				REGIONAL ASSESSMENT REPORT ON BIODIVERSITY AND ECOSYSTEM SERVICES FOR EUROPE AND CENTRAL ASIA Comments external review first order draft - Chapter 1	
Reviewer Name	Chapter	From Page From Li	ne To Page	To Line Comment	Response
Frank Wugt Larsen (EEA input)	General	General	0	General: our "light" review has focused on relevant information hosted by the European Environment Agency (EEA) for which we believe a consultation by authors could improve the ECA report. We have also provided some specific comments to issues we spotted (please note that this has not been done systematically given the length of the report, in, general, we will also refer to the EEA/ETC 8D document "information note to IPBES secretariat on EEA and EU Information" (http://document-uropa.eu/seprots/ECEDFortionsia/Workingapases/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 (http://www.eea.europa.eu/soer/), in particular, thematic briefings (http://www.eea.europa.eu/soer/2015/europe) and SOER synthesis (http://www.eea.europa.eu/soer/libers/intors/state-of-environment); EEA 2015. State of Nature Report 2015 (http://www.eea.europa.eu/publications/state-of-environment-envi	The ECA authors have been encouraged to use EEA reports as a resources, and we would like to thank the reviewer for providing the web links for these.
Frank Wugt Larsen (EEA input)	General	General	0	(http://www.eeu-uropa.eu/ also provides access to a wearin or reverant molicators and assessments. General: There seems to be quite some redundancy between the chapters. Additionally different data sources seem soemtimes to used in the redundant parts which may create more confusion than clarification leading to different partly biased messages. We assume the coherence and consistency of chapters will be dealt with in the next draft and haven't provided specific comments on this.	Agreed. We are aware of the overlap between chapters and this has been addressed in subsequent drafts
Frank Wugt Larsen (EEA input)	General	General	0	General: In general, there is a need to systematically check references in the chapters. References are cited in text but don't appear in reference lists, and references are missing in some graphs and in text etc. Specifically, EEA reports are not referenced constistently, e.g. sometime sit is EEA 2015, other times European Environment Agency 2015.	Agreed. The references were thoroughly checked in subsequent drafts and the author team has been encourgaged to systematically use the Mendeley reference management software.
Thomas Brooks (IUCN)	General	0	0	Congratulations to the authors for all their hard work in producing this FOD.	Thank you
Thomas Brooks (IUCN)	General	0	0	If it would be useful to the authors for IUCN to disaggregate further the Red List data summarised for the ECA region and its component subregions by Brooks et al. (2016), please feel free to contact me accordingly. Examples of potentially useful disaggregation could include by marine/freshwater/terrestrial, by major systems (and sub-systems) aligned to the headings in Section 3.3.2, species groups aligned to the headings in Section 4.3. drivers aligned to the headings in Section 4.3.	
Thomas Brooks (IUCN)	General	0	0	IPBES follows the CBD definition of biodiversity, which encompasses diversity at genetic, species, and ecosystem levels. It is therefore redundant to say "biodiversity and ecosystems". Either replace with "genetic, species, and ecosystem diversity", or simply say "biodiversity". Same applies any other places this formulation is used throughout (eg Chapter 1 L146, L159, L164, L170, L788, L796; Chapter 2 L300, L1843-1844; Chapter 3 L461, L468, L472, L528, L635, L1018, L3305, L3307, L3317, L3323, L3340, L3738; Chapter 4 L265, L430, L1418; Chapter 5 L142-L43, L144, L824, L846, L913, L1590, L1979, L1982, L1985).	The ECA assessment is based fundamentally on the IPBES conceptual framework. The conceptual framework refers to biodiversity and ecosystems in the 'Nature' box.
	General	0	0	GNERAL: on incorporation of ILK as an actual source of knowledge: The way incorporation of ILK is recommended in the sections so far allows to address the question of indigenous and local people as a component of socio-ecological systems where humans and nature interact, where societies use nature, perceive it, invest it culturally etc However, incorporation of ILK as an actual source of knowledge about biodiversity and ecosystems changes has not been fully developed in the FOD yet; although it is presented as a recommendation and announced in the 1st chapter. The involvement of indigenous and local people and ILK in scientific assessments and international organizations represents a political statement, and contributes to the recognition of indigenous people especially as legitimate actors in decision making, in the context of natural resource management for example. However, incorporation of ILK is tastement, but also perpresents a valuable source of Annowledge. It is by taking seriously the value of this knowledge that incorporation of indigenous and local people can represent more than a superficial recognition. Published scientific literature represents a source of access to ILK. In this review, examples will be given of studies rel. It related to slowledges, and environmental change has been recorded. It can be factual qualitative observations made by local populations regarding components of the environment and the changes they observe, observations of the drivers of these changes, or narratives or stories embedded in personal history and local worldview illustrating the changes that occurred in the environment along one silicular environment and pace scales. These observations can be added as a complementary source of information to scientific studies. They can corroborate scientific observations, but also complement them, contradict them, often operating at different time and space scales. It is to be noted that extraction of fragments of ILK to be incorporated to the different sections of such a	
Douglas Nakashima	General	0	0	4.6.1.1. ECA in general Parrotta & Agnoletti 2007. (p1-2) "The holders and users of traditional knowledge in many parts of the world face significant challenges - continuing encroachment and/or expropriation of their lands, degradation of their forests, and the erosion of their cultures, values, and traditional lifestyles. In many developed societies, technological development, the abandonment of marginal lands, renaturalization, and inappropriate policies are rapidly erasing cultural values and contributing to the globalization of landscape, which are being simplified into areas either managed for commercial exploitation or left to natural succession." (p2) "This trend has been supported by the historical development of forestry, particularly in terpoe. Since the early the century, diverged to the production, as occurred in Europe with large-scale afforestation of confiers through artificial regeneration and producing even-aged forests. These ideas were spread throughout the world during the 19th century, largely through the colonial administrations of the European imperial powers. This process changed the features of many cultural forest landscapes created by traditional preindustrial societies, both in developed and developing countries. In the 1970s, forestry passed from a phase favoring almost exclusively economic aims, to one paying greater attention to the ecological roles of forests and the value of biodiversity. Unfortunately, the assessment of biodiversity has often neglected components arising from human influence, while monitoring and conservation have focused on "natural" species. The abandonment of traditional landscapes share reduced the diversity of fabatista inked to land uses and related forest management practices.*	Furthermore, the ECA assessment has established an ILP liaison group (Chaired by Zsolt Molnar) that is responsible for all aspects of ILKP within the assessment, including the SPM. We feel that this has improved the integration of ILKP within the SOD.
Germany	General		0	We believe that the regional ECA assessment generally has a comprehensive and scientifically sound structure: Status as well as trends are shown. It is however a first order draft and therefore, we hope that our comments will be useful for the further development and maturing of this regional assessment so that scientifically sound options for action can be derived. It needs to be critically highlighted in the first order draft that chapter 6 (Options for governance, institutional arrangements and private and public decision making across scales and sectors) refers to international organizations and treaties, where the first order draft shat chapter 6 (Options for governance, institutional arrangements and private and public decision making across scales and sectors) refers to international organizations and treaties, which are of relevance to Europe and Central Asia. As we are dealing with a regional assessment for Europe and Central Asia (ECA) we strongly encourage the authors of this assessment to assess regional organizations and treaties relevant to the ECA region so that useful options for actions. Can be derived for the potential user groups, Please also ensure that in the further development of this assessment key messages with their level of confidence/certainty are developed as outlined in the document PIBES/4/MIPS. Such key messages will be impossible to the CLAs and LAs of all 6 chapters. Reason: It is important that there is alignment in the use of terminology and structure of the document. In order to further strengthen the storyline throughout the 6 chapters we also encourage cross-referencing between the chapters so that information redundancies are avoided and the arguments are overall strengthened. We also strongly encourage the development of an appendix that lists all the acromyms and key terms (including their definitions) used in the ECA assessment and communicate these lists with the leaders of the other regional assessment to ensure that jointly, all 4 regional assessments can provide a	
Germany	General		0	Please ensure that the general comments on the ECA assessment are provided to all CLAs and LAs! Reason: It is crucial that the chapters (a) use the same terminology; (b) don't provide redundant information and (c) don't contradict each other, and (d) provide a consistent chain of arguments and discussions.	This has been done.
Germany	General		0	New knowledge und publications should be used, if available. Some cited publications e.g. about the EU CAP (one from 2003) seem to be outdated Data and findines of the SoW-Report (The State of the World's Biodiversity for Food and Aericulture. http://www.fao.ore/nr/cerfa/biodiversity/sowbfa/en/) from FAO and report from the project "Preparatory Action on EU	Citations have been fully checked and the latest available (up to April 2017) used in the assessment This source of evidence has been checked
Germany	General		U	Data and findings of the SoW-Report (The State of the World's Blodwersity for Food and Agriculture, http://www.fao.org/nr/cgrfa/biodwersity/sowbia/en/) from FAQ and report from the project 'Preparatory Action on EU genetic resources' from COM (for more info: http://www.geneticresources.eu/) could provide some valuable information for this chapter. Both reports will be published soon. Please check both reports as soon as they become available.	I in is source or evidence has been checked
Germany	General		0	Often, statements are linked to "Europe" but actually only refer to "Western Europe" or the European Union. Please ensure to present a well-nuanced picture of the ECA-region and state very carefully which sub-regions are concerned (see definitions in Table 1.2, p. 19).	The use of terms to describe the sub-regions has been checked across the chapters
Zsolt Molnar	General		U	The Balkan is heavily underrepresented in all chapters.	We have attempted to achieve a geographic balance right across the assessment, within the constraints of availability of evidence in some locations.
Zsolt Molnar Ayman Batisha	General General	1	1 105	Many-many important publications on ILK are not at all used and cited in the assessment (see the literature lists provided by the ILK Task Force, and the Proceedings volume of the ILK Dialogue workshop) 4013 The entire report should be homogenously arranged, logically build and fully integrated with no inconsistency, disharmony or overlapping within its chapters and sections. The titles of chapters and sections are generally too long to be professional, as a quick example "4.6 Status and recent trends in indirect drivers" ("could be omitted in titles 4.6.1 to 4.6.5.	The ECA assessment ILIV liaison group has taken on responsibility for information chapter authors of relevant ILIV literature. Consistency across chapters has been verified. Some chapters and sections have changed their names to be more precise.

Ayman Batisha	General	1	1	105	There should be examples/chapter to clarify how the biogeochemical cycle (carbon, oxygen, nitrogen, phosphorus, sulfur, calcium, rock and water etc.) through both biotic (biosphere) and abiotic (atmosphere, hydrosphere, and lithosphere) compartments of Earth can cause land degradation and restoration. Special attention should be emphasized to the human-caused cycle of atrazine, which may affect certain species. Land degradation and restoration should be assessed in the light of Global Changes; Global Warming; Global Sea Level Rise, and Global Ocean. Land degradation and restoration should be assessed into two categories which operates at different	The LDR assessment is dealing with land degradation issues and environmental pollution. ECA will take up this evidence where relevant with respect to biodiversity (in Ch3)
					time scales: the biological – physical, (Near-term) and the geological, (Long-term). Land restoration opportunities, planning, economics, implementation constraints, and limits should be defined.	
Ayman Batisha	General	1	1	105		Literature on these topics has been assessed along with other sources of evidence in terms of how these methods contribute to understanding of biodiversity and ecosystems. Chapter 5 is concerned with the use of models supporting biodiversity and ecosystem knowledge.
					should be addressed. Biodiversity and ecosystem services should be assessed in the light of statistical analysis and levels of confidence.	
