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Consideration of initial elements: recognizing indigenous and local knowledge and building synergies with science

Note by the secretariat

The annex to the present note has been prepared by the secretariat of the United Nations Educational, Scientific and Cultural Organization on behalf of the interim secretariat of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services, taking into consideration the comments provided by Governments and other stakeholders during the intersessional period on recognizing indigenous and local knowledge and building synergies with science. It has been reproduced as received, without formal editing.



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Annex

Consideration of initial elements: recognizing indigenous and local knowledge and building synergies with science

The present document highlights some of the issues that need to be addressed in developing the procedures for recognizing indigenous and local knowledge and for building synergies with science to achieve the objectives of IPBES. These is sues are briefly outlined below in order to inform discussions and decisions for consideration by the plenary on a possible process to further develop the procedures on recognizing indigenous and local knowledge and building synergies with science.

By bringing together knowledge from science with knowledge from indigenous peoples and local communities, it is expected that IPBES will make a novel and noteworthy contribution to global scientific assessments. The procedures for recognition of and engagement with indigenous and local knowledge are to be developed for inclusion as an annex in the Procedures for the preparation, review, acceptance, adoption, approval and publication of assessment reports and other IPBES deliverables (IPBES/1/INF/3). These procedures will guide implementation of the work programme, and respond to decisions of the IPBES Plenary with respect to *inter alia*:

1. <u>Functions, operating principles and institutional arrangements of the</u> <u>Platform</u>, including to '(*r*)*ecognize and respect the contribution of indigenous and local knowledge to the conservation and sustainable use of biodiversity and ecosystems*' (UNEP/IPBES.MI/2/9 Appendix 1, para. 2 (d));

2. <u>Scientific and technical functions of the Multidisciplinary Expert Panel</u>, including '(*e*)xploring ways and means to bring different knowledge systems, including indigenous knowledge systems, into the science-policy interface' (UNEP/IPBES.MI/2/9, Appendix 1, para. 15 (g)); and

3. The <u>work programme</u>, including 'to develop an understanding of how to effectively integrate local and traditional knowledge' as an important function of the platform (UNEP/IPBES.MI/2/9, para. 20).

These procedures are expected to contribute to meeting the objectives of the IPBES work programme, including for use across the process of preparing, reviewing, accepting, adopting, approving and publishing assessment reports and other IPBES deliverables, as outlined in IPBES/1/INF/3.

There are several aspects that may need to be taken into consideration when engaging with indigenous and local knowledge systems and indigenous peoples. These include, among others, ethics, [equity, U.S.A] the building of trust, social relationships, recognition and respect for differing epistemologies, [the need to recognize different approaches, visions and models *Bolivia*], appropriate methodologies and approaches to validation, intellectual property, [access and benefit-sharing U.S.A], [self-determination, customary laws and protocols *Natural Justice*]. Over the last several decades, indigenous and local knowledge has been an active area of research, and a substantial body of literature exists, both peer-reviewed and gray. A number of international instruments (conventions, declarations, protocols, etc.) that make reference to diverse knowledge systems have been adopted and others are under discussion. Most importantly, indigenous peoples

and local communities continue to transmit, adapt and expand their indigenous and local knowledge of relevance to the conservation and sustainable use of biodiversity and ecosystem services, and many have been and continue to be engaged in processes of assessment at local, subnational, national and global levels.

A. A Working Definition for Indigenous and Local Knowledge

Indigenous and local knowledge refers to the multi-faceted arrays of knowledge, know-how, practices and representations that guide [indigenous and local U.S.A] societies in their innumerable interactions with their natural surroundings. This interplay between people and place has given rise to a diversity of knowledge systems that are at once empirical and symbolic, pragmatic and intellectual, and traditional and adaptive.

There are a number of different definitions, but that of Berkes¹ (2012) is often cited and may serve as a working definition: a cumulative body of knowledge, practice and belief, evolving by adaptive processes and handed down through generations by cultural transmission, about the relationship of living beings (including humans) with one another and with [their environmentplace U.S.A].

Furthermore, several different terms are utilized: indigenous, local or traditional knowledge, traditional ecological/environmental knowledge (TEK), farmers' or fishers' knowledge, ethnoscience, indigenous science, folk science, among others. While each of these terms may have somewhat different connotations and reference groups, they [share sufficient meaning-are similar enough in regard to localized knowledge and practice U.S.A] to be used [interchangeably-together U.S.A] in the present document.

