							From	From				
		and annual Name	Country of	A ffiliation	Government	Chantan	Page	Line (Chart)		To Line	C	
טו	R	eviewer Name	residence	Affiliation	Representative	Chapter	(start)	(Start)	(End)	(End)	Comment	Answer
											In my opinion the most important chapter in the whole report is chapter	
											3. In the IPBES preliminary guide we outlined the importance of the	
											diverse conceptualization of values, thus recognizing diverse world	
											views, and we outlined the different approaches to valuation using	
											different techniques, but what was missing was a critical assessment of	
											the techniques themselves, e.g., do contingent valuation techniques provide useful values or is the technique flawed. In my opinion	
											Governments and other actors will expect to see a critical assessment of	
											the strengths and weaknesses of all valuation techniques for instrumental	
											and relational values, a critical discussion of the commensurability (or	
											lack there-of) of values, an assessment of data availability (or lack there- of) in different parts of the world to do valuation studies, the challenges	
											of valuation for different types of ES/NCP, spatial scales, issues	
											association with double counting among ecosystem services /NCP, the	
											difference between individual and shared values (and whether shared	
											values are necessarily more legitimate than individual values), , and	
											numerous other key issues, which do not seem to be listed in the skeleton outline of the key findings of chapter 3 (these issues may be discussed in	
											depth in the chapter but the key findings do not seem to address these	We agree and performed changes in accordance to the reviewer
	17 B	ob Watson	United Kingdom	N/A	No	Ch. 3	General				issues).	suggestion. The new structure of the chapter hopefully makes this clearer.
				Organization (FAO) of the								
H	88 A	rfanuzzaman	Bangladesh	United Nations	No	Ch. 3	33.	652	33	652	Also show the growth of valuation paper per year	Figure 3.5 shows the growth of papers over time.
											I am very encouraged by this chapter & the authors' active pursuit of interdisciplinary approaches for nature's value assessment. In order to	
											effectively communicate the importance of nature to societal wellbeing,	
											it is not only essential to quantify its monetary contributions but also to	
											express it in other 'currencies'. Initial efforts to quantify the contribution	
											of biological pest control to commodity market stabilization & human	Thank you for your comment. We have coded "currency" in the review of
1	51 K	ris Wyckhuys	Vietnam	Chrysalis consulting	No	Ch. 3	1	3	1	6	demographics can be found in Wyckhuys et al., 2018 Environmental Research Letters and Wyckhuys et al., 2019 BioRxiv.	valuation applications. The results can be found in section 3.4. Finding number 3.
				,, ,						-	I don't see where in the chapter issues of different methodoligies for	
				None (Member of SEEA EEA							market valuation are addressed. Many studies do not distinguish	Thank you for your feedback. We follow the IPBES value target typology
	N	Nichael Bordt	Canada	Technical Expert Committee	No	Ch. 3	64	1289	64	1289	between production values (contribution of ecosystems to value of	which ditinguish between the target for the valuation activity.
				and Editorial Board)							crops) and welfare (the nutrition/health offered by the crops). Both are generally within the realm of "monetary valuation", but work on the SEEA	Furthermore, we distinguish between valuation methodologies. Both
1	63										is trying to ensure these two scopes are distinguished.	typologies will characterise how individual aspects of nature can be assessed using explicit valuation methods.
_		ocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	4	80	4	80	Specify "subjective" to what.	This paragraph has been edited.
F		ocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No			Ì			It is imporant to clarify that different methods and their applicability	
							<u> </u>				might be context-depedent, for instance associated with the ecosystems	We agree and performed changes in accordance to the reviewer
1	_	locio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	2	33	2	33	involved in the valuation	suggestion.
	K	iocio Moreno-sanchez	COLOTTO	conservation strategic rund	INU						For the purposes of the chapter a clear definition of valuation would be	Definition has been added "We define valuation as the application of methods and approaches to recognize values of nature and/or human-
							5	97	5	97	very useful. The definition in Table 3.1. is more oriented to show the goal	nature relationships, with the aim to make them explicit and enable their
1	91					Ch. 3					of valuation but it is not a defiition itself	inclusion in decision-making."
	R	ocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No							
												You are right that this specific question is not among the 6 questions that
												guide the main core of the chapter. The issue of which methods for what
											One of the questions to be answered here is: Which methods are suiatble	contexts is not so easy to answer, however. We find that, methods are substantially versatile and flexible to different contexts (from one on one
											for which groups? Some methods adjust better to local communities	interviews to local community workshops). See section 3.4 (Findings)
1	92					Ch. 3	6	135	6	140	while others are more oriented to other types of stakeholders	where we discuss the versatility of methods to different contexts.
		ocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No							Thaks for the valuable feedback, this reference is now included on the
1	_	ocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	8	199	8	199	Hanemann (1992) is not in references section	references section.  Thaks for the valuable feedback, this reference is now included on the
1		ocio Moreno-Sanchez	COIOIIIOIB	conservation strategic rund	INU	Ch. 3	8	200	8	200	Ciriacy-Wantrup (1947) is not in references section	references section.
		ocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No		1		1		Hedonic methods has been also used to valuate other enviromental	We appreciate your valuable comment this has been addressed in the
1	95			_		Ch. 3	8	191	8	194	services such as landscape and air pollution	text as the absence of natural dis-amenities.
		ocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	INIO	Ch. 3	Q	194	8	196	"However" seems to be an inadequate conector	Thank you for your comment, the text was adapted

	1										,
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No		8	197	8	198	It is important to highlight that observing behavior in markets can only	This is discussed in section 3.3.1.3 Method family 3: behaviour based
197	D	6 1 1:			Ch. 3		400			capture use values	valuation
198	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	8	198	8	201	Check writing	Thank you for your suggestion, the text was adapted
199	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund		Ch. 3	9	206	9	224	It would read better if it starts with the description of stated preferences methods and then highligh their limitations	This is discussed in depth in the section 3.3.1.2. Method family 2: statement based valuation
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No						There is an important body of literature showing how to minimize	
										hypothetical bias. The paragraph suggests that this is an unsolved issue.	
						_				See for example Louviere, J., Hensher, D., Swait, J. 2001. Stated Choice	
200	D	6 1 1:			Ch. 3	9	210	9	214	Methods: Analysis and Applications.	text was adapted and the thematic section 3.3.4.1 address this topic.
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	NO							Thank you for your feedback. The text has been rewritten and a more
201					Ch. 3	a	213	q	214	Hausman (2012) and Loomis (2011) are not in references section	extensive section is included (3.3.4.1) including both work of Hausman and Loomis.
201	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	9	219	9	222	Non use value include not only existence values but also option values	This has been included in section 3.3.1.2
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No						In the definition of production approaches, I suggest to clarify that they	
										are "services values that are assigned from the impacts of those services as	
203					Ch. 3	10	236	10	236	INPUTS on economic outputs"	Thank you for the comment. Please see table 3.5
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No						In this Table it is mentioned the Cost-based Approaches; however they	
										are not mentioned in the text. In addition, somewherein the chapter 3, it	
						10	236	10	236	should be explained that Replacement cost methods should be used	Thank you for the comment. There is now text in section 3.3.1.3 that
										with caution given the fact that they actually do not elict individual	speaks to cost-based methods and a warning is given there and in Section
204					Ch. 3					preferences.	3.4 (Findings) about the limitations of such methods.
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	NO			1				
										Valuation of attributes of environmental services includes -besides	
										Conjoint Analysis- Choice experiments; they are two different methods.	
										Brown (2003 in Champ et al., 2003) argues that stated preferences approaches include: contingen valuation, attribute-based methods (such	Thanks for the feedback. See Annex 3.1.Examples of statement-based
205					Ch. 3	10	236	10	236	as choice experiment), and pair comparison (including conjoint analysis)	
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	11	246	11	246	Boyce et al. (2019) is not in references section	Noted, thanks,.
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund		Ch. 3	11	250	11	250	Train (2009) is not in references section	Noted, thanks,.
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund							For this section (Histoty of valuation) I suggest to review the book	
										"Contingent Valuation: A Comprehensive Bibliography and History"	Thanks for the suggestion. This review of continget valuation is included
208					Ch. 3	8		8		(Carson, 2012)	alongside other stated preference methods in section 3.3.1
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No							Thanks for the suggestion, however this has probably changed due to
209					Ch. 3	12	273	12	273	Change "Critiqued" for "Criticized"	edits in the text.
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No						In the section Unresolved concerns and ongoing debates, there is another	
						11	256	11	256	issue that might be worth to mention: an important challenge is how to	
						11	250	11	250	obtain better estimates about the change in the flow of ecosystem services as a result of changes in the structure and functioning of	Accepted edit. Please see section 3.3.1.1 which discusses the challenges
210					Ch. 3					ecosystems (ecological production functions).	of different nature-based valuation methods, including that of obtaining estimates in a dynamic world.
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	13	318	13	318	Costanza (1980) is not in references section	Reference is no longer cited in text
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	13	336	13	336	Barbier (2016) and Vo et al. (2012) are not in references section	Thank you for your comment, references are now included.
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	14	345	14	345	NEA (2014) is not in references section	Thank you for your comment, references are now included.
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No							The mentioned studies have been now added and the section modified.
214					Ch. 3	14	347	14	347	IPBES citations should be ordered	We thank the reviewer for this comment.
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No						i. it is not clear why travel cost methdos are outside of economic	
		ĺ								methods, ii. economic methods could be divided into stated preference	
1		1		1						methods, reveal preference methods and cost based methods, and iii.	
		1		1						another set of tools that have been used for valuation are: economci	
		ĺ								experimental games, role games and menthal maps Cardenas et al (2012).	
1		1		1						Fee for example:	
1		ĺ		ĺ			1			http://www.humboldt.org.co/es/component/k2/item/100-metodos- complementarios-para-la-valoracion-de-la-biodiversidad-una-	Thank you for your foodback, Blosco coa table 2-2. Corresponding
215		1		1	Ch. 3	25	616	25	616	complementarios-para-la-valoracion-de-la-biodiversidad-una- aproximacion-interdisciplinar	Thank you for your feedback. Please see table 3.3. Correspondence of review topics and their criteria to the six Chapter 3 Assessment Questions
213	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	CI1. 3		310	2.5	010	other relevant sources of information about valuation studies include	The systematic review has focused on published scientific literature.
				<sup>-</sup>						the web pages of Conservation Strategy Fund (CSF), Latin American and	Thematic and method family reviews have included some grey iterature
		ĺ								Caribbean Environmental Economics Program (LACEEP), Environment for	and online repositories. This will be further verified and amended, thanks
216				<u></u>	Ch. 3	28	667	29	668	Development Initiative (EfD) and Resoruces for the Future (RFF)	for these suggestions
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No						It is important not only identify if valuation studies incorporate IPLC but	
1		1		1						also to consider whether valuation studies encourage/support policy-	The question of whether valuation studies support decision making that
1.		1		1	L	I	1	L		making decisions or actions that negatively affect IPLC. Do we need and	leads to positive or negative outcomes in IPLC is beyond the scope of Ch
217	0	6.1			Ch. 3	37	880	37	895	indication for this?	3. The uptake of valuation findings is addressed in Ch 4
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	NO						Economic theory supports the idea that estimates of willigness to pay	
218		ĺ			Ch. 3	44	978	44	985	from valuation are the maximun. SO it might seem misleading to emphasize on The maximun WTP for this indicator	We appreciate your comment, text has changed.
	1	1	I.	1	CII. J	144	310	44	707	emphasize on the maximum with for this mulcator	we appreciate your comment, text nast flangeu.

	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No						Descriptions of indicators for Distributional equity suggest they are	
						45	1017	45	1017	measuring heterogeneity instead of equity; partcularly the verifier named	
219					Ch. 3					Disaggregation by groups	Thanks for the excellent comment. Box 3.2 addresses this issue in detail.
220	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	47	1058	47	1063	Some individual methods, such as contingent valuation, include in the design the discussion about consensus as part of the scenario being valued. However, the paragraph suggest that this indicator only apllies to colective approaches.	We appreciate your comment, the structure of the chapter has now changed including four method families, contingent valuation is now listed under the Statement based valuation methods, and identified as individual based.
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No						It is the back of	
221					Ch. 3	51	1144	51	1148	It is likely that the lack of matching between NCP18 and valuation studies is generated because studies have been supported on the ecosystem services approach. Maybe the value assessmet should consider this approach first and then to match findings with NCP approach.	Thanks for your comments, the approach used changed.
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	CIII S					The findings for AQ3 and AQ4 could be enriched if presented crossing	manus for your commency the approach asea changea.
222					Ch. 3	64	1427	66	1482	results from both questions. For example some studies can be more suitable for some ecossystems or for some human populations or for some NCP, or for some time horizons.	We have verified the applocation of method types versus various contextual factors, see 3.4
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No							, , , , , , , , , , , , , , , , , , , ,
223					Ch. 3	General				The methdos have evolved over time making them suitable for some conditions/contexts as they are refined. This historical evolutions could be considered in the discussion about feasability of their application	Thanks for the suggestion. The refinement of methodologies is now both described in the history of valuation but also in thematic reviews 3.3.4
224	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	73	1616	73	1617	Arrow et al. (1993) is not cited in the main text	The mentioned studies have been now added and the section modified.  We thank the reviewer for this comment.
225	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	75	1671	75	1672	Bhagwat (2009) is not cited in the main text	Thank you for your valuable feedback, this reference is no longer mentioned in the chapter
226	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund		Ch. 3	75	1659	75	1661	Reference is in capital letter, correct.	Thank you for your valuable feedback, this has been corrected
227	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	76	1715	77	1731	Castro et al references should be ordered by year of publication	Thank you for your valuable feedback, this will be taken into consideration for the final edit of the report where format will be done based on IPBES guidelines.
221	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	CII. 3	70	1713	,,	1/31	Garcia-Llorente et al references: both of them are from 2012: include a.	based of Fr BL3 guitdefines.
228					Ch. 3	79	1817	79	1824	and b. to diffrentiate themm	Thank you for your suggestion, references were adapted.
229	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	81	1898	82	1904	lbpes references (2016 b and 2018a) are not in main text	Thank you for your valuable feedback this refeences are now included in the main text.
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund		Ch. 3	85	2016	85	2017	Names of authors are in capital letters; correct	Noted
231		Colombia	Conservation Strategic Fund		Ch. 3	87	2086	87	2088	Obst et al. (2016) is repeated	Thank you for your valuable feedback this has been corrected
232	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund		Ch. 3	88	2122	88	2124	Pandit et al. (2015) is not in main text	This reference is no longer included on the text nor references
233	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	89	2160	89	2170	Quintas-Soriano references should be ordered by year	Thank you for your valuable feedback, this will be taken into consideration for the final edit of the report where format will be done based on IPBES guidelines.
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	91	2240	91	2243	Subroy et al. (2018) is not in main text	This reference is no longer included on the text nor references
235	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund		Ch. 3	94	2316	94	2316	Villa et al. (2009) is not in references section	Thank you for your valuable feedback, this will be taken into consideration for the final edit where all citations will be mentioned in the references section.
235	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	CII. 3	54	2310	54	2310	viria et al. (2003) is flot in relevences section	Thank you for your valuable feedback, this will be taken into
236	Mocio Moreno-Janenez	Colonibia	Conservation Strategic Fund		Ch. 3	97		97		Castelgno et al. (2013) is not in references section	thank you for your valuable feedback, this will be taken into consideration for the final edit where all citations will be mentioned in the references section.
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No		general				have you considered to include national indexed literature?	The systematic review has focused on published scientiffic literature. Thematic and method family reviews have included some grey iterature and online repositories. This will be further verified and amended, thanks
237					Ch. 3						for these suggestions