Ayman Batisha	General	1	1	105		Sorry we do not understand this comment
Germany	chapter 1	general	0		To ensure appropriate coverage of the literature and knowledge across ECA we would suggest that a Russian author and an expert from Armenia, Georgia, Belarus, Ukraine, Moldova or Azerbaijan could provide so far missing	
		comment			information if co-authoring this chapter	The authorship has been updated to account for this, including new LAs and CAs
Germany	chapter 1	general comment	0		Please ensure readability of figures/legends, see for example Figure 1.8 - the resolution of these figures is poor; also the legends are not readible; and the units are different	Figures have been revised
Germany	chapter 1	general comment	U		Please ensure regional balance also in the representation of information through figures. As it stands now, way more figures contain information about Europe than for other regions	Figures have been revised
Germany	Chapter 1	general comment	0		Chapter 1 offers some general information in some places such as 1.2.1 "what is an assessment", 1.2.3 "The IPBES conceptual framework". Please condense where possible and refer to the original documents and focus on how the framework is specifically applied to the ECA region (Table 1.1 is very useful!). 1.2.4 "Regional and subregional aspects and relations to IPBES assessments" this is a very crucial objective of the subsection, however, it seems that the reference to the other IPBES assessments remains rather descriptive and the links to ECA are not visible. Please be more specific here and avoid too general information.	The text has been edited accordingly
Andrew Stott, UK	Chapter 1	0	0		seems that the reference to the other in the assessments remains rather descriptive and the mins to be a ferror visible. Prease of more specific nere and about the general minimation.	The text has been edited accordingly
IPBES National Focal	Indptel 1		Ü		In general, there is a very strong natural science (ecology/biodiversity conservation) Yeel' to this and rather superficial on social, economic and political aspects. The text should take a more neutral tone and not start from the	
Point					perception of decline in biodiversity and ecosystem services, but rather or equally from the perspective of 'good qulaity of life'. This is necessary for it to reach out to the wider audience of policy makers and business.	The social science aspects have been developed further with new authors
Friedrich Wulf	Chapter 1	General	0		On a general note, while I am aware the first chapter is just a frame for the more interesting comment that will still come in the subsequent chapters, I think this chapter is below my expectations. There's too much process	
		remark			stuff which later won't interest anybody, and the geographical overview is quite commonplace and very Western Europe perspective. It would be good to have an outside author as well for assuring that the region is not only seen from those who live there	The description of the region has been substantially revised
Friedrich Wulf	Chapter 1	General	0			
		remark			Important to stress the people-biodiversity connection; but connection should not only be made in monetary terms, but also in social terms - right to nature approach, health	This is now discussed in the text in the section on values
Olivia Barrantes	Chapter 1	Whole	0		Abbreviations and Acronyms lists/Glossary should be provided	This has been created by the IPBES secretariat
Olivia Barrantes	Chapter 1	Whole	0		Blodiversity in itself is an Ecosystem Service, this should be justified 74A Comma needed after 'since then'	Text has been revised
Esra Başak Dessane Maximilian Weigend	Chapter 1 Chapter 1	4	74 83	6	A Comma needed after since then	Text revised
Thomas Brooks	Chapter 1	5	83	6	the executive summary is okay, but very general in its conclusions. Some of it sounds more like a mission statement than a summary 133	The exec summary has been revised considerably
(IUCN)	chapter 2	-	05	ŭ	These sections of the Executive Summary are very generic. Would be preferable to focus a bit more on ECA specific points?	The exec summary has been revised considerably
Marianne Penker	Chapter 1	5	84	6	149 The executive summary should not include unexplained abbreviations.	The exec summary has been revised considerably
Germany	chapter 1	5	84	6	149 Partly very general statements, which make the executive summary read more like a catalogue of objectives and and procedures than results. It would be helpful to expand on these statements with information about the extent to which they were actually achieved. Also adding uncertainty statements here might not always make sense.	The exec summary has been revised considerably
Esra Başak Dessane	Chapter 1	5	84	5	86 Perhaps using a term such as 'good quality of life' instead of 'human well-being' could be more consistent with the IPBES CF, where human well-being is a component of a good quality of life	This change has been implemented
Tom West Shafqat Saeed	Chapter 1 Chapter 1	5	94	1	Although an exec summary, it would be helpful to have more examples at this point. In particular, what are (some of) these relationships and broad values? What are (some of) these different worldviews? What are (some of) these requests from governments? This would improve the summary as it is a little frustrating to have 'specific key questions' referred to, but then only vague areas referred to. Without this, the reference to 'key questions' in line 120 is somewhat mysterious. What are (some of) these options for policy-makers? Who are (some of) these other stakeholders? 97 statement comparison of ECA and previous assessment seems same, needs to be refrased.	The exec summary has been revised considerably Edits done
Esra Başak Dessane	Chapter 1	5	95	5	95 associated range of broad values?	Not clear what the point is here
Shafqat Saeed	Chapter 1	5	104	5	118 Rather than showing the responsibility of ECA, it will be more better to mention what you have done in the chapter	This has been done
Marianne Penker	Chapter 1	5	107	5	107 The executive summary should include the key questions.	This have been included in a reduced form
Tom West	Chapter 1	5	108	5	108 MEA not defined	Done
Esra Başak Dessane Andrew Stott, UK	Chapter 1 Chapter 1	5	114 121	5	114 Again, I suggest to use good quality of life instead of human well-being for CF consistency	Corrected as suggested
IPBES National Focal	Chapter 1	3	121		final delay of the self-self-self-self-self-self-self-self-	2000
Esra Basak Dessane	Chapter 1	6	139	6	Should also refer specifically to SDGs and Paris Agreement 139 A comma needed after 'context'	Done
	Chapter 1 Chapter 1	6	148	6		Not clear why this is needed here
Elena Bukvareva	Chapter 1	6	149	6	149 Proposed addition: "ECA region retains all the biological diversity of the subcontinent Northern Eurasia, so it is important for the conservation of global biodiversity. Ecosystem services of climate regulation provided by ecosystems of ECA have global importance".	The text has been revised accordingly
Maximilian Weigend	Chapter 1	7	150	19	520 context of the ECA-assessment: This part is very general in nature and is bound to be duplicated in all other regional assessment. I would expect these general informations to be found elsewhere in the IPBES-documents and	Ţ,
Andrew Stott, UK	Chant 4	-	151		there is nothing specific to the ECA here.	The text has been revised considerably
IPBES National Focal	Chapter 1	′	151			The search of th
Fore Pacak Danner	Chant 4	-	155	_	This para doesn't really answer the question. Why is the assessment needed? What would happen if there wasn't an assessment. 155 A bit of a long sentence. Perhaps cut it into two here: 'It also identifies'	The text has been revised considerably The text has been revised accordingly.
Esra Başak Dessane Allan Watt	Chapter 1 Chapter 1	7	155 158	9	213 There is too much implicit criticism of earlier assessments in this section e.g. "broader and more inclusive" (line 186). It should focus on their key findings and acknowledge that this assessment, and IPBES itself, would not	The text has been revised accordingly
					exist without these previous assessments.	The text has been revised to account for this point
Shafqat Saeed Mark Snethlage	Chapter 1 Chapter 1	7	160 162	7	163 MA, 2005, I think it will be more better to write Mellanium Ecosystem Assesment 2005, please check reference also. 163	Changed in the text and in Mendeley.
	cnapter 1			7	This should prompt some reflection as to why the responses do not appear to work. Are we focusing on a wrong approach?	We have included a brief discussion of the importance of mainstreaming within the limits of the length of this short section.
	Chapter 1	7	162	7	162 Increasing is used twice in this sentence; multiplying ?	Changed to growing.
Andrew Stott, UK IPBES National Focal	Chapter 1	7	164		169 This para summarises only one EU level assessment. There are several other wider European assessments undertaken by EEA. There are also several national level assessments such as the UK NEA. This therefore gives an	Further examples have been added
Frank Wugt Larsen	Chapter 1	7	165	7	incomplete picture.	Further examples have been added
(EEA input)	,			- 1	incorrect numbers. 77% and 60% respectively. See EEA, 2015, State of Nature Report 2015, http://www.eea.europa.eu/publications/state-of-nature-in-the-eu.	Numbers have been corrected
Thomas Brooks (IUCN)	Chapter 1	7	168	7	168 Key citation for Bison is Olech (2008) http://www.iucnredlist.org/details/full/2814/0	Added
Thomas Brooks (IUCN)	Chapter 1	7	168	7	168 Too optimistic to list White-headed Duck here (see http://www.birdlife.org/datazone/species/factsheet/22679814)	Removed
Thomas Brooks	Chapter 1	7	169	7	169	
(IUCN) Andrew Stott, UK	Chapter 1	7	170		Key citation for Bison is Batbold et al. (2008) http://www.iucnredlist.org/details/full/4007/0 178	I believe this is for the Eurasia Beaver. Corrected.
IPBES National Focal					This pare focuses on a few protected species, and protected areas, and doesn't refer to wider assessments of ecosystem services.	The reviewer is correct. This has been revised in the SOD.
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Figure 1.2 I wonder why the evaluation scheme seems to have been chosen as leading structural approach for this regional assessment, noted ad assessing the different values of boddershy scorings to the Preamble of the Water Scheme in Substitution of the Preamble of the Water Scheme in Substitution of the Water Scheme	of the ECA assessment.
CBO? This scheme is Obiocular and overlapping in biodiversity values vertically and noticontally, it does not include criteria nor indicators for an evaluation of bodiversity, in particular, they, key targets for framework. We not established the scheme and processes. The text has been established from established to the scheme of the	
In Nikemels 9 213 5 220 or reference To lights 2 1 and figure 1.2 in the flagure shall or ferms the season and the first of the state of the Nature Shall or t	ich have been approved by the plenary to serve as the IPBES valuation
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Allan Watt Chapter 1 10 215 10 220 I'm not sure that this figure is useful and it only serves to underline my pervious point (with e.g. iPBES written in a larger foot), to one striking aspect is the size of the Nature bubble: having read the whole 200, 1 don't think this bubble; having read the part of notion of all encapture. The part of notion of all encapture the part of notion of the	
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Company Comp	
The text has been edited accordingly	lines and definitions. Biodiversity is a part of, or even a feature of nature as a
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Esra Başak Dessane	nt. This info is provided in section 1.7.2.
Mark 6 Chapter 1	
Thomas Brooks Chapter 12 289 12	-
IULN Delete "western" - science is global. Done	
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Allan Watt Chapter 1 13 323 13 324 Suggest giving the titles of these (IPBES) assessments in full (as in the following text). Andrew Stott, UK Chapter 1 14 340 IPBES National Focal IPBES National IPBES Nati	
Andrew Stort, UK Chapter 1 14 340 IPBES National Focal	y
IPBES National Focal	
Do not The tay is not your plant which of these assessments are in progress and which are still to be decided. It would be better to present this in a time series, compellated in progress, compell	
Elena Bukvareva Chapter 1 14 354 14 355 The dominant driver of change for biodiversity is habitat loss and transformation. so I propose to write: "Human use of wild species is one of the most important drivers of change for biodiversity" Thanks for the suggestion and revision made	and revision made
Andrew Stort, UK Chapter 1 15 380 This question is only partly answered. As this text will be finalised at the end of the process it should be able to be more specific about both the procedural assects of how they are linked and the analytical links that have been	
Insected in the processing of	one at the end of the process
Esra Başak Dessane Chapter 1 15 383 space to be eliminated after 'see'	·
Friedrich Wulf Chapter 1 15 383 typo: line breaks in the middle, remove hard line break Text revised accordingly	

Esra Başak Dessane	Chapter 1	45	384	4.5	20	4 Space between above and mentioned	Tent ended a conditate
	Chapter 1	15	384	15		As pace between above and memorate Teleconnections "Could be slightly explained here, not clear to people not familiar with the concept. transregional teleconnections in biodiversity	Text revised accordingly Text has been modified
	Chapter 1	15	386	15		5 Intercontept telecommectors. Count be singing veginated nete, not creat to people not ranimal will not except, classing gipinal recontent to the global assessment is extremely short classing through a session to the global assessment is extremely short classing through the regional assessments are critical for conducting the global assessment. Please consider adding more information about how the	Text has been modified
Germany	Chapter 1	13	300	13	30	It is any printing that the reference on the global assessments is extremely short annough the regional assessment and fulfill this intended task.	There is an on-going dialogue with the global assessment that will be reflected here
Esra Basak Dessane	Chapter 1	15	389			regions assessments can runn uns internet task. space to be eliminated after 'see'	Text revised accordingly
	Chapter 1	15	389			Typo: line breaks in the middle, remove hard line break	Text revised accordingly
	Chapter 1	15	391	17	47	The private sector is mentioned as a potential stakeholder concerned by the assessment and having a role to play in the conservation, use and management of biodiversity and ecosystem services. How should data be	TEACTE SEE GEE OT WINGS
,						presented and shared to stakeholders including private sector and SMEs so that they can mobilize and use them to implement their policies?	made more general. Not specific for private sector anymore
Germany	Chapter 1	15	392	17	47	We welcome the valuable definitions of the different stakeholder categoeries, however, we feel that some of the information remains very general. It would helpful if the SOD gives a clear picture how the different	There is a general strategy to involve stakeholders in the process of IPBES on which this text is based. I
						stakeholder groups were able to contribute to the ECA assessment.	would refer to the draft stakeholder involvement strategy and how these stakeholders can contribute.
Mark Snethlage	Chapter 1	15	395	15	39	5 Perhaps choose between the synonyms "relevance" and "relevancy" and use one throughout. With a preference for "relevance". See also page 5, line 102.	changed to 'relevance'
	Chapter 1	15	397	13	39	8 Supporting evidence needed.	This has been provided in the next version
	Chapter 1	16	406			Is governance, rather than "institutional", meant?	in the respective papers institutional scale is used.
	Chapter 1	16	409	16		4 local communities - apostrophe not needed	Text revised acordingly
Germany	Chapter 1	16	416	16	41	We appreciate this statement, but wonder about the literature reference [because it yet seems to incomplete/outdated?]. We look forward to more detailed information in the SOD as to how and to what extent ECA could fulfill this ambition.	added in the section.
Allan Watt	Chapter 1	16	421			What follows does not read like specific requests but ways in which the assessment might be relevant to specific stakeholders.	title changed
Germany	Chapter 1	16	421	17	47	9 The European Commission could be a multinational stakeholder to address; especially since many regulations are fixed by the EC and harmonisation is important (as also referred to on p. 21 lines 566 and 567). It might be appropriate to add a category with "regional organizations".	added in the section.
Germany	Chapter 1	16	421	17	47	psproprietic to accept a setting of the importance of the importan	added in the section.
Germany	Chapter 1	10	421	1,	47	The extended as a single state of the extended as the extended	
						It might be helpful to distinguish between direct and indirect benefits. For example, the private sector might not benefit directly in the short-term, but indirectly on the long-term because it depends on natural resources.	
						Furthermore, it is not stated whether ILK holders benefit from contributing to IPBES, they are only mentioned as a source of knowledge here.	We made now a seperate contribution (1.3.2) and benefit (1.3.3) section. An ILK section has been
						It will be useful to provide these benefit to different stakeholders in a table.	added.
Thomas Brooks	Chapter 1	16	422	16	42		
(IUCN)	· ·			10		Specify "UNEP-WCMC".	specified
	Chapter 1	16	426		ļ		changed
Allan Watt	Chapter 1	16	428	16	43		The text is based on presentations given by the stakeholders on IPBES plenary meetings and
						Is this (and other assertions below) an assumption or was there a dialogue with these policy makers (and other groups)?	stakeholders days.
	Chapter 1	16	428			Plural - local governments	changed
Friedrich Wulf	Chapter 1	17	444	17	44	6 The paragraph on NGOs is too short in relation to their meaning for ipbes, also in relation to other stakeholder groups. Given the stakeholder engagement strategy (lipbes 3/4, annex II and the MoU between ipbes and the	
						stakeholder platform, we suggest adding a sentence at the end of this para along the following lines: "NGOs can also substantially contribute to the quaolity of the assessment, both in terms of data/knowledge and in terms of	
Thomas Brooks	Chapter 1	17	457	17	45	political/social context."	This sentence has been addedd to the text
(IUCN)	Chapter 1	1/	457	1/	45	Polete "Future Earth and". Why specify Future Earth here? - this vision is shared by very many institutions working at the science-policy interface for biodiversity and ecosystem services. Not appropriate to emphasise one at the expense of others.	changed into many institutions
	Chapter 1	17	467	17	46	We expense or outside the second of the seco	Not any more specified specific for businesses. Contributions are made more generalised.
Germany	Chapter 1	17	473	17	47		
,						Why is general public - in contrast to all other stakeholder groups - only introduced by a one-sentence citation?	Because the general public is very diverse and is partly represented by the stakeholder organisations.