B. [Principles-General Instruments U.S.A]of Relevance to Indigenous and Local Knowledge

In developing appropriate procedures for the recognition of and interactions with indigenous and local knowledge, there are a number of international [obligations-instruments U.S.A] that should be taken into account [as appropriate U.S.A] including *inter alia*:

- (a) Convention No. 169 on Indigenous and Tribal Peoples (ILO 1989);
- (b) Convention on Biological Diversity ([UNEP-U.S.A] 1992);

(c) Convention for the Safeguarding of the Intangible Cultural Heritage (UNESCO 2003);

(d) Convention on the Protection and Promotion of the Diversity of Cultural Expressions (UNESCO 2005);

- (e) Universal Declaration on Cultural Diversity (UNESCO 2001);
- (f) Universal Declaration on Bioethics and Human Rights (UNESCO 2005);
- (g) United Nations Declaration on the Rights of Indigenous Peoples (2007).

¹ Berkes, F. 2012. Sacred Ecology, Third Edition, New York, Routledge.

[(g bis) United Nations Framework Convention on Climate Change, FAO International Treaty on Plant Genetic Resources for Food and Agriculture (2001) *Natural Justice*] [

[(g ter) UN Convention to Combat Desertification (1992) U.S.A. and Natural Justice]

C. [Protocols-Guidelines U.S.A] of Relevance to Indigenous and Local Knowledge

In developing appropriate procedures for the recognition of and interactions with indigenous and local knowledge, a number of international [protocols guidelines *U.S.A*]exist that provide guidance on working with indigenous and local knowledge and indigenous peoples that might be applied in the context of IPBES, including *inter alia*:

[International Protocols Natural Justice]

(a) Akwé: Kon Guidelines for the Conduct of Cultural, Environmental and Social Impact Assessments regarding developments proposed to take place or which are likely to impact on sacred sites and on lands and waters traditionally occupied or used by indigenous and local communities (Convention on Biological Diversity 2004);

(b) Tkarihwaié:ri Code of Ethical Conduct to Ensure Respect for the Cultural and Intellectual Heritage of Indigenous and Local Communities Relevant to the Conservation and Sustainable Use of Biological Diversity (Convention on Biological Diversity 2010);

(c) Nagoya Protocol on Access to Genetic Resources and the Fair and Equitable Sharing of Benefits Arising from their Utilization to the Convention on Biological Diversity (Convention on Biological Diversity 2010);

[Science Protocols Natural Justice]

(d) Protocols and guidelines developed by the scientific community to guide engagements of the research community with indigenous and local knowledge holders; [there are a number of such guidelines that have been developed by national and international scientific and professional societies, as well as those developed by national and subnational research organizations U.S.A.]

[Community Protocols Natural Justice]

(e) Protocols and guidelines developed [by indigenous peoples and local communities clarify terms, conditions and procedures to be adhered to at the community level² provide frameworks to be observed *Natural Justice*] by external stakeholders when engaging with communities. These protocols may articulate customary laws, traditional structures and local values; reference international and national obligations; and set out community priorities and concerns-[; and call upon

² A non-exhaustive list of community protocols [and materials and resources for community facilitators *Natural Justice*] may be found at: http://www.community-protocols.org/ and http://www.unep.org/communityprotocols/index.asp.

external stakeholders to either refrain from or engage in certain actions in accordance with the procedures outline in the protocol. *Natural Justice*]

D. Sources of Indigenous and Local Knowledge

Indigenous and local knowledge relevant for the assessment of biodiversity and ecosystem services, including for their conservation and sustainable use, are developed and maintained by indigenous peoples and local communities. This knowledge may be available to IPBES assessments from various sources and in various forms. The nature and content of knowledge may vary from one cultural group to the next, as well as within groups. Certain elements of knowledge may be largely shared, while others may be the domain of "specialists" (e.g., healers, spiritual leaders, Elders, experienced hunters or fishers, etc). Knowledge is also often gendered, and thus men and women's knowledge may differ and be complementary. Access to certain knowledge may be limited to the initiated, restricted by age group, and may be [treated as *U.S.A*] the privileged possession of certain clans or social groups to the exclusion of others.