										Anney 3     negonic method is a economic method ii   the examples of	
	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No		94	2316	94	2316	Annex 3.1. I. nearonic method is a economic method, II. The examples of citations for each of methods could be improved and completed, iii. neuro-economic-based enviromental valuation is an economic methods, iv. For participatory economic valuation methods you could include studies from: Lynam, T. (1999). Adaptive analysis of locally complex systems in a globally complex world. Conservation Ecology, 3 (2), 13. [online]. http://www.consecol.org/xo/13/iss2/art13/; Lynam, T. (2001). Participatory systems analysis: An introductory guide (IES Special Report 22). Bogor, Indonesia: Institute of Environmental Sciences (IES)/University of Zimbabwe/Center for International Forestry Research (CIFOR); Lynam, T. (2003). Scientific measurement and villagers' knowledge: an integrative multi-agent model from the semi-arid areas of Zimbabwe. En M. Janssen & M. Janssen (Eds.), Com-plexity and ecosystem management: The theory and practice of multi-agent systems (pp. 188-217). Cheltenham, UK: Edward Elgar; Lynam, T., De Jong, W., Sheil, D., Kusumanto, T. & Evans, K. (2007). A review of tools for incorporating community knowledge, preferences, and values into decision making in natural resources management. Ecology and Society, 12 (1), 5. [online]. http://www.consecol.org/vol12/iss1/art5/; Sheil, D. & Liswanti, N. (2006). Scoring the importance of tropical forest landscapes with local people: Patterns and insight. Environmental Management, 38, 126-136. Sheil, D., Liswanti, N., van Heist, M., Basuki, I., Syaefuddin, I., Samsoedin, I. et al. (2003). Local priorities and biodiversity in tropical forest landscapes: Asking people what matters. Bogor, Indo-nesia: Center for International Forestry Research (CIFOR); Sheil, D., Puri, R., Basuki, I., van Heist, M., Rukmiyati, S., Sardjono, M. et (2003). Local priorities and biodiversity in tropical forest landscapes: Asking people what matters.	This has been ammended. See section 3.3.1.1-3.3.1.4 for the overview of
238					Ch. 3					al. (2002). Exploring biological diversity, environment and local people's	different types of methods and key references.
239	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund		Ch. 3	97		97		Revealed preferences corresponds to economic methods	This has been ammended. See section 3.3.1.3 Method family 3: behaviour-based valuation
240	Rocio Moreno-Sánchez	Colombia	Conservation Strategic Fund	No	Ch. 3	98		98		i. Stated preferences corresponds to economic methods not to modelling methods; ii. there other many references that can be used here	This has been ammended. See section 3.3.1.2 Method family 2: statement-based valuation
246	Miles Richardson	United Kingdom	University of Derby, Nature Connectedness Research Group	No	Ch. 3	32.	768	32	770	The Principle of Harmony and Balance with Mother Earth relates very well to nature connectedness and the psychometric scales used to measure it. Therefore nature connectedness provides a useful criterion and its measures provide useful indicators, with a recent measure designed for population use informing the UK Government's updated Monitor of Engagemnt with Natural Environments, Richardson, et al. (2019). A Measure of Nature Connectedness for Children and Adults: Validation, Performance, and Insights. Sustainability, 11(12), 3250.	Thanks for these relevant suggestions. These concepts were not taken up in the systematic review directly, but we will consider these towards the final version
247	Miles Richardson	United Kingdom	University of Derby, Nature Connectedness Research Group	No	Ch. 3	51.	1340	51		Nature connectedness relates to the verifiers 'Living well in harmony with nature', 'Identity and Autonomy', 'Spirituality and Religions' and depending on the scale used can measure these. All scales cover living in harmony with nature, aspects of identity are covered and some scales include spirituality. Further, there are behavioural scales that can be used to further assess living in harmony, for example the many proenvironmetal scales (which broadly focus on carbon reduction), but more importantly the first pro-nature conservation scale focussed on land and civil actions related to nature conservation has been developed in 2019. This has been found to relate to quality of life and nature connectedness explains the largest proportion of variance in it. Further 2019 research shows that pro-environmental and pro-nature conservation behaviours are different 'factors' and types of behaviours.	This section has been completely re-written and no longer makes reference to nature connecteness. Rather, the life frames of Living In, Living with, Living As and Living From introduced in Chatper 2 are used.
	Miles Richardson		University of Derby, Nature Connectedness Research Group		Ch. 3	63.	1340	63		There are quantitative measure of more holistic wellbeing (e.g. see systematic review of Pritchard et al 2019) and quality of life (including ReQoL which includes an economic valuation) and harmony/nature connectedness has been found to explain increases in ReQoL in the Improving Wellbeing through Urban Nature (IWUN) project -£1.3m Valuing Nature project in the UK - McEwan, K., Richardson, M., Brindley, P. Sheffield, D. & Ferguson, F.J. A Smartphone App for Improving Mental Health through Urban Nature. (2019). International Journal of Environmental Research and Public Health, 16(18), 3373 doi.org/10.3390/ijerph16183373.	Thanks for these relevant suggestions. These concepts were not taken up in the systematic review directly, but we will consider these towards the final version

_	6			Ind. P. D		1	1	1	1			
43			Malaysia	Media Project on Conservation Environment & Nature MPCEN	No	Ch. 3	36	884	37	860	Regarding to Grey literature & academic publication more apporpriate is to create a regional division. So Grey literature published by an organization in South East Asia or Academic literarture by any research institute in South East Asia best can easily help create focus on South east Asia rather having a global approach. Not all the oragnizations cover the whole globe so divide them based on regions.	Thank you for your feedback. We have used the IPBES regions as the geographical regions in the review. This has been done through geocoding of the country names from abtracts, key words and titles. We have not systematically divided sources from organisations into geographical groups, as our reviews of valuation applications have used peer reviewed sources.
43	_		German	German Center for Integrative Biodiversity Research (iDiv) and Department of Economics, University of Leipzig	No	Ch. 3	12	302	12	304	I suggest to insert at the end of the sentence,,,,and the development of economic approaches to account for limited substitutability in sustainability policy and project appraisal (Drupp 2018; Baumgärtner et al. 2017)"; References:  Drupp, M. A. (2018). Limits to substitution between ecosystem services and manufactured goods and implications for social discounting.  Environmental and resource economics, 69(1), 135-158.  Baumgärtner, S., Drupp, M. A., & Quaas, M. F. (2017). Subsistence, substitutability and sustainability in consumption. Environmental and Resource Economics, 67(1), 47-66.	This text is no longer in the chapter
444	Jasper Mil	eya	German	German Center for Integrative Biodiversity Research (iDiv) and Department of Economics, University of Leipzig	No	Ch. 3	94	2316	98	2317	method: Benefit Transfer") statistical as well as theory-driven ("structural") approaches to benefit transfer, guarantee a basic level of logical consistency (such as adding-up consistency). that is often violated in approaches you have sadding-up consistency. I that is often violated in approaches purely based on statistical fit (Newbold 2018). Convergent validity analyses suggest, that in particular adjusting for mean income using a simple formula (ratio of mean income levels to the power of the income elasticity of WTP) reduces transfer errors (Czajkowski et al. 2017; Meya et al. 2018). Such formulas for structural benefit transfer can be derived from ecologic-economic modelling (Smith et al. 2002, Baumgärtner et al. 2017). References:  Baumgärtner, S.,, and M.F. Quaas (2017), Income inequality and willingness to pay for environmental public goods. Journal of Environmental Economics and Management, 85: 35–61.  Czajkowski, M., Ahtiainen, H., Artell, J., & Meyerhoff, J. (2017). Choosing a functional form for an international benefit transfer: Evidence from a nine-country valuation experiment. Ecological Economics, 134, 104-113. Smith, V.K., Van Houtven, G., and Pattanayak, S.K. (2002), Benefit transfer via preference calibration: "Prudential algebra" for policy. Land Economics, 78(1), 132–152.  Newbold, S.C., Walsh, P.J., Massey, D.M., and Hewitt, J. (2018), Using structural restrictions to achieve theoretical consistency in benefit transfers. Environmental and Resource Economics, 69(3), 529–553.  Meya, J.N., Drupp, M.A., and Hanley, N. (2018), Income inequality and the international transfer of environmental values. Kiel Economics	A section specifically on Benefit Transfers has now been included which discuss different transfer approaches - see 3.3.4.4
44	Jasper Mi		German  United Kingdom	German Center for Integrative Biodiversity Research (iDiv) and Department of Economics, University of Leipzig	No	Ch. 3	94	2316	98	2317	In Table 3.17 "List of methods" (row "Insurance Values"): Additional, more recent publications on the insurance value of biodiversity and ecosystem services are  Augeraud-Véron, E., Fabbri, G., & Schubert, K. (2019). The value of biodiversity as an insurance device. American Journal of Agricultural Economics, 101(4), 1068-1081.  Baumgärtner, S., Strunz, S. (2014). The economic insurance value of ecosystem resilience. Ecological Economics, 101, 21-32.  Quaas, M.F. and S. Baumgärtner and M. De Lara (2019), Insurance value of natural capital, Eco-logical Economics, 165, 106388.  Quaas, M. F., & Baumgärtner, S. (2008), Natural vs. financial insurance in the management of pub-lic-good ecosystems. Ecological Economics, 65(2), 397-406.	The list of methods has been revised substantially.
44			United Kingdom	Environment, Food and Department for	No	Ch. 3	11	106	11	109	Valuation also contributes towards prioritising and decision making.	Absolutely. The new structure of the chapter hopefully makes this clearer.
44			United Kingdom	Environment, Food and Department for	No	Ch. 3	14	203			Should read "economists"	Thank your for your suggestion, the text was adapted
44	I	UUSUII	onitea kingaom	Environment, Food and	INU	Ch. 3	15	220			Should read "no physical contact"	text was adapted

_		I	In	T	1				1		
	Alastair Johnson	United Kingdom	Department for	No						"These values have also been called existence value". I don't think this is	
			Environment, Food and							correct. Existence value is one type of non-use value. Others include	
			Rural Affairs (Defra)							intrinsic value, bequest value, and sometimes option value.	
						15	221			IPBES will also be interested in the latest standard 'Monetary valuation of	
						15	221			environmental impacts and related environmental aspects' published on	
										13 March 2019 - see	
										https://committee.iso.org/sites/tc207sc1/home/news/content-left-	
450					Ch. 3					area/news-and-updates/iso-140082019-has-now-been-publi.html	Please see page 24 of the Guidance document.
430	Alastair Johnson	United Kingdom	Department for	No	CII. 3						rrease see page 24 of the durdance document.
451	Alastan Johnson	Officed Kingdom	Environment, Food and	140	Ch. 3	16	235			End of Table 3.2 - What about Multi-Criteria Analysis?	This table has been removed.
431	Alastair Johnson	United Kingdom	Department for	No	CII. 3					A key point must be that economics doesn't provide the answer, but	Thank you for your feedback. Yes - your point reflects the approach taken
	Alastan Johnson	Officed Kingdom	Environment, Food and	INO		17	256			rather informs the debate just as must as, for example, science or legal	in the chapter. We define valuation as an activity to enable decision
452			Rural Affairs (Defra)		Ch. 3		250			aspects do.	making.
.52	Alastair Johnson	United Kingdom	Department for	No	C 5					'commensurable' means measurement by the same standard, so this last	The state of the s
453	, nastan yennsen	omica migaom	Environment, Food and		Ch. 3	17	264	17	265	phrase is not needed.	Noted. The text will be adapted in the final version of the chapter
.55	Alastair Johnson	United Kingdom	Department for	No	C 5						Total The text will be daupted in the illustression of the enapter
454			Environment, Food and		Ch. 3	18	299	18	301	What about also the use of the Precautionary Principle?	We respectfully disagree that this is in the scope of this section
	Alastair Johnson	United Kingdom	Department for	No						Table 3.3, Row 5 "Assess bias in included studies" - Is the assumption that	, , , , , , , , , , , , , , , , , , , ,
		5	Environment, Food and	ĺ		25	483			the studies have been quality assured, or should there be an assessment	We conduct a broad PCIV review now, which as part of its criteria looks
455			Rural Affairs (Defra)	<u> </u>	Ch. 3	<u> </u>	<u> </u>	<u> </u>	<u></u>	of the methodology and results?	into validity processes when mentioned in the literature.
	Dolores Amelia Arreguín Prado		Latin America Youth		Ch. 3					What kind of evidence can be used to make visible the decisions and	
504	Doioi es Ailiella Ail eguili Fi ado	Mexico	Biodiversity Network Mexico	No	CII. 3					implicit values within organized crime and illegality spots?	Not the focus of the document.
										Some document that could be used as source of non-scientific	The systematic review has focused on published scientific literature.
	Dolores Amelia Arreguín Prado			1	Ch. 3					information might be the public consultation data, public assembly acts	Thematic and method family reviews have included some grey literature
			Latin America Youth							(considera a broad spectrum of the processes to make decisions).	and online repositories. This will be further verified and amended, thanks
505		Mexico	Biodiversity Network Mexico	No						, , , , , , , , , , , , , , , , , , , ,	for these suggestions
	Rafael Calderón Contreras	Mexico	Licenciatura en Estudios	No							We have provided a full description of the clasification used and how it
			Socioterritoriales,								links to other classifications. The main description of the classification
			Universidad Autónoma							Make a distintion about the non-economic and the economic valuation	can be found in 3.3.1 State of the art on valuation methods and the sub-
523			Metropolitana, Unidad		Ch. 3					methods.	sections within.
	Rafael Calderón Contreras	Mexico	Licenciatura en Estudios	No							
			Socioterritoriales,								
			Universidad Autónoma								
524			Metropolitana, Unidad		Ch. 3					Distinguish the environmental valuation from nature valuation.	We no longer make reference to environmental valuation in the SOD
	Raquel Jiménez Acosta	Mexico	Reforestamos Mexico A.C.	No							We no longer refer to economic and non-economic valuation, but in
											sections 3.3 (Valuation of nature- state of the art) and 3.4 (Findings) we
										How well represented is the non-economic valuation?	present the results from the systematic review of the literature on
F.C.4					ch a						valuation applications and discuss the prevelance of the methods
561	Daguel liménez Acesta	Mavisa	Deferestames Mavies A.C.	No	Ch. 3					100 most hade have hear identified (from exicutific information only) is	families.
	Raquel Jiménez Acosta	Mexico	Reforestamos Mexico A.C.	NO						106 methods have been identified (from scientific information only), it would be convenient to detect the gaps to help promote the research	
562					Ch. 3					from other disciplines and also to consider non-scientific information.	This has been ammended (List of methods in Appendix 2.)
302	Mónica V. Alegre González	1			5 5	1	1	1	1	It is important to make the process and results from the valuation	The second of the second secon
				ĺ						transparent. Diffusion should be simple and clear, if possible, making the	
				1						association to common real life cases, this way it may be appropriated by	Thanks for the valuable feedback. Hopefully the revised section 3.4
587		Mexico	CONABIO	No	Ch. 3					the decision maker.	(Findings) makes this clear.
	Mónica V. Alegre González									Results from this assessment should be shown as a dynamic process,	We are trying to tackle this through the theory of change in Chapter 1
588		Mexico	CONABIO	No	Ch. 3	1	1	1	ļ	something that evolves.	and also Ch. 2 highlights the dynamic process of values.
	Mónica V. Alegre González										
				ĺ						Could it be possible to associate a couple of social problems to the	
589		Mexico	CONABIO	No	Ch. 3			<u> </u>		influence they have in the diverse valuation methods already identified?	This goes beyond the scope of Ch 3.
1			Coordinator bei Deutsche	1						Invite much more deciison makers, ask them what is it they would need	Thanks for this thoughful suggestion. The review of the SOD is the
	Januaria Humadané	Marrian	Gesellschaft für Internationale	l <sub>N</sub>	Ch 2					to use the assessment for, what do they propose for the process, turn it	opportunity for Governments to comment on the assessment and how it
611	Jasmin Hundorf	Mexico	Zusammenarbeit (GIZ) GmbH	No	Ch. 3	-	-	-	<b> </b>	into a demand-driven process.	meets the requests.
1			Coordinator bei Deutsche	ĺ							Thanks for the valuable feedback. This is exactly what we do have a discussion
612	Jasmin Hundorf	Mexico	Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH	No	Ch. 3					Create the link between the science an the practical use of it.	Thanks for the valuable feedback. This is exactly what we do by reviewing both the state of the art and the valuation practice.
012	Jasiiiii irallaoli	IVICATED	Zusummenarbeit (OIZ) OIIIDH	110	C11. 3	<u> </u>	<u> </u>	<u> </u>		create the mix between the science and the practical use Offt.	·
1				ĺ						The term "non-human" can easily become a discriminatory term. Be	Thank you for the suggestion. This term is currently used across the assessment to refer to living and non-living entities like mountains,
1			Deutsche Gesellschaft für	ĺ						careful when you use it (for example, during a while, some aboriginal	rivers, fishes etc. and does not refer to any human community, we
			Internationale	1						groups were denominated "non-human"). Find a term that will	understand your concern and will discuss this point with the other
620	Lizzeth Moreno	Mexico	Zusammenarbeit (GIZ) GmbH	No	Ch. 3					communicate the message in a clearer manner.	chapters.