Esra Başak Dessane	Chapter 1	17	473	17	47	5 Text should not be in Italic	changed
Germany	Chapter 1	17	481	18	49		It might not be completely ECA specific. An attempt has been made to add some specificity in the next
,	,					Though all this information is interesting, in how far is it "ECA-specific"? Can you add some examples to make this more understandable or refer to them in the further chapters of the assessment?	version
Andrew Stott, UK	Chapter 1	17	481				
IPBES National Focal							
SES MACIONAL I OCAL							
Point						Not sure what this question means?	text changed accordingly
Point Esra Başak Dessane	Chapter 1	18	490	17	49	1 space to be eliminated after paranthesis	eliminated
Point Esra Başak Dessane Allan Watt	Chapter 1	18	498	17	49	1 space to be eliminated after paranthesis Is this consistent with IPBES work on policy tools and instruments?	eliminated This has been cross-checked
Point Esra Başak Dessane Allan Watt Allan Watt	Chapter 1 Chapter 1	18 18	498 501	17		1 space to be eliminated after paranthesis Is this consistent with IPBES work on policy tools and instruments? I strongly recommend that acromyns such as this are not used	eliminated
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Point Esra Başak Dessane Allan Watt Allan Watt Mark Snethlage	Chapter 1 Chapter 1 Chapter 1	18 18 18	498 501 510	18	51	I space to be eliminated after paranthesis Is this consistent with IPBES work on policy tools and instruments? I strongly recommend that acronyms such as this are not used 3 Compare with criteria for EU policy evaluation: Efficiency, Effectiveness, impact, Relevance and Coherence. Sustainability and Added value can also be part of it. See "Fitness Check of the Birds and Habitats Directives" http://ec.uropa.eu/environment/nature/legislation/fitness_check/index_en.htm	eliminated This has been cross-checked removed The meaning of this point is not clear to us
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Harald Pauli	Chapter 1	20	538	20) 0	paragraph is quite a melange and needs revision: e.g., humid continental climate zones' is something which does not exist; or what has 'large-scale climate zonation' to do with 'edaphic factors' and the latter with 'c	ld
	·	20	330	-		warm ocean currents? - and finally it comes to slope and urban climate island - all in one sentence. Further, like parts of Central Asia, also the eastern part of Europe is not very fragmented, whereas some of the Ce n countries are highly fragmented.	
Thomas Brooks (IUCN)	Chapter 1	20	538	26		eneral, this section, apart from the first rows of Table 1.3, is weak on marine and coastal ecosystems to be included. Add text accordingly.	Done - new CA with marine expertise has been included in the writing team
Andrew Stott, UK IPBES National Focal	Chapter 1	20	538		5		
Point Maximilian Weigend	Chapter 1	20	539	20	5	uld not expect the ECA regional assessment to include within its scope overseas territories of European countries that lie outside the ECA ecoregion (such as those in tropical climates).	this has been adapted
						seas territrories outside the scope, either omit them, or make that clear	This has been done
Mark Snethlage Maximilian Weigend	Chapter 1 Chapter 1	20 20	542 542	20		factors described in this sentence seem to be climatic not edaphic (i.e. soil related)	edaphic has been removed
Germany	Chapter 1	20	542	20		iphic" usually refers to soil features - geographical features? phic" usually refers to soil features - geographical features? [The term "edaphic" commonly refers to soil features (particular soil conditions). Therefore, please consider replacing the term with a another term that	edaphic has been removed
	Chapter 1	20	543			e misunderstandings.] is and in many other places, the authors fall into the trap of using Europe as in "common usage", not in the definition of Fig. 1.7. Eastern Europe includes all of Russia, Moldavia and Bielorus, all of which are anything	edaphic has been removed
Maximilian Weigend	Chapter 1	20	543	20		is and in individual places, are authors an into the region using curple as in Common usage, not in the definition of Fig. 1.7. Eastern Europe includes and nassas, modavia and belongs, and in which are anything interest and for a part from their very southern margin, including the highly diverse Cauca on	
Harald Pauli	Chapter 1	20	549	21	. 5	is a bit of a mix of different terms and unclear definitions and distinctions between units. In the strict sense, a biome is a formation of plants (and animals) that have common characteristics because of similar climat Mediterranean biome around the Mediterranean Sans. Globally, all biomes with similar climate around the Mediterranean sold climate in W-shorthamerica, the Amazon Basin. Globally, all biomes with similar climate around between the common sold climate in W-shorthamerica, the Amazon Basin. Globally, all biomes with similar climate around between the common sold climate in W-shorthamerica, the Amazon Basin. Globally, all biomes with similar climate around site of the common sold climate in the sold climat	er & d
Maximilian Weigend	Chapter 1	20	550	20	9	iis moment in time I am not clear what Table 1-3 will show and how the breakdown into "biogegeophical scale" units will be. This talbe will be of crucial importance for the entire document, since all ist chapters shouw the classification here adopted. This might have been the first thing that should have been produced,	d we have adopted the table from chapter 3, who are working on this topic
Germany	Chapter 1	20	550	20	9	e 1-3 is still preliminary and the authors state that it will show the breakdown into "biogegeophical scale" units. Hence, this table will be of crucial importance for the entire document, since all its chapters should foclassification adopted here. We would therefore encourage the authors to interact with other chapter-authors to find a proper and useful classification.	ow
João Garcia Rodrigues	Chapter 1	20	550	21	. 5	e 1.3. Comparing with terrestrial systems, marine systems are quite poorly represented. Marine and coastal habitats that should be included are seagrass meadows, macroalgal beds, reefs, lagoons, kelp forests,	we have adopted the table from chapter 3, who are working on this topic
Andrew Stott, UK	Chapter 1	20	550			marshes, beaches, dunes, mudflats, coastal wetlands, estuaries, fjords, hydrothermal vents, cold seeps, etc.	we have adopted the table from chapter 3, who are working on this topic
IPBES National Focal Point						at is the source of the classification used in the table? Is there a widely used classification that can be used without re-inventing another for this assessment. This should be a key elemnt for linkage with the other 3 re inclitate comparison and aggregation at the global level.	we have adopted the table from chapter 3, who are working on this topic
Maximilian Weigend	Chapter 1	21	556	21	. 5	in, this is mainly true for the western 1/5th as a blank statement and represent an undue simplification	Wording changed to reflect this
Friedrich Wulf	Chapter 1	21	556	21	. 5	population densities and a long history of land management are not unique to Europe (eg Nile valley, Mesopotamia, India, China, East North America) nd also do not apply to large parts of the region. Also, the lor	
						inous history of land management is the more specific element. We suggest the following new wording: "Parts of ECA, like other regions, are characterised by a long continuous history of land management and high ulation density."	Wording changed to reflect this
Douglas Nakashima	Chapter 1	21	558	21	. 5	ut cultural landscapes: they are the result of coevolution between nature and humans, notably local / traditional practices. Possible to refer to the sites designated by Unesco as cultural landscapes, or mixed sites (n cultural): ///whc.unesco.org/en/culturallandscape/ //whc.unesco.org/en/ist/&search_by_country=&type=Mixed&media=®ion=ℴ=&criteria_restrication=&ℴ=year	wording has been adapted, reference added
Andrew Stott, UK	Chapter 1	21	560			-//wincuriesco.org/en/nst/asearch-asearch_by_country-actype=winzeoantena-actegori=acrorer-actricara_testrication=accorder-year	wording has been adapted, reference added
Point		24				there is a broad trend but also high degrees of variation at a finer scale. Need to avoid being over-simplified. Important variation lies between large urban complexes and more peripheral and mountain areas.	yes but here we want to summarize the general properties
Andrew Stott, UK IPBES National Focal Point	Chapter 1	21	566		5	d to avoid political statements about the perceived role of the EU!	sentence has been modified
Friedrich Wulf	Chapter 1	21	566			sentence sounds like there is a general agreement that the EU has a mandate to harmonize governance across the region. We suggest changing the wording to "There are several instutions and arrangements in plantagements are several institutions."	
						ng at harmonizing governance in the region, such as the European Union, EFTA, the European Council and various international treaties linking post-soviet countries." This would highlight the main assertion better, at there is a harmonisation of governance. Otherwise, the EU would be the main focus.	the exact sentence suggested by the reviewer has been added
Friedrich Wulf	Chapter 1	22	569			c one might consider to lower the threshold fo cities shown to 500.000. This would make it possible to include cities such as Irkutsk and Waldwostok, and show that Eastern Russia is not entirely without people.	that would make the Western part of the map overly dense
Harald Pauli	Chapter 1	23	574	26		in the subregion structure, their description is rather inconsistent and confusing. Further, e.g., at Central Asia, it would make sense to mention that considerable parts of this subregions has an extensive mountain are by far the higest in the whole ECA. des, the term 'Central Asia', although often used for the former Soviet republics, means in the strict sense Xinjiang and surrounding areas which would includes only small parts of the neigbouring former Soviet reputral Asia, therefore is ambigous and the term 'Middle Asia' would be more suitable (see Cowan 2007,) of Arid Environments 69).	
Anna Augustyn	Chapter 1	23	574	24		e infomation about High Nature Value (HNV) farming could be added	HNV farming is not necessarily specific to ECA
Douglas Nakashima	Chapter 1	23	574			tern Europe and its landscapes in more datall on andscapes of northern Europe, e.g., the Sami who live in Sápmi, which stretches across the northern parts of Norway, Sweden, Finland and the Kola Peninsula. more detail on Indiscapes of northern Europe, e.g., the Sami who live in Sápmi, which stretches across the northern parts of Norway, Sweden, Finland and the Kola Peninsula. see Samuel Roturier, J. Nygård, L.E. Nutti, M.P. Ástot and M. Roué (2016). Reindeer husbandry in the boreal forest: Sami ecological knowledge or the science of "working with nature". In Marie Roué and Zsolt Moint J. Indigenous and local knowledge of biodiversity and ecosystems services in Europe and Central Asia: Contributions to an IPBES regional assessment. UNESCO: Paris	some text on NW Europe has been added, but we believe the suggestion of the Reviewer would be too specific for the broad scope of this chapter
João Garcia Rodrigues	Chapter 1	23	574	26	7	e description of the different subregions, the marine environment and its seascapes is never mentioned, although its importance, mainly for Europe, is fundamental. Please see, e.g., State of Europe's seas 2015 (EEA ort No 2/2015) to gather background information on this topic.	
Maximilian Weigend	Chapter 1	22	575	22	. 5	n, the map is here ignored: Including Greenland, Iceland and Spitzbergen (which are consistently omitted from the documents) it does include the arctic biliome. The Alps are not a climatic zoen, but a geographical full include subarctic, arctic and boreal biomes.	tture - Agreed and changed
Germany	Chapter 1	22	575	22		se ensure that also. Greenland, keland and Spitzbergen - as being part of ECA are well represented in the assessment. Please also consider that The Alps are not a climatic zone, but a geographical feature: they include in the assessment of the consideration of the consideration of the constant of the	
Andrew Stott, UK IPBES National Focal	Chapter 1	23	577				
Point Maximilian Weigend	Chapter 1	22	578	22	. 5	latitudes? All this and high altitudes? All this area org/forestry/fra/fra2010/en/ gibes precies forest cover data - there is more forest forest cover in Spain than in Norway. Maybe a simple statistic to be added here	Agreed and changed
Germany	Chapter 1	22	578	22	. 5	as://gabrielhemery.com/2011/02/28/european-countries-and-their-forest-cover/) would give more correct information. authors may want to look at http://www.fao.org/forestry/fra/fra2010/en/, which provides very precise forest cover data - and potentially useful statistics which can be found under the following link:	this refers to purpose not to countries, but to the northern part of WE
Andrew Stott, UK	Chapter 1	23	582		5	as://gabrielhemery.com/2011/02/28/european-countries-and-their-forest-cover/). These may enrich the statements given in this paragraph.	this refers to purpose not to countries, but to the northern part of WE
IPBES National Focal Point						re are some 'value' statements appearing here - 'overused soils' llow value to biodiversity'. These may well be valid conclusions from the assessment but they should not be set out as assumed facts in the introduction or refer to heavily used soils and declines in farmland biodiversity.	n. Agreed and the text has been changed accordingly
Asimina Skouteri	Chapter 1	23	588	23		ter ref , that sometimes is in contrast with traditional landscapes (Lipski 1995) , unsustainable and more vulnerable to external factors.	? Could not trace this back to the text section it was referring to
Andrew Stott, UK	Chapter 1	23	591		5		
IPBES National Focal Point						bove this may be a conclusion of the assessment but it should not assumed at the outset.	The text has been edited accordingly

Tom West	01	20	505				
Iom West	Chapter 1	23	595	23	605	1) Worth mentioning the European Economic Area, through which Norway, Iceland and Liechenstein have to comply with the majority of EU environmental laws. 2) Only EU Directives require transposition into national law	
						La word menuoring are european economic area, on rough which not way, recall an electricate in average in a completely and correctly, so the implication that EU member states have great discretion into a real factor and under the completely and correctly, so the implication that EU member states have great discretion into a real factor and under the completely and correctly, so the implication that EU member states have great discretion into a rough	
						right: they have some discretion. The European Commission monitor transposition and can take cases to the Court. 3) Line 598 "and as non-member states define their own environmental policies" does not make sense. 4)	
						References to the EU laws and policies mentioned are needed: eg the HD is Council Directive 92/43 /EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (OJ L 206/7 22.7.1992); the WFD is	
						Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for Community action in the field of water policy (OJ L 327/1 22.12.2000). 5) The Biodiversity Strategy is generally referred to as the 'Biodiversity Strategy to 2020'. 6) The statement about CAP needs referencing - perhaps pointing to work in IPBES ch6? 7) Would suggest replacing 'biological' with 'ecological' in line 604.	The text has been edited accordingly
Germany	Chapter 1	23	598	23	602	generally retired to a size bounessity solving to 2020. 9) The statement about CAP needs received the period point of the EU Fitness Check of Natura 2000 should be published this year. We therefore strongly There may be some issues regarding the degree of implementation of some EU biddersity policies (e.g., Natura 2000). The results of the EU Fitness Check of Natura 2000 should be published this year. We therefore strongly	The text has been edited accordingly
Cermany	chapter 2	2.5	330	23	002	encourage the authors to include the findings emgering from this Fitness Check in their further assessment.	this is an issue for later chapters
Asimina Skouteri	Chapter 1	23	600	23		Green Infrastructure Strategy (EU); Timber Regulation (EU); New Rural Development Programme 2014-2020 (EU); United Nation Framework Convention on climate chanage	examples are given here, but this is not a complete list
Mark Snethlage	Chapter 1	23	600	23		"ecologically orientated"-> "environmentally orientated"? / "Habitats Directive" -> "Birds and Habitats Directives"	corrected
Germany	Chapter 1	23	602	23	603	There is an intense discussion of the common agricultural policy and its impacts and effectiveness in chapter 6. This should be mentioned here because otherwise the statements appear very bold. They should be further differentiated to capture the heterogeneity and the impacts of greening-measures.	The statement has been tuned down
