell, 2006), so improving the chances that funding would be more equitably distributed between countries (and between cultures within countries where different language versions have been developed). An international protocol exists to carry out the same work for all 7,300 languages. We are aware of around 90 language versions of the WHOQOL-BREF. Language of introductory paragraph should be improved. The whole section on procedural justice reads quite poorly Language of introductory paragraph should be improved. The whole section on procedural justice reads quite poorly Make it a box! The Ectotourism example is not so similar to the same practice in the ECA region. Closer examples should be brought in, adding the risks and benefits in the region where charter flights, constant traveling and "experiences" collections induce new sustainable challenges. This issue is very delicateregulations framework should not be too permissive but on the other hand it should not be inaccessible to all of us (a Human right to be affordable to every Human being) The example of ecotourism barely describes issues of procedural equity. I am not sure what its added value is for this section. The procedural aspects should be developed, or it should	It has been shortened now Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text We worked on the language and clarity Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text
Health Review: Suzanne Skevington Beredan Coolsaet Belgian government- Hilde Eggermont (IPBES National Focal Point) Johannes Langemeyer Health Review: Margarida Simões	Ch.2 Ch.2 Ch.2 Ch.2	157 159 160	4750 4771 4771 4807 4808	160 160 160	5 4718 1 4867 4867 0 4826	Providing health equity depends in part, on being able to assess quality of life outcomes from health interventions sensitively, appropriately and accurately. The developers of some measures have gone to considerable effort to improve the comparisons between people living in different cultures and situations by adapting each language version of a measure to the culture concerned so that it is appropriate and acceptable to those who complete it. The WHOQOL Group developed advanced techniquesto improve the accuracy of cross-cultural comparisons in the WHOQOL measures (Bowden and Fox-Rushby, 2004; Mac Dowell, 2006), so improving the chances that funding would be more equitably distributed between countries (and between cultures within countries where different language versions have been developed). An international protocol exists to carry out the same work for all 7,300 languages. We are aware of around 90 language versions of the WHOQOL-BREF. Language of introductory paragraph should be improved. The whole section on procedural justice reads quite poorly Language of introductory paragraph should be improved. The whole section on procedural justice reads quite poorly Make it a box! The Ecotourism example is not so similar to the same practice in the ECA region. Closer examples should be brought in, adding the risks and benefits in the region where charter flights, constant traveling and "experiences" collections induce new sustainable challenges. This issue is very delicateregulations framework should not be too permissive but on the other hand it should not be inaccessible to all of us (a Human right to be affordable to every Human being) The example of ecotourism barely describes issues of procedural equity. I am not sure what its added value is for this section. The procedural aspects should be developed, or it should be moved to the section on distribution.	It has been shortened now Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text We worked on the language and clarity We worked on the language and clarity Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text
Health Review: Suzanne Skevington Brendan Coolsaet Belgian government - Hilde Eggermont (IPBES National Focal Point) Johannes Langemeyer Health Review: Margarida Simões Brendan Coolsaet	Ch.2 Ch.2 Ch.2 Ch.2	157 159 160	4750 4771 4771 4807 4808	160 160 160	5 4718 1 4867 4867 0 4826	Providing health equity depends in part, on being able to assess quality of life outcomes from health interventions sensitively, appropriately and accurately. The developers of some measures have gone to considerable effort to improve the comparisons between people living in different cultures and situations by adapting each language version of a measure to the culture concerned so that it is appropriate and acceptable to those who complete it. The WHOQOL Group developed advanced techniquesto improve the accuracy of cross-cultural comparions in the WHOQOL measures (Bowden and Fox-Rushby, 2004; Mac Dowell, 2006), so improving the chances that funding would be more equitably distributed between countries (and between cultures within countries where different language versions have been developed). An international protocol exists to carry out the same work for all 7,300 languages. We are aware of around 90 languages versions of the WHOQOL-BREF. Language of introductory paragraph should be improved. The whole section on procedural justice reads quite poorly Language of introductory paragraph should be improved. The whole section on procedural justice reads quite poorly Make it a box! The Ectourism example is not so similar to the same practice in the ECA region. Closer examples should be brought in, adding the risks and benefits in the region where charter flights, constant traveling and "experiences" collections induce new sustainable challenges. This issue is very delicateregulations framework should not be too permissive but on the other hand it should not be inaccessible to all of us (a Human right to be affordable to every Human being) The example of ecotourism barely describes issues of procedural equity. I am not sure what its added value is for this section. The procedural aspects should be developed, or it should be moved to the section on distribution.	Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text We worked on the language and clarity We worked on the language and clarity Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review: Suzanne Skevington Brendan Coolsaet Belgian government- Hilde Eggermont (IPBES National Focal Point) Johannes Langemeyer Health Review: Margarida Simões Brendan Coolsaet Brendan Coolsaet Brendan Goolsaet Brendan Goolsaet Heilde Eggermont Hilde Eggermont	Ch.2 Ch.2 Ch.2 Ch.2	155 155 159 160 160	4750 4771 4771 4807 4808 4808	160 160 160	5 4718 1 4867 4867 3 4826 9 4826	Providing health equity depends in part, on being able to assess quality of life outcomes from health interventions sensitively, appropriately and accurately. The developers of some measures have gone to considerable effort to improve the comparisons between people living in different cultures and situations by adapting each language version of a measure to the culture concerned so that it is appropriate and acceptable to those who complete it. The WHOQOL Group developed advanced techniquesto improve the accuracy of cross-cultural comparions in the WHOQOL measures (Bowden and Fox-Rushby, 2004; Mac Dowell, 2006), so improving the chances that funding would be more equitably distributed between countries (and between cultures within countries where different language versions have been developed). An international protocol exists to carry out the same work for all 7,300 languages. We are aware of around 90 language versions of the WHOQOL-BREF. Language of introductory paragraph should be improved. The whole section on procedural justice reads quite poorly Language of introductory paragraph should be improved. The whole section on procedural justice reads quite poorly Make it a box! The Ecotourism example is not so similar to the same practice in the ECA region. Closer examples should be brought in, adding the risks and benefits in the region where charter flights, constant traveling and "experiences" collections induce new sustainable challenges. This issue is very delicateregulations framework should not be too permissive but on the other hand it should not be inaccessible to all of us (a Human right to be affordable to every Human being) The example of ecotourism barely describes issues of procedural equity. I am not sure what its added value is for this section. The procedural aspects should be developed, or it should be moved to the section on distribution. It should probably be noted that in the case of ecotourism, injustice may arise before the actual distribution of potential benefits. Non-materia	It has been shortened now Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text We worked on the language and clarity We worked on the language and clarity Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text
Health Review: Suzanne Skevington Brendan Coolsaet Belgian government- Hilde Eggermont (IPBES National Focal Point) Johannes Langemeyer Health Review: Margarida Simões Brendan Coolsaet Belgian government-	Ch.2 Ch.2 Ch.2 Ch.2	155 155 159 160 160	4750 4771 4771 4807 4808 4808	160 160 160	5 4718 1 4867 4867 3 4826 9 4826	Providing health equity depends in part, on being able to assess quality of life outcomes from health interventions sensitively, appropriately and accurately. The developers of some measures have gone to considerable effort to improve the comparisons between people living in different cultures and situations by adapting each language version of a measure to the culture concerned so that it is appropriate and acceptable to those who complete it. The WHOQOL Group developed advanced techniquesto improve the accuracy of cross-cultural comparisons in the WHOQOL measures (Bowden and Fox-Rushby, 2004; Mac Dowell, 2006), so improving the chances that funding would be more equitably distributed between countries (and between cultures within countries where different language versions have been developed). An international protocol exists to carry out the same work for all 7,300 languages. We are aware of around 90 language versions of the WHOQOL-BREF. Language of introductory paragraph should be improved. The whole section on procedural justice reads quite poorly Language of introductory paragraph should be improved. The whole section on procedural justice reads quite poorly The Ecotourism example is not so similar to the same practice in the ECA region. Closer examples should be brought in, adding the risks and benefits in the region where charter flights, constant traveling and "experiences" collections induce new sustainable challenges. This issue is very delicateregulations framework should not be too permissive but on the other hand it should not be inaccessible to all of us (a Human right to be affordable to every Human being) The example of ecotourism barely describes issues of procedural equity. I am not sure what its added value is for this section. The procedural aspects should be developed, or it should be moved to the section on distribution. The example of ecotourism barely describes issues of procedural equity. Lam not sure what its added value is for this section. The procedural aspects should be	Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text We worked on the language and clarity We worked on the language and clarity Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the section, we were not able to incorporate this into the new text Thanks for the valuable comment; due to a need for drastic downsizing the

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Belgian government -	Ch.2	160	4808	159	4826	It should probably be noted that in the case of ecotourism, injustice may arise before the actual distribution of potential benefits. Non-material NCP may be affected through the activity	
Hilde Eggermont						of tourism (eg. Exclusion from certain areas reserved for tourists, commodification of sacred land,)	
(IPBES National Focal							Thanks for the valuable comment; due to a need for drastic downsizing the
Point)							section, we were not able to incorporate this into the new text
Johannes Langemeyer	Ch.2	160	4829	161	4050	Strengthen the link to ES / NCP.	This is indeed applicable in a general sense; we took this into account in redraft and downsizing the text
Jonannes Langemeyer	CII.2	100	4829	101	4650	Strengthen the link to ES/ NCP.	