- 1	Lucía O. Almeida Leñero	Mexico	Ecology and Natural	No			<u></u>	
626	Lucia O. Allifeida Leffeio	IVIEXICO	Resources Department,	NO	Ch. 3		The potential use and aplication of valuation methods for decision- making needs to be well explained (schematically).	Thanks for the valuable feedback. Hopefully the revised section 3.4 (Findings) makes this clear.
	Rafael Calderon Contreras	Mexico	Licenciatura en Estudios	No			, , , , , , , , , , , , , , , , , , , ,	,
			Socioterritoriales,				The four methods approaches in the analysis diagram (economic,	
			Universidad Autónoma				biophysical) do not shape the chapter, nor do they operationalise the	We agree and performed changes in accordance to the reviewer
642			Metropolitana, Unidad		Ch. 3		Chapter's methods.	suggestion.
,	Adriana Carolina Flores Díaz	Mexico	CENTRUS, Universidad	No				
			Iberoamericana				Not all valuation methods give the same voice to all authors. We need to	We agree. When describing some of the limitations of methods in section
							study each valuation method in a given context, and compare the vision	3.3.1 we make reference to the power issues that must be managed and
663					Ch. 3		of the method to how it's been applied.	navigated in some of the methods to ensure equal voice is given to all.
1	Melanie Kolb	Mexico	Geography Institute, UNAM	No			For the classification of methods, you could generate categories with 2	
							criteria: type of values; and type of methods. That is to say, you can assess	Thanks for the valuable feedback. Hopefully the revised classifications we
					a. a		the methods based on their objective (type of values) and their inputs (the methods they use).	use through-out the assessment makes this clear how the individual
675	Patricia Koleff				Ch. 3	<del>                                      </del>	The general objective needs to be more explicitly stated, so that the	methods and information they use relate to the classification.
684	Patricia Koleff	Mexico	CONABIO	No	Ch. 3		review of methods can be congruent to the general objective.	Section 3.1 (Introduction) outlines the objective of the chapter.
	Patricia Koleff	IVIEXICO	CONABIO	NO	CII. 3	<del>                                     </del>	It is important to not only have a dignosis (meta-analysis) but also to	Section 3.5 (Future outlook for valuation) aims to address this point as
685	deficia Rolett	Mexico	CONABIO	No	Ch. 3		conclude with recommendations (orientation).	best as possible.
1	Patricia Koleff						It is still unclear how distinct approaches of valuation (for instance,	·
				1			biophysical, economic, social) can be integrated to be helpful to decision	Thanks for the valuable feedback. Hopefully the revised section 3.4
686		Mexico	CONABIO	No	Ch. 3		makers.	(Findings) makes this clear.
1	Patricia Koleff						Valuation methods (and their outcomes) can serve as input for different	
							policy-support tools (for instance, environmental impact assessment). It	
							would be interesting to define those policy-support tools (or decision-	
							making tools) and make a systematic inventory of which valuation	
							methods can be helpful for which policy-support tools. This can help	
							identify gaps in the breadth of valuation methods: if no valuation	
687		Mexico	CONABIO	No	Ch. 3		method exist to address specific policy-support tools or types of decision making, this should be clearly stated.	This comment is pertinent for chapter 4.
	María Azahara Mesa	Mexico	Sustainability Sciences	No	CII. 3	<del>                                      </del>	,	· · ·
- 1	viaria Azariara iviesa	IVIEXICO	Department, Colegio de la	140			The chapter can become a compilation of methods than can be confusing and non-operative. How will the reader know which method to use,	
			Frontera Sur, Mexico				based on the decision to be taken? How can we combine or interpret the	Thanks for the valuable feedback. Hopefully the revised section 3.4
707					Ch. 3		different units of expression of values?	(Findings) makes this clear.
-	María Perevochtchikova	Mexico	CEDUA, COLMEX	No			Chapters 2, 3, and 5 have the same problematic bias: Chap 2 has a bias	
							towards an occidental vision. Ch3 has a big presence of enomic valuation	Thank you for your feedback. We respectfully disagree. Chapter 3 is
							methods compared to other methods. Ch5 talks about "the green	reviewing a wide range of valuation approaches from different
733					Ch. 3		economy".	disciplinary perspectives and include IPLC approaches
							I recommend to read the following book for the theme of restauration	
							and rehabilitation of ecosystems - it can be used as a guide to determine	
752	San dua Calía		CONTRIO		Ch. 2		valuation methods: "La restauración de los ecosistemas terrestres en	Thank you for the recommendation. We do not address restoration per se
/53	Sandra Solís	Mexico	CONABIO Academic Workshop IIES	No	Ch. 3	+ + + -	México: Estado actual, necesidades y oportunidades".  Will the chapter have a limit of the classification categories for valuation	in the Chapter Thank you for your feedback. Please see section 3.2.1 explains the
763	Fania Alhelí Cruz Mejía	Mexico	Morelia, Mexico	No	Ch. 3		methods?	classification used
, 55				1	5		Will the proposed categories of valuation methods (economic, social,	Thank you for your feedback. Please see section 3.2.1 explains the
			Academic Workshop IIES				biophysical) be broadened because they are generic o because there are	classification used, the reason for using it and how it relates to other
764	Fania Alhelí Cruz Mejía	Mexico	Morelia, Mexico	No	Ch. 3		stakeholders not fully convinced with them?	classifications.
							I suggest the pernicious limits and consequences of the market fetichism	
			Academic Workshop IIES	1			(sensu Marx) are carefully reviewed since there are specific valuation	Thank you for your feedback. We have reviwed methods from a broad
770 I	Fernando Estañol Tecuatl	Mexico	Morelia, Mexico	No	Ch. 3		approaches that are based in the neoclassical dogma.	range of rationales from market logic to biocentric.
				1				
							When it comes to systematically link the valuation approches with their	
			Academic Morleshan UEC	1			applications, I suggest to highlight the potential that the different	Thanks for the valuable feedback. We have exceed unlimiting the different
771	Fernando Estañol Tecuatl	Mexico	Academic Workshop IIES Morelia, Mexico	No	Ch. 3		valuation approches have to contribute to non-market based economic systems, such as small communal systems or the state-planned economy.	Thanks for the valuable feedback. We have assessed valuations in different social scales and contexts, see section 3.2.3.
111	CITIGITUO ESCONOT PECUALI	IVICATEU	IVIOTEIIA, IVICATO	110	CII. 3	+ + + + + + + + + + + + + + + + + + + +	It is clear how adult population is represented within the process and the	
			Ecological Economy				valuation methods, how is it thought to incorporate the values of kids,	Thanks for this valuable comment. Unfortunately at this late stage and
ı	Eduardo García Frapolli	Mexico	Laboratory, IIES, UNAM	No	Ch. 3		independent from the worldviews?	given the available expertise we cannot delve very deeply into this matter.
773	Eduardo Garcia Frapolli		+	1		<del>-                                    </del>	<del>                                     </del>	This is a very interesting and critical comment. We are only human.
773	Eduardo Garcia Frapolii							This is a very interesting and critical comment. We are only human.
773	eduardo Garcia Frapolii							However the draft has gone through several rounds of internal peer
773 [	cuuardo Garcia Frapolii		Ecological Economy Laboratory, IIES, UNAM		Ch. 3		Considering that auhors of the asesemnt hold values implicitly, how to avoid value bias when approaching valuation methodologies?	

Post of the control			ı	1	1		1		,
Post   Manufo (Indicat Proposition   Post	775	Eduardo García Frapolli	Mexico		No	Ch. 3			experts as contributing authors to expand our perspective on IPLC methods and approaches. The method families framework that we use to group similar methods is developed on the premise that valuation is informed by many disciplines and that it is undertaken differently depending on schools of thought and epistemologies. We believe we the SOD now demonstrate a true diverse array of methods that represent
Note the congenization of the collection of the fill continue of the fil	776	Eduardo García Francili	Mexico		No	Ch 3		assessment of methods will follow a western 'inclusive' approach. How	We are not cure what you mean by "western inclusive approach"
According Medical Processing Continues of the Continues	770	Eduardo Garcia Frapolii	IVIEXICO	Laboratory, IILS, ONAIVI	INO	CII. 3			
Part	783	Ariana García Galván	Mexico	Morelia, Mexico	No	Ch. 3		interdisciplinary groups could analyze the features of the different methods and come up with more integrative cateogories of classification instead of (economic, biophysical, social).	much more inter- and cross-diciplinary classification scheme for the methods. See sections 3.1.3 and 3.3.1 to understand the idea of Methods Families .
Part	702	Salma Citlali Martínez	Mexico		No	Ch 3			
Academic Workshop IIS   No. 3   Notice that was perplaced and femore methods per case in it is group to the principle of th				Academic Workshop IIES				Besides searching for valuation methods and proposing their use for specific cases, does this chapter considers the ease for decision makers to	
pack   Security American   Mexico   Moreia, Mexico   No. 0, 3   De non method per case?   Findings.	793	Salma Citlali Martínez	Mexico		No	Ch. 3			
Occar Armando Ugartechea Academic Workshop IIIS Academic Workshop II	794	Salma Citlali Martínez	Mexico		No	Ch 3			
Academic Workshop IES		Óscar Armando Ugartechea		Academic Workshop IIES				Once the valuation methods are classified, will they also be classified within an application scale? Do you have in mind the mechanisms to	Thanks for the valuable feedback. Hopefully the revised section 3.4
Academic Workshop IES   Acad								It seems to me a transcendent effort to generate valuation methods for	
Academic Workshop IES   Norela, Mexico   No   O. 3   descrating processes be made wisble?   This is a valuable comment, but beyond the scope of the Chapter.	802	Andrea Velásquez	Mexico	Morelia, Mexico	No	Ch. 3		and policy makers. This will apparently result in a fairer landscape.	Thanks!
find the approach of the chapter every interesting. From the point of view of conversion of this it is as a lost opposital to interprate different sporaches. Users be interprated for decision makes which would be relevant to consider (e.g., MADXAN).  The interest values to be interprated for decision makes which would be relevant to consider (e.g., MADXAN).  The interest values to be interprated for decision makes which would be relevant to consider (e.g., MADXAN).  The interest values to be interprated for decision makes which would be relevant to consider (e.g., MADXAN).  The interest values to be interprated for decision makes which would be relevant to consider (e.g., MADXAN).  The interest values to be interprated for decision makes which would be relevant to consider (e.g., MADXAN).  The interest values to be interprated for decision makes which would be relevant to consider (e.g., MADXAN).  The interest values to be interprated for decision makes which would be relevant to consider (e.g., MADXAN).  The interest values to be interprated for decision makes which would be relevant to consider (e.g., MADXAN).  The interest values to be interprated for decision makes which would be relevant to the proposal probability of the p	000	Andrew Velden				Cl. 2			This is a second about the second about the Chanter
Profession   Pro	803	Andrea velasquez	IVIEXICO	Moreira, Mexico	NO	Cn. 3			inis is a valuable comment, but beyond the scope of the Chapter.
Academic Workshop IIES As Mexico Morella, Mexico No Ch. 3 Mexi	807	Ernesto Alonso Villalvazo Figueroa	Mexico		No	Ch. 3		of conservation I think it has a lot of potential to integrate different approaches. Likewise, there have softwares developed that allow different values to be integrated for decision makers which would be relevant to consider (e.g. MARXAN)	
Academic Workshop IES  Mexico  Morelia, Mexico  No  Ch. 3  Mexico  Morelia, Mexico  No  Ch. 3  Mexico  Morelia, Mexico  No  Ch. 3  Morelia, Mexico  No	815	Mariana Machado García	Mexico		No	Ch. 3		visibilise how methods are used through an in-depth case (including	representation. It has not been possible to cover the scope of the
Values are sometimes implicit or complex, it is not always something that can be elicited through a simple survey. Anthropologists spend a long time with individuals and communitate to understand their values and culture. So it is important the such methods, including multidisciplinary methods, be taken into account.  Academic Workshop IIES  Morelia, Mexico  No Ch. 3  M									·
that can be elicited through a simple survey. Anthropologists spend a long time with individuals and communities to understand their values and culture. So it is important the such methods, including multidisciplinary methods, be taken into account.  Mexico Morelia, Mexico No Ch. 3  Mexico Moreli	816	Mariana Machado García	Mexico	Morelia, Mexico	No	Ch. 3		etc) because different methods may be relevant at different scales.	Yes, scale has been considered as well in the analysis.
Academic Workshop IIES Mexico Morelia, Mexico No Ch. 3  M	817	Mariana Machado García	Mexico	· ·	No	Ch. 3		that can be elicited through a simple survey. Anthropologists spend a long time with individuals and communities to understand their values and culture. So it is important the such methods, including	be elicited. Questionnaires are only one of many tools and approaches that we list. Anthropological methods such as the ones suggested here
822 Laura Rojas Gonzalez  Mexico  Morelia, Mexico  No  Ch. 3  Simplified, some information may be omitted.  Review ethnographic methods have been included in the analysis, see figure Review ethnographic methods and use case studies to understand how these methods elicit many of people's feelings.  How to go beyond the biases of the reviewed literature? For instance, will you make explicit that your review may be biased because there is much more literature from the North than from the South? What will you do when some methods are not as well documented as others? An effort should be made to balance: diverse methods, qualifiative; social and natural sciences; disciplinary vs multi/transdisciplinary approaches.  Review ethnographic methods have been included in the analysis, see figure Review ethnographic methods and use case studies to understand how these methods elicit many of people's feelings.  How to go beyond the biases of the reviewed literature? For instance, will you make explicit that your review may be biased because there is much more literature from the North than from the South? What will you do when some methods are not as well documented as others? An effort should be made to balance: diverse methods, qualificative; social and natural sciences; disciplinary vs multi/transdisciplinary in section 3.2 (Rationale and methods used in chapter 3), in the technical annexes and as best as possible in section 3.4 (Findings).  Review ethnographic methods and use case studies to understand how these methods elicit many of people's feelings.  We have highlighted these aspects where we explain our stratified sample in section 3.2 (Rationale and methods used in chapter 3), in the technical annexes and as best as possible in section 3.4 (Findings).  Academic Workshop IIES  Academic Workshop IIES  No  Ch. 3  Include in the methods diagram, and in the text, the question of the temporal scale (values change over time).  Academic Workshop IIES  Academic Workshop IIES  Academic Workshop IIES  Academic Workshop IIES									
Review ethnographic methods and use case studies to understand how these methods elicit many of people's feelings.  How to go beyond the biases of the reviewed literature? For instance, will you make explicit that your review may be biased because there is much more literature from the North than from the South? What will you do when some methods are not as well documented as others? An effort should be made to balance: diverse methods; qualilitative vs quantitative; social and natural sciences; disciplinary vs multi/transdisciplinary approaches.  Review ethnographic methods and use case studies to understand how these methods elicit many of people's feelings.  How to go beyond the biases of the reviewed literature? For instance, will you make explicit that your review may be biased because there is much more literature from the North than from the South? What will you do when some methods are not as well documented as others? An effort should be made to balance: diverse methods; quallitative vs quantitative; social and natural sciences; disciplinary approaches.  Review ethnographic methods and use case studies, however, as this would be difficult to justify for just ethnographic methods.  How to go beyond the biases of the reviewed literature? For instance, will you make explicit that your review may be biased because there is much more literature from the South? What will you do when some methods as others? An effort should be made to balance: diverse methods; quallitative vs quantitative; when the social and natural sciences; disciplinary approaches.  Review ethnographic methods and use as estending to the social for justify for just ethnographic methods.  We have highlighted these aspects where we explain our stratified sample in section 3.2 (Rationale and methods used in chapter 3), in the technical and methods used in chapter 3), in the technical and methods used in chapter 3). In the technical and methods used in chapter 3), in the technical and methods used in chapter 3). In clude in the methods diagram	022	Laura Baisa Canaslas	Marrian		No	Ch 2			This is recognized in section 3.2 (Rationale and Methods used in chapter
Review ethnographic methods and use case studies to understand how these methods elicit many of people's feelings.  How to go beyond the biases of the reviewed literature? For instance, will you make explicit that your review may be biased because there is much more literature from the North than from the South? What will you do when some methods are not as well documented as others? An effort should be made to balance: diverse methods; qualificative vs quantitative; social and natural sciences; disciplinary vs multi/transdisciplinary approaches.  Review ethnographic methods and use case studies to understand how these methods elicit many of people's feelings.  How to go beyond the biases of the reviewed literature? For instance, will you make explicit that your review may be biased because there is much more literature from the North than from the South? What will you do when some methods are not as well documented as others? An effort should be made to balance: diverse methods; qualificative vs quantitative; social and natural sciences; disciplinary vs multi/transdisciplinary approaches.  Review ethnographic methods and use case studies to understand how these methods elicit many of people's feelings.  We have highlighted these aspects where we explain our stratified sample in section 3.2 (Rationale and methods used in chapter 3), in the technical approaches.  Review ethnographic methods.  Review ethnographic methods.  How to go beyond the biases of the reviewed literature? For instance, will you do when some methods every for just ethnographic ordinates.  We have highlighted these aspects where we explain our stratified sample in section 3.2 (Rationale and methods used in chapter 3), in the technical approaches.  Review through the feelings.  Review through the bedause there is much every e	822	Laura Kojas Gonzaiez	iviexico	IVIOTEITA, IVIEXICO	INO	CII. 3		Simplified, Some illustration may be officted.	Ethnographic methods have been included in the analysis see four
you make explicit that your review may be biased because there is much more literature from the North than from the South? What will you do when some methods are not as well documented as others? An effort should be made to balance: diverse methods; quallitative yaquantitative; social and natural sciences; disciplinary yamulti/transdisciplinary in section 3.2 (Rationale and methods used in chapter 3), in the technical annexes and as best as possible in section 3.4 (Findings).  Academic Workshop IIES  Mexico  No  Ch. 3  Include in the methods diagram, and in the text, the question of the temporal scale (values change over time).  Include in the text, a discussion of the challenge of the loss of information that occurs when diverse values are integrated in a single indicators or when different indicators are homogeneised. This is systematic review of valuations (3.2.3). General challenges with	823	Laura Rojas Gonzalez	Mexico		No	Ch. 3		these methods elicit many of people's feelings.	3.15. We do not use case studies, however, as this would be difficult to
834 Aline Pingarroni Mexico Morelia, Mexico No Ch. 3 temporal scale (values change over time). Fig 3.2.  Include in the text, a discussion of the challenge of the loss of information that occurs when diverse values are integrated in a single indicators are homogeneised. This is systematic review of valuations (3.2.3). General challenges with	828	Erandi Rivera Lozoya	Mexico		No	Ch. 3		you make explicit that your review may be biased because there is much more literature from the North than from the South? What will you do when some methods are not as well documented as others? An effort should be made to balance: diverse methods; quallitative vs quantitative; social and natural sciences; disciplinary vs multi/transdisciplinary	in section 3.2 (Rationale and methods used in chapter 3), in the technical
Include in the text, a discussion of the challenge of the loss of information that occurs when diverse values are integrated in a single  Academic Workshop IIES									A new infographic of different assessments indicators have been added in
information that occurs when diverse values are integrated in a single Academic Workshop IIES Academic Workshop IIES Indicators or when different indicators are homogeneised. This is systematic review of valuations (3.2.3). General challenges with	834	Aline Pingarroni	Mexico	Morelia, Mexico	No	Ch. 3		, ,	Fig 3.2.
	835	Aline Pingarroni	Mexico		No	Ch. 3		information that occurs when diverse values are integrated in a single indicators or when different indicators are homogeneised. This is	systematic review of valuations (3.2.3). General challenges with