Mark Snethlage	Chapter 1	23	604	23	605	Suggested reference: European Union (2013) Flash Eurobarometer "Attitudes towards Biodiversity" http://ec.europa.eu/COMMFrontOffice/PublicOpinion/index.cfm/General/index	done, thank you for the reference
Asimina Skouteri	Chapter 1	23	605	23		The real issue with the coordination and implemention of previous CAP and supporting AEPS [their results are criticized as unsatisfactory and inefficient (Shomers and Matzdorf, 2013)] -which the main aim was the reduction	
						of rural poverty- was the way that were implemented in countries (lack of targeting important areas, variety of measures, lack of effective monitoring, political and professional lobbys, revolving doors phenomena and etc).	this will be extensively discussed in later chapters
Maximilian Weigend	Chapter 1	23	607	23	608		this will be extensively discussed in later chapters
						It is probably incorrect to deny the high degree of political cooperation and economical interdependence in pre-EU-times. I personally feel the sentence is superfluous	sentence has been modified
Andrew Stott, UK	Chapter 1	23	607		608		
IPBES National Focal Point						Butter desiliable bilancial controls and account to the state	
Andrew Stott, UK	Chapter 1	23	607	24	623	Rather simplisitic historical analysis - not sure what it adds?	sentence has been modified to be more specific and avoid overly general statements
IPBES National Focal	chapter 2	2.5	007		023		
Point						As above. The section seems more like conclusions than setting the scene	corrected
Harald Pauli	Chapter 1	23	614	23		suggest ot add: 'resource exploitation, global and climate change.'	changed to "intensive use of natural resources"
Marianne Penker	Chapter 1	23	614	23	614	Land abandonment is another major pressure affecting agro-biodiversity and social-ecological systems that have co-evolved over centuries of past land use. In most parts of Europe, land abandonment generates landscape	
						and biodiversity-related concerns in the scientific community and among the public (Navarro and Pereira, 2012). Reviews of land abandonment literature identified the following negative consequences in order of decreasing	
						importance: biodiversity loss, increase of fire frequency, soil erosion and desertification, loss of cultural and/or aesthetic values, reduction of landscape diversity and reduction of water provision (Benayas et al., 2007) and an	
						overall undesirable effect on the environment (MacDonald et al., 2000). Estel et al. (2015) generated European-wide maps showing the annual extent of abandoned farmland from 2001 to 2012 (cropland and grassland) and	
						detected an average of 128.7 million hectares of fallow land (24.4 % of all farmland). Up to 7.6 million hectares of farmland was abandoned from 2001 to 2012, mainly in Eastern Europe, Southern Scandinavia, and Europe's mountain regions. Land abandonment is related to loss of farmers and income opportunities in mountain areas, loss of bio-cultural diversity (UNESCO, 2012) and cultural ecosystems services (Daniel et al. 2012), but also in	land abandonment is now mentioned, but the structure of this sub-section has been changed. It is not
						industrial regions. Lead abandoniment is related to loss or names a an income opportunities in monitorial regions. Loss of industrial and easily (ones.CO, 2012) and cutual accusystems services (daniel et al. 2012), due also in yield gaps which have to be substituted by potentially more harmful extension of agricultural landon sewhere else (foley et al. 2011).	the role of the intro to discuss these effects in detail
Frank Wugt Larsen	Chapter 1	23	615	23	617	, sa gape	
(EEA input)						SEBI 023 can be used as source http://www.eea.europa.eu/data-and-maps/indicators/ecological-footprint-of-european-countries	this will be dealt with in later chapters
Thomas Brooks	Chapter 1	23	616	23	616		
(IUCN) Esra Başak Dessane	Chapter 1	23	618			Add citation for the parenthetical text "with the exception of Sweden, Norway and Finland". EU's apostrope needed	citation added text has been edited accordingly
	Chapter 1	24	621	24	623		text has been careed accordingly
						Fisheries are another dramatic example of the exported global footprint, should at least be mentioned	text has been edited accordingly
Germany	Chapter 1	24	621	24		Here you may also refer to fisheries as an example of a global export footprint.	text has been edited accordingly
Germany	Chapter 1	24	624	26	/21	Many statements provided in section 1.4.3, and even more statements provided in the sections 1.4.4 and 1.4.5 are not supported by references or case studies. Please include references and case studies to validate your statements. Please also ensure that the information is not overemphasizing some historic events, thereby paying less attention to other events.	these sections have been extensively revised, but still serve the purpose of a general overview
Anna Augustyn	Chapter 1	24	625	24	629	Worth noting that a large proportion of the population in this part of Europe still lives in rural areas	This has been noted in the text
Maximilian Weigend	Chapter 1	24	625	24	629		
						a parallel statement (relative importance of agriculture) is missing elsewhere, e.g., for WE. If it's relevant, put it there, or omit everywhere	this is specific for this region
Germany	Chapter 1	24	625	24	629	A parallel statement (relative importance of agriculture) is missing elsewhere, e.g., for WE. If it's relevant, put it there, or omit everywhere	this is an issue specific for this region, therefore it was mentioned here but not in other regions
Marianne Penker	Chapter 1	24	628		629		and an issue specific for this region, therefore it was mentioned here but not in other regions
						High relevance of subsistence farming, in many parts of Central Europe, e.g. Romania. (e.g.: http://www.europarl.europa.eu/RegData/etudes/etudes/join/2013/495861/IPOL-AGRI_ET(2013)495861_EN.pdf)	now it is mentioned
Maximilian Weigend	Chapter 1	24	630	24	633		and the land of the second or an arranged of
Germany	Chapter 1	24	630	26	733	Here and again below, there seems to be an entirely unnecessary political side-story. I would delete everything up to "1890s." Please critically cross-check and ensure that that this section of the chapter is not overemphasizing some historic events, thereby paying less attention to other events. It must be ensured that a balanced view is provided and	political side-story removed as requested
Cermany	chapter 2	2-4	030	20	,,,,	that the information is really relevant for the ECA assessment.	The chapter was restructured
João Garcia Rodrigues	Chapter 1	24	633	24	633		
I- % - County Do doloros	Charter	24	624	24	624	Change "Communism" to "Union of Soviet Socialist Republics (USSR)" because actually it was the latter that collapsed.	text has been edited accordingly
João Garcia Rodrigues	Chapter 1	24	634	24	634	Erase "becoming the region of young democracies" as this is rather debatable and controversial.	done - the reviewer is right, the region had a certain level of democracy even before the 20th century
Maximilian Weigend	Chapter 1	24	640	24	641		and die reviewer is right, the region had a certain level of democracy even before the zon certainy
	,					true - but relevant?	statement removed
João Garcia Rodrigues	Chapter 1	24	640	24	640	It implies that totalitarian regimes were a specificity of Central Europe. Why this link between totalitarian regimes and environment degradation is not made for Western Europe? There were several totalitarian regimes in WE	
Maximilian Weigend	Chapter 1	24	641	24	646	in the 20th centuary as well, e.g., Germany, Italy, Spain, etc. Were they "better" for the environment than the ones in CE? diversity, ranges, endemism for selected taxa are urgently required here, for coming to grips with actual spatial patterns. A qualified discussion on which parts of the diversity and ecosystem services resides in PNV and which	statement removed
www.iiiiiaii weigeliu	chapter 1	24	0-41	24	340	oversity, ranges, enterminino serected taka are digentry required nere, for coming to grips with actual spatial partierns. A qualified discussion on which parts of the diversity and ecosystem services resides in FNV and which parts of the diversity and ecosystem services resides in FNV and which parts of the diversity and ecosystem services resides in FNV and which parts of the diversity and ecosystem services resides in FNV and which parts of the diversity and ecosystem services resides in FNV and which parts of the diversity and ecosystem services resides in FNV and which parts of the diversity and ecosystem services resides in FNV and which parts of the diversity and ecosystem services resides in FNV and which parts of the diversity and ecosystem services resides in FNV and which parts of the diversity and ecosystem services resides in FNV and which parts of the diversity and ecosystem services resides in FNV and which parts of the diversity and ecosystem services resides in FNV and which parts of the diversity and ecosystem services resides in FNV and which parts of the diversity and ecosystem services resides in FNV and which parts of the diversity and ecosystem services resides in FNV and the diversity and ecosystem services resides in FNV and the diversity and ecosystem services resides in FNV and the diversity and	this is beyond the scope of the intro
Germany	Chapter 1	24	641	24	646	Here are many quite general statements. Is it possible to provide a more nuanced picture reflecting actual spatial patterns, and the role of cultural landscapes? After all, diversity, ranges and endemism for selected taxa are	
						urgently required here in order to come to grips with actual spatial pattierns. A qualified discussion on which parts of the diversity and ecosystem services resides in PNV and which parts are in cultural landscapes needs to be	
Frank Wugt Larsen	Chapter 1	24	647	24	650	addressed.	this is beyond the scope of the intro
(EEA input)	Chapter 1	24	047	24	030	References should be reversed, right? In general, there is a need to check references in the chapters. References are cited in text but don't appear in reference lists, and references are missing in some graphs etc.	references have been reworked in the SOD
Maximilian Weigend	Chapter 1	24	653	24	653		
						please spell out what they are important for	text has been edited accordingly
Germany Maximilian Maigand	Chapter 1	24	653	24		Please provide more information on the role of "green corridors"	text has been edited accordingly
Maximilian Weigend	Chapter 1	24	655	24	656	I seem to see a paradigm creeping in here. Traditionally, it seems to be the only vision that every country - under ideal conditions - ends up looking like Germany or Switzerland. But is this a given, or will not western European consumption patterns also have to adjusted? I would downscale that statement and make It more open and the consumption patterns also have to adjusted? I would downscale that statement and make It more open.	statement tuned down
Germany	Chapter 1	24	655	24	656	This statements might supports the paradigm that every country - under ideal conditions - would end up like western states such as Germany or Switzerland. But western European consumption patterns may also have to	
,	· ·					adjust? We therefore suggest to open up this statement for more discussions/perspectives.	statement tuned down
Tom West	Chapter 1	24	658	24	659		because EU law is more recent in this region, for most of the EU history this region has been outside the
Germany	Chanter 1	24	658	24	e e o	Why the shorter reference to EU law here given that the EU is just as relevant to CE as WE? Perhaps a box on the EU between 1.4.2 and 1.4.3, or in 1.4.6? This is not true for all Central European countries, as some countries are less closely associated to the EU; adifferentiation has to be made	EU this statement has been changed
Germany Friedrich Wulf	Chapter 1 Chapter 1	24	661	25		Inis is not true for an Central European Countries, as some countries are less crossey associated to the European source and the European Countries are less crossey associated to the European Source and European Countries are less crossey associated to the European European Countries are less crossed as the European European European Countries are less crossed as the European Eu	ans saccinent has been changed
						learns that Europe ends at the Ural mountains. Europe, and Estaern Europe as part of it, doesn't extent to the Pacific Ocean by common coventional definition. Asia would suddenly be south of Europe instead of East. In order	
						to avoid confusion, we suggest to rename the subregion consistently as "Eastern Europe and Northern Asia". Besides the title in lien 661, there are a number of othe rplaces where this should be changed, see below for some	
Mayimilian W-1	Chante - 4	24			664	examples	this is discussed now in the beginning of the chapter
Maximilian Weigend	Chapter 1	24	663	24	664	this is a weird combination of geographical and policital terminology and needs some tidying up	This has been tidied up
Friedrich Wulf	Chapter 1	24	663			tas is a went commontor googlapined and potential terminological properties of the common of the com	Not possible to do, since we are mandated to use UN terminology
	.,						

Elena Bukvareva	Chapter 1	25	667	25	668	1. Significant ecological problems because of oil and gas extraction are in Western Siberia and problems with the forest protection are in the south part of Siberia and the Russian Far East. 2. The Russian Far East (from	
						Chukotka in the north to Primorye) in the south) is not a part of Siberia in a geographical sense. 3. Tundra occupies extensive territory in Siberia and Russian Far East. So it is more correctly to write as follows: ", while the	
						sparsely populated regions in the central and nortern regions of the Asian part of Russia are mostly covered by unmanaged forests and tundra".	this section was extensively revised, far more details now
Maximilian Weigend	Chapter 1	25	668	25	668	3	
						this is a very unscientific way of looking at Sibiria - there is taiga and tundra, also deciduous forests and steppe in huge quantities	this section was extensively revised, far more details now
Germany	Chapter 1	25	668	25	668	Please reconsider the statement on Sibiria- there is taiga and tundra, also deciduous forests and steppe are common. This needs to be reflected as well	this section was extensively revised, far more details now
	Chapter 1	25	670			Please change "Eastern Europe" to "Eastern Europe and North Asia"	Not possible to do, since we are mandated to use UN terminology
Germany	Chapter 1	25	674	25	675	This sentence is limiting the policies to very narrow, highly political aspects which give in their wording a wrong view on the policies ("ranging from close ties with Russia to armed conflict"); should be more diplomatically	
						formulated (respecting the fact that all countries are involved in the formulation of this chapter)	reformulated accordingly
	Chapter 1	25	675	25	676	5 Some countries nowadays have new strategies towards economic diversification (e.g. Kazakhstan); should be mentioned	changed as proposed
	Chapter 1	25	676	25		Proposed addition: "While some countries continue to rely on export of natural mineral resources and agriculture goods others are re-focusing their economy"	changed as proposed
	Chapter 1	25	678 679	25	680	Energy dependencies of some countries as well as poverty should also be mentioned as factors affecting biodiversity; the impact it has on forestry; also mention earthquake in Armenia	will be extensively dealt with in later chapters
	Chapter 1 Chapter 1	25 25	682	25	60'	Please change "Eastern Europe" to "Eastern Europe and North Asia" Overall, I lack the perspective in all the discussion on "natural landscapes" -I have a feeling that some degree of quantification would be sensible - how much of the area is directly or indirectly affected by human activities?	Not possible to do, since we are mandated to use UN terminology
iviaxiiiiiiaii vveigeiiu	Chapter 1	23	002	23	003	Probably a tiny fraction, compared to western Europe?	some degree of quantification added with human population density
Germany	Chapter 1	25	682	25	693	Some degree of quantification would be very useful. How much of the area in the central and eastern parts of ECA are affected by human activities (compared to Western Europe)?	some degree of quantification added with human population density
	Chapter 1	25	686	25	687		
						I am not sure we need that here	this section was extensively revised
Maximilian Weigend	Chapter 1	25	689	25	694		
						I don't agree there - it is mainly political will and neither needs to be spelt out here. I would tend to steer clear of any interpretation in a political sense.	corrected
Douglas Nakashima	Chapter 1	25	689	25	689	Section 1.4.4. Eastern Europe and its landscapes	
						"Eastern Europe is characterized by vast expanses of intact nature in the Taiga and Tundra zone ()"	