Brendan Coolsaet	Ch.2	161	4868	161	1000	Add section on recognition (see references in previous comment)	This section was re-written on the basis of new analysis and send for external revision.
Brendan Coolsaet	CII.Z	101	4000	101	4000	Add section of recognition (see references in previous comment)	This section was re-writtenon the basis of new analysis and send for
						Please refer to the IPBES values guide (Preliminary guide regarding diverse conceptualization of multiple values of nature and its benefits, including biodiversity and ecosystem functions	external revision. We now try to include diofferent valuation languages of
Germany	Ch 2	161	4868	161	4884	rease refer to tire reads values gainet presiminarly gainet regarding urerse corresponding to interpretabilities on intuitive values on return and its beneficials, including biouversity and ecosystem functions and services (deliverable 3 (d))). In general, the section on values is very short and the part on social dominated values does not go very much into details.	IPBES guidelines
Belgian government -	Ch.2	161	4868	161	4868	and set not guerrenate. S (QI) in general, a section on which shall shal	ii bes guidennes
Hilde Eggermont	Citiz	101	1000	101	1000	The section of congruence per constraints and the section of constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constraints and the section of congruence per constra	
(IPBES National Focal							This section was re-written on the basis of new analysis and send for
Point)							external revision.
,							This section was re-written on the basis of new analysis and send for
Finnish Government	Ch.2	161	4868	163	3	The valuation part 2.3.5. needs to be readable indipendently whithout rummaging appendixes.	external revision.
Finnish Government	Ch.2	161	4876	161	4878	Analysing preferences is the basis for monetary valuation. In monetary valuation the interest is often in the marginal changes in wellbeing. TEV is seldom refered.	We now include monetary valuation
						Monetary valuation can be useful in several other contexts, where 'communicating' with economic sectors is of high relevance. Also to facilitate the design and implementation of policy	
Graciela Rusch	Ch.2	161	4878	161	4878	instruments or solutions (e.g. examples of water management solutions) that are addressing economic decisions (other than mere regulations).	We now include monetary valuation
							This section was re-written on the basis of new analysis and send for
Germany	Ch.2	161	4880	161	4883	How can this contribute to decision-making? How can decision makers trade-off very different values when making decisions?	external revision. It includes its importance for policy making
							This section was re-writtenon the basis of new analysis and send for
							external revision. We now try to include diofferent valuation languages of
Finnish Government	Ch.2	161	4881	161	4881	Value pluralism framework need to be opened and clarified	IPBES guidelines
Health Review: James						Excluded from this discussion is the growing knowledge of contrasting values attached to CNP in urban settings. See, for example: Langemeyer, Johannes, et al. "Contrasting values of	
JT Connolly	Ch.2	161	4884	4898	162		We do not understand this comment, sorry!
Health Review:						May be worth referenceing Social Return on Investment that is finding increasing use both in the environment and the health sectors: http://www.socialvalueuk.org/resources/sroi-	
Malcolm Ward	Ch.2	161	4884	161	4891	guide/	We do not understand this comment, sorry!
						Non-material NCPs are most valued in socio-cultural terms according to graph 2.74, this should go trough the SPM. It is probable that Material NCPs will have the highest economic value,	
David González	Ch.2	161	4889	161	4891		We now include this reflection. Thanks for pointing it out.
Finnish Government	Ch.2	162	4892	162	4892	"A high percentage of research in social valuation" is unclear expression	Now it is rephrased. Thanks for pointing it out.
						The lack of appreciation of regulating services in other ecosystems maybe because these have been poorly studied and their importance sufficiently recognized (soil regulating functions,	
						pollination, pest control by natural enemies in agriculture; genetic diversity as a asset to cope with environmental change/fluctuations (e.g. forestry and agriculture). The characteristics	We agree with this statement, but we could not find any statement like this
Graciela Rusch	Ch.2	162	4896	162	4896	of the agricultural landscape can determine the capacity to generate pollination and pest control functions.	in the publications revised.
Finnish Government	Ch.2	163	4906	163	4906	Would have been nice to be able to comment on 2.3.5.2	This section has been provided for comments in September 2018
							As we agree with the reviewer and because we needed to edit down the
Graciela Rusch	Ch.2	163	4910	163	4910	This section repeats what has been said earlier?	whole text, this section has been deleted
						With reference to 'Wellbeing is measured incorrectly' (MEA 1) see comments No 4 above. On capturing the critical dimensions' the WHOQOL assesses physical, psychological, social	
						and environmental and spiritual QoL in its measures. The five domains map onto many of the MEAs 'critical dimensions of human wellbeing' as they were initially identified through	
Haralda Baratana						consensus beyween researchers and users living in 15 culturally diverse cultures world-wide. Ref: The WHOQOL Group (1995) The World Health Organisation Quality of Life assessment	This control is not an element of the second
Health Review: Suzanne Skevington	Ch.2	163	4910			(WHOQOL): position paper from the World Health Organisation. Social Science & Medicine, 41 (10) 1403-1409. Skevington SM, Sartorius N, Amir M. and the WHOQOL Group (2004) Developing methods for assessing quality of life in different cultural settings: the history of the WHOQOL instruments. Social Psychiatry & Psychiatric Epidemiology, 39 (1) 1-8.	This comment is not applicable as we deleted this section because its
Suzanne Skevington	Cn.2	163	4910			Developing methods for assessing quality of life in different cultural settings: the history of the WHOQOL Instruments. Social Psychiatric Epidemiology, 39 (1) 1-8.	repetition
Health Review:						The Welsh 'Well-being of Future Generations (Wales) Act 2015 provides one of the first international examples of a legislative approach to promoting health and well-being through a	This comment is not applicable as we deleted this section because its
Malcolm Ward	Ch 2	163	4910	164	4934	sustainable development lens: http://www.legislation.gov.uk/anaw/2015/2/pdfs/anaw 20150002 en.pdf and https://assemblyinbrief.wordpress.com/tag/future-generations/	repetition
			.520			and the second s	This comment is not applicable as we deleted this section because its
Finnish Government	Ch.2	163	4920	163	4920	Reference needed	repetition
							This comment is not applicable as we deleted this section because its
Finnish Government	Ch.2	163	4920	163	4920	Reference is needed.	repetition
						Clarify in Fig 2.76 legend whether these are studies that show positive interlinkages, or whether they are studies that show any interlinkages (positive or negative). Also clarify whether	This comment is not applicable as we deleted this section because its
Thomas Brooks	Ch.2	164	4935	164	4937		repetition
						The text introducing the relevance to SDGs and Aichi targets could do with explicit reference to good quality of life, as many of the targets actually refer to GQOL in addition to or instead	
ECA values liaison						of NCPs. Human wellbeing is now mentioned here and there, but quality of life is not. Although the following text hereafter mainly deals with NCPs, it would be nice to underline that	References to specific aspects of QoL are now indicating, mostly related with
group	Ch.2	164	4938	164	4954	GQOL is also implicitly and explicitly covered by the targets.	SDGs
Harlish Barri				l			Figure 2.77 has been improved by adding colors in the lines. NCP names are
Health Review:	Ch 2		4030	107		CDCs associated by a social displayed as in the 2.70 and approximate 2.70 and then related to Sight Township on a better understood displayed from 2.77	indicated in Table 2.1. and the List of Aichi targets and SDGs are indicated in
Margarida Simões Mark Rounsevell	Ch.2 Ch.2	164 164	4938 4939	167 164		SDGs ccould be easily displayed as in Fig 2.79 and appendix 2.79, and than related to Aichi Targets for a better understanding of Fig. 2.77. Most of this is introduced in Ch1, so no need to repeat here.	chapter 1. We deleted the introductory paragraph.
Health Review:	CII.Z	164	4939	164	4946	NOST OT THIS IS INTRODUCED IN CRIT, SO NO REGET TO PEPEST REFE. To support the enforcement and monitor the progress of the Well-being of Future Generations (Wales) Act 2015 a set of key indicators are being developed:	we deleted the introductory paragraph.
Malcolm Ward	Ch.2	164	4945	164	1016	In o support the enforcement and monitor the progress of the weil-being of Future Generations (Wales) Act 2015 a Set of Key Indicators are being developed: http://gov.wales/docs//des/hypublications/160316-national-indicators-to-be-laid-before-nafive-nafty-and-to-to-be-laid-before-nafive-nafty-and-to-to-be-laid-before-nafive-nafty-and-to-to-to-be-laid-before-nafive-nafty-and-to-to-to-be-laid-before-nafive-nafty-and-to-to-to-to-to-be-laid-before-nafive-nafty-and-to-to-to-to-to-to-to-to-to-to-to-to-to-	This is not applicable anymore as this text goes in chapter 1
	C2	104	7,743	104	4,740	many governation according to a particular indicators to be law detailed in the empty	This section is about how NCP are mentioned in SDG and Aichit targets, so
				l		Could this be expanded to reflect more generally on public participation and also, on what is mentioned earlier, about power relationships and the dominance of certain societal groups	there is no room for reflections about public participation, which is a topic
Graciela Rusch	Ch.2	165	4977	165	4980	leg. larger agri-businesses, corporations and sectors (energy)) regarding decisions about the environment and biodiversity.	of chapter 6.