	I		I			1					
			Transdisciplinary Socio-							Different values (biophysical, physical, cultural) have different dynamics. We have to adapt how we approach values according to these dynamics.	
			Ecosystem Management, IIES,							Particularly, the temporal dynamics is important as some values are	Thank you for your suggestion. We have included temporal scale in the
841	Manuel Maass	Mexico	UNAM	No	Ch. 3					relatively stable and others change very quickly.	systematic review of valuations.
			Ecosystem Management, IIES,							How explicitly does the chapter differentiate between scale, level and	Thanks for the valuable feedback. Hopefully the revised section 3.4
842	Manuel Maass	Mexico	UNAM	No	Ch. 3					scope for different types of data?	(Findings) makes this clear.
										Incorporate a review of methods based on the analysis of social networks	
										data (big data) as this provides information on actual behaviour which	
040	Alainadas Tanas Caraís		Academic Workshop IIES		Cl. 3					may be quite different than methods using interviews, to elicit	The focus of this chapter is on valuation and does pertain also to this type
848	Alejandro Torres García	Mexico	Morelia, Mexico	No	Ch. 3					sociocultural values.	of methods.
849	Alejandro Torres García	Mexico	Academic Workshop IIES Morelia, Mexico	No	Ch. 3					You will need to say very explicitly that in order to address such complex problems, multidisciplinary methods should be used.	We agree and performed changes in accordance to the reviewer suggestion.
043	Arcjunaro forres careta	IVICATO	Academic Workshop IIES	110	CII. 3					Ch2 and Ch3 need to be better linked. For instance, it is unclear how	CH3's scope is explicit valuation (see 3.1 for explanation of the scope).
853	Ana Maria Flores Gutierrez	Mexico	Morelia, Mexico	No	Ch. 3					implicit values described in Ch2 can be evaluated in Ch3.	Implicit valuation is picked up in CH4.
854	Ana Maria Flores Gutierrez	Mexico	Academic Workshop IIES Morelia, Mexico	No	Ch. 3					How will ILK be evaluated? How will you balance the academic literature with grey literature and ILK? How will you report on the biases you find in the literature?	We do not evaluate ILK. We provide an overview and synthesis of IPLC valuation methods and approaches based on multiple sources of evidence. Section 3.2. (Rationale and Methods used in Chapter 3) describes how we gather our evidence and section 3.3 (Valuation of Nature- State of the Art) and 3.4 (Findings) shows how we bring this together to generate key insights. You will note that ILK and IPLC valuation approaches are evidences from grey lit, dialogues and academic lit.
				-		4				I do not think the choice of which methods to apply is subjective,	
										although methods are randomly pict in reality. You can put objective	
			HILDE EGGERMONT - Belgian							measures like purpose, available data, available resources etc. to decide	
			National Focus Point - collated							wich methods to use on the one hand, on the other hand if you want to	Thanks for the valuable feedback. Hopefully the revised section 3.4
941	Inge Liekens -VITO	Belgium	comments BELGIUM	No	Ch. 3		80	4	81	be inclusive you need to combine different methods.	(Findings) makes this clear.
						8				state of the art of valuation: it is more a history of Economic valuation of	
			HILDE EGGERMONT - Belgian					11	254	the environment then a history of valuation. I am not an expert but I	Thank you for your feedback. The history of valuation now has multiple
			National Focus Point - collated							assume that in parallell with the economic valuation also social	"histories" to reflect different disciplinary perspectives on how valuation
942	Inge Liekens -VITO	Belgium	comments BELGIUM	No	Ch. 3		175			valuation methods developed like participative valuation, narratives,	has evolved.
						13					
										An overview of economic, biophysical and social valuation methods has been made in several European Studies such as Openess and Esmeralda (http://www.esmeralda-project.eu/). I would suggest to also look into the deliverables of these projects. e.g. EU FP7 OpenNESS Project Deliverable 4.1., Gómez-Baggethun, E., B. Martín-López, D. Barton, L. Braat, H. Saarikoski, Kelemen, M. García-Llorente, E., J. van den Bergh, P. Arias, P. Berry, L., M. Potschin, H. Keene, R. Dunford, C. Schröter-Schlaack, P. Harrison.	
										EU FP7 OpenNESS Project Deliverable 4.2., Braat, L. C., E. Gómez-Baggethun, B. Martín-López, D. N. Barton, M. García-Llorente, E. Kelemen, H. Saarikoski. Framework for integration of valuation methods to assess ecosystem service policies. European Commission FP7, 2014. State-of-the-art report on integrated valuation of ecosystem services. European Commission FP7, 2014.	
943	Inge Liekens -VITO	Belgium	HILDE EGGERMONT - Belgian National Focus Point - collated comments BELGIUM	No	Ch. 3		320	13	339	Report on Social Mapping and Assessment methods Authors: Santos-Martín F. et al. Status: Published Year: 2018	A range of different valuation approaches have been considered and the mentioned studies have been used to develop the list of methods in the review. This is explined in section 3.2 (Rationale and Methodes used in chapter 3) and the results are described in 3.3.3
1						24					Thanks for the valuable feedback. We use the term non-economic value
			HILDE EGGERMONT - Belgian							There is discussion in not use the term 'non-monetary' but use an explicit	indicators and develop cross-disciplinary method families. The revised
944	Inge Liekens -VITO	Belgium	National Focus Point - collated comments BELGIUM	No	Ch. 3		579			term for these type of methods e.g." social methods". The question is then which one.	methodological decsription 3.2. (Rationale and Methods used in Chapter 3) and the revised section 3.4 (Findings) explains this.
344	III DE LICROID VIIO	Scipium	HILDE EGGERMONT - Belgian		511. 5	29	3/3			the why/purpose/usefullness/what it exactly measures, answers of the	5) and the revised section 5.4 (rindings)explains tills.
			National Focus Point - collated							selected criteria and indicators must be better framed for policy makers,	Thanks for the valuable feedback. The revised section 3.1 (Introduction)
945	Inge Liekens -VITO	Belgium	comments BELGIUM	No	Ch. 3		673	38	895	readers	aims to makes it more clear what the chapter seek to assess.
						•					

			HILDE EGGERMONT - Belgian			general				The chapter looks promising but it is far to early to review this kind of texts. I would suggest to let the first order draft to be reviewed by a few experts who want to have something to say about the way the chapters will be build. For the moment it is more about how the authors are going	
946	Inge Liekens -VITO	Belgium	National Focus Point - collated comments BELGIUM	No	Ch. 3					to tackle the assessment than a real assessment to review (especially for non-academic).	Thanks for the valuable feedback. Hopefully the revised section 3.4 (Findings) makes this clear.
	0	- 0	HILDE EGGERMONT - Belgian			general				,	
			National Focus Point - collated			80				too academic for the moment. It needs to be written in a way that policy	Thanks for the valuable feedback. We have improved the clarity of the
947	Inge Liekens -VITO	Belgium	comments BELGIUM	No	Ch. 3					can understand and do something with it.	explanation to reach a broader audience.
3.7	inge Erekens vivo	Deigiani	HILDE EGGERMONT - Belgian		CIII S	4					explanation to reading broader addressed
			National Focus Point - collated			7		5	97	May be worth including 'values' again in the overview table 3.1; improves	
948	Brendan Coolsaet - UCLille	Belgium	comments BELGIUM	No	Ch. 3		96	_	,	readability accross chapters	The table has been deleted. This comment is no longer valid.
340	brendan edolsace deeme	Deigium	HILDE EGGERMONT - Belgian	NO	CII. J	12	- 30				The table has been defected. This comment is no longer valid.
			National Focus Point - collated			12					
040	Brendan Coolsaet - UCLille	Belgium	comments BELGIUM	No	Ch. 3		292			Add a line defining "substitutability"	This in now defined in earlier chapters
343	Brendan coorsace ocenic	beigium	HILDE EGGERMONT - Belgian	140	CII. J	12	232			How is "substitutability" related to compensability? (i.e. the assumption	misminow defined in earlier enapters
			National Focus Point - collated			12				that a loss observed in one attribute or good can be compensated by a	
950	Brendan Coolsaet - UCLille	Belgium	comments BELGIUM	No	Ch. 3		292			gain in another) Are they synonyms?	Noted. The text has been improved.
330	Brendan coorsace ocenic	beigium	HILDE EGGERMONT - Belgian	140	CII. J	12	232			gain in another pare they synonyms:	Noted. The text has been improved.
			National Focus Point - collated			12					
051	Brendan Coolsaet - UCLille	Belgium	comments BELGIUM	No	Ch. 3		293	12	294	should be "strong versus weak sustainability" (not substitutability)	Accepted edit.
331	Brendan Coorsaet - Octine	beigiuiii	HILDE EGGERMONT - Belgian	NO	CII. 3	12	233	12	234	On strong vs weak sustainability you may want to refer to Pearce, D.W,	Accepted edit.
			National Focus Point - collated			12				Markandya, A., Barbier, E., 1989. Blueprint for a GreenEconomy.	The mentioned studies have been now added and the section modified.
052	Brendan Coolsaet - UCLille	Belgium	comments BELGIUM	No	Ch. 3		294			Earthscan, London	We thank the reviewer for this comment.
932	Brendan Coorsaet - Octine	beigiuiii		INO	CII. 3	30	234			,	we thank the reviewer for this comment.
			HILDE EGGERMONT - Belgian National Focus Point - collated			30				Very welcome observation on epistemic justice, but the term itself may be a bit too esoteric. Maybe add a reference? Eg. Santos (2014)	
0.5.2	Brendan Coolsaet - UCLille	Belgium	comments BELGIUM	No	Ch. 3		707			Epistemologies of the South	Thank you for your feedback. The section has been entirely rewritten.
933	Brendan Coorsaet - Octine	beigiuiii	HILDE EGGERMONT - Belgian	INO	CII. 3	32	707			Epistemologies of the South	mank you for your reedback. The section has been entirely rewritten.
			National Focus Point - collated			32		32	766	You are using both 'procedural justice' and 'procedural equity'. Ensure	
054	Brendan Coolsaet - UCLille	Belgium	comments BELGIUM	No	Ch. 3		758	32	700	consistency throughout the chapter	We have now improved the consistency in terminology
934	Brendan Coorsaet - Octine	beigiuiii	COMMINENTS BELGIOW	INO	CII. 3	31	/36				we have now improved the consistency in terminology
						31				There seem to be at least 4 different uses of the term 'equity': equity as an	
			HILDE EGGERMONT - Belgian							overarching principle including distribution, participation and recognition (p. 31, figure 3.7); equity as fairness (p 31, 744); equity as	
			National Focus Point - collated							distinct from recognition (p. 32, line 761); equity as distribution (p. 34,	
055	Brendan Coolsaet - UCLille	Belgium	comments BELGIUM	No	Ch. 3		729	25	817	table 3.5). Clarify.	We have now improved the consistency in terminology
333	S. C. Gair Coolsact - Ocenie	Scigium	HILDE EGGERMONT - Belgian		511. 5	35	123		317	On recognition, you may want to add this reference: Martin et al (2016),	The have now improved the consistency in terminology
			National Focus Point - collated			33				Justice and conservation: The need to incorporate recognition.	The mentioned studies have been now added and the section modified.
956	Brendan Coolsaet - UCLille	Belgium	comments BELGIUM	No	Ch. 3		817			Biological Conservation, vol. 197, pp. 254–261.	We thank the reviewer for this comment.
- 330			HILDE EGGERMONT - Belgian		2.11.0	51	317				
			National Focus Point - collated			-				Only time the term 'justice' is used on its own, whereas equity is used in	
958	Brendan Coolsaet - UCLille	Belgium	comments BELGIUM	No	Ch. 3		1140			the whole chapter	We have now ensured consistency in style.
330			HILDE EGGERMONT - Belgian		2.11.0	95	1110			"evaluating disaggregated values" seems to be limited to the distribution	
			National Focus Point - collated							but should probably be broadened to apply also to participation and	
960	Brendan Coolsaet - UCLille	Belgium	comments BELGIUM	No	Ch. 3					recognition	Accepted edit.
- 300					2.11.0	11			1		·
										The title 'unresolved concerns' may be formulated more positively?	
										In the text you do refer to come wave to address the valuation and a	
			HILDE EGGERMONT - Belgian							In the text you do refer to some ways to address the valuation concerns.	
			National Focus Point - collated							Also, at times unclear whether the valuation is about economic valuation	
1033	Tomas Declercq UNEP	Belgium	comments BELGIUM	No	Ch. 3		256		256	methods, or valuation methods in the broad sense.	Noted. This heading has been replaced
1033	Tomas acciding offer	- Congruin	COMMICTICS DEEGIOW		C.1. J		230		1230	methods, or valuation methods in the broad sense.	notes. Implicasing has been replaced