						Be careful with the term "intact nature", can pose the same problems as "wilderness", see line 32 of this table.	corrected
	Chapter 1	25	689	25	695	s Stand alone paragraph, partly repeating what was written before; not a good paragraph to finish a subchapter	changed accordingly
	Chapter 1	25	689	_		Please change "Eastern Europe" to "Eastern Europe and North Asia"	Not possible to do, since we are mandated to use UN terminology
	Chapter 1	25	690	25	690	Proposed addition: " alpine areas of the Caucasus, Ural and siberian mountains,"	modified accordingly
	Chapter 1	25	694		ļ	Please change "Eastern Europe" to "Eastern Europe and North Asia"	Not possible to do, since we are mandated to use UN terminology
	Chapter 1	25	695			Not clear what is meant by 'reconcile for individual decisions'	changed to make clearer
Germany	Chapter 1	25	697	26	716	5	
		25	205			Energy dependencies of some countries as well as poverty should also be mentioned as factors affecting biodiversity; the impact it has on forestry (poor people e.g. in Tajikistan cut down wood to survive)	this will be dealt with in later chapters
Maximilian Weigend	Chapter 1	25	708	25	710		Total has been added assemble about
		25	242		70.	correct, but likely superfluous here	Text has been edited accordingly
	Chapter 1 Chapter 1	25 26	717 717	25 28		This paragraph seems to have been appended but should ideally be integrated with the previous covering several of the same issues, i.e. climate.	Text has been edited accordingly
Maximilian Weigend	Chapter 1	26	/1/	28	///	cross-regional and cross-subregional issues: this is evidently still very much work in progress. It would be nice to segregate out socio-economical issues from material issues and clearly segregate aspects such as pollution from joolitics in the descriptive part.	this is still the intro, more details will be in the later chapters
Mayimilian Moigand	Chanter 1	26	717	26	723		this is still the intro, more details will be in the later chapters
Maximilian Weigend	Chapter 1	26	/1/	26	/2.	same statement as paragraph above	this is still the intro, more details will be in the later chapters
Friedrich Wulf	Chapter 1	26	718	26	710	Same statement as an agraphic above To avoid redundance with the previous sentence, we suggest to change the sentence to "Due to its arid continental climate, water is a limiting resource in most of the region."	this section has been revised to include more details
Thomas Brooks	Chapter 1	26	723	26	726		dis section has been revised to include more details
(IUCN)	Chapter 1	20	723	20	/20	What about transboundary pressures/threats? Acid rain, invasive species, etc. Also, funny to lump the first two points raised here under section 1.4.6, and then separate the third as 1.4.7.	corrected
	Chapter 1	26	725	26	72	The relationship between the SUL, the EEA and EFTA needs a little more detail. Eg Many (but not all EU laws apply throughout the EEA, (which excluding substituting substitution substituting substituti	Corrected
Tom West	chapter 2	20	123	20	/	but the Habitats Directive does not. It is through EFTA institutions that EU laws applicable to the EEA are uppeled.	this is not discussed here for brevity
Tom West	Chapter 1	26	733	25	733		
						Why use the technical economic term 'natural capital'? Surely what is meant here is nature, especially since EU laws such as the Habitats Directive do not protect natural capital (ie the economic manifestation of nature), but	
						rather nature - compare 'Nature' and 'Nature's benefits to people' in the IPBES Conceptual framework. Protection of the environment has itself become a legitimate aim of the EU, aiming at "a high level of protection and	
						improvement of the quality of the environment" (Treaty on European Union Article 3(3), see also Treaty on the Functioning of the European Union Title XX).	changed accordingly
Mark Snethlage	Chapter 1	26	735	26	742	The loss of ecological connectivity along national borders is also an issue that needs to be dealt with in a transborder context, with the physical closing of national borders inside Europe (in the context of the migration crisis)	
						causing challenges to the conservation of biodiversity and ecological connectivity. Reference: Linnell, J.D.C., Trouwborst, A., Boitani, L., Kaczensky, P., Huber, D., Reljic, S., Kusak, J., Majic, A., Skrbinsek, T., Potocnik, H.,	
						Hayward, M.W., Milner-Gulland, E.J., Buuveibaatar, B., Olson, K.A., Badamjav, L., Bischof, R., Zuther, S., Breitenmoser, U., 2016. Border Security Fencing and Wildlife: The End of the Transboundary Paradigm in Eurasia? PLOS	
						Biol 14, e1002483. doi:10.1371/journal.pbio.1002483	to be dealt with in later chapters, not the intro
Maximilian Weigend	Chapter 1	26	735	26	742	l would say that transboundary effects are dramatic in radioactivity, talking about eastern Europe, and fisheries, talking about southern and western Europe, the Baltic and the Black Sea. Overall, I am not sure what this	
						paragraphs wants to explain - the nature of transboundary issues or their general presence (with detailed to elaborated elsewher? If the latter, then negative and positive transboundary effects should be clearly set out as	
						examples, maybe 2 each. If the former, then this really has to be several pages of qualified statements and supported with literature.	yes this is only a set of examples
Germany	Chapter 1	26	735	26	742	Please provide references for the statements made in this para. This paragraph would really benefit from the expanding the discussions on the nature of transboundry effects, thereby including negative and positive	
						transboundry effects and showcasing examples.	to be dealt with in later chaptes, not the intro
	Chapter 1	26	738				
IPBES National Focal						Impacts as biblists suality use but also accounts meaning and human houlth?	corrected
1 Onit	Chante - 1	30	744		7	Impacts on habitat quality, yes, but also ecosystem services and human health?	corrected
Maximilian Weigend	Chapter 1	20	/44	26	/48	the laste note also refers to this. Either highlighting the presence, or describing their nature and extent and reference to where this is treated in extenso - the export of waste to Africa and Asia and the EU-fisheries off the	The text has been edited accordingly
Germany	Chapter 1	26	744	26	740	African coast are major negative impacts that need to be mentioned We welcome the section on cross-regional issues very much and hope to read a much more detailed analysis in the SOD. Issues such as export of waste to other regions as well as fisheries would be important points which	THE LEAL HOS DEEN EUILED BLLOT UNINGLY
Germany	cuapter 1	20	/44	26	/48	we welcome the section on cross-regional issues very much and nope to read a much more detailed analysis in the SOU. Issues such as export or waste to other regions as well as insheries would be important points which need to be considered as well.	Yes agreed and edited
Esra Başak Dessane	Chapter 1	26	744	27	765	need to the contribution to the contribution of the contribution o	Yes agreed and edited
	Chapter 1	26	744	27	7/0	In would be worth white to finale sure that similar mortination is not repeated in this section and in Section	res agreed and cance
mark Shethiage	chapter 1	20	/40	20	/40	produces for the global market and results in severe environmental degradation and biodiversity loss in The Netherlands (mainly deteriorating hydrology, habitat fragmentation and eutrophication due to excessive Nitrogen	
						inputs).	Yes, agreed and edited
Esra Başak Dessane	Chapter 1	26	749			Typo - Ivielinoods	Changed
	Chapter 1	28	777			We strongly propose to include the work undertaken by Friends of the Earth Europe and the EU Comission on the four footprints and the analysis of global interrelations concerning these footprints:	
						https://www.foeeurope.org/sites/default/files/foee-briefing-four-footprints.pdf and http://creea.eu/index.php/7-project/8-creea-booklet	Some of this work has been included
Maximilian Weigend	Chapter 1	28	779	50	863		
						This chapter, again, has no clear link to the ECA-Assessment and this should be made explicit, if such a direct and exclusive link is assumed.	Text has been revised
Maximilian Weigend	Chapter 1	28	780	30	862	2	
						This paragraph should be dramatically shortened, since only parts it are ECA-specific and there is going to be broad overlap with the other regional assessments	Text has been revised
	Chapter 1	28	780	30	862	2 This paragraph is very broad and might overlap with the other regional assessments - please ensure it's more focused on ECA- specific information	Text has been revised
	Chapter 1	28 28	790			Where did these questions come from and how were they selected? Such details should be included.	Text has been revised
Maximilian Weigend	Chapter 1	28	797	29	821	<u> </u>	
						These questions appear very general, even the "ECA-specific questions", they sure must be coming directly from some other IPBES-document?	This is now discussed in the text
	Chapter 1	28	798	28	798		
(IUCN)		20	044			As with ecosystems generally, "ecosystem functions" are part of biodiversity overall (CBD definition). So delete the redundant "ecosystem functions". Same applies throughout (eg L801, L804-5, L807, L810, L1215).	This is correct, but we feel that it's important in this chapter to recognise 'functions' explicitly.
Asimina Skouteri	Chapter 1	28	810	28		International level [e.g., How payments for biodiversity conservation can be targeted globally -under evaluation of their strengths and weaknesses - for their application in International Paymentes for Ecosystem Services IPES	
C	Charte		000		0	[Wunscher and Engel, 2012]]	Thanks
Germany	Chapter 1	30	822	30	893	Here we welcome the overview tables which provide detailed information on how the information in the chapters corresponds to EU Biodiversity targets, Aichi targets and SDGs. It would be useful to reflect back on these	It is not clear which corresponding chapters are help
	Chapter 1	20	020		000	tables in the corresponding chapters.	It is not clear which corresponding chapters are being referred to here
Tom Wort		29	830	29	830	should read 'Parties to the Convention on Biological Diversity'	Corrected
		20	040				Corrected
Esra Başak Dessane	Chapter 1 Chapter 1	30	846 846	20	044	Typo SDG and not SGDS Is should be SDG Tather than SSD	Corrected

Part								
Part	Andrew Stott, UK	Chapter 1	30	847		848		
Part							Value statements assis 'hindiwers'in crisis' and also a parson BD-centric interpretation of the SDGs. The SDGs address different elements across the whole IDBS CE	The text has been edited accordingly
Mary		Chanter 1	30	856	30	857	Value statements again indurers in the reference peeded or own compilation? Table - it this taken form somweber? (the reference peeded) or own compilation?	07
Company Comp			30		30	057		
Note	IPBES National Focal							
Mary	Point							Not clear what the point is here
Company Comp	Maximilian Weigend	Chapter 1	31	864	32	911		
West							This section is pertinent, since it provides a direct link to the ECA-region. An elaboration is here crucially important.	Thanks
Part		Chapter 1	31	867		885	When EII but the major valid for implementation are the nelicies and along at the nestional level and there is a great deal of valid in his house on Mr. The simulation makes is not come to	Keen in mind that we are not addressing individual countries. A small contense has been added about
Property 1								
The color of the	Tom West	Chapter 1	31	869	31	869		
	Tom West	Chapter 1	31	872	31			
	Tom West	Chapter 1	31	875	31	875		
March Marc								Tout has been edited assertlingly
Section Sect	Sonhia Condá	Chanter 1	21	996				
March Marc					32	988	Table 1.5 section fully completed with miss Section in the Section in the Section full completed with miss Section fully completed with miss Section fully completed with section for the Section full completed According to CRD (https://www.chd.int/nbsap/targets/default-shift) like Virgory Republic does have national targets which have relevance for Aichi targets.	
Mathematical Math					- 32	000	Total 2 or total training of the Interest and training tr	The table has been earled accordingly
Section Sect	IPBES National Focal							
Part	Point						This table should be expanded to show the diversity within the EU. Few MS have adopted the EU targets directly.	The table has been edited accordingly
Part	Friedrich Wulf	Chapter 1	32	888				
Part								
Control Cont								We stall have been added accordingly.
Section Sect	T 14/	Chart		201	-			
Name								
Part	Allan Watt		32					
Company Comp						911	We welcome very much an overview of relevant other environmental and non-environmental policies and governance. However, the selection here is not transparent neither complete. Also, this might better fit in chanter 67	
March Marc	,		32	555	52			The text has been revised in the SOD
The content of the	Andrew Stott, UK	Chapter 1	32	895		907		
Franchis (Paper 1) 1 2 9 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	IPBES National Focal							
Fig. 1. Sept. 1. Sept								Text has, and will continue, to be revised
The second secon	Friedrich Wulf	Chapter 1	32	899				
Language Mayor I. 32 50 50 12 50 50 50 12 50 50 50 12 50 50 50 50 50 50 50 50 50 50 50 50 50								The section has been so written
Part Company	T 14/	Chartert	22	007	22	007	Deen extended to include poincies concerning the broad implications The Nativacy of 2000 activacy is a screen for the Nativacy is produced to the produced	
Mode			32				The Natura 2000 Hetwork is a result of the nabitals bifective. This could hardly be described as an other policy that affects co-diouversity but rather is the confessione of co-diouversity policy.	The text has been revised
Automatic Marketon Pour Joseph Company (2014) 1 9 1 9 1 17 19 and CTT Apogrations companying for the latter factor for Tify and only implementation from any prising agreement of single filt countrys, which have been implemented for many years and which contributions are provided and provided and many deather and the provided an		Chapter 1	32	307	32	307	Nature 2000	corrected
August A	,	Chapter 1	32	910		910		
From the Conference of Confere								Corrected
Securing Contents (Supple 1	Maximilian Weigend	Chapter 1	33	913	38	1117		
Compare 1 33 94 33 95 45 35 95 130 95							This paragraph is fairly generic and the connection to ECA does not become explicit. If this is the general procedure as per IPBES-spec, then it is superfluous. If not, then it needs to be spelt out more clearly.	
uncertainty statements are used for the finding only (PRES gaddless) for September 1 3 9 5 5 1 20 20 20 20 20 20 20 20 20 20 20 20 20								it has been corrected to experts on ILKP
Super Feeter Ougster 1 31 952 33 952 33 952 submits returned to proceed the formation about the "Kir Procedures" Procedures" Procedures Procedures and Experimentary Ougster 1 33 953 35 950 We will come the super desirable procedures and the super desirable proc	Germany	Chapter 1	33	943	33	949		uncostainty statements are used for low findings only (IDDES suidelines)
is a signate for the state of t	Roger Keller	Chanter 1	33	952	33	952		
Figure 1 2 3 5 5 5 3 5 5 5 3 5 5 5 3 5 5 5 5 5 5								Corrected
ignormany (a) Support 1 3 3 5 9 5 1 3 5 9 7 We welcome the attention understand to again uncertainty levels for standards of confidence terms used by the well-standard confidence terms used to the confidence terms used by the well-standard confidence terms used to the confidence terms used by the well-standard confidence ter	Germany	Chapter 1	33	955	33	960	We welcome the use of so called 'tracebility accounts' to ensure transparency of the choice of appropriate uncertainty statements. However, it seems that such accounts are not yet used throughout the assessment. Please	
where the qualitative communication of confidence test entracted from AR37), and no reference is make to the confidence terms used by the SMS variety with register confidence terms used by the SMS variety with present and register to subject to the use of confidence terms used by the SMS variety with present and register to subject to the use of confidence terms used by the SMS variety with present to the use of confidence terms used by the SMS variety with the global assessments and PRISS SMS variety with the global assessment is an expectated by the subject assessment with the global assessment is an expectated by the subject assessment with the global assessment is an expectated by the subject assessment with the global assessment is an expectated by the subject assessment with the global and the present as an expectate to extravely control to the use of confidence terms used by the subject to the present as an expectate to extravely control to the use of confidence terms used by the subject to the present and the present as an expectate to extravely control to the use of confidence terms used by the subject to the present and the present as a register of								traceability accounts will have to be used for key findings only (IPBES guidelines).