							this statement has been removed but the assessment presents a range of
Health Review:							data on other aspects of QoL including health, heritage, identity equity and
Suzanne Skevington	Ch.2	167	5011			'Psychological and physical experiences are well studied, 'but data on other important aspects of quality of life is very sparse, particularly from studies that are cross-cultural.	economic value
	•				•		•

					1		T
						To inform progress of the Well-being of Future Generations (Wales) Act 2015 there is a require to generate 'Future Trends' reports: http://gov.wales/docs/statistics/2017/170505-future-	
Health Review:	Ch 2	467	5024	467		trends-report-2017-en.pdf in addition there are moves to explore the use of Foresight reporting to provide a richer understanding based on differeing future scenarios:	thank you for the reference but due to space contraints the knowledge gap
Malcolm Ward	Ch.2	167	5021	167	5021	http://www.foresight-platform.eu/wp-content/uploads/2011/01/EFP-Brief-No180_Emergence-and-Design-in-Foresight-Methods.pdf	discussion on future trends is at a more general level this issue is recognised in the redrafted knowledge gaps section which
The Netherlands:							discusses how indictors for use, deamnd and governance are less developed
Astrid Hilgers	Ch.2	168	5026	168	5036	An additional problem is that the indicators often do not tell what is the contribution of nature exactly.	than capoacity indicators
						The choice of a specific indicator strongly influences the results. The amount of indicators brought together in the report is impressive, but for some of the services there just is little	
The Netherlands:						proof. Be aware that using an other indicator might reverse the results. See Schulp, CIE, Burkhard, B, Maes, J, Van Vliet, J & Verburg, PH (2014). Uncertainties in Ecosystem Service Maps: A Comparison on the European Scale. PLoS ONE, 9, e109643.	the considerable limitations of indicators is now acknowledged in the
Astrid Hilgers	Ch.2	168	5026	168	5036		redrafted knowledge gaps section
Health Review:							the best date and the second s
Suzanne Skevington	Ch.2	168	5041		5049	'Little empirical evidence of how NCPs can contribute to the different dimensions of QoL'. Few researchers in this field are yet aware of the most appropriate multidimensional and multilingual measures available for this purpose.	the knowledge gaps secion now has a full paragraph on the gaps regarding the influence of NCP on quality of life thta ddresses this comment
Mark Rounsevell	Ch.2	169	5092	169		Getting a bit too prescriptive?	this phrase has been removed
Johannes Langemeyer	Ch.2	169	5096			Why are 'membership levels in env and nature organisations' worth nationwide accountings (How do you derive this conclusion from the chapter?)	this phrase has been removed Thanks for the valuable comment; due to a need for drastic downsizing the
						Plant names should be in italics, provide full name of plants. The number of the studies is underestimated, it is not clear if these studies were selected for their relevance (it does not look	
Health Review:						like). MOST OF THE TEXT IS COPIED AND PASTED FROM THE ARTICLES' ABSTRACT I changed most of the text, but then I stopped as I was not sure if it had to be done or if it should be a	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	232	7955	246	1	table of articles' extracts. I think you should explicitly say that though, in the heading of the table.	the new appendix Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:						Table 2.20 in the line of Armenia: change "efficiency of different parts of five wild plants species which are commonly used" into 'efficiency of different parts of five wild plant species	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	232	7955	232	Armenia	which are commonly used'	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	232	7955	232	Balkan re	s Salvia officinalis is common sage, is very rarely called Dalmatian sage	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:						Change "Dalmatian sage (Salvia officinalis L., Lamiaceae) is a well-known aromatic and medicinal Mediterranean plant that is native in coastal regions of the western Balkan and southern	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	232	7955	232	Balkan re	Apennine Peninsulas and is commonly" into 'Common sage (Salvia officinalis L., Lamiaceae) is a well-known aromatic and medicinal plant that is native to the Balkans and is commonly	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:						Change "Salvia officinalis (Lamiaceae), common or Dalmatian sage, is a Mediterranean aromatic and medicinal plant used in medicine since ancient times" into 'Salvia officinalis	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	232	7955	232	Balkan re	(Lamiaceae) is an aromatic and medicinal plant used in medicine since ancient times'	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						Change "Experimental research: Knowledge of its genetic diversity and spatiotemporal patterns is important for plant breeding programmes and conservation" into 'The study of genetic	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	232	7955	232	Balkan re	diversity and distribution patterns is important for plant breeding programmes and conservation'.	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:							whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	232	7955	232	Bulgaria (Rhodophyta is not a family	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						Change "Review research: is to summarize comprehensively the investigations on the antiviral activity of Bulgarian medicinal plants from the past three decades" into 'Review research:	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	232	7955	232	Bulgaria (The study comprehensively summarizes the investigations on the antiviral activity of Bulgarian medicinal plants during the past three decades'	the new appendix
						SOURCE- Silva, N.; Alves, S.; Gonçalves, A.; Amaral, J.; Poeta, P. 2013. Antimicrobial Activity of Essential Oils from Mediterranean Aromatic Plants Against Several Foodborne and Spoilage Bacteria. Food Sci Technol Int. 19(6):503-10. doi: 10.1177/1082013212442198. METHOD- The antimicrobial activity of essential oils extracted from a variety of aromatic plants, often	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review: Patricia						used in the Portuguese gastronomy was studied in vitro by the agar diffusion method.AlLMENT CATEGORIES REPORTED The antimicrobial activities of Essential oils extracts of the plant	text, and due to other priorities we could not follow up on this comment in
Poeta	Ch.2	232	7955	238		tissues against 10 bacterial isolates. MEDICINAL PLANTS Essential oils of thyme, oregano, rosemary, verbena, basil, peppermint, pennyroyal and mint. REGION Portugal	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:						Change "This is a medicinal plant with a history of traditional use in Bulgaria and in other Balkan countries for herbal tea and basic medical healing treatments "into 'This is a medicinal	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	233	7955	233	Bulgaria (plant with a history of traditional use in Bulgaria and in other Balkan countries. It is used to prepare herbal teas and other simple preparations'	the new appendix
					1		Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						Change "Experimental research: in vitro study, chloroform and methanol extracts received by soxhlet extraction as well as methanol extract obtained by thermostat extraction were	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	233	7955	233	Bulgaria (tested for antiviral activity" into 'Experimental research: the study tested in vitro the antiviral activity of chloroform and methanol extracts of the plant	the new appendix
					1		Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:							whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	233	7955	233	Bulgaria (The title of the article is all in capital letters, please change for consistency	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:							whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	233	7955	233	Greece	The study is not testing the medicinal property of the plant, remove from the table	text, and due to other priorities we could not follow up on this comment in the new appendix
						y and the second property of the second seco	

	1	1		1			Thanks for the valuable comment: due to a need for drastic downsizing the
						Change "Plants growing in the Judea region are widely used in traditional medicine. Six Judean Plants selected for analysis" into "Many wild plants growing in the region are widely used in	whole health section, we were not able to incorporate this into the new
Health Review:						traditional medicine. Among a larger pool of plants, six species (Achillea santolina, Calotropis procera, Cistus creticus, Phlomis viscosa, Varthemia iphionoides, and Withania somnifera)	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	233	7955	23	3 Israel	were selected for additional analyses"	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review: Valentina Savo	Ch.2	233	7955	23	3 Israel	Change "Analysis revealed that many of the plants growing in the Judea region may hold a geroprotective potential" into 'Analysis revealed that many of the tested plants may have a geroprotective activity'	text, and due to other priorities we could not follow up on this comment in the new appendix
valentina Savo	CII.2	233	7555	23	131461	8 ELOPIOLECINE BELINKY	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:						Change "Experimental research. Wide screen of dozens of candidate herbal extracts for their cell protective, wound-healing, anti-inflammatory, and anti-cancer activities" into	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	233	7955	23	3 Israel	Experimental research: a wide screen of herbal extracts for their cell protective, wound-healing, anti-inflammatory, and anti-cancer activities'	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	233	7955	23	4 Italy	The study does not really pertain Italy. REMOVE	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
						You can add this one: Fratianni, F., Cardinale, F., Cozzolino, A., Granese, T., Albanese, D., Di Matteo, M., Zaccardelli, M., Coppola, R. and Nazzaro, F., 2014. Polyphenol composition and	whole health section, we were not able to incorporate this into the new
Health Review: Valentina Savo	Ch.2	233	7955	23	4 Italy	antioxidant activity of different grass pea (Lathyrus sativus), lentils (Lens culinaris), and chickpea (Cicer arietinum) ecotypes of the Campania region (Southern Italy). Journal of functional foods, 7, pp.551-557.	text, and due to other priorities we could not follow up on this comment in the new appendix
Valentina Savo	CII.2	255	7333	23	icary	10003,7,99:331-337.	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	234	7955	23	4 Kazak	If you are using this article, you should include at least some of the species, otherwise it is not useful. I would remove this	the new appendix
						Change "Supporting evidence for pharmacological properties of some species harvested by locals of the region. But her no specific details monitored in the abstract occurs for species."	Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						Change "Supporting evidence for pharmacological properties of some species harvested by locals of the region. Further no specific details mentioned in the abstract except for radio- active substances (due to a nuclear test site) contaminating medicinal plants" into 'The study provided evidence for pharmacological properties of some ethnobotanical species and	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	234	7955	23	4 Kazak	sta analysed their potential radioactive contamination'	the new appendix
						Change "Experimental research. During the expedition and field works ecological and geobotanic habitat features of dominant species of medicinal plants were studied, and was carried	Thanks for the valuable comment; due to a need for drastic downsizing the
						out a description of the experimental areas where plants were sampled for analysis. In laboratory conditions researches were performed to determine the content of Cs-137, Sr-90." into	whole health section, we were not able to incorporate this into the new
Health Review:	Ch 2	224	7055			Experimental research: Medicinal plants were gathered in the wild and main features of the gathering sites were noted. Specimens were successively analysed to determine their content of the same of the gathering sites were noted.	