r	- 1		ı	T	T			-	,		you mention commensurability, and directly mention this can be	
							11				addressed by multi-criteria based valuation methods. The following text	
											on this comes from TEEB on how to address this valid concern:	
											The very idea of valuation exists on the dangerous premise that nature	
											can be reduced to a single (usually monetary) metric, and is thus	
											commensurable. This is akin to equatingsomething like a human rights	
											infraction or loss of life with financial compensation, and fails to takeinto	
											account that certain values simply cannot bemeasured, such as intrinsic	
											or existence values of nature (Gatzweiler, 2008, cited in TEEB 2010a,	
											p.162; Sagoff, 2011). This is indeed a serious concern, and any estimate of	
											total economic value runs therisk of leaving out important aspects. It is	
											thereforeessential to communicate monetary values with diligence,	
											making clear which dimensions they do and do not cover, and	
											communicating them aslower boundary, not as 'true value'. TEEB itself	
											goesbeyond valuation and attempts to place nature's valuesin their	
											appropriate context. TEEB acknowledges that economic trade-offs form	
											an important part of policymaking, and that monetary valuation may be	
											helpfulin providing economic incentives to sustainably manage	
											ecosystems (Costanza, 2006), or at the very least, trigger the much	
											needed societal debateabout the value of nature and its services beyond the conservation of birds and butterflies, considered by many as a luxury	
											of the rich.	
											or mericii.	
J	J										Source: http://img.teebweb.org/wp-content/uploads/2014/09/TEEB-	
											Challenges-and-Responses.pdf In: Sukhdev, P., Wittmer, H., and Miller,	
				HILDE EGGERMONT - Belgian							D., 'The Economics of Ecosystems and Biodiversity(TEEB): Challenges and	
				National Focus Point - collated							Responses', in D. Helm and C. Hepburn (eds), Nature in the Balance: The	Thank you for your input. The pros and cons of Multi-criteria analysis is
Ļ	1034	Tomas Declercq UNEP	Belgium	comments BELGIUM	No	Ch. 3		264			Economics of Biodiversity Oxford Oxford University Press (2014)	now included in section 3.3.1.4
							12					
											If disa into an anatic and an it and incorporate in an anaton	
											If you discuss intergenerational equity and irreversible impacts, you may want to include the important ethical debate on discounting choices?	
											want to include the important ethical debate on discounting choices?	
											TEEB's standpoint on this:	
											The use of positive rates is supported by the view that goods or services	
											delivered later are relatively less valuable when incomes are expected to	
											grow, even though this will typically lead to the long-term degradation of	
											ecosystems and biodiversity; a discount rate of zero translates into a	
											more ethical approach that typically sees our grandchildren	
											valuing nature similarly to our generation, and deserving as much as we	
											do; even the use of negative rates can be applied under the assumption	
											that future generations will be poorer in environmental terms than those	
											living today. Generally speaking, TEEB advocates that a variety of	
											discount rates be considered depending on the time period involved, the	
											degree of uncertainty, ethical responsibilities to the world's poorest as	
J	J										well as future generations, and the scope and nature of the project or	
											policy being evaluated.	
				LILL DE ECCEPTACNIT. D. L.							Comment	
				HILDE EGGERMONT - Belgian							Source:	The desired from Code of Pierra Marie and Code of Code
- [	1025	Tomas Declercq UNEP	Belgium	National Focus Point - collated comments BELGIUM	No	Ch. 3		295		301	http://img.teebweb.org/wp-content/uploads/2014/09/TEEB-Challenges- and-Responses.pdf	Thank you for your feedback. Discounting is mentioned in 3.3.1.4, but has not been a focus of the assessment.
ŀ	1033	iomas pecieicų oner	Deigluiii	Government of Antigua and	INO	CII. 3	25	233		301		nas not been a locus of the assessment.
			Antigua and	Barbuda - Ministry of Tourism			23		25	626	Literature on VALUES should include perception and culture as both can	The focus of this chapter is on valuation. This question may be addressed
	1045	Adelle Blair	Barbuda	and Investment	Yes	Ch. 3		626			influence values (Jain, U (2012), Pascual, U. et al (2017)	in Chapter 2 (values).
ŀ	3.3						25	020				
				Government of Antigua and		1	-				Literature on policy and decision-making should include governance.	
			Antigua and	Barbuda - Ministry of Tourism							Brunner et al (2005) referred to it as adaptive governance as it integrates	
1	1046	Adelle Blair	Barbuda	and Investment	Yes	Ch. 3		628	25	628	science, policy and decision-making. This aspect should be broadened.	Governance is discussed in detail in Chapters 4, 5 and 6.
ľ							28					·
- [				Government of Antigua and		1	]		28	665	The inclusion criteria is not clear. What is the methodology for choosing	
			Antigua and	Barbuda - Ministry of Tourism		1	]		28		150 hits? Was the search restricted to the English language? Adams, R. J.	The entire detailed procedure with keywords, scoping criteria is now
J	1047	Adelle Blair	Barbuda	and Investment	Yes	Ch. 3		665			et al (2016) and their references note robust methodologies.	spelled out in the Data Management Reports
			•	•		•						· · · ·

_					,					T	T
1182	Meredith Root-Bernstein	Chile	France; INRA AgroParisTech, Paris, France; Institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and Sustainability	No	Ch. 3	4	76	4	79	I am not familiar with a use of the term valuation that would normally include all kinds of interventions and actions. Are you suggesting that in Chapters 1 and 2 these are all included in the term 'valuation'? That was not clear to me.	valuation is now defined more sharply
			France; INRA AgroParisTech, Paris, France; Institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and			5				I am not familiar with this controversy or concept. It was explained or referred to very vaguely in previous chapters, I think, but never clarified.	
1183	Meredith Root-Bernstein	Chile	Sustainability	No	Ch. 3		292	5	295	It would be helpful to do so here.	This is the topic of section 3.3.4.1
1184	Meredith Root-Bernstein	Chile	Musée de l'Homme, Paris, France; INRA AgroParisTech, Paris, France; Institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and Sustainability	No	Ch. 3			25	616	Figure 3.3. This is a very interesting and valuable mapping in itself. But aren't you creating a big problem for yourself by including things like participant observation and ethnography in your systematic review? Methods and fields such as those can, of course, say something about values, and its nice that you acknowedge that. But reporting on values is not their primary aim nor do they usually use terminology like "values" and "valuation" except in some specific theoretical work addressing those subjects. How will you deal with this?	This figure has been removed.
1105	Maradith Root Baratain	Chilo	France; INRA AgroParisTech, Paris, France; Institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and	No	Ch 3			34	016	This is an interesting approach, but isn't it relevant to understand what kind of choice or decision situation the method is, or is intended, to be used for? That is, what kind of valuation output is needed to form a	This comment is nestinged for shapter 4
1185	Meredith Root-Bernstein	Chile	Sustainability	No	Ch. 3	37		34	816	suitable decision-making input?	This comment is pertinent for chapter 4.
1186	Meredith Root-Bernstein	Chile	Musée de l'Homme, Paris, France; INRA AgroParisTech, Paris, France; Institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and Sustainability	No	Ch. 3	57	879	37	861	I think will be critical for this discussion to clearly distinguish between valuation mechanisms and decision-making mechanisms. There was an example in Chapter 2 where a set of community rituals and interactions in an indigenous group was claimed to be a valuation method. It was not clear to me that value was assessed, measured or assigned during the described activities. Rather, a collective decision was taken on how to act in a particular situation. If valuation refers to all decisions, collective practices, or actions, then it becomes meaningless. It seems to me that valuation procedures may be most relevant to market economies: according to your history of valuation methods, they started in contexts where spending or investment was the issue in question. What does it mean for valuation to exist outside market economies?	Thanks for the valuable feedback. This point is well taken and we hope we have addressed it partially in 3.3.1.5 where we point out to the specific way an IPLC activity or practice might be considered a valuation practice versus another process (such as decision making or valuing itself). We note that, in IPLC contexts, these processes are sometimes done simultaneously and not in the linear way suggested in valuation processes. We have also expanded the introduction to talk to a much longer history that goes further back than valuation for markets. (3.1.3)
1187	Meredith Root-Bernstein	Chile	France; INRA Agro Paris Tech, Paris, France; Institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and Sustainability	No	Ch. 3			69	1554	this last section looks like it will be genuinely useful and interesting. Congratulations. I am perplexed however as to what this has to do with the IPBES framework proposed in Chapter 2 (Figures 2.17-2.18-2.19). If we were going to use that framework to assess values, which of these methods follows or supports it?	Thanks for the valuable feedback. Hopefully the revised section 3.4 (Findings) makes this clear.
1206	Berta Martín López	Germany, Mexico	Group from UNAM in Leuphana University	No	Ch. 3	General comment (GC)				Chapter 3 is assessing valuation methods and to do so, authors developed a set of excellent questions to guide the chapter. I think that to answer these questions is essential to advance knowledge on what methods better suits in particular social-ecological and political contexts, what methods reveal particular values and NCP that are expressed by certain voices and what methods are best suitable for certain temporal, spatial and goernance scales. Nevertheless, I can see some room from improvement in the chapter and its analytical framework, that I will detail in my four major comments below.	Noted, thank you.
1207	Berta Martín López	Germany, Mexico	Group from UNAM in Leuphana University	No	Ch. 3	General comment (GC)				1. it is not clear how the analytical framework used to assess methods link with the questions the chapter aims to answer	Thanks for the valuable feedback. This is now explained in section 3.1(Introduction) and specifically in Table 3.1 (Approaches used to generate evidence)

						General				2. Lack of focus on NCP. I can barely find NCP in the chapter despite	
						comment				methods often value nature's components and NCP. In this sense, I do not	
						(GC)				only suggest to use the generalizing perspective (as it is briefly included in	
										the chapter), but also I suggest that authors bring the context-specific	
										perspective of NCP to understand how IPLCs value NCP as bundles that	
			Group from UNAM in Leuphana							follow the logic of their lived experiences (e.g. hunting, fishing, farming,	
120	8 Berta Martín López	Germany, Mexico		No	Ch. 3					spiritual experiences)	NCPs have now been referred to throughout the chapter.
						General					6
						comment					
						(GC)				3. Despite the efforts to bring IPLC perspectives and ILK, I think that the	
						(00)				current methodological approach to assess valuation methods is not the	
										most appropiate for bringing ILK and IPLCs' perspectives. I am suggesting	
										here few ways to enhance the inclusion of ILK and IPLCs in the chapter.	
										First, I would suggest that authors review the rich ILK dialogues already	
										conducted for the pollination, land degradation, regional and global	
										assessments. At least in the ECA assessment, we found many narratives by	
										which IPLCs expressed the importance of nature and NCP and revealed	
										values. Second, I would suggest that authors bring the context-specific	
										perspective of NCP to understand how IPLCs value NCP as bundles that	
										follow the logic of their lived experiences (e.g. hunting, fishing, farming,	
										spiritual experiences) - This can be done through the ILK dialogues but also through the rich literature on IPLC (e.g. review ethnographical and	
										anthropological studies that do not necessarily used the word 'value' or	
										'valuation' in their papers. Third, look at less-conventional methods that	
										reveal the values of nature and NCP, such as art-based methods (poetry,	
										tales, songs, paintings, etc.). Finally, by reviewing literature on different	
										indigenous peoples and their connection with nature. E.g. Maori, Inuit,	
										Quechua, Aymara, Kuna-Yala, Mapuche, Emberás, Kwicha, Tsimanes	
			Group from UNAM in Leuphana								Excellent suggestions. We agree and performed changes in accordance to
120	9 Berta Martín López	Germany, Mexico	University	No	Ch. 3						the reviewer suggestions.
						General					
						comment				4. The chapter will benefit from clear definitions of multiple concepts	
						(GC)				(e.g. elicitation of values, recognizing values, assessing values, valuation	
			Group from UNAM in Leuphana							cycle, value types, value justifications, value indicators, value frames).	These definitions have been defined in Chapter 2. The section has been
121	0 Berta Martín López	Germany, Mexico	· ·	No	Ch. 3					Please use as less jargon as possible throughout the chapter.	rewritten and the use of the terms in Chapter 3 has improved.
			Group from UNAM in Leuphana			4					F
121	1 Berta Martín López	Germany, Mexico	· ·	No	Ch. 3		66	5	97	Please back up the statements of this section with references.	the SOD is now fully backed up by citations.
	·		,			5				References in table. Add more terms/concepts in the table that are	, , ,
										needed to understand this chapter (e.g. elicitation of values, recognizing	
			Group from UNAM in Leuphana							values, assessing values, valuation cycle, value types, value justifications,	
121	2 Berta Martín López	Germany, Mexico		No	Ch. 3		97	5	97	value indicators, value frames)	This table has been removed.
	·					4				This sentence clarifies what is not considered valuation methods, but I	
										think that it also needs to clarify upfront what is considered valuation	
										methods and give examples for them. I am saying this because later in the	
								4	79	chapter, I was wondering why 'knowledge' is considered a method per se.	
			Group from UNAM in Leuphana							So here it is needed an indication on how different epistomologies	
121	3 Berta Martín López	Germany, Mexico		No	Ch. 3		77			understand 'valuation methods'.	valuation is now defined more sharply
1		23,,				4	,,			After presenting the results' - reading this first section is not clear what	
			Group from UNAM in Leuphana			1				the reader might find as a result. Please bring upfront the type of results	Thanks for the valuable feedback. Hopefully the revised section 3.4
121	4 Berta Martín López	Germany, Mexico	· ·	No	Ch. 3		87	4	87	this chapter will provide to its readers	(Findings) makes this clear.
121		Germany, IVICATED			5 5	6	37	t ·			y
						ا آ				Safe operating space' is a label mainly used for the planetary boundaries.	
								6	145	To me framing this question with the 'safe operating space' can be	
			Group from UNAM in Leuphana					ľ	5	confusing for the readers. I would suggest either to clearly explain this in	
121	5 Berta Martín López	Germany, Mexico		No	Ch. 3		145			the text below the question or (better) to avoid this phrasing.	text changed
121	5 BCi ta Martin Lopez	Germany, Mexico	O I I VEI SILY	140	CII. J	7	143	<del>                                     </del>	<u> </u>		cext changed
						1				Please align figure 3.1. with the concepts presented in the table above	
										(the one with the definitions of key concepts) if possible with the	
										questions of the chapter. As it is now, it is hard to see the connection of	
										this figure with the entry part of the chapter. What do you mean by goals	
										and by principles? What do you mean by valuation cycle? Capacities of	
			Construction of the state of th							who?	
	S Barta Martín I (a.e.		Group from UNAM in Leuphana		Ch 2		4.55	-	470	As it is now, it is difficult to see how the key concepts and conceptual	The Course has been assessed
121	6 Berta Martín López	Germany, Mexico	University	No	Ch. 3	1	169	/	170	approach align and how these relate with the key questions.	The figure has been removed