PRES as outlined in PRES/4/INI/P) gages 546. Surely, the confidence terms used here are based on the experiences of the IPCC. But it would be helpful for refer to this PRES focument as a lergonal assessments as well as the experiences of the IPCC. But it would be helpful for refer to this PRES focument as a lergonal assessments as well as the experience for the IPCC and the properties of the IPCC and the	Germany	Chapter 1	33	961	33	967		
the glocal assessments and PBES themstalt assessments. And PBES themstalt assessments and align to referring to the same confidence terms in order to ensure consistency in the treatment of uncertainty across all regional reports as this is an essential performance of the pBES deliverable which indeed this is based on. And of the Chapter 1 3 9 956								
persoquitine for the global assessment. we now refer to the persognitive for the global assessment. we now refer to the person process of the policy of the plant of the person process of the perso							IPBES as outlined in IPBES/4/INF/9 pages 58-bs. Surely, the confidence terms used nere are based on the experiences of the IPCC. But it would be neighbly to refer to this IPBES document as all regional assessments as well as the page capture of the IPCC. But it would be neighbly to refer to this IPBES document as all regional assessments as well as the page capture of the IPCC. But it would be neighbly to refer to this IPBES document as all regional assessments as well as	
General Maplet 1 33 95 1 95 1 95 1 95 1 95 1 95 1 95 1								we now refer to the IPBES deliverable which indeed this is based on.
Maximis Mergend Obapter 1 34 971 34 972 usually, the methods section is written in the first steps of any kind of review article, because knowing what you do and how you do it is the prerequisite to actually carrying out the task at hand. Unfortunately, espocially this comments was transferred to chapter 3 steps of the same transferred to chapter 3 steps of the course of the authority of the same technique of the course of the authority of the same technique	Germany	Chapter 1	33	965			wrong reference: Mastrandrea et al. 2011 (not 2010), Moss and Schneider not in references list	
Chapter 1 34 97 34 97 34 97 89 We welcome the section on methods as testing important to ensure the transparency and finally credibility of the assessment. We therefore would like to encourage the authors to provide a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies. The provides a thorough and well-structured overview of the methodologies used in the same applies for "instrumetal" and "relations" values. Without such definitions the whole paragraph is not definitions than well-and the province of the province					34	978		,
Semany (Paper 1 34 97) 35 98 We whome the section on methods. To be clear on the methodologies used in the assessment to ensure the transparency and finally credibility of the assessment. We therefore would like to the clear of the production of what is a section of the production of what is a way to definition of what are "anthropocentric" values. The same applies for "instrumetal" and "relational" values. Without such definitions have been added according to the definitions have been added							chapter 3 gives the distinct impression that these preliminary steps were never carried out.	this comments was transferred to chapter 3
Addrain Wolciak Addrai	Germany	Chapter 1	34	971	34	978	We welcome the section on methods. To be clear on the methodologies used in the assessment is extremely important to ensure the transparency and finally credibility of the assessment. We therefore would like to	
Figure 2 by 1 by 1 by 2 by 2 by 3 by 3 by 3 by 3 by 3 by 3						l		thanks
clear especially for non social-scentists. Possible literature: Selegar, R. S. (2006). Egoistic, altrustic, and biospheric environmental concenss. Measurement and structure, 26, 87–99; Stern, P. C., Dietz, T., Kalof, L., & Guagnano, G. (1995). Values, beliefs, and proenvironmental action: Attitude objects. Journal of Applied Social Psychology, 25, 1611–1636. definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to definitions given in IPBES/4/INF/13 definitions have been added according to the definitions given in IPBES/4/INF/13 definitions have been added according to the definitions given in IPBES/4/INF/13 definitions have been added according	Adrian Wójcik	Chapter 1	34	979	35	1017		
G. A. (1995). values, beliefs, and proenvironmental action: Attitude formation toward emergent attitude objects. Journal of Applied Social Psychology, 25, 1611–1636. Com West								
definitions have been added according to definitions given in IPBES/A/INF/13 The Başak Dessane (Rapter 1 35 98t								
Com West Chapter 1 35 981 35 981 35 981 15 not the case that Value is only used anthropocentrically in the IPBES/4/INF/13 in order to allow the focus on ECA, it would be good to condense the information here, as definitions have been added according to definitions given in IPBES/4/INF/13 in order to allow the focus on ECA, it would be good to condense the information here, as definitions and general on Advanced information about values may be beyond the purpose of the ECA-assessment on an addressed information about values may be beyond the purpose of the ECA-assessment on an addressed information about values may be beyond the purpose of the ECA-assessment on an addressed information about values may be beyond the purpose of the ECA-assessment on an addressed mainly through the purpose of the ECA-assessment on an addressed mainly through the purpose of the ECA-assessment on an addressed mainly through the purpose of the ECA-assessment on an addressed mainly through the purpose of the ECA-assessment on an addressed mainly through the purpose of the ECA-assessment on an addressed mainly through the purpose of the ECA-assessment on an addressed mainly through the purpose of the ECA-assessment on an addressed mainly through the purpose of the ECA-assessment on an addressed mainly through the purpose of the ECA-assessment on an addressed mainly through the purpose of the ECA-assessment on an addressed mainly through the purpose of the ECA-assessment on an addressed mainly through the purpose of the ECA-assessment on the definitions given in this chapter use are addressed mainly through the purpose of the ECA-assessment on an addressed mainly through the purpose of the ECA-assessment on an addressed mainly through the purpose of the ECA-assessment on the ECA, it would be good to condense the information here, as definitions and ge							элэг цэхээ, элих, элих, элих у элентилтения осион. Андиас потваил начан стенден андиас објесь. Journal of Applied Social Fsychology, 25, 1012—1050.	definitions have been added according to definitions given in IPRES/4/INE/13
Seramay Chapter 1 35 986 35 987 35 990 31 35 987 35 990 31 35 987 35 987 35 987 35 987 35 987 35 987 35 987 35 987 36 1029 31 35 987 36 1029 31 35 987 36 1029 31 35 987 36 1029 31 35 987 36 1029 31 35 987 36 1029 31 35 987 35	Tom West	Chapter 1	35	981	35	981	Lit is not the case that 'value' is only used anthropocentrically in the IPBES framework, since the framework includes nature's intrinsic value.	
Sermany Chapter 1 35 986 35 986 35 986 35 986 35 986 35 986 35 987 36 987 35 990 35 990 35 990 35 990 36 1029 36 1029 37 36 1029 387 38 990 387 36 1029 387 38 990 387 36 1029 387 38 990 387 36 1029 387 38 990 387 36 1029 387 38 990 387 36 1029 387 38 990 387 390 390 390 390 390 390 390 390 390 390			35				Space between values and methods	
Information about values may be beyond the purpose of the ECA-assessment Ok Mone (Feferaced) Ok Mone (Feferace) Ok Mo		Chapter 1		986	35	986	it would be good to reference to the preliminary guide on the conceptualization of values IPBES/4/INF/13. In order to allow the focus on ECA, it would be good to condense the information here, as definitions and general	
1) There is an enormous body of philosophical, political and legal literature that engages with the concept of nature's intrinsic value (le non-anthropocentric value). As such, it is hard to see how "non-anthropocentric values are addressed mainly through the science of" See comments to Chapter 3.2) The assessment methods for intrinsic value (le non-anthropocentric values). As such, it is hard to see how "non-anthropocentric values are addressed mainly through the science of" See comments to Chapter 3.2) The assessment methods for intrinsic value, are not detailed in this paragraph, although line 986 says that they will be. The policy of values under consideration and the associated methodologies used. The policy of values under consideration and the associated methodologies used. The policy of values under consideration and the associated methodologies used. The policy of values under consideration and the associated methodologies used. The policy of values under consideration and the associated methodologies used. The policy of values under consideration and the associated methodologies used. The policy of values under consideration and the associated methodologies used. The policy of values under consideration and the associated methodologies used. The policy of values under consideration and the associated methodologies used. The policy of values under consideration and the policy of values under consideration and the associated methodologies used. The values cannot be assessed through natural science scan not fully apprehend this category. Nevertheless it is not described here what the authors understanding social science search for natural science scan not fully apprehend this category. Nevertheless it is not described here what the authors understanding social science search for natural science scan not fully apprehend this category. Nevertheless it is not described here what the authors understanding social science search for natural science scan natural science scan natural science can							information about values may be beyond the purpose of the ECA-assessment	
rom West Chapter 1 35 987 36 1029 Overall, it would improve the report to have a section 1.7 Values. This would set out clearly how the report defines the pluralistic types of values under consideration and the associated methodologies used. Roger Keller Chapter 1 35 991 35 1017 Results from Social Sciences don't seem to be fully considered. The description of "Relational values and a transdisciplinary approach" since references are missing. Reading recommendation: Moon and Blackman (2014): A guide to understanding social science research for natural science can not fully apprehend this category. Nevertheless it is not described here what the authors scientists. In: Conservation Biology. The values cannot be assessed through natural science methods, only the interactions can be measured. Given the definition of value in line 981 (which only applies to anthropocentric, not the non-anthropocentric values that non-anthropocentric values, are possible to the science can not fully apprehend this category. Nevertheless it is not described here what the authors scientists. In: Conservation Biology. The values cannot be assessed through natural science methods, only the interactions can be measured. Given the definition of value in line 981 (which only applies to anthropocentric, not the non-anthropocentric values that natural science can not fully apprehend this category. Nevertheless it is not described here what the authors scientists. In: Conservation Biology. The values cannot be assessed through natural science methods, only the interactions can be measured. Given the definition of value in line 981 (which only applies to anthropocentric, not the non-anthropocentric values that natural science can still contribute to understanding values, many of the values are based on natural science.	Tom West	Chapter 1	35	987	35	990		
Form West Chapter 1 35 987 36 1029								
Germany Chapter 1 35 987 35 990 Sermany Chapter 1 35 991 35 991 Sermany Chapter 1 35 991 35 991 35 991 Sermany Chapter 1 35 991 35 991 35 991 35 991 35 991 Sermany Chapter 1 35 991 35 991 35 991 37 William Individual Chapter Chapt	T 14/	Chart	25	005				
Chapter 1 35 987 35 990 987 and 1011ff. How do ecology, biology and (biolgeochemistry address non-anthropocentric values, Biology and ecology might address phenomena that inhere intrinsic values, but then there has to be consensus that non-anthropocentric values (i.e. things that have value independent from human valuation) actually exist, which is a value judgement and therefore might not be dealt with by biology or ecology. Chapter 1 35 991 35 1017 Results from Social Sciences don't seem to be fully considered. The description of "Relational values" shows that natural sciences can not fully apprehend this category. Nevertheless it is not described here what the authors understand by "Cultural and social methods and a transdisciplinary approach" since references are missing. Reading recommendation: Moon and Blackman (2014): A guide to understanding social science research for natural definitions have been added according to the definitions piven in IPBES/4/INF/13 definitions have been added according to the definitions have been added acc	rom west	cnapter 1	35	987	36	1029		
987 and 1011ff. How do ecology, biology and (biolgeochemistry address non-anthropocentric values. Biology and ecology might address sphenomen that inhere intrinsic values, but then there has to be consensus that non-anthropocentric values (i.e. things that have value independent from human valuation) actually est, which is a value judgement and therefore might not be dealt with by biology or ecology. Chapter 1 35 991 35 1017 Results from Social Sciences don't seem to be fully considered. The description of "Relational values" shows that natural sciences can not fully apprehend this category. Nevertheless it is not described here what the authors understanding social science research for natural sciences are missing. Reading recommendation: Moon and Biochman (2014): A guide to understanding social science research for natural sciences are missing. Reading recommendation: Moon and Biochman (2014): A guide to understanding social science research for natural sciences are missing. Reading recommendation: Moon and Biochman (2014): A guide to understanding social science research for natural sciences are missing. Reading recommendation: Moon and Biochman (2014): A guide to understanding social science research for natural sciences are missing. Reading recommendation: Moon and Biochman (2014): A guide to understanding social science research for natural sciences are missing. Reading recommendation: Moon and Biochman (2014): A guide to understanding social science research for natural sciences are missing. Reading recommendation: Moon and Biochman (2014): A guide to understanding social science research for natural sciences are missing. Reading recommendation: Moon and Biochman (2014): A guide to understanding social science research for natural sciences are missing. Reading recommendation: Moon and Biochman (2014): A guide to understanding social science research for natural sciences are missing. Reading recommendation: Moon and Biochman (2014): A guide to understanding social science research for natural sciences ar	Germany	Chanter 1	25	097	25	ggr		demonstrating the pidranstic approach or ippes
Anthropocentric values (i.e. things that have value independent from human valuation) actually exist, which is a value judgement and therefore might not be dealt with by biology or ecology. Chapter 1 3 991 35 1077 Results from Social Sciences don't seem to be fully considered. Then human valuation) actually exist, which is a value judgement and therefore might not be dealt with by biology or ecology. Chapter 1 3 992 35 992 37 992 39 992	oc. many	Chaptel 1	33	20/	22	390		
Roger Keller Chapter 1 35 991 35 1017 Results from Social Sciences don't seem to be fully considered. The description of "Relational values" shows that natural sciences can not fully apprehend this category. Nevertheless it is not described here what the authors understand by "cultural and social methods and a transdisciplinary approach" since references are missing. Reading recommendation: Moon and Blackman (2014): A guide to understanding social science research for natural definitions have been added according to the definitions given in IPBES/4/INF/13 (Fig. 1) and the science scan not fully apprehend this category. Nevertheless it is not described here what the authors understanding social science research for natural definitions have been added according to the definitions given in IPBES/4/INF/13 (Fig. 1) and the science scan not fully apprehend this category. Nevertheless it is not described here what the authors understanding social science research for natural science research for natural science are missing. Reading recommendation: Moon and Blackman (2014): A guide to understanding social science research for natural definitions have been added according to the definitions given in IPBES/4/INF/13 (Fig. 1) and the science scan natural science can natural sci								definitions have been added according to the definitions given in IPBES/4/INF/13
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Chapter 1 3 99 3 5 Scientists. In: Conservation Biology. Ghapter 1 3 992 3 992 The values cannot be assessed through natural science methods, only the interactions can be measured. Given the definition of value in line 981 (which only applies to anthropocentric, not the non-anthropocentric values that natural science can still contribute to understanding values, many of the values are based on natural]				
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	Tom West	Chapter 1	35	992	35	992		
IPBES also includes), natural science methods cannot provide ways to understand values, given their aim to minimise the subjective perspective that is essential to the notion of 'value'. science recognizing the importance of certain ecosystem processes to human life			1			l		
							IPBES also includes), natural science methods cannot provide ways to understand values, given their aim to minimise the subjective perspective that is essential to the notion of 'value'.	science recognizing the importance of certain ecosystem processes to human life

							_
Tom West	Chapter 1	35	998	36	1029	I found the paragraphs on the whole rather confused and confusing (eg see previous comment). Definitions of key terms is needed, in particular: value, anthropocentric value, intrinsic value, economic value, monetary value,	
						comprehensive value, instrumental value, relational value, holistic value, narrative value, integrated value. All of these are referred to, yet it is not clear what is meant/understood by many of them. As such, the section does	
						not provide an overview of the methodological approach to values used in assessment (as per the section title). A suggested alternative approach is to go through each of these terms in turn, defining what they mean and how	
		25	998			they are used in the IPBES assessment process.	definitions have been added according to the definitions given in IPBES/4/INF/13
Esra Başak Dessane		35		0.5		Repetition of 'the' twice	corrected
Tom West	Chapter 1	35	999	35	999	It is their role or importance that can be understood here, not their value. Anthropocentric value requires, by literal definition, the consideration of the perspective of a human valuer: this is captured in the notion of a 'desirable state'. Desirable to whom? To humans (since we are here considering anthropocentric value). It is the desirability of the state that generates value.	importance = value. however, this is elaborated in the IPBES valuation guidelines which are closely followed here.