Valentina Savo	Ch.2	234	7955	23	4 Kazak	sta of Cs-137, Sr-90'	the new appendix Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:							text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	234	7955	23	4 Kazak	sta The title of the article is all in capital letters, please change for consistency	the new appendix
							The defendance of the second for the
						Change "Several medicinal properties: inhibit growth of human prostatic epithelial cells, influence the expression of oestrogen receptor, possess antimicrobial activity, have analgesic properties, modulate phagocyte functions, reduce lipid oxidation, exhibit antifungal activity, possess the immune enhancing properties and distinguish by antioxidant activity" into	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:						Several medicinal properties: the plant inhibits the growth of human prostatic epithelial cells, influences the expression of an oestrogen receptor, shows antimicrobial and antifungal	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	234	7955	23	4 Lithua	ia activity, has analgesic and immune enhancing properties, modulates phagocyte functions and reduces lipid oxidation'	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						Change "Thymus longicaulis C. Presl. is a small aromatic plant abundant in Mediterranean macchia with traditional medicinal use" into 'Thymus longicaulis C. Presl. is a small aromatic	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	234	7955	23	5 Medi	ral plant abundant in the Mediterranean shrubland, with several traditional medicinal uses'	the new appendix
Valentina Savo	Citiz	254	,,,,,		- Inicai	The state of the s	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:						Change "Experimental research on Influence of seasonal variation on Thymus longicaulis C. Presl chemical composition and its antioxidant and anti-inflammatory properties" into	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	234	7955	23	5 Medi	Experimental research on the Influence of seasonal variation on the chemical composition of Thymus longicaulis C. Presl and its antioxidant and anti-inflammatory properties'	the new appendix Thanks for the valuable comment: due to a need for dractic downsizing the
1						Change "Emmenagogue, anti-fungal, anti-helmintic, anti-inflammatory, anti-radical in colon cancer, anti-bacterial and spasmolytic activities. Recently, the insect repellent activity of R.	Thanks for the valuable comment; due to a need for drastic downsizing the whole health section, we were not able to incorporate this into the new
Health Review:						chalepensis has been emphasised" into The plant has emmenagogue, anti-fungal, anti-fullminitary, anti-fullmi	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	235	7955	23	5 Medi	rra anti-radical activity in colon cancer'	the new appendix
1							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:						Change "Experimental research: To exhaustively characterise the chemical composition of the aerial parts from R. chalepensis plants collected from the wild in Sicily" into 'Experimental	whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	235	7955	23	5 Medi	Linange Experimental research: to exhaustively characterise the chemical composition of the aerial parts from K. Chalepeniss plants collected from the wind in Sicily' into Experimental real research: the study was aimed at characterising the chemical composition of the aerial parts of K. chalepeniss specimens collected in the wild in Sicily'	the new appendix
				1		,	Thanks for the valuable comment; due to a need for drastic downsizing the
							whole health section, we were not able to incorporate this into the new
Health Review:	1			1	_L .	Change "Many literature reports have provided evidence for toxic effects of low levels of mercury in the human body" into 'Medicinal plants may contain mercury which has toxic effects	
Valentina Savo	Ch.2	235	7955	23	5 Polan	In the human body even at low levels'	the new appendix Thanks for the valuable comment; due to a need for drastic downsizing the
	1			1			whole health section, we were not able to incorporate this into the new
Health Review:	1			1		Change "Experimental research: Seasonal Variations of Mercury Levels in Selected Medicinal Plants Originating from Poland - Spring (4-35 ng/g); Autumn (4-81 ng/g)" into 'Experimental	text, and due to other priorities we could not follow up on this comment in
Valentina Savo	Ch.2	235	7955	23	5 Polan	research: the study evaluated seasonal variations of mercury levels in selected medicinal plants gathered in Poland'	the new appendix
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review:	1			1		I have stopped checking the text from this point onwards: authors should check English, style, and use a consistent language and organization of content in the table. I would also avoid the contract of the	whole health section, we were not able to incorporate this into the new
Health Review: Valentina Savo	Ch.2	235	7955	23	5 Roma	the copy and paste, the styles is quite discordant and it makes the tables disorganized. CHECK for the same issues also in Table 2.21, Table 2.22, Table 2.23, Table 2.23, Table 2.23, Table 2.23, Table 2.25, Table al	text, and due to other priorities we could not follow up on this comment in the new appendix
valentina Savo	Cinz	233	,,,,,	23	Noille		Thanks for the valuable comment; due to a need for drastic downsizing the
1							whole health section, we were not able to incorporate this into the new
L	I., .			_	_	Intensity of pesticide use: the indicator would be more usefull when considering active ingredient/ha or groups of a.i./ha rather than the tonnage as this better describes the risks	text, and due to other priorities we could not follow up on this comment in
Germany	Ch.2	249	7979	24	19 7	80 originating from pesticide use.	the new appendix

					1		The state of the s
							Thanks for the valuable comment; due to a need for drastic downsizing the
Health Review: Edna							whole health section, we were not able to incorporate this into the new text, and due to other priorities we could not follow up on this comment in
Cabecinha	Ch.2	258	7995	265	7999	The table presented on the section 2.7.8 with the list of Intagible Cultural Heritrage of Humanity (UNESCO) is not up to date (in attach is a file with the Portuguese ICH that was missing)	the new appendix
Finnish Government	Ch.2	270	8083	270		How marginal changes in wellfare estimates that are typically measured in primary studies were handeld. You need add sentence about this.	A sentence has been included to reflect this
Anatoliy Khapugin	Ch.2	0	0		0	There are many cases of mixed English. There are cases where American English is used, while in following sentences British English is used again and vice versa.	Updated to US english
Anatoliy Khapugin	Ch.2	0	0	C	0	The notion of monetary values proposed in this text is too vague and it gives a false impression of being exhaustive of all monetization approaches. This is a problem as the values proposed are general and may not be relevant where monetization is most useful (e.g. reflecting non-market stakes in CBA). For instance, it is suggested on line 19, that there exists such a concept of « the monetary value », which is wrong. Actually, for the same NCP, monetary values with different interpretations can be proposed. One reason is that the monetary value of one hectare of an ecosystem could be the marginal or the average value, which is not the same as soon as the relationship with size is non-linear. For instance, the recreational value of a place depends on the availability of similar places closeby. When it differs a lot, this confusion could lead to wrong conclusion in local cost-benefit analysis or wrong extrapolations of a total value. Another reason is that, given the general formulation of the NCP here, the same NCP could be related to different types of benefits given the different understandings of a same service. For instance, a monetary value for water quality regulation could represent the cost of the measure required to achieve the same level of services (replacement cost) or the costs of the damage avoider the herifits and could lead to different values. This is the same for the values related to carbon sequestration that may be based on carbon values with different interpretations. These are only two among many reasons. Given this, it is useful to specify more precisely what the values reviewed represent and why they have to be manipulated with caution. We suggest the following: 1) Clarify, from the beginning the specificities of the monetary values proposed in this section in relation to a decision context, argue about why they are useful and precise that they do	Updated to US english
						not exhaust the extent of monetary values; 2) replace « elicit the monetary value » by « propose a monetary valuation » on line 19; 3) Make precise in table 2.8 that the values proposed are average values (as opposed to marginal, and if this is the case) and the related limitation;	
						4) Propose a more detailed discussion of the different types of non-market monetary values ;	
France	Ch.2	0	0	C	0	5) Suggest that a more precise typology of NCP and ecosystems could also help in strengthening the relevance and robustness of the values proposed.	This issue is addressed in Section 2.3.5.2 and 2.3.5.4
Carmanii	Ch.2	0				It is unclear in how far the approach suggested by the IPBES values guide was considered. Please refer to the IPBES values guide (Preliminary guide regarding diverse conceptualization of multiple values of nature and its benefits, including biodiversity and ecosystem functions and services (deliverable 3 (d))).	The report builds on the value guide
Germany	Cn.2	U	U			multiple values of nature and its benefits, including biodiversity and ecosystem functions and services (deliverable 3 (d)).	A decision has been made to only focus this document on Nature's
Germany	Ch.2	0	0			It would be great to make it more explicit what the difference is between Nature's contributions to people vs. Nature's benefits to people (e.g. through referencing to earlier chapters). (The values guide talks primarily about the latter.)	contribution to people, and therefore discussion of NBP would add confusion.
Germany	Ch.2	0	0			On p. 6, l. 107-109 the authors " recommend, that assessments of NCP () should account for this plurality of values" and call for "novel approaches in which to integrate value plurality in decision-making" in l. 114-115). However, there are no attempts at all mentioned in these sections how policy-makers can actually account for different values or even bridge and integrate those values. Is there indeed no approach or information in ECA available on how such very different values (e.g. monetary values and socio-cultural values) are already recognized or could be better considered in decision-making? To what extent are all these values (in Tables 2.A, 2.B, 2.C and Figure 2.B) then useful for policy makers? Any hints on how such "novel approaches" to integrate value plurality into decision making could be shaped? Offering some options would be helpful. It would be useful to provide not only a summary of what the data show, but also at least an explanation explaining the trends outlined in the presented values, thereby also suggesting	I have included highlighted the desire to include social, cultural and shared values IN DECISION MAKING THROUGH E.G. DELIBERATION ACROSS STAKEHOLDERS'. I have also included an example MSSDA that may be used to integrate plural values.