						8				I think that this section and the table do not make justice with all the	
										valuation methods developed in the last years that are non-economic. I	
										might see that these non-monetary methods (wonderfully defined in	
										some of the papers from Jacobs) are already conventional in valuation	
								10	236	and therefore they should be included here too as mainstreaming ways of	
								10	230	conducting nature and NCP valuation by scientists. The fact that non-	
										monetary valuation methods are not included upfront in the chapter	
			Group from UNAM in Leuphana							already creates some asymmetries between monetary and non-monetary	
1217	Berta Martín López	Germany, Mexico	University	No	Ch. 3		176			valuation methods.	Section 3.3.1 addresses this in the revised version.
			Group from UNAM in Leuphana			11				Overall absence of socio-cultural perspectives or non-monetary	Thanks for the valuable feedback. Hopefully the revised section 3.4
1218	Berta Martín López	Germany, Mexico	University	No	Ch. 3		256	13	328	approaches of valuation in this section, as well as former ones.	(Findings) makes this clear.
	·					13				Many literature is missing from previous assessments on valuation	
			Group from UNAM in Leuphana			13		13	339	methods: e.g. Jacobs et al. (2018); Harrison et al. (2018); Dunford et al.	The mentioned studies have been now added and the section modified.
1210	Berta Martín López	Germany, Mexico	University	NI-	Ch. 3		329	15	333	(2018). All in Ecos Serv	We thank the reviewer for this comment.
1219	Bei ta iviai tiii Lopez	Germany, Mexico		INU	CII. 3	4.4	329				
1			Group from UNAM in Leuphana			14		14	352	Should not the focus align with the questions that represent the outline	Thanks for the valuable feedback. Hopefully the revised section 3.4
1220	Berta Martín López	Germany, Mexico	University	No	Ch. 3		350			of the chapter?	(Findings) makes this clear.
						14				I do not see how these paragraphs contribute to the heading of this	
			Group from UNAM in Leuphana							section: lessons learned. These paragraphs are more focused on	The whole SOD has been restructured and we hope that now sections do
1221	Berta Martín López	Germany, Mexico	University	No	Ch. 3		348	14	363	presenting the methodological approach used in the chapter.	match up with the text below them.
						15					
				Ì						I do not understand how 'the analysis of these goals, principles,	
				Ì						capacities and applications of valuation methods to provide guidance for	
				Ì				15	388	selection of methods; align with the research questions presented above.	
								15	388	In addition, here, and along the text, it is not clear what do you mean by	
				Ì						policy goals (which are these?), ethical and operational principles (which	
			Group from UNAM in Leuphana							are these?) and different stages in policy and decision-making.	Thanks for the valuable feedback. The entire section 3.2 has been
1222	Berta Martín López	Germany, Mexico	University	No	Ch. 3		381			ν το	rewritten and the topics and criteria simplified
						16					This figure has been removed and replaced with one in which the
			Group from UNAM in Leuphana							In Figure 3.2. and the text, I think the chapter will benefit from aligning	questions do align much better with a reconceptualized framework. See
1223	Berta Martín López	Germany, Mexico	University	No	Ch. 3		389	16	389	the conceptual framework with the guiding questions.	figure 3.1 (Defining the scope of chapter 3)
1223	Del ta martin Edper	Germany, mexico	Group from UNAM in Leuphana	110	Cin 5	16	505			Figure 3.2. Why 'natural assets'? How do these differ from NCP? Why not	inguite 512 (Bellining the scope of chapter 511)
1224	Berta Martín López	Germany, Mexico	University	No	Ch. 3	10	389	16	389	NCP to align with IPBES conceptual framework?	This figure has been removed as have references to nature assets.
1224	Berta Martin Lopez	Germany, Mexico		NO	Cn. 3	1.0	389			· · · · · · · · · · · · · · · · · · ·	inis ligure has been removed as have references to hature assets.
1			Group from UNAM in Leuphana			16				In Figure 3.2. and the text, Is there any connection between goals and	
1225	Berta Martín López	Germany, Mexico	University	No	Ch. 3		389	16	389	principles? Why these two?	This figure has been removed.
						18					
											All the conceptual elements in figure 3.2 (purposes, requirements, steps
											in the valuation cycle, method typologies, capacities and shortcomings)
								18	460	Name and explain the steps	are key to this assessment and specifically to the Chapter 3 analysis. They
								-			are reflected in the Chapter 3 assessment questions, the evidence
			G 6 11818841 1 1								· · · · · · · · · · · · · · · · · · ·
1			Group from UNAM in Leuphana								database, the analysis criteria and the preliminary key messages. The
1226	Berta Martín López	Germany, Mexico	University	No	Ch. 3		460				figure has been removed and the explanations improved.
			Group from UNAM in Leuphana			21				How the meta-analysis will be conducted when you will presumably have	Thanks for the valuable feedback. Hopefully the revised section 3.4
1227	Berta Martín López	Germany, Mexico	University	No	Ch. 3		525	21	530	different units of analysis and different metrics?	(Findings) makes this clear.
		1			I	23					The SOD now makes a very clear distinction about a) valuation methods
					1						that have been applied in IPLC contexts; and those that are IPLC methods
					1					There are methods that are not strictly ILK but consider IPLC and ILK. I	and approaches. We believe that this distinction is necessary. There are
				Ì				23	566	would suggest that you make this difference.	and approaches. We believe that this distinction is necessary. There are also methods that are non-IPLC but adhere to IPLC principles and values.
			Crown from UNIAAA's Lawy	Ì							
	L		Group from UNAM in Leuphana	l	l., .						Section 3.3 (Valuation of Nature- State of the art) address these
1228	Berta Martín López	Germany, Mexico	University	NO	Ch. 3	1	566				distinctions substantially.
			Group from UNAM in Leuphana	Ì		23					Thanks for the valuable feedback. Hopefully the revised section 3.5
1229	Berta Martín López	Germany, Mexico	University	No	Ch. 3		569	23	569	Explain this further	(Future outlook for valuation) makes this clear.
		]			1	25					Thanks for the valuable feedback. This is a very important point. We have
					1						attempted throughout the chapter to IPLC methods and IPLC knowledge
					1					Methods based on knowledge require more explanation since, to me,	
				Ì				25	616	these are not methods but the knowledge considered and used. What do	(i.e. ILK). Expert knowledge is knowledge held by those with the most
				Ì					010	you mean by expert knowledge? Is ILK not considered expert knowledge?	experience with that knowledge, hence, even among ILK knowledge
				Ì						you mean by expert knowledge: 131Ek not considered expert knowledge?	holders, there is a gradient from novice to expert. This is discussed to
			Group from UNAM in Leuphana	Ì	1.						some extent in section 3.4 (Findings) when we talk about the reliability of
1230	Berta Martín López	Germany, Mexico		No	Ch. 3		616				the valuation outcomes.
			Group from UNAM in Leuphana			25				Does NATURE include NCP and ecosystem services? Please clarify where	
1231	Berta Martín López	Germany, Mexico	University	No	Ch. 3	<u> </u>	624	25	628	you are considering NCP and ES literature in the figure	This figure has been removed.
						26					Thank you for your feedback. The scope of CH3 is valuation in relation to
					1			l	l	L.,	nature. As an example valuation methods are also used to understand
			Group from UNAM in Leuphana		1			26	639	Why components of nature goes in the search string of values?	· ·
		1	Group Ironi OlyAlvi III Leuphana	1	ı	1					choices between consumer brands of particular products. Such
1222	Rerta Martín Lónes	Germany Movies	University	No	Ch 2						
1232	Berta Martín López	Germany, Mexico	University	No	Ch. 3	26	639			Front and a few constants of the state of th	applications are out of scope of the values assessment.
	·		Group from UNAM in Leuphana			36		26	644	For the sake of transparency, it would have been excellent to see the	·
	Berta Martín López Berta Martín López	Germany, Mexico Germany, Mexico	Group from UNAM in Leuphana	No No	Ch. 3	36	639	26	644	For the sake of transparency, it would have been excellent to see the search strings to evaluate the systematic review process.	Search strings are presented on the Data Management Reports

1234 Berta Martín López 1235 Berta Martín López	Germany, Mexico	Group from UNAM in Leuphana University Group from UNAM in Leuphana University	No No	Ch. 3	25	624	26 26	650 648	Will you take advantage of the different languages of authors to conduct a review beyond English. I know that the latin Amrican community is very strong in valuation of ES and NCP, and including more than English would make a great step to go beyond 'conventional' methods.  For the sake of transparency, it would have been excellent to see the search strings to evaluate the systematic review process.	the state of the art reviews on method family have captured some non- english literature, notebly Spanish, but no specific multi-lingual serches were performed. we recognise this is a shortcoming of the chapter.  Search strings are presented on the Data Management Reports
		Group from UNAM in Leuphana	No		27			554	Is this figure relevant for assessing valuation methods? If authors believe thathis is essential, then it is important to clarify how did you decide the discipline of the papers? Won't be more accurate the disciplines of the	The key words search is from WoS and not restricted to specific journals.
1236 Berta Martín López		University  Group from UNAM in Leuphana	NO	Ch. 3	28	661	29	661 668	journals (according to WoS or Scopus) where the papers were published?  What about OPERAs and OpenNESS?	Explanation now in section 3.2.3
1237 Berta Martín López	Germany, Mexico	University	No	Ch. 3	31	663			How do these principles align with the questions? I would expect some	OpenNESS and operas publications have been included in the literature.
1238 Berta Martín López	Germany, Mexico	Group from UNAM in Leuphana University	No	Ch. 3	34	773	33	789 818	connection  I can see this information later in the table but an explanation here upfront will help to undersand the purpose of this  Please explain the logic behind the connections between principles,	Thanks for the valuable feedback. The link between assessment questions and the topics and criteria for the review is explaned in table 3.1 & table 3.3  The table table that this comment was refering to has now been removed, and text has changed significantly, although we did not include an
1239 Berta Martín López	Germany, Mexico	Group from UNAM in Leuphana University	No	Ch. 3		816	33	010	criterion and questions	explicit definition of these terms we believe that the text is now self explanatory.
1240 Berta Martín López 1241 Berta Martín López	Germany, Mexico	Group from UNAM in Leuphana University Group from UNAM in Leuphana University	No No	Ch. 3 Ch. 3	38 44	81 <u>9</u>	38	895 891	First, I would suggest that authors review the rich ILK dialogues already conducted for the pollination, land degradation, regional and global assessments. At least in the ECA assessment, we found many narratives by which IPLCs expressed the importance of nature and NCP and revealed values. Second, I would suggest that authors bring the context-specific perspective of NCP to understand how IPLCs value NCP as bundles that follow the logic of their lived experiences (e.g. hunting, fishing, farming, spiritual experiences). This can be done through the ILK dialogues but also through the rich literature on IPLC (e.g. review ethnographical and anthropological studies that do not necessarily used the word 'value' or 'valuation' in their papers. Third, look at less-conventional methods that reveal the values of nature and NCP, such as art-based methods (poetry, tales, songs, paintings, etc.). Finally, by reviewing literature on different indigenous peoples and their connection with nature. E.g. Maori, Inuit, Quechua, Aymara, Kuna-Yala, Mapuche, Emberás, Kwicha, Tsimanes  Which are ILK Value frames? How will you uncover them?	This was an excellent suggestion. We reviewd all the ILK dialogues that IPBES has ever conducted. We notice that there is a lot of reference made to the importance of nature for IPLC (this is a Ch 2 topic). There was no reference, however, to valuation methos and approaches: i.e., how to IPLC assess and evaluate and measure the process of valuing or that which is valued? This latter is the scope of Ch 3. We find that there is very little work that has been done to study and understand IPLC valuation methods and approaches  Thanks for the valuable feedback. Section 3.2 (Rationale and Methods used in Chapter 3) describes the multiple ways that we have evidenced valuation methods including IPLC valuation.
1242 Berta Martín López	Germany, Mexico	Group from UNAM in Leuphana University	No	Ch. 3	44	1001	45	1002	Verifiers of Criterion 1 so far come very much from the western-science approach. I would also encourage authors to actively search for verifiers from ILK perspectives on efficient use of ES, e.g. living in harmony with mother earth.	There is a full set of verifiers co-developed for this and discussed now that address IPLC Principles of reciprocity, respect and others. These were developed with input from the ILK Dialogues 1 and 2 that were conducted as part of the Values Assessment in which 2 to 3 chapter authors participated.
1243 Berta Martín López	Germany, Mexico	Group from UNAM in Leuphana University	No	Ch. 3	44	1001	45	1002	Same comment than aboveILK-persepectives for wellbeing understandings such as living in harmony with mother earth, Sumak Kawsay	IPLC perspectives and ILK were now more thoroughly included in the SOD. Specifically, see Box 3.2 on conceptualizing evidence from an IPLC perspective, see 3.3.1.5 on Valuation practice in IPLC contexts and see section 3.5 where we discuss how the growing field of Indigenous Methodologies can contribute to developing valuation methods that are congruent with IPLC Principles and values.
1244 Berta Martín López	Germany, Mexico	Group from UNAM in Leuphana University	No	Ch. 3	44	1099	45	1099	Which type of knowledges are considered for the coding? Here, knowledge is not considered a method while above in figure 3.3, it was. PLease clarify.	There is a full set of verifiers co-developed for this and discussed now

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							General comment				Thank you for the effort in puuting together this draft. To be coherent	
							(GC)				with prior IPBES work and equally innovative, why do you not use the	
							, ,				NCP framing (the generalizing perspective and the context-specific	
											perspective) as structure for your chapter? While you were making an	
											effort to include ILK and non-western perspectives, if nevertheless felt very western and convential by starting with economic valuations, and	
											only vaguely talking about a view (mainly Maori) ILK sources. A stronger	
											emphasis on context-specific perspectives could counter the false	
											dichotomy of generalizing perspectives = western and generalizing	
											perspectives = ILK, as it would offer you also the possibility to include art- based, spiritual, ecotherapy methods which are very commonin LC in	
											western countries. A further way to highlight the differences in those two	
											areas (context-specific/generalizing perspective) could be a paragraph or	Thanks for the valuable feedback. While we have not used the
											table at the end of each method to highlight limitations, pitfalls and benefits of those methods - e.g. representativity, but also the non-neutral	generalizing perspective and context specific perspective as the
											worldviews those methodologies come from such as the discussion of	foundation for guiding the structure of the chapter, we believe that the comments raised here have been addressed in the SOD. By opening up
											nature capital (see Martinez-Aliers work). Further, while the time frame of	what we mean by valuation methods and going beyond the standard
											valuation in incorporated, a discussion on the legacy effect of land-	classifications of methods that there are (economic/non-economic;
											use/landscape changes is missing, i.e. when values are attributed through reminising to a landscape that is no longer there - and hence show up in	market-based/non-market based and even sociocultural methods), we
											the valuation as high - but a generation later, the values might adjust to	believe that we have been able to include more valuation approaches such as those of ecolinguistics, use of art and theater, rituals etc. We have
				Group from UNAM in Leuphana							the distrubed landscape and hence be different.	not included ecotherapy as a valuation method - we understand it as a
12	45 N	Maraja Riechers	Germany, Mexico	University	No	Ch. 3	C'					process of valuing, which is not the scope of Ch 3.
							General comment				Volumenting dialogs in table to a second second second second	The ILK dialogues bring together IPLC leaders and community members
							(GC)				You mention dialogs in which you present your results to indigenous elders. Will this only be indigenous elders or also young indigenous	selected to represent their communities. They have limited number of people who can participate and a geographical representation to make.
											peoples as well as man and woman? I think that such dialogs should	They are not able to address all issues of representativeness as you
				Group from UNAM in Leuphana							involve a diverse set of indigenous peoples from different ages and	suggest. We agree that they should, but logistically, it has not been
12	46 E	Pavid Lam	Germany, Mexico	University	No	Ch. 3	General		1		genders.	possible for them to be.
							comment					
							(GC)				What does it work and what does not. Narrow definitions. Language	
				Group from UNAM in Leuphana							problem exclusion	
12	47 L	oni Hensler	Germany, Mexico	University	No	Ch. 3						We do not understand what the reviewer means here.
							General .					
							comment (GC)					Thanks for the valuable feedback. Chapter 3 reviews valuation from
				Group from UNAM in Leuphana			(30)				Many definitions unclear. by starting with economics, the whole chapter	multiple disciplines. The revised section 3.3 (Valuation of Nature-State of
12	48 S	teffen Pabst	Germany, Mexico		No	Ch. 3					will look economically focussed	the art) explains this and 3.4 (Findings) also addresses plural aspects of valuation.
F	Ť		,, - , -	,			56				Hello and congratulations for the effort. In table 3.13 it would be nice to	
1.				Group from UNAM in Leuphana	l				56	1247	see specific successfull examples of the valuation method applied in	Thanks for the valuable feedback. Hopefully the revised section 3.1
12	49 P	atricia Santillán Carvantes	Germany, Mexico	University	No	Ch. 3	General	1246	-		different contexts and scales.	(Introduction) and 3.4 (Findings) make this clear.
							General				You may be interested in the different valuation methods used linked to	
											the different values of trees and forests, e.g. their landscape aesthetic value or the value of other ecosystem services provided by trees/forests.	
											Some of the most common ones are 'CAVAT', 'Helliwell' and 'i-Tree'. Here	
											is some literature on this which you may find useful: a) Doick et al., 2018.	
											CAVAT (Capital Asset Value for Amenity Trees): valuing amenity trees as public assets.	
											https://www.researchgate.net/publication/324361766 CAVAT Capital_	
											Asset_Value_for_Amenity_Trees_valuing_amenity_trees_as_public_assets	
											. b) Sarajev, 2008. Street tree valuation systems. Forestry Commission	
											Research Note 008. file:///C:/Users/Acer/AppData/Local/Packages/Microsoft.MicrosoftEdge_	
12	71 6	usanne Raum	United Kingdom	Centre for Environmental Policy, Imperial College London	No	Ch. 3					8wekyb3d8bbwe/TempState/Downloads/FCRN008%20(1).pdf.	These papers - if adressing valuation of nature for decision making - have been captured in the corpus
13	, 1 3	asame naum	Onited Kingdolli	i oney, imperial conege conduit	110	C11. 3	General					ocen captarea in the corpus
											The following report, especially the list of references, may be useful for	
											this review: O'Brien et al., 2017. Review of methods for integrating	
											cultural ecosystem services, values and benefits in forestry.	
				Centre for Environmental							file:///C:/Users/Acer/AppData/Local/Packages/Microsoft.MicrosoftEdge_ 8wekyb3d8bbwe/TempState/Downloads/FR OBrien et al Review of m	These papers - if adressing valuation of nature for decision making - have
13	72 S	usanne Raum	United Kingdom	Policy, Imperial College London	No	Ch. 3					ethods_for_integrating_cultural_ecosystem_services_2017%20(1).pdf	been captured in the corpus