Germany	Chapter 1	35	1005	36	1006	destrable state. Destrable to whom? To humans (since we are here considering anthropocentric value). It is the destrability of the state that generates value.	followed here.
Germany	Chapter 1	35	1005	30	1006	Please ensure that you have a coherent language for this and try to link - if possible - to the preliminary guide on the conceptualization of values IPBES/4/INF/13. The guide talks for instance about integration of the different	
						rease ensure usaryou nave a content unguager or into anouty to mix-in possible. On the premininary guide on the contentual action or values reasy. 4/1/14/1.3. The gaine class for instance about integration of the university values and not about "complementing" monetary values as it reads now ("monetary valuations should always be complemented with other methods"). All value systems should be considered.	Text has been revised accordingly
Esra Başak Dessane	Chapter 1	35	1010			No need to put a coma at the end	Text has been revised accordingly
Anna Augustyn	Chapter 1	35	1018	36	1029	Assessment of trade-offs could be added	Text has been revised accordingly
Adrian Wóicik	Chapter 1	35	1018	36		It is not clear how the procedures of values assesment like deliberation are related to the content of the chapter. Although it may be an interesting comment for epistemology of values, I do not think that the IPBES will	
	p.10.					implement the deliberative strategy for defining its basic values.	Text has been revised accordingly
Esra Başak Dessane	Chapter 1	36	1021			Capital B for Baggethun	Text has been revised accordingly
Douglas Nakashima	Chapter 1	36	1030	36	1050		*
-							
						section 1.6. Methods and approaches used in the assessment / 1.6.4. Consideration of indigenous and local knowledge	
						ADD (as stated in first recommendation): ILK is made available in published scientific literature. Sources can report observations from indigenous and local populations about ecosystems characteristics and trends, and	
						drivers of changes. They can represent complementary sources of knowledge, often working at different scales of time and space, addressing different kinds of issues, and informing for areas that science has not investigated.	
						EXAMPLE: Kitti et al. 2006 (Sweden and Finland): (p156-157) "In this study, herders' knowledge has provided information about several factors and their contributions to pasture quality. Some of this information corresponds	
						to that provided by the scientists (Table 7.2). Other aspects represent different dimension and expose the need to reconsider the exclusively sicentific approach as it relates to studies of pasture quality."	
							Thanks. The suggested message was taken and built in to 1.6.4.
Douglas Nakashima	Chapter 1	36	1030	36	1050		
						FOR CONTEXT ON ILK SEE Nakashima & Roué 2002. For example: (p5):"Since the 1993 UN Conference on Environment and Development, and in particular the coming into force of the Convention on Biological Diversity,	
						increasing attention has been drawn to the contributions that indigenous knowledge can make to global biodiversity conservation objectives. This emerging role for indigenous knowledge holders has flowed quite naturally	
						from the recognition that most remaining regions of the world that are biodiversity rich are also homelands for traditional and indigenous peoples."(p5): "While scientists and development agencies are only beginning to	
						acknowledge their significance, their enduring role as the mainstay of local food production and health care in the developing world cannot be questioned. In sub-Saharian Africa, for example, local knowledge guides the	
						decisions and practices of small-scale farmers who represent 70-90% of agricultural producers and more than 60% of the population. Artisanal fishers, who represent more than 90% of the fisheries work force world-wide, rely	
						on their own knowledge and skills to locate fish, navigate safely at sea and bring home the catch. Similarily, it is estimated that some 80% of the world's population fulfills their primary health needs through the use of	
						traditional medicine."	
						Refer to CBD, article 8j: "Each contracting Party shall, as far as possible and as appropriate:	
						Subject to national legislation, respect, preserve and maintain knowledge, innovations and practices of indigenous and local communities embodying traditional lifestyles relevant for the conservation and sustainable use of	
						biological diversity and promote their wider application with the approval and involvement of the holders of such knowledge, innovations and practices and encourage the equitable sharing of the benefits arising from the	
						utilization of such knowledge innovations and practices."	Thanks. The suggested message was taken and built in to 1.6.4.
Douglas Nakashima	Chapter 1	36	1030	36	1050	Why ILK is relevant for biodiversity and ecosystem changes assessments:	
						Nakashima & Roué 2002 (p5): "Inventories of local biodiversity can also benefit from knowledge encoded in local languages in the form of indigenous categories of natural objects. Finally, as indigenous peoples retain within	
						their knowledge systms an inter-generational memory of fluctuations, trends and exceptional events in relation to the local environment, they can contribute importantly to understanding processes of change, whether these	
						might be long-term, global transformation processes or circumscribed local events. The invaluable contribution of indigenous knowledge to environmental and social impact assessment processes, for example, has been	
						convincingly demonstrated." SEE ALSO Rouk & Nakashima 2002. Knowledge and foresight: the predictive capacity of traditional knowledge applied to environmental assessment.	Thanks. The suggested message was taken and built in to 1.6.4.
Douglas Nakashima	Chapter 1	36	1030	36	1050	SEE ALSO ROLE & Wakashima 2002. Knowledge and foresignt: the predictive capacity of traditional knowledge applied to environmental assessment.	Thanks. The suggested message was taken and built in to 1.6.4.
Douglas Ivakasiiiilla	Chapter 1	36	1030	30	1030		
						While has a solid and a share the solid and	
						Take into consideration that incorporation of ILK into scientific assessment as this has implications for the integrity and preservation of the knowledge in question:	
						SEE Nakashima & Roué 2002 (p1): "For the time being, the scientific and the development communities views indigenous knowldege first and foremots as a resource to be appropriated and exploited. Integration with (or more accurately into) science implies the application of a validation process based on scientific criteria that purportedly separates the useful from the useless, obective from subjective, indigenous 'science' from indigenous	
						Fibelets'. Through this process, because mignes one appreciation of a variation process does on reference is extracted, and the rest is rejected, while this cognitive mining may be profitable to science, it threatens indigenous science in communications and the rest is rejected. While this cognitive mining may be profitable to science, it threatens indigenous science is extracted, and the rest is rejected. While this cognitive mining may be profitable to science, it threatens indigenous science is extracted, and the rest is rejected.	
						systems with dismemberment and dispossession".	
						systems with unsurementer and unspossession . Agrawal 2002. Indigenous knowledge and the politics of classification. The process of how incorporation of indigenous knowledge into databases, here in the context of development, alters the knowledge in question.	
						Nadasdy 1999. The politics of TEK: power and the "integration" of knowledge, labstract "This paper takes a critical look at the project of "integrating" traditional knowledge and science. The project of integration has been	
						and continues to be the cornerstone of efforts to involve northern aboriginal peoples in processes of resource management and environmental impact assessment over the past 15 years. The idea of integration, however,	
						contains the implicit assumption that the cultural beliefs and practices referred to as "traditional knowledge" conform to western conceptions about "knowledge." It takes for granted existing power relations between	
						aboriginal people and the state by assuming that traditional knowledge is simply a new form of "data" to be incorporated into existing management bureaucracies and acted upon by scientists and resource managers. As a	
						result, aboriginal people have been forced to express themselves in ways that conform to the institutions and practices of state management rather than to their own beliefs, values, and practices. And, since it is scientists and	
						resource managers, rather than aboriginal hunters and trappers, who will be using this new "integrated" knowledge, the project of integration actually serves to concentrate power in administrative centers, rather than in the	
						hands of aboriginal people."	
						Smith 1999. Decolonizing methodologies: Reseach and indigenous peoples.	Thanks. The suggested message was taken and built in to 1.6.4.
Douglas Nakashima	Chapter 1	36	1030	36	1050		
	1						
						for examples of existing methods of incorporation of ILK SEE EXAMPLE FROM Danielsen et al. 2014. Testing focus groups as a tool for connecting indigenous and local knowledge on abundance of natural resources with	
						science-based land management systems. [Abstract] "One of the clearly stated intentions of the Intergovernmental Platform on Biodiversity and Ecosystem Services (IPBES) is to bring both "western scientific" and "indigenous	
						and local" knowledge systems within synthetic global, regional, and thematic assessments. A major challenge will be how to use, and quality-assure, information derived from different knowledge systems. We test how	
Ī	1	1				indigenous and local knowledge on natural resources in Miskito and Mayangna communities in Nicaragua, validated through focus groups with community members, compares with information collected on line transects by	
ı						trained scientists. Both provide comparable data on natural resource abundance, but focus groups are eight times cheaper. Such approaches could increase the amount and geographical scope of information available for	
						assessments at all levels, while simultaneously empowering indigenous and local communities who generally have limited engagement in such processes."	
						AND Case studies in Huntington et al. 2002. Observations on the workshop as a means of improving communication between holders of traditional and scientific knowledge. [Abstract] "Traditional ecological knowledge (TEK)	
						AND Case studies in Huntington et al. 2002. Observations on the workshop as a means of improving communication between holders of traditional and scientific knowledge. [Abstract] "Traditional ecological knowledge (TEK) and the information and insights it offers to natural resource research and management have been given much attention in recent years. On the practical question of how TEK is accessed and used together with scientific knowledge, most work to date has examined documentation and methods of recording and disseminating information. Ravively little has been done regarding exchanges between scientific and traditional knowledge. This	
						AND Case studies in Huntington et al. 2002. Observations on the workshop as a means of improving communication between holders of traditional and scientific knowledge. [Abstract] "Traditional ecological knowledge (TEK) and the information and insights it offers to natural resource research and management have been given much attention in recent years. On the practical question of how TEK is accessed and used together with scientific knowledge, most work to date has examined documentation and methods of recording and disseminating information. Relatively little has been done regarding exchanges between scientific and traditional knowledge. This paper examines three workshop settings in which such exchanges were intended outcomes. The Barrow Symposium on Sea Ice, the Exxon Valdez Oil Spill Restoration Program Synthesis/Information Workshops, and the	
						AND Case studies in Huntington et al. 2002. Observations on the workshop as a means of improving communication between holders of traditional and scientific knowledge, [Abstract] "Traditional ecological knowledge [TEX] and the information and insights it offers to natural resource research and management have been given much attention in recent years. On the practical question of how TEX is accessed and used together with scientific knowledge, most work to date has examined documentation and methods of recording and disseminating information. Relatively little has been done regarding exchanges between scientific and traditional knowledge. This paper examines three workshops settings in which such exchanges were intended outcomes. The Barrow Symposium on Sea Ice, the Exxon Valdez Oil Spill Restoration Program Synthesis/Information Workshops, and the Alaska Beluga Whale Committee Illuminate certain features of the preparation, format, and context of workshops on their eventual outcomes and influence. The examples show the importance of long	
						AND Case studies in Huntington et al. 2002. Observations on the workshop as a means of improving communication between holders of traditional and scientific knowledge. [Abstract] "Traditional ecological knowledge (TEK) and the information and insights it offers to natural resource research and management have been given much attention in recent years. On the practical question of how TEK is accessed and used together with scientific knowledge, most work to date has examined documentation and methods of recording and disseminating information betweetly little has been done regarding exchanges between scientific and traditional knowledge. This paper examines three workshop settings in which such exchanges were intended outcomes. The Barrow Symposium on Sea Ice, the Exxon Valdez Oil Spill Restoration Program Synthesis/Information Workshops, and the Alaska Beluga Whale Committee illuminate certain features of the preparation, format, and context of workshops or series of workshops and their eventual outcomes and influence. The examples show the importance of long term relationships among participants and thorough preparation before the actual workshop. Further research should look more systematically at the factors that influence the success of a given workshop and the various	
						AND Case studies in Huntington et al. 2002. Observations on the workshop as a means of improving communication between holders of traditional and scientific knowledge, [Abstract] "Traditional ecological knowledge [TEX] and the information and insights it offers to natural resource research and management have been given much attention in recent years. On the practical question of how TEX is accessed and used together with scientific knowledge, most work to date has examined documentation and methods of recording and disseminating information. Relatively little has been done regarding exchanges between scientific and traditional knowledge. This paper examines three workshops settings in which such exchanges were intended outcomes. The Barrow Symposium on Sea Ice, the Exxon Valdez Oil Spill Restoration Program Synthesis/Information Workshops, and the Alaska Beluga Whale Committee Illuminate certain features of the preparation, format, and context of workshops on their eventual outcomes and influence. The examples show the importance of long	
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						AND Case studies in Huntington et al. 2002. Observations on the workshop as a means of improving communication between holders of traditional and scientific knowledge. [Abstract] "Traditional ecological knowledge (TEK) and the information and insights it offers to natural resource research and management have been given much attention in recent years. On the practical question of how TEK is accessed and used together with scientific knowledge, most work to date has examined documentation and methods of recording and disseminating information. Retailvely little has been done regarding exchanges between scientific and traditional knowledge. This paper examines three workshop settings in which such exchanges were intended outcomes. The Barrow Symposium on Sea Ice, the Exon Valdez Oil Spill Restoration Program Synthesis/Information Workshops, and the Alaska Beluga Whale Committee illuminate certain features of the preparation, format, and context of workshops and their eventual outcomes and influence. The examples show the importance of long term relationships among participants and thorough preparation before the actual workshop. Further research should look more systematically at the factors that influence the success of a given workshop and the various ways in which participants perceive success."	