Germany	Ch.2	0	0			policy relevant options (data should actually be seen as a means to provide a basis for developing founded options for decision-makers).	This was not possible given the data collected
Germany	Ch.2	0	0			what about biophysical measures (see values guide p. 3, Pascal et al. Figure 3)? What about holistic approaches? What about the role of ILK for values in ECA?	It was agreed that these should not be included in this section
Germany	Ch.2	0	0			Throughout the text and the appendices, please avoid using the abbrevition 'EU" to define Europe or Western, Central or Eastern Europe to avoid misunderstandings with the term 'European Union'.	Changed in Figure 2.66 in main text.
EU: Marco Fritz	Ch.2	0	0	general	general	It seems that the literature research protocol did not identify work done by the 28 Member States of the EU and the European Commission in the MAES and the natural capital accounting framework. This is however the main EU contribution to this topic. See http://ec.europa.eu/environment/nature/knowledge/ecosystem_assessment/index_en.htm and http://ei.europa.eu/environment/nature/capital accounting/index_en.htm as far it is related to valueing work	Correct. The search criteria aimed to identify publications through a systemised search protocol, ie the EVRI. As a result, we did not pick up all the publications. Including ad hoc reports such as the important once listed in the comments, would have meant that we deviated from the search protocol and thus would affect the repeatability of the analysis.
						The huge work done by the EU on MAES is not represented. Of course the review is based on peer-reviewed papers, but even there at least some papers are available, see e.g. An indicator framework for assessing ecosystem services in support of the EU Biodiversity Strategy to 2020.	
						http://www.sciencedirect.com/science/journal/221204167sdc=1 Volume 17 February 2016, Pages 14-23: http://www.sciencedirect.com/science/journal/22120416/17/supp/C?sdc=1	
						volume 17 rebruary 2016, Pages 14-23: http://www.scienceoirect.com/science/journay/22120416/17/supp)C/sac=1 http://www.sciencedirect.com/science/article/pii/S2212041615300504#%21	
						see there for more references.	The search criteria aimed to identify publications through a systemised
						or also :	search protocol, ie the EVRI. As a result, we did not pick up all the publications. Including ad hoc reports such as the important once listed in
EU: Ole P. Ostermann	Ch.2	0	0			https://www.researchgate.net/profile/Benjamin_Burkhard/publication/315074237_What_to_map/links/58dcd8bcaca2725c475dbdcd/What-to-map.pdf	the comments, would have meant that we deviated from the search protocol and thus would affect the repeatability of the analysis.
Germany	Ch.2	2	23	2	25	Are these the two principal streams of valuation approaches: monetary vs. social dominated? If so, please clarify.	This has been clarified to include economic (monetary and non-monetary) and social dominanted.
Germany	Ch.2	2	24	,	27	Rather than Total economic value (TEV), the concept of marginal values is quite important for economic valuation, but implications are not mentioned here.	The concept of TEV refers the combination of use and non-use values. Here we are not referring to the distinguishment of valuing the entire good or marginal changes to the good. Clarity has been added.
			24		1 2	side (14 g are concept or marginar codes o quite important of economic feducation) out impressions are not increased in (15).	and good to the good. early has been added.
André Mader	Ch.2	2	26	2	26	Not clear what is meant by "we contend for a value pluralism framework". Can the language be simplified? Also, the word "contend" may be seen to be prescriptive.	contend changed to advocate

				- I			
						Where is the value pluralism framework? is this a new suggestion of the authors of the ECA assessment or does it comply with the values guide and the IPBES conceptual framework? [or	
						taken from the reference?]. Please ensure alignment a) amongst the different IPBES products and b) the existing literature. Regarding the latter, please make sure to respect and build	
Germany	Ch.2	2	26	2		upon previous approaches such as TEEB, MA 2005, UK NEA etc., (see p. 6, l. 107-111) and highlight clearly the aspects where you have developed those existing approaches further.	the text makes it explicit that we are extending existing frameworks.
						"contend for", "advocate" (I. 30)>it is unclear why the authors should contend for s.th. This is already detailed in the IPBES values guide and summarized in the IPBES guide for	, and the second
Germany	Ch.2	2	26	2	27	assesments	changed
						The IPBES assessment remit is quite strongly against poilcy prescription, so I would suggest that you do not "advocate".	
André Mader	Ch.2	2	30	2	22	Also, it may be misleading to imply that the traditonal approach towards valiation is market-based and monetary. I am not up-to-date with the literature but my impression was that such valuations are in the minority, partly due to the difficiulty associated with producing figures for most NCP.	The extension of valuation to include socio-cultural values is a key message from this section, so we believe that it is important to advocate it.
Andre Mader	CII.2	2	30	- 2	32	such valuations are in the minority, partiy due to the difficulty associated with producing rightes for most NCP.	from this section, so we believe that it is important to advocate it.
Germany	Ch.2	2	30	2	30	It may be helpful to replace the term "traditional" with the term conventional. The text would then read: " that extends beyond conventional market-based monetary approaches"	change made
							Our key argument is that a valuation framework should account for all type
						Why only 'advocating' for a value assessment framework beyond market-based monetary approaches, if it became clear that all other approaches do fall short according to your	of values. We don't suggest that other approaches fall short, but that each
EU: Marco Fritz	Ch.2	2	30	2	32	analysis?	approach can add new insights.
						The section on market based valuation and Table 2.A are very limited. They only cover some aspects of agricultural based monetary valuations. Further examples from avoided cost, replacement cost, mitigation cost, and from production and income factor approaches could also be included. A range of additional examples would demonstrate the direct economic	
Konstantinos Tzoulas	Ch.2	2	34	2	37	importance of nature much stronger than a limited range of examples	updated to include this
							(Farm Accountancy Data Network, 2017), (EUROSTAT, 2016). These source
Anatoliy Khapugin	Ch.2	2	37	2	37	In addition to "Table 2.A", reference(s) on appropriate publication(s) should be added where these data on net profits from agricultural production were published	are listed as Notes to Table 2a
						An interpretation is missing. Valuation is a lot about context, but this figure is provided without any interpretation. This holds true for all the figures of section 2.3.5. For example, Figure	
Common	Ch 2	2	39	2		2.B shows that way more studies found "physical and psychological experiences" valued among the 5 most important NCPs than "Food and Fibre". Actually, this results seems quite	Although we agree that interpretation is important, limitations on word
cermany	Ch.2	3	50	3		surprising at first glance and therefore needs more context in order to be understandable. It is not clear what is meant by "value points". A short explanation in the text could be helpful as readers may not be interested in consulting the apendix	count mean that we are unable to provide this interpretation. Now changed to 'value data points'
	Ch.2	3	50	3		What about the situation by regard to market based paleus in the previous section? An sub-regards inferences? What about the situation by regard to market based paleus in the previous section? An sub-regards inferences?	Data were not readily available across sub-regions.
						Please include a reference here to Table 2 in Appendix 2.A so that it is clear which countries belong to Western, Central and Eastern Europe and to Central Asia. Please cross check with	<u> </u>
Germany	Ch.2	3	50	3	53	table 1.3 in chapter 1 on consistency.	Reference to Table 2 now included
		_[One or two specific examples for this sentence would help for clarity, and would save the readers having to go through a whole Appendix to find the evidence that the sentence refers to.	
	Ch.2	3	52 52	3		At least a reference to a specific Table within the Appendix could be indicated also It would be useful to already refer to footnote 1 on page 3 when using the term "standardised Int \$" used here for the first time.	Reference to Table 5 in appendix now included Reference to the footnote is now moved here.
<u>Jermany</u>	CII.2	3	32	3	52	it would be useful to already reier to roothole 1 on page 3 when using the term - standardised int. 3 - used here for the first time.	Reference to the foothote is now moved here.
Germany	Ch.2	3	52	3	53	Is there a reason, why it seems that people in Central Europe may have higher values for NCP than those from Western Europe? Offering explanations for such statements are useful.	Explanation is included in Appendix.
	Ch.2	3	57	3	58	What is a value point? This key term has not been explained anywhere in the additional text, the appendices, or the main chapter 2.	Definition now included in the title of Figures 2A
	Ch.2	3	57 57			Figure 2A: How are "value points" defined?	Definition now included in the title of Figures 2A
Germany	Ch.2	3	5/			Figure 2A: Please spell out EU: it should read Western Europe, Central Europe and Eastern Europe to avoid misunderstandings with the European Union (EU).	Done
						This is a general comment for the tables where mean and median values are given for each NCP. In the main text there is a cautious writing on how to interpret the tables, but I think it	
						needs to be sharpened. The difference between minimum and maximum values differ much (several times the figure). For less than, say, three studies per NCP it might be statistically	
						troublesome to present a medium or mean value that might be used by others as an established fact. These mean and median values might be biased due to few studies and a new	
						additional study might change the value quite much. See for example Table 2B, NCP 10, only three studies, values range 1.18-281.85. Is it possible to say something in the text on how	Included the following statement ; particularly where the valuation is
					84	many statics that are needed for a statistically proper evaluation, a threshold level to avoid small name statistics.	based on less than 5 observations.
Henrik Lerner	Ch.2	3	60	3			
	Ch.2 Ch.2	3	60 61	3		The reference on Table 2.B is insufficient. References on publications or reports, where these data were highlighted, are needed here	Dased on less than 5 observations. Reference to Table 8 in the appendix now included.