[An important feature of sources of indigenous and local knowledge is that it is not separate from traditional institutions and practices. This knowledge cannot meaningfully survive apart from the territories and areas managed and conserved by virtue of collective customary and/or legal rights. The issue of indigenous and local knowledge cannot also be separate from the issue of the rights to live, work and protect the landscape in which they thrive. Those rights are necessarily collective rights because we note that, despite being held by various individuals as pointed out in the paper, knowledge is often considered as a collective good. *IUCN*]

In many indigenous societies, knowledge of biodiversity is actively sought after, updated, and exchanged on a day-to-day basis. While indigenous and local knowledge may be physically recorded in various ways by knowledge holders, it is often rooted in collective memory and transmitted orally between and within generations. It is also embodied in practice and transmitted through action. Practices with important implications for the conservation and sustainable use of biodiversity and ecosystem services are multifold, including, for example, customary resource management such as no-take zones governed by taboos, landscape transformation through traditional firestick management or selective plant or animal breeding to enhance domestic diversity.

Indigenous and local knowledge has also been recorded and interpreted for communication and understanding outside the cultural group of origin by anthropologists, ethnoscientists, resource managers, and increasingly by the knowledge holders themselves. These efforts at cross-cultural communication also serve as sources for IPBES and may include published scientific books and articles, including peer-reviewed or gray literature, film/videos, audio recordings, maps including community maps, digital archives and databases, and collections from community museums and cultural centres. [(For such materials, there may be a need to) examine whether...approaches and ethics are in consonance with the principles and protocols of indigenous peoples and local communities themselves *Natural Justice*].

Further work and analyses may be [required—warranted U.S.A] to better understand the scope and diversity of indigenous and local knowledge sources, and to comprehend their relevance and accessibility for IPBES assessments and other deliverables.

E. Approaches and Methodologies Relevant for Indigenous and Local Knowledge

A range of different approaches and methodologies have been developed in recent decades to document and better understand the distinct nature of indigenous and local knowledge systems and their multi-dimensional interactions with scientific knowledge. This cross-cultural area of work is profoundly interdisciplinary in that it brings together approaches and methods from the natural and social sciences, notably anthropology and ecology, as well as inherently transdisciplinary, as it bridges across diverse knowledge systems, notably between science and other systems of knowledge.

A variety of methods have been elaborated for the recording and analysis of data and information from indigenous and local knowledge sources, with additional refinements in accordance with different types of knowledge holders, knowledge types or the social and ecological systems being documented. Protocols have also been developed [by the research community and by indigenous peoples and local communities themselves *Natural Justice*] to guide the respectful engagement between [researchers and indigenous peoples and local communities them *Natural Justice*], [ensuring_promoting *U.S.A*] their free, prior and informed [consent, consultation *U.S.A*] and the respectful treatment of the data collected. Today, indigenous peoples and local communities are increasingly engaged in the recording of their own knowledge using a wide variety of techniques and technologies, often with the purpose of knowledge preservation or enhanced knowledge transmission, including via formal and non-formal education systems and using information and communication technologies.

But the work of IPBES reaches beyond recording and understanding indigenous and local knowledge in and of itself. IPBES assessments and other deliverables will [require-involve U.S.A] the bridging between knowledge systems and in particular [the articulation understanding the similarities and differences between U.S.A] of indigenous and local knowledge [with-and U.S.A] science. One dimension of this challenge, the need to bring together qualitative and quantitative approaches, is an ongoing area of work within the sciences themselves, as part of continuing efforts to bridge between the social and natural sciences.

[Another fundamental challenge for the procedures to be developed in the framework of IPBES will be that of cultural relativity. While science is most often perceived as rational, objective and thus authoritative, analyses from historical, sociological, philosophical and political perspectives have made increasingly clear the cultural and social dimensions of science based frameworks, objectives, assumptions and practices. Engagement with other knowledge systems provides an opportunity for a culturally informed appraisal of scientific knowledge and practice so as to differentiate between elements that could be recognized as "universal" or shared among knowledge systems as opposed to "relative" or unique to a specific knowledge system. *U.S.A*]

[Knowledge dialogue should be the basis for reflection and (the) conceptual starting point for the conservation, preservation and sustainable use of biodiversity, cultural diversity and respect for life. ... Knowledge dialogue...takes as a principle that all knowledge systems in the world are sciences. For dialogue to happen, a stage must be created where there is an equal and horizontal dialogue between representatives of indigenous and local science and western science. Modern Western science...must recognize its limitations in certain fields, and work towards an inter-scientific knowledge dialogue, starting from the premise that all forms of knowledge are valuable, and that all culture is creative, innovative and inventive. ... (I)ndigenous wisdom has its own epistemology and ontology. ... (Through an) exchange of methods and research results in the search for answers, (which) adapt their own paradigms and create together a plurality of sciences, ...complementarity can coexist with incommensurability. *Bolivia*]