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Maximilian Weigend	Chapter 1	37	1062	37	1070	AND Case studies in Huntington et al. 2002. Observations on the workshop as a means of improving communication between holders of traditional and scientific knowledge, [Abstract] "Traditional ecological knowledge (TEK) and the information and insights it offers to natural resource research and management have been given much attention in recent years. On the practical question of how TEK is accessed and used together with scientific knowledge, most work to date has examined documentation and methods of recording and disseminating information. Relatively little has been done regarding exchanges between scientific and traditional knowledge. This paper examines three workshop settings in which such exchanges were intended outcomes. The Barrow Symposium on Sea Ice, the Exxon Valdez Oil Spill Restoration Program Synthesis/Information Workshops, and the Alaska Beluga Whale Committee illuminate certain features of the preparation, format, and context of workshops and ownshops and their eventual outcomes and influence. The examples show the importance of long term relationships among participants and thorough preparation before the actual workshop. Further research should look more systematically at the factors that influence the success of a given workshop and the various ways in which participants perceive success." ALSO ADD A recent example of co-produced knowledge: Sectobek and Abek 2016 (kyrgystan): Cooperation of Algine CRC with sacred site guardians and traditional practitioners in co-production of knowledge The overall rise of scientific publication is deceptive, since many questions can be addressed by an ever increasing body of publicly available and increasingly informative global and regional databases. Overall, little use seems	Thanks. The suggested message was taken and built in to 1.6.4.
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Maximilian Weigend Germany	Chapter 1 Chapter 1	37 37	1062	37		AND Case studies in Huntington et al. 2002. Observations on the workshop as a means of improving communication between holders of traditional and scientific knowledge. [Abstract] "Traditional ecological knowledge [TEX) and the information and insights it offers to natural resource research and management have been given much attention in recent years. On the practical question of how TEX is accessed and used together with scientific knowledge, most work to date has examined documentation and methods of recording and disseminating information. Relatively little has been done regarding exchanges between scientific and traditional knowledge. This paper examines three workshops per settings in which such exchanges were intended outcomes. The Barrow Symposium on Sea Ice, the Exon Valdez Oil Spill Restoration Program Synthesis/Information Workshops, and the Alassa Beluga Whale Committee illuminate certain features of the preparation, format, and context of workshops and ownships of workshops and their eventual outcomes and influence. The examples show the importance of long term relationships among participants and thorough preparation before the actual workshop. Further research should look more systematically at the factors that influence the success of a given workshop and the various ways in which participants perceive success." ALSO ADD A recent example of co-produced knowledge: Sezdbek and Albek 2016 (Kyrgyzstan): Cooperation of Algine CRC with sacred site guardians and traditional practitioners in co-production of knowledge The overall rise of scientific publication is deceptive, since many questions can be addressed by an ever increasing body of publicly available and increasingly informative global and regional databases. Overall, little use seems to have been made of these. Individual articles come into play as specific processes and patterns are adressed in a second step.	Thanks. The suggested message was taken and built in to 1.6.4. We have now made explciit reference to these potential opportunities This process is an assessment and so it is not our place to conduct new analyses but we have highlighted
Germany	Chapter 1	37	1062			AND Case studies in Huntington et al. 2002. Observations on the workshop as a means of improving communication between holders of traditional and scientific knowledge. [Abstract] "Traditional ecological knowledge (TEK) and the information and insight it offers to natural resource research and management have been given much attention in recent years. On the practical question of how TEK is accessed and used together with scientific knowledge, most in significant to the practical question of how TEK is accessed and used together with scientific and traditional knowledge. This paper examines three workshop settings in which such exchanges were intended outcomes. The Barrow Symposium on Sea Ice, the Exon Valdez Oil Spill Restoration Program Synthesis/Information Workshops, and the Alaska Beluga Whale Committee illuminate certain features of the preparation, format, and context of workshops and their eventual outcomes and influence. The examples show the importance of long term relationships among participants and thorough preparation before the actual workshop. Further research should look more systematically at the factors that influence the success of a given workshop and the various ways in which participants perceive success." ALSO ADD A recent example of co-produced knowledge: Seezdebe and Albek 2016 (Kyrgyzstan): Cooperation of Algine CRC with sacred site guardians and traditional practitioners in co-production of knowledge The overall rise of scientific publication is deceptive, since many questions can be addressed by an ever increasing body of publicly available and increasingly informative global and regional databases. Overall, little use seems to have been made of these. Individual articles come into play as specific processes and patterns are addressed in a second step.	Thanks. The suggested message was taken and built in to 1.6.4. We have now made explciit reference to these potential opportunities
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Germany Andrew Stott, UK IPBES National Focal Point	Chapter 1 Chapter 1	37	1062	37	1070	AND Case studies in Huntington et al. 2002. Observations on the workshop as a means of improving communication between holders of traditional and scientific knowledge. [Abstract] "Traditional ecological knowledge (TEK) and the information and insight it offers to natural resource research and management have been given much attention in recent years. On the practical question of how TEK is accessed and used together with scientific knowledge, most work to date has examined documentation and methods of recording and disseminating information. Review (Italian been done regarding exchanges between scientific and traditional knowledge. This paper examines three workshop settings in which such exchanges were intended outcomes. The Barrow Symposium on Sea Ice, the Exon Valdez Oil Spill Restoration Program Synthesis/Information Workshops, and the Alaska Beluga Whale Committee illuminate certain features of the preparation, format, and context of workshops and their eventual outcomes and influence. The examples show the importance of long term relationships among participants and thorough preparation before the actual workshop. Further research should look more systematically at the factors that influence the success of a given workshop and the various ways in which participants perceive success." ALSO ADD A recent example of co-produced knowledge: Seadbek and Albek 2016 (Kyrgyzstan): Cooperation of Algine CRC with sacred site guardians and traditional practitioners in co-production of knowledge The overall rise of scientific publication is deceptive, since many questions can be addressed by an ever increasing body of publicly available and increasingly informative global and regional databases. Overall, little use seems to have been made of these. Individual articles come into play as specific processes and patterns are adressed in a second step. Please ensure that you tap into the wealth of information provided by publicely available and increasingly information can then be complemented with scientific papers for	Thanks. The suggested message was taken and built in to 1.6.4. We have now made explciit reference to these potential opportunities This process is an assessment and so it is not our place to conduct new analyses but we have highlighted these opportunities exist. Change made
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							,
Tom West	Chapter 1	38	1118	42	1271		
							This is a very broad question and not possible to cover briefly but we have expanded the section at the
e			4400	39	1143	The various meanings and types of 'value' is surely a challenge to the assessment? How can all these different values be accounted for in one framework? Can they be meaningfully compared?	start of 1.7 to include a mention of the different types of values (e.g. as defined in Pearson 2016) We have now acknowledged the issue with data (expense in collecting it) and the potential of citizen
Friedrich Wulf	Chapter 1	39	1133	39	1143		
Andrew Stott, UK	Chapter 1	39	1134		1143	This chapter also needs to address that the collection of field data on habitats and species is not sufficiently supported by governments who often take it for granted that volunteers hand in their data.	science to fill this gap
IPBES National Focal	Chapter 1	39	1134		1143		
Point						Only focus is on EU? What about national and international (global) scale initialives that are relevant?	Added in a sentence to acknowledge this point
TOME	Chapter 1	39	1135	39	1143		Added in a sentence to acknowledge this point
(IUCN)	Chapter 1	33	1133	33	1143	It would be appropriate to mention the European Red List work here, which is an ongoing data collection process (see http://ec.europa.eu/environment/nature/conservation/species/redlist/).	Added in reference
	Chapter 1	39	1136			is would be appropriate to mention the European Ned Est work here, which is an origining data contextion process (see http://ec.europa.eu/environment/inature/conservation/pspecies/rediss/).	Added in reference
IPBES National Focal	chapter 2	33	1130				
Point						I don't think that MAES is a statutory requirment?	Wording changed to reflect this
Harald Pauli	Chapter 1	39	1147	39	1155	It surprised that plants are far less covered than animals - over all, the knowledge of biodiversity should be far better for plants. Sure, yes, compared to birds and mammals, but they are just a tiny groups among all animals in	
						terms of soecies numbers.	re-worded to reflect this point
Andrew Stott, UK	Chapter 1	39	1148		1155		
IPBES National Focal							
Point						The text here only refers to biodiversity data. The data requirments for the assessment are for more diverse and the socio-economic data are even more diverse and gappy.	We are updating this section to include details on other types of information
Thomas Brooks	Chapter 1	39	1150	39	1150		changed - a few more have now been added and the exact figure as accessed on 31/10/16 has been
(IUCN)						Actually 82,845	included thanks
Thomas Brooks	Chapter 1	39	1151	39	1151	Not just all birds and mammals, but also all amphibians, reef-building corals, chameleons, seasnakes, sharks and rays, tarpons and ladyfishes, parrotfishes and surgeonfishes, groupers, tunas and billfishes, hagfishes,	
(IUCN)						angelfishes, blennies, butterflyfishes, picarels, porgies, pufferfishes, seabreams, sturgeon, wrasses, freshwater caridean shrimps, cone snails, freshwater crabs, freshwater	The text has been updated based on access to The IUCN Red List of Threatened Species website on
						and plant species occurring in mangrove ecosystems (Brooks et al. 2016 Sci Data).	31/10/16 and the text now reflects that
Allan Watt	Chapter 1	39	1153	39		There is a huge amount of information available on the ecological functions of other taxa.	Text has been rewritten but more work is needed here
	Chapter 1	40	1220	41		Various typos lines 1220 and 1266.	Edits done
Adrian Wójcik	Chapter 1	41	1223	41	1235		
						ILK is often presented as a knowledge that is deeply grounded within history and its current state is perceived as a result of transmission of knowledge from previous generations. However, the work of cultural anthropologists	
						has showed that in communities where the oral knowledge transmission is dominating, knowledge is often result of current needs and processes. Therefore it is crucial to create procedures that could test the reliability and	
						validity of ILK. Please see: Edgerton, R. B. (1992). Sick societies: challenging the myth of primitive harmony. New York: Toronto: New York: Free Press; Maxwell Macmillan Canada; Maxwell Macmillan International.	Yes, agree. This is the responsibility of the authors. However, hybrid knowledge can also be important
						for details.	for the assessment, our work should not be restricted to real/true/original ILK.
	Chapter 1	41	1226			Missing information on the number and characteristics of ILK holders, selection process or at least a reference to another chapter, where this is explained.	Information has been updated
	Chapter 1	41	1249		1253		
IPBES National Focal						formats banks are the standard by the decrease of the standard by the standard	Text has been re-written
1 Omic	Chapter 1	42	1272			Seems to imply a narrow focus on 'impacts on biodiversity'. The isses around scope are for more diverse than this.	Text has been re-written
Andrew Stott, UK IPBES National Focal	Chapter 1	42	12/2				It is not a roadmap on how the assessment is produced but is literally a roadmap on where to find what
Point						This is a draft of the final assessment report. Should it include a roadmap saying how it will be produced? Would that not be a separate document?	information.
	Chapter 1	42	1274			This unit is a united or the images assume the port. Shown in include a rounding saying how it will be produced in which the proper saying the port of	information.
THEUTICH WUII	Chapter 1	42	12/4			of the region."	added.
Tom West	Chapter 1	42	1277	42	1277		More information on values is found in Deliverable 3(d): Policy support tools and methodologies
Tom West	chapter 1			**-	11.77		regarding the diverse conceptualization of values of biodiversity and nature's benefits to people
							including ecosystem services. A short overview is given in chapter 1.1.3. Nevertheless it is clarified a bit
						What are biophysical values: does this mean biophysical data? And in what way(s) does Ch3 conisder non-anthropocentric (intrinsic?) values? Neither are clear.	in the text of 1.1.8.
Andrew Stott, UK	Chapter 1	43	1284				
IPBES National Focal							
Point						Delete 'will'?	Done
Andrew Stott, UK	Chapter 1	43	1307				
IPBES National Focal							
Point						I'd like to see a lot more thought about how the assessment will be used by who. That should shape both the analysis undertaken and the way in which it is presented.	this is partly found in section 1.3.
	Chapter 1	44	1315	48		Many dots appear in the cited references. Not completed I guess?	Correct
	Chapter 1	46	1427	46		Lipsky, Z., (1995). The changing face of the Chech rural landscape. Landscape and Urban Planning, 31,39-45	Reference has been reviewed and treated appropriately
	Chapter 1	47	1460	47		Schomers, S., & Matzdorf, B. (2013). Payments for ecosystem services: A review and comparison of developing and industrialized countries. Ecosystem Services, 6, 16-30.	Reference has been reviewed and treated appropriately
	Chapter 1	47	1469	47		http://data.worldbank.org/indicator/ER.LND.PTLD.ZS/countries/1W?display=default link does not lead to the data. Update with this link: http://data.worldbank.org/indicator/ER.LND.PTLD.ZS	Done
	Chapter 1	48	1492	48		Wünscher, T., & Engel, S. (2012). International payments for biodiversity services: Review and evaluation of conservation targeting approaches. Biological Conservation, 152, 222-230.	Reference has been reviewed and treated appropriately
Petr Petrik	Chapter 1	49	1502	49	1502	There is an updated version of Strategy on Biodiversity in the Czech Republic for 2016-2025	Corrected