Anatoliy Khapugin	Ch.2	3	61	3	61		Reference to Table 8 in the appendix now included.
Anatoliy Khapugin		3 3		3	61	The reference on Table 2.B is insufficient. References on publications or reports, where these data were highlighted, are needed here An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values.	
Anatoliy Khapugin Germany Inge Liekens	Ch.2 Ch.2	3 3 3	61 63	3	61 64		Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed These are the standard NCP titles and is explained elsewhere in the report
Anatoliy Khapugin Germany Inge Liekens	Ch.2	3 3 3 3	61	3	61 64 65	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed
Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin	Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3	61 63 64 67	3	61 64 65	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/ formal "Analysis also explored" wheras for example in line 107 and 113 ("We recommend/ We demonstrate") and in appendix 2A a more personal	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed. These are the standard NCP titles and is explained elsewhere in the report Reference to Table 8 in the appendix now included.
Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin Rob Hendriks	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3 3 3 3	61 63 64 67	3 3 3	61 64 65 67	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/ formal "Analysis also explored" wheras for example in line 107 and 113 ("We recommend/ We demonstrate") and in appendix 2A a more personal style is used. This difference in style may be functional, but perhaps it is not and could this be harmonised thoughout the chapter.	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed. These are the standard NCP titles and is explained elsewhere in the report Reference to Table 8 in the appendix now included. Change 'Analysis also explored non-market' to 'We also explored'
Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin Rob Hendriks	Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3 3 3	61 63 64 67	3 3 3 3 3	61 64 65 67	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/ formal "Analysis also explored" wheras for example in line 107 and 113 ("We recommend/ We demonstrate") and in appendix 2A a more personal	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed. These are the standard NCP titles and is explained elsewhere in the report. Reference to Table 8 in the appendix now included. Change 'Analysis also explored non-market' to 'We also explored' done
Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin Rob Hendriks Anatoliy Khapugin	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3 3 3 3	61 63 64 67	3 3 3 3 3	61 64 65 67	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/ formal "Analysis also explored" wheras for example in line 107 and 113 ("We recommend/ We demonstrate") and in appendix 2A a more personal style is used. This difference in style may be functional, but perhaps it is not and could this be harmonised thoughout the chapter.	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed. These are the standard NCP titles and is explained elsewhere in the report. Reference to Table 8 in the appendix now included. Change 'Analysis also explored non-market' to 'We also explored' done
Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin Rob Hendriks Anatoliy Khapugin	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3 3 3 4	61 63 64 67 67	3 3 3 3 3	61 64 65 67	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/ formal "Analysis also explored" wheras for example in line 107 and 113 ("We recommend/ We demonstrate") and in appendix 2A a more personal style is used. This difference in style may be functional, but perhaps it is not and could this be harmonised thoughout the chapter. "Freshwater" should be changed on "freshwater"	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed. These are the standard NCP titles and is explained elsewhere in the report Reference to Table 8 in the appendix now included. Change 'Analysis also explored non-market' to 'We also explored'
Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin Rob Hendriks Anatoliy Khapugin	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3 3 3 3 4	61 63 64 67 67	3 3 3 3 3	61 64 65 67 72 71	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/ formal "Analysis also explored" wheras for example in line 107 and 113 ("We recommend/ We demonstrate") and in appendix 2A a more personal style is used. This difference in style may be functional, but perhaps it is not and could this be harmonised thoughout the chapter. "Freshwater" should be changed on "freshwater" Perhaps this can be left out as it is currently repeated in the appendix. "Although the median values are highlighted above, there was a wide range in the non-market values found for each NCP."	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed. These are the standard NCP titles and is explained elsewhere in the report Reference to Table 8 in the appendix now included. Change 'Analysis also explored non-market' to 'We also explored' done
Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin Rob Hendriks Anatoliy Khapugin	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3 3 3 3 4	61 63 64 67 67	3 3 3 3 3	61 64 65 67 72 71	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/formal "Analysis also explored" wheras for example in line 107 and 113 ("We recommend / We demonstrate") and in appendix 2A a more personal style is used. This difference in style may be functional, but perhaps it is not and could this be harmonised thoughout the chapter. "Freshwater" should be changed on "freshwater" Perhaps this can be left out as it is currently repeated in the appendix. "Although the median values are highlighted above, there was a wide range in the non-market values found for each NCP." Although the authors made clear what is meant by this statement, I fell that there is no need to comment or justify the use of the median. The median is generally used for skewed	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed. These are the standard NCP titles and is explained elsewhere in the report Reference to Table 8 in the appendix now included. Change 'Analysis also explored non-market' to 'We also explored' done
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Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin Rob Hendriks Anatoliy Khapugin André Mader	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3 3 3 3 4 4	61 63 64 67 67 71 73	3 3 3 3 3 3	61 64 65 67 72 71	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/ formal "NanJays's also explored" wheras for example in line 107 and 113 ("We recommend/ We demonstrate") and in appendix 2A a more personal style is used. This difference in style may be functional, but perhaps it is not and could this be harmonised thoughout the chapter. "Freshwater" should be changed on "freshwater" Perhaps this can be left out as it is currently repeated in the appendix. "Although the median values are highlighted above, there was a wide range in the non-market values found for each NCP." Although the authors made clear what is meant by this statement, I fell that there is no need to comment or justify the use of the median. The median is generally used for skewed distributions. The mean is used for normal distributions. It might be advisable to report the range or max/min than instead in this paragraph.	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed. These are the standard NCP titles and is explained elsewhere in the report. Reference to Table 8 in the appendix now included. Change 'Analysis also explored non-market' to 'We also explored' done
Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin Rob Hendriks Anatoliy Khapugin André Mader	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3 3 3 3 4 4	61 63 64 67 67 71 73	3 3 3 3 3 3	61 64 65 67 72 71	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/formal "Analysis also explored" wheras for example in line 107 and 113 ("We recommend / We demonstrate") and in appendix 2A a more personal style is used. This difference in style may be functional, but perhaps it is not and could this be harmonised thoughout the chapter. "Freshwater" should be changed on "freshwater" Perhaps this can be left out as it is currently repeated in the appendix. "Although the median values are highlighted above, there was a wide range in the non-market values found for each NCP." Although the authors made clear what is meant by this statement, I fell that there is no need to comment or justify the use of the median. The median is generally used for skewed	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed the standard NCP titles and is explained elsewhere in the report Reference to Table 8 in the appendix now included. Change 'Analysis also explored non-market' to 'We also explored' done It was considered important to highlight the range of values see commen 41 reworded to focus on the range of values
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Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin Rob Hendriks Anatoliy Khapugin André Mader Daniela Haluza Inge Liekens	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3 3 3 3 4 4 4 4	61 63 64 67 67 71 73	3 3 3 3 3 4 4 4	61 64 65 67 72 71	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/ formal "Analysis also explored" wheras for example in line 107 and 113 ("We recommend/ We demonstrate") and in appendix 2A a more personal style is used. This difference in style may be functional, but perhaps it is not and could this be harmonised thoughout the chapter. "Freshwater" should be changed on "freshwater" Perhaps this can be left out as it is currently repeated in the appendix. Although the median values are highlighted above, there was a wide range in the non-market values found for each NCP." Although the authors made clear what is meant by this statement, I fell that there is no need to comment or justify the use of the median. The median is generally used for skewed distributions. The mean is used for normal distributions. It might be advisable to report the range or max/min than instead in this paragraph. Very important to highlight this as I see a lot of benefit transfer that is completely rediculous Rather say « differences in the nature and the scope of the NCP » where it could further be explained that values of different nature are assessed through different methods	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values difference to Table 8 in the appendix now included. These are the standard NCP titles and is explained elsewhere in the report Reference to Table 8 in the appendix now included. Change 'Analysis also explored non-market' to 'We also explored' done It was considered important to highlight the range of values see commend 1 reworded to focus on the range of values Thanks Added a line on differences in methods used in the valuation. The values provide a useful overview of the range of values of NCPs. If you
Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin Rob Hendriks Anatoliy Khapugin André Mader Daniela Haluza Inge Liekens	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3 3 3 3 4 4 4 4	61 63 64 67 67 71 73	3 3 3 3 4 4	61 64 65 67 72 71	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/ formal "Analysis also explored" wheras for example in line 107 and 113 ("We recommend/ We demonstrate") and in appendix 2A a more personal style is used. This difference in style may be functional, but perhaps it is not and could this be harmonised thoughout the chapter. "Freshwater" should be changed on "freshwater" Perhaps this can be left out as it is currently repeated in the appendix. Although the median values are highlighted above, there was a wide range in the non-market values found for each NCP." Although the authors made clear what is meant by this statement, I fell that there is no need to comment or justify the use of the median. The median is generally used for skewed distributions. The mean is used for normal distributions. It might be advisable to report the range or max/min than instead in this paragraph. Very important to highlight this as I see a lot of benefit transfer that is completely rediculous Rather say « differences in the nature and the scope of the NCP » where it could further be explained that values of different nature are assessed through different methods	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed. These are the standard NCP titles and is explained elsewhere in the report Reference to Table 8 in the appendix now included. Change 'Analysis also explored non-market' to 'We also explored' done It was considered important to highlight the range of values see commen 41 reworded to focus on the range of values Thanks Added a line on differences in methods used in the valuation. The values provide a useful overview of the range of values of NCPs. If you aim to transfer values, you should ideally utilise more precise value transfer