1373 Su	usanne Raum	United Kingdom	Centre for Environmental Policy, Imperial College London	No (	Ch. 3	General		In British forestry, there has been a history of attempting to substantiate that various non-marketed benefits provided by forests/woodland represent an important part of forestry activities to justify public funds for forestry. Building on two forest cost-benefit analyses (HM Treasury, 1972; NAO, 1986), most of the earlier valuation studies focused on the recreational value of woodlands (Scarpa, 2003), the value of forests as a carbon sink (Clinch, 2000; Bateman and Lovett, 2000) and their importance for biodiversity (White and Lovett, 1999). The most comprehensive of these early works, undertaken by Willis et al. (2003), aimed at providing empirical monetary estimates for the values of recreation, landscape amenity, biodiversity, carbon sequestration, pollution absorption, water supply and quality, and archaeological artefacts in forests.	Thank you for your feedback. The topics are included in the new version of the chapter
						General - reference s for above text, in case you want to use these			
1374 St	usanne Raum	United Kingdom	Centre for Environmental Policy, Imperial College London	No (	Ch. 3	General -		BATEMAN, I. J. & LOVETT, A. A. 2000. Estimating and valuing the carbon sequestered in softwood and hardwood trees, timber products and forest soils in Wales. Journal of Environmental Management, 60, 301-323.	While we have not cited this reference specifically, we note in the Introduction to the chapter and the Method Family Nature-based valuation that quantifying nature has been a very prominent field in nature valuation.
						reference s for above text, in case you want to use these		SCARPA, R. 2003. Social and Environmental Benefits of Forestry. THE RECREATION VALUE OF WOODLANDS. Newcastle: Centre for Research in Environmental Appraisal & Management, University of Newcastle.	Thank you for your feedback. The topic is included in the new version of
1375 Su	usanne Raum	United Kingdom	Centre for Environmental Policy, Imperial College London	No (	Ch. 3				the chapter. It has not been possible to go into specific case studies in Chapter 3
			,, , , , , , , , , , , , , , , , , , , ,			General - reference s for above text, in case you want to use these		CLINCH, J. P. 2000. Assessing the social efficiency of temperate-zone	Thank you for your feedback. The topic is included in the new version of
1376 St	usanne Raum	United Kingdom	Centre for Environmental Policy, Imperial College London	No (	Ch. 3			commercial forestry programmes: Ireland as a case study. Forest Policy and Economics, 1, 225-241.	the chapter. It has not been possible to go into specific case studies in Chapter 3

1377	Susanne Raum	United Kingdom	Centre for Environmental Policy, Imperial College London	No	Ch. 3	General - reference s for above text, in case you want to use these		BATEMAN, I. J. & LOVETT, A. A. 2000. Estimating and valuing the carbon sequestered in softwood and hardwood trees, timber products and forest soils in Wales. Journal of Environmental Management, 60, 301-323.	While we have not cited this reference specifically, we note in the Introduction to the chapter and the Method Family Nature-based valuation that quantifying nature has been a very prominent field in nature valuation.
			Centre for Environmental			reference s for above text, in case you want to use these		WHITE, P. C. L. & LOVETT, J. C. 1999. Public preferences and willingness	Thank you for your feedback. The topic is included in the new version of the chapter. It has not been possible to go into specific case studies in
	Susanne Raum Susanne Raum		Policy, Imperial College London  Centre for Environmental Policy, Imperial College London			General - reference s for above text, in case you want to use these		-to-pay for nature conservation. Environmental management, 55, 1-13.  WILLIS, K. G., GARROD, G., SCARPA, R., POWE, N., LOVETT, A., BATEMAN, I. J., HANLEY, N. & MACMILLAN, D. C. 2003. The social and environmental benefits of forests in Great Britain. Edinburgh.	While we have not cited this reference specifically, we note in the Introduction to the chapter and the Method Family Nature-based valuation that quantifying nature has been a very prominent field in nature valuation.
	Susanne Raum		Centre for Environmental Policy, Imperial College London			General - reference s for above text, in case you want to use these		NAO 1986. Review of Forestry Commission Objectives and Achievements London: Her Majesty's Stationery Office.	

		ı	T								
						General -					
						reference					
						s for					
						above					
						text, in					
						case you				HM TREASURY 1972. Forestry in Great Britain: an Interdepartmental	
						want to				Cost/Benefit Study London: Her Majesty's Stationery Office.	
						use these				Cost/ benefit study London. Her Majesty's stationery office.	
											Thank you for your feedback. The topic is included in the new version of
			Centre for Environmental								the chapter. It has not been possible to go into specific case studies in
1381	Susanne Raum	United Kingdom	Policy, Imperial College London	No	Ch. 3						Chapter 3
		0	, , , ,			General					
			Contro for Faultanes antal			General				There has been a lat of work on interesting different values and different	There is for the columbia foodback Continue 2.2.1.4 is about interesting
			Centre for Environmental							There has been a lot of work on integrating different values and different	Thanks for the valuable feedback. Section 3.3.1.4 is about integrative
1382	Susanne Raum	United Kingdom	Policy, Imperial College London	No	Ch. 3					valuation methods recently. You may want to add a subsection on this.	methods
				I		General		1			
1				I		(either		1		Land the sector Plants are second to a select the sector to the second to the sector t	
1				I		ch. 3 or		1		I would have also liked to see something related to how best to conduct a	
1				I		chp 4)		1		valuation project to make it successful and to have an impact. There is	
1				I		crip 4)		1		relatively little literature on this, but you may want to look at: a) Raum et	
				1						al., 2019. Achieving impact from ecosystem assessment and valuation of	
				1						urban greenspace: The case of i-Tree Eco in Great Britain. Apologies for	
1				I		1		1		suggesting my/our own work, but I thought it might be of use. Also, b)	
										Edwards, D. M., & Meagher, L. R. (2019). A framework for evaluating	
			Centre for Environmental							forestry research: understanding and demonstrating impact to inform	These papers - if adressing valuation of nature for decision making - have
1384	Susanne Raum	United Kingdom	Policy, Imperial College London	No	Ch. 3					future action. Forest Policy and Economics In press.	been captured in the corpus
			Te Ipukarea Society (TIS) Cook			10		10	292	Insert "marine and" between "or" and "land" There is only reference to	
1419	Teina Mackenzie	Cook Islands	Islands Environmental NGO	No	Ch. 3		292	10	232	terrestrial (land)	Noted, the text has been reviewed.
			Galway-Mayo Institute of			11				"brief description of the current understanding of valuation" - this is	
1436	Neville H McClenaghan	Ireland	Technology (GMIT)	No	Ch. 3		255	11	255	important.	No further action required.
1.50	Trettile i i incerenagnan	ii cidiid	reamonegy (armin)		CIII S		200		233		
										Overall: Markets for goods and services based on nature (natural	Thanks for the valuable feedback. Using markets for valuation is included
	Finnish National IPBES panel		Finnish national IPBES panel							resources, tourism etc.) should be included as a valuation. They provide a	
1518	(Finland)	Finland	(Luontopaneeli)	No	Ch. 3					direct indication of the instrumental values.	3: behaviour-based valuation
	Finnish National IPBES panel		Finnish national IPBES panel							Overall: the concepts should be better in line with Ch. 1 and Ch. 2, e.g.	we have mainly closely followed IPBES classifications and have also
1519	(Finland)	Finland	(Luontopaneeli)	No	Ch. 3					concerning the classification of values.	alligned with some of the new concepts presented in CH2
	Finnish National IPBES panel		Finnish national IPBES panel			1				A good one, different methods and methodologies serve different	
1520	(Finland)	Finland	(Luontopaneeli)	No	Ch. 3		7	1	7	purposes (and have different costs).	Thanks, no futher action required.
1320	Finnish National IPBES panel	· ·····aira	Finnish national IPBES panel		CIII S	11		-	<u> </u>	Also e.g. spatial relation to values (see Ch. 2): Horne, P., Boxall, P.,	Thanks for the valuable feedback. Hopefully the revised section 3.4
4534		Et al and			Cl. 2	11	250	11	254	Adamowicz, W.L. (2007).	
1521	(Finland)	Finland	(Luontopaneeli)	No	Ch. 3	l	250				(Findings) makes this clear.
						24				The figure is somewhat confusing - revealed preference is in social	
	Finnish National IPBES panel		Finnish national IPBES panel							preference, but travel cost method (which is revealed preference	
1522	(Finland)	Finland	(Luontopaneeli)	No	Ch. 3		616	24	616	method) is in quantitive?	This figure has been removed.
	Finnish National IPBES panel		Finnish national IPBES panel			60				The assessment of literature introduced in previous pages sounds very	9
1522	(Finland)	Finland	(Luontopaneeli)	No	Ch. 3		1316	60	1316	good!	Thanks!
1323	,anaj	····iana	(caontopuncen)		511. 5	66	1310	<del>                                     </del>	1	0	Thurston,
				1		00				An important component of ILK inclusion is to focus on already existing	
				1				l		conservation that is taking place on the grounds of local and indigeneous	
				I		1		1		knowledge. The values are already getting generated without	Thanks for the valuable feedback. Some of what is suggested here is
				I		1		1			==
				I		1		1		mainstreaming these resources into policy making. One such example is	within the scope of Ch 3 and we have attended to it. In Section 3.3.1.5
				1						the sacred groves, that are small and fragmented landscapes that are	we note that IPLC conduct valuation for their own decision making that
				I		1		1		conserved on religious grounds and are capable of sustaining more	is not ncessarily related to policy making or decision-making beyond
				I		1		1		diverse species than protected forests. It is important to bring them	their territories. We note this as a unique characteristic of IPLC valuation
				I		1		1		under valuation exercise, and therefore into national accounting	methods that calls us to refrain from suggesting that all valuation
1556	Kavita Sardana	India	TERI SAS	No	Ch. 3		1472	66	1474	through green accounting.	processes have a decision-making purpose motivating them.
						18				Valuation exercises are incomplete, without linking the willingness to	
				1				1	1	Valuation exercises are incomplete, without linking the willingness to	
				I		1		1		pay (measures) to some exisiting policies that compensate the local	
				1				l		stewards for their conservation efforts. One such policy that can link	
				I		1		1		these welfare measures to compensation mechanisms is payment for	
				I		1		10	443	ecosystem services. Once, value has been attributed to an ecosystem in	
				1				18	442	terms of economic surplus generated, a payment of ecosystem service	
				I		1		1		model can be used for compensation (Sardana, Kavita. "Tourists'	
				1						Willingness to Pay for Restoration of Traditional Agro-forest Ecosystems	
				1							Thanks for the valuable feedback. Willingness to accept / willingness to
						1		1		Providing Biodiversity: Evidence from India." Ecological economics 159	pay studies have are included in the review. See guidance document for
											pay studies have are included in the review. See guidance document for
1557	Kavita Sardana	India	TERI SAS	No	Ch. 3		442			(2019): 362-372.)	review Topic 6

Г							Time constraints dictate that I can give only a general comment to	
				Cyfoeth Naturiol			chapter 3 which I have read once, augmented by reading the key	
1	601	John Gossage	United Kingdom	Cymru/Natural Resources Wales No	Ch. 3		messages of the next three chapters, but no more than that.	No further action required.
1	602	John Gossage	United Kingdom	Cyfoeth Naturiol Cymru/Natural Resources Wales No	Ch. 3		Whilst I have not read in detail the IPBES conception of the policy cycle, the diagramme in a subsequent chapter seems broadly consistent with the use of the ROAMEF cycle by public services in Britain. Within this valuation has a role in both options appraisal (A) and evaluation (E), and both are encouraged to use mixed methods that would include both quantitative and qualitative analysis, for example mixing economic appraisal with multi-criteria analysis.	Thanks for the valuable feedback. We agree with the observation
1	603	John Gossage	United Kingdom	Cyfoeth Naturiol Cymru/Natural Resources Wales No	Ch. 3		Within appraisal the objective is to identify the intersection of two sets, one of feasible and the other of desirable outcomes. This set is then divided into a choice and a non-choice set, with the opportunity cost of the choice set defined in terms of the benefits and intrinsic values foregone by the rejecting the non-choice set. Cost-benefit analysis is often applied to indicate the opportunity cost, the higher the benefit-cost ratio the lower the opportunity cost. However it is not the only technique, and strictly speaking it can only really be applied if the counter-factual used in subsequent evaluation is not itself significantly changed by the policy, programme or project. In these circumstances scenario's may need to be developed to investigate likely states of the world with and without the intervention.	We are not sure which aspect of the chapter this comment relates to but the new section 3.5.3 seems to be relevant to the point made
1	604 .	John Gossage	United Kingdom	Cyfoeth Naturiol Cymru/Natural Resources Wales No	Ch. 3		Section 3.2.1 is useful. My one quibble would be the dating of TEV to the 1980's when the concepts of use and non-use value go back to classical economics and before. Adam Smith noted the high exchange value and low use value of diamonds and contrasted this with the low exchange value but high use value of water (Wealth of Nations, chap. IV, para. 13). Of course the concepts were revived in the 1980's.	Excellent point. Section 3.1.2 (history of valuation) now also covers some earlier trends, while the focus has remained on the recent history.
1	605	John Gossage	United Kingdom	Cyfoeth Naturiol Cymru/Natural Resources Wales No	Ch. 3		Lines 229 to 231 are contestable. This is an interpretation of the meaning of "total" that is being projected from the framing IPBES wishes to adopt, it is perhaps more apt to interpret it in contradistinction to "marginal." Marginal analysis is very often the best option. For example in industrial regulation there is often a requirement for "Best Available Technology" designed to keep firms at or very close to the efficient production boundary coupled with a requirement to avoid disproportionate cost. So as well as being required to be on the efficient frontier the firm is required to equate marginal damage costs with marginal abatement costs. However in situations where major structure change is required the inter-temporal dynamics may require that policy gives clear signals that there should be no further investment in a whole class of technologies, since such investment is likely to become stranded. Such dramatic structural change is justified by the prospect of irreversible adverse bio-physical transitions, such as those that might be triggered by biodiversity loss (the sixth mass extinction) as well as by anthropogenic climate change.	Thank your for your feedback. We have made the point clearer, that the TEV framework has been used to highlight that different types of values are important to people.
1	606 .	John Gossage	United Kingdom	Cyfoeth Naturiol Cymru/Natural Resources Wales No	Ch. 3		"In other words markets fail: they generate prices that do not give accurate signals about where to devote resources for their most productive use, and prices do not reflect the true cost to society of our economic activities." Why are we waiting: the logic, urgency and promise of tackling Climate Change? Nicholas Stern, the MIT press 2015.	Yes agreed. This is an important rationale for valuation and included in the assessment through the criterie "purpose of valuation" section 3.2.3.2. Review topic 2: Purpose of the valuation
1	607 .	John Gossage	United Kingdom	Cyfoeth Naturiol Cymru/Natural Resources Wales No	Ch. 3		Section 3.2.2 sets out three key debates. It would perhaps be relevant to mention that the use of money by mainstream economics rests upon its usefulness as a numeraire because of its three functions; as a means of exchange, a store of value and a unit of account. Accounting, whilst not strictly speaking part of economics, is nevertheless valued by economists because it provides a structured narrative that is effective in disambiguating data. Energy, the ability to do work, might provide an alternative numeraire. The connection between the advent of widespread exploitation of fossil fuels and total factor productivity is being investigated by economic historians such as EA Wrigley (Energy and the English Industrial Revolution and The path to sustained growth-both on my bookshelves but sadly not yet read).	Thank you for the suggestion. We distinguish between monetary and non-monetary value indicators.