Finally, increasing attention is being paid to the processes whereby new knowledge is co-produced through collaborative engagements between scientific and indigenous [or local *Netherlands*] knowledge holders, a process that may also be of importance for global assessments of biodiversity and ecosystem services. [Especially policy formulation and implementation may benefit greatly from the activities of communities of practice (CoP) in which scientists, (local) practitioners and policy officers co-create knowledge *Netherlands*] [Benefits and costs should be shared fairly and equitably and in accordance with customary laws and community protocols *Natural Justice*]

F. Issues for Further Consideration

To develop the procedures for recognizing indigenous and local knowledge and for building synergies with science within the framework of IPBES, further activities and dialogue may be [required_needed U.S.A]. These activities may include:

(a) Scoping existing experiences, approaches and methodologies which bridge epistemological and institutional gaps between scientific and indigenous knowledge holders in order to identify best practices and analyse gaps [tak(ing) advantage not only of knowledge holders as individuals or specific tribes, but in particular see the rich opportunities to link up with organizations and networks of knowledge holders; national, regional as well as global *Stockholm University*]

[(a-bis) Initiating of the process of elaborating the procedures for recognizing indigenous and local knowledge and for building synergies with science within the framework of IPBES; *Japan*]

(c) Organizing international expert workshop(s) that bring together relevant natural and social scientists with indigenous and local knowledge holders to initiate the process of elaborating the procedures for recognizing indigenous and local knowledge *and* for building synergies with science within the framework of IPBES[, especially for the purposes of (a) and (b) mentioned above *Japan*].

[(b c bis *Japan*)] Reinforcing dialogue and capacity-building between scientific and indigenous and local knowledge holders to ensure the meaningful inclusion [and representation *Natural Justice*] of indigenous peoples and their expertise in the [four functions work *U.S.A*] of IPBES;

[(c ter) Enabling community exchanges and interactions around shared bodies of knowledge, with the aim of studying commonalities in a given geographical area without diluting the culturally rooted nature of such knowledge *Natural Justice*] [(c quater) Developing a conceptual framework for incorporating (into the) Platform (the) ontological and epistemological (bases of) indigenous/local science, (such that) indigenous science, local and modern science can be understood as complementary but not subordinated to Western science *Bolivia*]

[(c) Organizing international expert workshop(s) that bring together relevant natural and social scientists with indigenous and local knowledge holders to initiate the process of elaborating the procedures for recognizing indigenous and local knowledge *and* for building synergies with science within the framework of IPBES. Japan]

[(c quinquiens) Review(ing) and compil(ing) 'best practices' (with respect to) protocols and guidelines developed by the scientific community to guide engagements of the research community with indigenous and local knowledge holders *U.S.A.*]

[(c sexiens) Supporting the further development of traditional knowledge and its inclusion in the curriculum of science education in schools, colleges and universities. This will further help the indigenous people in their efforts in traditional knowledge preservation and transmission and application and also build synergies with science. *Nigeria*]

[(c septiens) (Establishing a) polycentric governance structure...and institutional arrangement for the IPBES, (which) promotes and ensures that in each of its levels, there is effective and active participation of indigenous peoples, thus advancing in respect of local knowledge and real and effective participation of indigenous and local communities *Bolivia*]

[(c octiens) (Establishing) a working group/task force under MEP Germany, Stockholm University] [consisting of diverse knowledge holders from different knowledge systems, experienced in connecting knowledge systems Germany] [composed of a broad representation of diverse knowledge holders, scientists and practitioners with experiences of connecting knowledge systems Stockholm University]

[(c noviens) (Including) indigenous experts who are holders of traditional knowledge and have a scientific background at the same time...into the MEP where they could help in this bridging function *Germany*]

As noted in the document on Considerations for the preparation of an initial work programme of IPBES (IPBES/1/2), the Plenary may wish to consider this present document when determining the potential role of the Multidisciplinary Expert Panel in the further preparation of the initial work programme. This could include the role of the Panel during the next intersessional period in overseeing further preparations on the work programme on potential activities such as recognizing [the role of U.S.A] indigenous and local knowledge [in the work of IPBES U.S.A], and making recommendations to the Plenary for consideration at its second session.