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Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin Rob Hendriks Anatoliy Khapugin Anatoliy Khapugin André Mader Daniela Haluza Inge Liekens France Germany	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3 3 3 3 4 4 4 4 4	61 63 64 67 67 71 73	3 3 3 3 4 4 4 4	61 64 65 67 72 71 77 76	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/ formal "Analysis also explored" wheras for example in line 107 and 113 ("We recommend/ We demonstrate") and in appendix 2A a more personal style is used. This difference in style may be functional, but perhaps it is not and could this be harmonised thoughout the chapter. "Freshwater" should be changed on "freshwater" Perhaps this can be left out as it is currently repeated in the appendix. "Although the median values are highlighted above, there was a wide range in the non-market values found for each NCP." Although the authors made clear what is meant by this statement, I fell that there is no need to comment or justify the use of the median. The median is generally used for skewed distributions. The mean is used for normal distributions. It might be advisable to report the range or max/min than instead in this paragraph. Very important to highlight this as I see a lot of benefit transfer that is completely rediculous Rather say « differences in the nature and the scope of the NCP » where it could further be explained that values of different nature are assessed through different methods (replacement cost, market prices, etc.). Differences in size may not account for much variability as they are normalized per area and person. If so, are the average values provided in the table below then at all meaningful? It would be useful to have at least some context (e.g. as in p. 5, li. 93-95) It is said that caution is advised to transfer the reported values to « other policy contexts » but the actual policy context remains poorly specified. A clearer specification of the policy	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed. These are the standard NCP titles and is explained elsewhere in the report Reference to Table 8 in the appendix now included. Change 'Analysis also explored non-market' to 'We also explored' done It was considered important to highlight the range of values see commend to the control of the
Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin Rob Hendriks Anatoliy Khapugin Anatoliy Khapugin André Mader Daniela Haluza Inge Liekens France Germany	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3 3 3 3 4 4 4 4 4	61 63 64 67 67 71 73	3 3 3 3 3 4 4 4 4	61 64 65 67 72 71 77 76	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/ formal "Analysis also explored" wheras for example in line 107 and 113 ("We recommend/ We demonstrate") and in appendix 2A a more personal style is used. This difference in style may be functional, but perhaps it is not and could this be harmonised thoughout the chapter. "Freshwater" should be changed on "freshwater" Perhaps this can be left out as it is currently repeated in the appendix. "Although the median values are highlighted above, there was a wide range in the non-market values found for each NCP." Although the authors made clear what is meant by this statement, I fell that there is no need to comment or justify the use of the median. The median is generally used for skewed distributions. The mean is used for normal distributions. It might be advisable to report the range or max/min than instead in this paragraph. Very important to highlight this as I see a lot of benefit transfer that is completely rediculous Rather say « differences in the nature and the scope of the NCP » where it could further be explained that values of different nature are assessed through different methods (replacement cost, market prices, etc.). Differences in size may not account for much variability as they are normalized per area and person. If so, are the average values provided in the table below then at all meaningful? It would be useful to have at least some context (e.g. as in p. 5, li. 93-95) It is said that caution is advised to transfer the reported values to « other policy contexts » but the actual policy context remains poorly specified. A clearer specification of the policy	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed. These are the standard NCP titles and is explained elsewhere in the report Reference to Table 8 in the appendix now included. Change 'Analysis also explored non-market' to 'We also explored' done It was considered important to highlight the range of values see commend to the considered important to highlight the range of values see commend to the considered important to highlight the range of values see commend to the considered important to highlight the range of values see commend to the considered important to highlight the range of values of NCPs. If you aim to transfer values, you should ideally utilise more precise value transfer that e.g. takes context into account. This is beyond the scope of this overview. Given the number of NCP and the range of possible policy contexts, it was not possible to provide this granuality of detail. The distribution of the value evidence various for the different NCP. For
Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin Rob Hendriks Anatoliy Khapugin Anatoliy Khapugin André Mader Daniela Haluza Inge Liekens France Germany	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3 3 3 3 4 4 4 4 4	61 63 64 67 67 71 73	3 3 3 3 3 4 4 4 4	61 64 65 67 72 71 77 76	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/ formal "Analysis also explored" wheras for example in line 107 and 113 ("We recommend/ We demonstrate") and in appendix 2A a more personal style is used. This difference in style may be functional, but perhaps it is not and could this be harmonised thoughout the chapter. "Freshwater" should be changed on "freshwater" Perhaps this can be left out as it is currently repeated in the appendix. "Although the median values are highlighted above, there was a wide range in the non-market values found for each NCP." Although the authors made clear what is meant by this statement, I fell that there is no need to comment or justify the use of the median. The median is generally used for skewed distributions. The mean is used for normal distributions. It might be advisable to report the range or max/min than instead in this paragraph. Very important to highlight this as I see a lot of benefit transfer that is completely rediculous Rather say « differences in the nature and the scope of the NCP» where it could further be explained that values of different nature are assessed through different methods (replacement cost, market prices, etc.). Differences in size may not account for much variability as they are normalized per area and person. If so, are the average values provided in the table below then at all meaningful? It would be useful to have a t least some context (e.g. as in p. 5, ll. 93-95) It is said that caution is advised to transfer the reported values to « other policy contexts » but the actual policy context remains poorly specified. A clearer specification of the policy context (which decision? For what?) would be very helpful to assess the relev	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed. These are the standard NCP titles and is explained elsewhere in the report Reference to Table 8 in the appendix now included. Change 'Analysis also explored non-market' to 'We also explored' done it was considered important to highlight the range of values see comment at the considered important to highlight the range of values see comment at the considered important to highlight the range of values see comment at the value of increase in methods used in the valuation. The values provide a useful overview of the range of values of NCPs. If you aim to transfer values, you should ideally utilise more precise value transfer that e.g. takes context into account. This is beyond the scope of this overview. Given the number of NCP and the range of possible policy contexts, it was not possible to provide this granuality of detail. The distribution of the value evidence of values of the different NCP. For example, mean and median values differ widely for habitat creation, but are
Anatoliy Khapugin Germany Inge Liekens Anatoliy Khapugin Rob Hendriks Anatoliy Khapugin André Mader Daniela Haluza Inge Liekens France Germany France	Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2 Ch.2	3 3 3 3 3 3 3 4 4 4 4 4 4	61 63 64 67 67 71 73	3 3 3 3 3 4 4 4 4 4	61 64 65 67 72 71 77 76	An explanation or explanations would be helpful, why material and non-material NCP tend to have lower non-market values. What is assistance in "Materials and assistance": resources?? The reference on Table 2.C is insufficient. References on publications or reports, where these data were highlighted, are needed here The language here is inpersonal/ formal "Analysis also explored" wheras for example in line 107 and 113 ("We recommend/ We demonstrate") and in appendix 2A a more personal style is used. This difference in style may be functional, but perhaps it is not and could this be harmonised thoughout the chapter. "Freshwater" should be changed on "freshwater" Perhaps this can be left out as it is currently repeated in the appendix. "Although the median values are highlighted above, there was a wide range in the non-market values found for each NCP." Although the authors made clear what is meant by this statement, I fell that there is no need to comment or justify the use of the median. The median is generally used for skewed distributions. The mean is used for normal distributions. It might be advisable to report the range or max/min than instead in this paragraph. Very important to highlight this as I see a lot of benefit transfer that is completely rediculous Rather say « differences in the nature and the scope of the NCP » where it could further be explained that values of different nature are assessed through different methods (replacement cost, market prices, etc.). Differences in size may not account for much variability as they are normalized per area and person. If so, are the average values provided in the table below then at all meaningful? It would be useful to have at least some context (e.g. as in p. 5, li. 93-95) It is said that caution is advised to transfer the reported values to « other policy contexts » but the actual policy context remains poorly specified. A clearer specification of the policy	Reference to Table 8 in the appendix now included. The analysis did not delve more deeply into the reasons why values differed. These are the standard NCP titles and is explained elsewhere in the report Reference to Table 8 in the appendix now included. Change 'Analysis also explored non-market' to 'We also explored' done It was considered important to highlight the range of values see comment 41 reworded to focus on the range of values Thanks Added a line on differences in methods used in the valuation. The values provide a useful overview of the range of values of NCPs. If you aim to transfer values, you should ideally utilise more precise value transfer that e.g. takes context into account. This is beyond the scope of this overview. Given the number of NCP and the range of possible policy contexts, it was not possible to provide this granuality of detail. The distribution of the value evidence various for the different NCP. For

Germany	Ch.2	4	79			Table 28: Why did you calculate the median here in this table and not in table 2.A as well? For some NCPs, mean (or median) are calculated based on very small N. Are these valid estimates?	Data was not availble to estimate medians values for Table 2a
	ch a		0.2			Table 2C: It would be useful to insert a brief explanation, why data are missing for certain aspects, such as values for "pollination and dispesal of seeds and other propagules", particularly	Data are missing as there were no value estimates found for these NCP. The
Germany	Ch.2	4	82			remembering that the IPBES has carried out an assessment on pollination, pollinators and food production.	column N (=0) would hopefully explain this.
Germany	Ch.2	5	88	- 5	88	Consider replacing the term "European people" with people in Europe.	Done
C	Ch.2		97			Figure 2B: Please include "Western and Central Europe" in the caption of Figure 2.B. Do "Western Europe" and "Central Europe" refer to the same set of countries outlined in Table 2 in	Clariff and a state of
Germany	Cn.2	ь	97			Appendix 2?	Clarification added.
						As this section is about 'integrating values into policy' it would benefit from highlighting that the EU biodiverity strategy to 2020 indeed include actions to 'assess the economic value of	
FILE Franch March Lances	Cl. 3	-	100		422	such services, and promote the integration of these values into accounting and reporting systems at EU and national level by 2020' (target 2, action 5). This work is supported by the abovementioned work in relation to the MAES and the natural capital accounting framework	Included reference to EU biodiversity strategy
EU: Frank Wugt Larsen	Cn.2	ь	100	ь	122	abovementioned work in relation to the MAES and the natural capital accounting framework	Considered important to full previsous sections together into the policy
André Mader	Ch 2	6	101	6	105	This is essentially a repeat of what has already been said in preceding sections	context
Germany	Ch.2	6	102	6		You may who to replace the term "Traditionally" with term "Conventionally".	Done
Cermany	CITIZ	, i	102		102	To may wan to replace the term monitoring with the term conventioning.	Replace 'We recommend that assessments of NCP' with 'The evidence
André Mader	Ch.2	6	107	6	111	"Recommending" could be seen as trying to be policy-prescriptive.	reported above suggests that assessments'
						Very good points made here. Value plurality, novel approaches to valuation and integration, and standardising reporting values are points that need emphasising. Well done to the	
Konstantinos Tzoulas	Ch.2	6	107	6	122	authors for identifying these points.	Thanks for this positive comment
Rob Hendriks	Ch.2	6	113	6	113	"We demonstrate" -> Where is this demonstrated?	In the previous sections demonstrate this: market, non market and social
						is this a lack of evidence or a lack of data? It is conceivable that there could be little evidence even if many studies have been conducted. That that could have different implications to a	
André Mader	Ch.2	6	118			situation where a lack of evidence results from a lack of data.	changed to data
						The plea to produce value per hectare could be discussed as some NCP are poorly correlated with surface. For example, while per hectare values are well designed for carbon	
		1 1			l	sequestration, they may be inappropriate for recreation as the marginal value of a hectare may depend on the stock or flood protection as the value of an hectare crucially depends on	
	I	1			1	location. Forcing data collection to be reported on a per hectare basis may then induce inappropriate values and bias decision is an uncontroled way. A possibility would be to call for	
						more standardized per unit values where the units are clearly specified, suitable for each service and can be related to others. A more detailed proposal in this direction would help	
France	Ch.2	6	120	6		fostering the collection of more relevant data on these issues.	Good point. Adressed
EU: Marco Fritz	Ch.2	6	120	6		Why is 'value per ha' the best reporting unit (also for non-material values)?	changed to say more standardised values - see comment above
Anatoliy Khapugin	Ch.2	8	184	8		Now "Web of Science (WoS)" is "Clarivate Analytics". Perhaps, WoS should be changed on Clarivate Analytics, or this re-naming should be noted in the text.	Done
Anatoliy Khapugin	Ch.2	8	188	8	188	"data that was" should be changed on "data that were"	Done
Inge Liekens	Ch.2	9	209			to an NCPs' should be 'to NCP'	Done across the appendix
Inge Liekens	Ch.2	9	210			Do you not miss important papers that actually want to make clear that a per ha value is not the thing you want to transfer and py more attention to the value function.	See comment 58. Now removed per Ha and suggested standardised values.
Christian Schleyer	Ch.2	9	213	9	213	"full list of articles"	done
Daniela Haluza	Ch.2	10	244			Table 2: Number of papers and value points sourced from EVRI (2007-2017). This table needs some editing.	Not sure what editing was reuested but some changes have been made
Daniela naluza	CII.2	10	244				Not sure what editing was redested but some changes have been made
						Do the value/ha/yr values for food include marine ha contributions from fisheries aquaculture, etc.? (For example the North Sea and north Atlantic fisheries, Norwegian salmon	There were only a copy of examples of marine fisheries and therefore these
						aguaculture, or N. Europe Oyster reefs.) If these are taken into account how this would/does potentially skew per ha calculations and how is this skew accounted for? Would a separate	would have a limit impact on per Ha values. We are reluctant to start
						calculation for contributions from marine and living resources make sense as a separate sub section? Are not ECA waters fished by ECA fishing fleets taken into account for these values	splitting NCP as this would open up a can of worms for every NCP. Plus the
Michael Heard Snow	Ch.2	10	244	15	281	when the benefit from the ecosystem service originates in non ECA EEZ waters but benefits the peoples, economies, and industries of ECA?	sample size is often already small
Daniela Haluza	Ch.2	10	251			A full stop is missing after "Western EU"	Done
							In the literature there were a wide range of definitions of per person and
						Are these values that each person gains from, or pays for, nature per year? Are the values per hectare the based on profit? The monetary values per person per year, and per hectare	per Ha and therefore we were not able to convert them to a single unified
Konstantinos Tzoulas	Ch.2	11	255	11	256	per, year need clear explanation and definition.	format. So, it would be difficult to provide a precise definition.
Inge Liekens	Ch.2	11	262			conversation needs to be conversion i suppose?	done
							The distribution of the value evidence various for the different NCP. For
							example, mean and median values differ widely for habitat creation, but are
						tables and paragraphs: if median is so different from mean, I suspect the data isn't normally distributed. This -according to basic statistics- entails that the mean CANNOT be used, but	similar for regulation of air quality. Reporting both mean and median allows
Sander Jacobs	Ch.2	11	265	268		median values should be used throughout table and texts. The mean values in table and texts shoul not be shown as this means the means are meaningless. (sorry about the word play)	the reader to guage the distribution.
							The distribution of the value evidence various for the different NCP. For
							example, mean and median values differ widely for habitat creation, but are
						tables and paragraphs: if median is so different from mean, I suspect the data isn't normally distributed. This -according to basic statistics- entails that the mean CANNOT be used, but	similar for regulation of air quality. Reporting both mean and median allows
Sander Jacobs	Ch.2	14	278			median values should be used throughout table and texts. The mean values in table and texts shoul not be shown as this means the means are meaningless. (sorry about the word play)	the reader to guage the distribution.
						Table 7: there is not any information on mean value per Ha / yr of NCPs for Eastern Europe and Central Asia. I would suggest to delete these empty parts form the table because they	
Anatoliy Khapugin	Ch.2	14	281	15		don't provide any data for reader	It is felt that it is important to show these data gaps
André Mader	Ch.2	14	281	15	281	Note mistake (presumably?) in table where Western/Central/Eastern EU should be Western/Central/Eastern Europe	corrected
							following the control of the district of the control of the contro
							following sentence added 'and 1 paper (1 value point) in Central Asia. IT IS
	I	1			1		THOUGHT THAT THE DIFFERENCES IN NUMBERS OF STUDIES FOUND ACROSS THE ECA REGIONS IS LARGELY DUE TO DIFFERENT LEVELS OF RESEARCH
Daniela Haluza	Ch.2	16	289		1	It might be interesting to speculate on the reasons and discuss the finding that most values were from Western EU, with very little value evidence from Eastern EU or Central Asia.	FUNDING AND EXPERTISE ACROSS THE REGIONS. Table 2
Darlicia HaiUZd	CII.Z	10	209		 		TONDING AND EXPENTISE ACROSS THE REGIONS. TABLE 2
	1	1 1		l	l	The structure of how this additional text will be included in the assessment report is not clear. It is it planned to include the text in the existing chapter 2 and place the appendices at the	
Germany	Ch.2	16	294	16	200	end of the assessment report? If this is the case then the important text provided in the "Conclusions" on page 16 (lines 286-299) should be placed more prominently in the assessment text itself and not in the appendix of the assessment.	The key message from this conclusion is stated in main report
Germany	Ch.2	16	294	16		You may wish to replace the term "recommendation" with e.g. the term proposal in order to avoid using policy-prescriptive language.	done
Germany	CII.Z	10	290	10	290	To a may wan to replace the term recommendation with e.g. the term proposal in order to avoid using policy-prescriptive initigates.	done
		1			l	I only agree partly with this sentence. You need far more information than size of the area and number of persons affected. I would expand the above plea in asking value practitioners	
Inge Liekens	Ch.2	16	299		1	to publish a lot more info on the case study area (also characteristics of the study area and characteristics of the people involved are very important to do a robust benefit transfer)	text has been modified
80	Ch.2	16	299	16	299	"information that we can"	Done
		10					, il

Christian Schleyer	Ch.2	17	302	25		Table 8: I assume that there are good reason not to mention the journal names of the studies listed and that this is explained elsewhere. If not, I wonder Further, Umlaute for names like Wätzold or Wüstemann seem to be missing.	This is the data that was directly downloaded from EVRI. This will require a significant amount of work to address. We do not have that time
EU: Ole P. Ostermann	Ch.2	17	302	25	303	"Table 8: List of studies included in the review sourced from EVRI" refers all papers to "Journal" which must be an error when importing from a database	This is the data that was directly downloaded from EVRI. This will require a significant amount of work to address. We do not have that time
Anatoliy Khapugin	Ch.2	28	0	28	0	Within Table in Appendix 2.B., in section Central Europe for publication "Hartel et al., 2014", there is a mistake. "Rumania" should be changed on "Romania"	Thanks for pointing this out. Nevertheless, according with the last agreement in IPBES, we add all the extra-references consulted in the whole chapter in other appendix and therefore this appendix has been removed.