										I have nothing of value to add to section 3.3 save to note that as well as being biased against IPLK (acknowledged in the text) the approach does	We recognise that the FOD was missing a lot of ILK content and IPLC valuation. We feel that we have addressed the "bias against IPLC" concern in the SOD in three main ways. 1. we have included the in history of valuation a whole section on valuation in IPLC territories (conducted by outsiders) 2. We have included a text box on how -to understand valuation methods and approaches in IPLC contexts - one must understand how 'evidence' is understood by IPLC. 3 26 ILK experts and
1608	John Gossage	United Kingdom	Cyfoeth Naturiol Cymru/Natural Resources Wales	No	Ch. 3					not engage with the many applications of the ecosystems approach that are being conducted outside academia.	knowledge holders have contributed to the chapter as contributing authors.
1621	Luis Pacheco Cobos	Mexico	Facultad de Biologia Xalapa, Universidad Veracruzana	No	Ch. 3	22	544	22	555	Include 675-tracking among the methods that courd serve as tool for further describing or supporting value systems. Such empirical records, can show human-resource relationships or management in space and time. GPS-tracking could serve as an instrumental or relational valuation tool, as it can systematically register human behavior, and its implicit landscape use and knowledge. When locally handled such data can be used, once the proper ethical arrangements are made, to put pressure on decision-making actors at governmental spheres (local pressure on regional or global scales). Sections that I found suitable for doing this are "3.2.2 Unresolved concerns and ongoing debates"; "3.2.2 Searching and selecting evidence on valuation" [by the way, here replace "3.2.2" with "3.3.2", check numbering for the rest of the sections in the table of contents]; "3.5.2 AQ2 WHICH VALUATION METHODS?" I share references dealing with and discussing the potential use of GPS technologies for psychological research or monitoring biodiversity. The latter could help to build a strong body of evidence (data) that would allow to take informed decisions when trying to make a sustainable use of biological resources Pacheco-Cobos, L., Rosetti, M. F., Montoya Esquivel, A., & Hudson, R. (2015). Towards a traditional ecological knowledge-based monitoring scheme: A proposal for the case of edible mushrooms. Biodiversity and Conservation, 24(5), 1253–1269.  https://doi.org/10.1007/s10531-014-0856-6 Shekhar, S., Feiner, S., & Aref, W. G. (2015). From GPS and virtual globes to spatial computing—2020. Geolnformatica, 19(4), 799–832.  https://doi.org/10.1007/s1077-015-0235-9 Wolf, P. S. A., & Jacobs, W. J. (2010). GPS Technology and Human Psychological Research: A Methodological Proposal. Journal of Methods and Massucement in the Social Sciences (11).	These papers - if adressing valuation of nature for decision making - have been captured in the corpus
1622	Luis Pacheco Cobos	Mexico	Facultad de Biologia Xalapa, Universidad Veracruzana	No	Ch. 3	64	1427	65	1457	among the methods that could serve as tool for further describing or supporting value systems. Such empirical records, can show human-resource relationships or management in space and time. GPS-tracking could serve as an instrumental or relational valuation tool, as it can systematically register human behavior, and its implicit landscape use and knowledge. When locally handled such data can be used, once the proper ethical arrangements are made, to put pressure on decision-making actors at governmental spheres (local pressure on regional or global scales). Sections that I found suitable for doing this are "3.2.2 Unresolved concerns and ongoing debates"; "3.2.2 Searching and selecting evidence on valuation" [by the way, here replace "3.2.2" with "3.3.2", check numbering for the rest of the sections in the table of contents]; "3.5.2 AQ2 WHICH VALUATION METHODS?" Is hare references dealing with and discussing the potential use of GPS technologies for psychological research or monitoring biodiversity. The latter could help to build a strong body of evidence (data) that would allow to take informed decisions when trying to make a sustainable use of biological resources Pacheco-Cobos, L., Rosetti, M. F., Montoya Esquivel, A., & Hudson, R. (2015). Towards a traditional ecological knowledge-based monitoring scheme: A proposal for the case of edible mushrooms. Biodiversity and Conservation, 24(5), 1253–1269. https://doi.org/10.1007/s10707-015-0235-9 Wolf, P. S. A., & Aref, W. G. (2015). From GPS and virtual globes to spatial computing—2020. GeoInformatica, 19(4), 799–832. https://doi.org/10.1007/s10707-015-0235-9 Wolf, P. S. A., & Jacobs, W. J. (2010). GPS Technology and Human Psychological Research: A Methodological Proposal. Journal of Methods and	These papers - if adressing valuation of nature for decision making - have been captured in the corpus
	Rosendo Ahue Coello (Tikuna People: Magütá); Gloria Erazo;		Organizacion Nacional Indígena							Chapter 3 - It would be interesting to highlight the following idea: when valuation comes from indigenous cosmology, that is more vital, integral	We believe that the SOD now addresses this suggestion. Specifically, Section 3.3.1.5 assesses 26 contributions from ILK experts on valuation
1669	Andrea Cárdenas.	Colombia	de Colombia (Onic)	No	Ch. 3					and deep.	methods conducted by IPLC for IPLC purposes.

_	1		1	1		 1	T	T
							Methods typology (Figure 3.3.) displays the complexity of valuation	
	Rosendo Ahue Coello (Tikuna						methods. Despite the fact that traditional knowledge of biodiversity is	
	People: Magütá); Gloria Erazo;		Organizacion Nacional Indígena		l		recognised, we identify more valuation approaches from the viewpoint	
167	Andrea Cárdenas.	Colombia	de Colombia (Onic)	No	Ch. 3		of Indigenous peoples.	This figure has been removed.
	Rosendo Ahue Coello (Tikuna						Chapter 3 - Guiding questions. We would like to suggest including a	
	People: Magütá); Gloria Erazo;		Organizacion Nacional Indígena		l		question such as the following: What type of values tend to be visible and	We've addressed which indicators and values become visible through
168	Andrea Cárdenas.	Colombia	de Colombia (Onic)	No	Ch. 3		invisible in accord with used methods?	different valuation methods through our review.
							Chapter 3 - Analytical framework. We would like to emphasise that	
	Rosendo Ahue Coello (Tikuna						Indigenous view is based on cosmology (e.g., integrity; all things are	The analytic framework figure has been revised susbtantially.
	People: Magütá); Gloria Erazo;		Organizacion Nacional Indígena				connected; all things give life; all things are living). That integrity could	Nonetheless, we can not say with certainty that it fulfills the "integrity"
168	Andrea Cárdenas.	Colombia	de Colombia (Onic)	No	Ch. 3		be also reflected on the figure as a principle.	criterion suggested here. See Fig. 3.1
							Chapter 3 - Valuation methods can be seen as knowledge forms.	
							From 106 valuation methods identified so far, it would	
	Rosendo Ahue Coello (Tikuna						be interesting to know how many are ethno-cultural methods (Figure	
	People: Magütá); Gloria Erazo;		Organizacion Nacional Indígena				3.3) i.e. What is the relevance of those mthods on the Assessment?	
168	7 Andrea Cárdenas.	Colombia	de Colombia (Onic)	No	Ch. 3		3.3/1.e. What is the relevance of those intribus on the Assessment:	This figure has been removed.
							Chapter 3 - Valuation methods. How many methods of integrating	
				PNNC is part of			valuation results are available? It would be suggested to evaluate their	
			Parques Nacionales Naturales	the Colombian			level ofincidence.	Thanks for the valuable feedback. Hopefully the revised section 3.4
169	Marta Díaz	Colombia	de Colombia (PNNC)	state	Ch. 3			(Findings) makes this clear.
100	I Walter Breez	colonibia	ac colombia (i mito)	State	C11. 5			(i maniga) makes ema cream
			1					
			1	PNNC is part of			Chapter 3 - Valuation Methods. It would be informative to include the	
			Barrer National and National and					The state of south and the state of the stat
1.00	Marta Díaz	Colombia	Parques Nacionales Naturales de Colombia (PNNC)	the Colombian	Ch. 2		spatial scale at which a method has been applied. That could have an	Thanks for the valuable feedback. Hopefully the revised section 3.4
105	s Iviarta Diaz	Colombia	de Colombia (PNNC)	state	Ch. 3		impact on the use of results.	(Findings) makes this clear.
							Chapter 3 - Valuation methods. It would be helpful to analyse methods	
							that integrate multiple values, different knowledge fields, qualitative and	
				PNNC is part of			quantitative information, etc.	
			Parques Nacionales Naturales	the Colombian				Thanks for the valuable feedback. Hopefully the revised section 3.4
171	Felipe Guerra	Colombia	de Colombia (PNNC)	state	Ch. 3			(Findings) makes this clear.
				PNNC is part of				
			Parques Nacionales Naturales	the Colombian			Literature review. It would be interesting analysing the way international	Thank you for you suggestion. This topic is not within the scope of
172	Felipe Guerra	Colombia	de Colombia (PNNC)	state	Ch. 3		conventions and free trade agreements define values of nature.	Chapter 3 and our focus on explicit valuation methods
	·						-	·
							Chapter 3 - Valuation methods. It would be helpful to specify what type	
			1	PNNC is part of			of social groups could conduct valuations e.g., universities, institutions,	
			Parques Nacionales Naturales	the Colombian			ethnic groups, primary/secondary education, etc.	Thanks for the valuable feedback. Hopefully the revised section 3.4
173	3 Viviana Moreno	Colombia	de Colombia (PNNC)	state	Ch. 3			(Findings) makes this clear.
1/3		COTOTIDIA	ac colombia (Figure)	Juli	5.1. 5	 +		r manigaj makes ems erear.
			1			1	Chapter 3 - Analysis and synthesis of evidence.	
			1				It would be advisable to take into account different	
			L	PNNC is part of			sources of information e.g., NGOs, public and private institutions whose	
	L		Parques Nacionales Naturales	the Colombian	l., . l		unpublished reports could provide relevant nformation of valuation	Noted, but it has not been possible to systematically assess unpublished
173	Viviana Moreno	Colombia	de Colombia (PNNC)	state	Ch. 3		studies.	documents.
			1					
							Chapter 3 - Methods typpology. It would be important to analyse what	
			1			1	type of aspect (e.g., type of language, actors, scales, elicitation of types of	
			1	PNNC is part of		1	values, institutions, participation, etc.) is explored in accord with a	
			Parques Nacionales Naturales	the Colombian		1	particular valuation method.	Thanks for the valuable feedback. Hopefully the revised section 3.2
174	Miguel Bedoya	Colombia	de Colombia (PNNC)	state	Ch. 3			(Rationale and Methods used in Chapter 3) makes this clear.
1			1			1	Charter 2 Figure 2 2 Theories History of the Investor 111	
			1			1	Chapter 3 - Figure 3.3. The visual impact of the image could improve if	
			1	PNNC is part of		1	other colours are used as well as showing the weight of evidence	
			Parques Nacionales Naturales	the Colombian		1	(economic methods) by using other style.	
174	Dora Estrada	Colombia	de Colombia (PNNC)	state	Ch. 3			This figure has been removed.
						,		

PROF. So not of commentation o		1	1	T		1	1	1	ı — —			
the freeded you derived so some ways to address the voluntion concerns.  1789 Immediateless  1780 Immediat	17	IS Dora Estrada	Colombia		the Colombian	Ch. 3					public call for locating key documents on institutions.	
1988 Tomas Desterg    Design							11				The title 'unresolved concerns' may be formulated more positively?	
Page 1 formus Declarato egglum										256		
And the second private is desired to well as the desired private is desired to make the second control of the	17	18 Tomas Declarca	Relgium		No	Ch 2		256				Noted This heading has been replaced
Challenges and Responses, pdf in: Sukhdey, P., Wittmer, H., and Millier, D., The Economics of Ecosystems and Boldwers styrEEEB; challenges and Responses, jn D. Helm and C. Hepburn (eds), Nature in the Balance: The Economics of Biodiversity (TEEB), challenges and Responses, jn D. Helm and C. Hepburn (eds), Nature in the Balance: The Economics of Biodiversity, Oxford: Oxford University Press (2014).  If you discuss intergenerational equity and irreversible impacts, you may want to include the important ethical debate on discounting choices?  TEEB's standpoint on this: The use of positive rates is supported by the view that goods or services delivered later are relatively less valuable when incomes are expected to grow, even though this will typically lead to the long-term degradation of ecosystems and biodiversity; a discount rate of zero translates into a more ethical approach that typically sess our grandchildren valuing nature similarly to our generation, and deserving as much as we do, even the use of negative rates can be applied under the assumption that future generations will be poore in environmental terms than those living today, Generally speaking, TEEB advocates that a variety of discount rates be considered depending on the time period involved, the degree of uncertainty, ethical responsibilities to the world's poorest as well as future generations, and the scope and nature of the project or policy being evaluated.  Source: http://img.teebweb.org/wp-content/uploads/2014/09/TEEB-challenges-and-Responses.pdf  Thank you for your feedback. Discounting is mentioned in 3.3.1.4, but			ec.g.um				11				on this comes from TEEB on how to address this valid concern: The very idea of valuation exists on the dangerous premise that nature can be reduced to a single (usually monetary) metric, and is thus commensurable. This is akin to equatingsomething like a human rights infraction or loss of life with financial compensation, and fails to takeinto account that certain values simply cannot bemeasured, such as intrinsic or existence values of nature (Gatzweiler, 2008, cited in TEEB 2010a, p.162; Sagoff, 2011). This is indeed a serious concern, and any estimate of total economic value runs therisk of leaving out important aspects. It is thereforeessential to communicate monetary values with diligence, making clear which dimensions they do and do not cover, and communicating them aslower boundary, not as 'true value'. TEEB itself goesbeyond valuation and attempts to place nature's valuesin their appropriate context. TEEB acknowledges that economic trade-offs form an important part of policymaking, and that monetary valuation may be helpfulin providing economic incentives to sustainably manage ecosystems (Costanza, 2006), or at the very least, trigger the much needed societal debateabout the value of nature and its services beyond theconservation of birds and butterflies, considered bymany as a luxury	
If you discuss intergenerational equity and irreversible impacts, you may want to include the important ethical debate on discounting choices?  TEEB's standpoint on this: The use of positive rates is supported by the view that goods or services delivered later are redaitively less valuable when incomes are expected to grow, even though this villy tipically lead to the long-term degradation of ecosystems and biodiversity; ad iscount rate of zero translates into a more ethical approach that typically sees our grandchildren valuing nature similarly to our generation, and deserving as much as we do; even the use of freagative rates can be applied under the assumption that future generations will be poorer in environmental terms than those living today. Generally speaking, TEEB advocates that a variety of discount rates be considered depending on the time period involved, the degree of uncertainty, ethical responsibilities to the world's poorest as well as future generations, and the scope and nature of the project or policy being evaluated.  Source:  UNEP, but comments in  UNEP, but comments in  If you discount rates be considered depending on the time period involved, the degree of uncertainty, ethical responsibilities to the world's poorest as well as future generations, and the scope and nature of the project or policy being evaluated.  Source:  HUNEP, but comments in	17	19 Tomas Declercq	Belgium		No	Ch. 3		264			Challenges-and-Responses.pdf In: Sukhdev, P., Wittmer, H., and Miller, D., 'The Economics of Ecosystems and Biodiversity(TEEB): Challenges and Responses', in D. Helm and C. Hepburn (eds), Nature in the Balance: The	
LIQUITURIAS DESIGNA TO TOP TO TOP TO THE STORY OF THE SECONMENT TO THE STORY OF THE SECONMENT TO THE SECONMENT	1.8	10 Tomas Declercq	Belgium	UNEP, but comments in personal capacity	No	Ch. 3	12	295		301	want to include the important ethical debate on discounting choices?  TEEB's standpoint on this:  The use of positive rates is supported by the view that goods or services delivered later are relatively less valuable when incomes are expected to grow, even though this will typically lead to the long-term degradation of ecosystems and biodiversity; a discount rate of zero translates into a more ethical approach that typically sees our grandchildren valuing nature similarly to our generation, and deserving as much as we do; even the use of negative rates can be applied under the assumption that future generations will be poorer in environmental terms than those living today. Generally speaking, TEEB advocates that a variety of discount rates be considered depending on the time period involved, the degree of uncertainty, ethical responsibilities to the world's poorest as well as future generations, and the scope and nature of the project or policy being evaluated.  Source:  http://img.teebweb.org/wp-content/uploads/2014/09/TEEB-Challenges-	Thank you for your feedback. Discounting is mentioned in 3.3.1.4, but has not been a focus of the assessment.

_											11 1// A PPANEMARY BY MARY AND APPARAGO BARRA BA	
							12				Like treatments by many otners, nere, discussion of the debate about substitutability between man-made and natural capital" (e.g., species-	
											based land-use restrictions vs. species-base liability for mitigation)	
											overlooks that the survival of some species depends on active	
											management by humans (such as to simulate historic burning by pre-	
											industrial cultures or to control invasive exotic vegetation), and	
											correspondingly overlooks potential opportunities to improve the	
											survival of such species through policy efficiencies. Specifically, I find	
											that implicitly or explicitly, both sides of the debate tend to assume	
											existing conditions will persist in the absence of disturbance by humans.	
											Examples include "baseline" assessments in exception programs under	
											the US Endangered Species Act (Novick 2013, ch. III).	
											For ways the Assessment address might address this issue at least more generally, cf. my "General Comment" in this form.	
									12	294	generally, ci. my deneral comment in this form.	
											Work cited:	
											Navial, Adam D. 2012 "Disk to maintenance dependent arcains from	
1											Novick, Adam P. 2013. "Risk to maintenance-dependent species from	
											orthodoxy in species-based land-use regulation." Master's thesis.	
											University of Oregon. http://hdl.handle.net/1794/13343 [Appreciating the Assessment and all who are contributing to it, I nevertheless	
							1				respectfully find it overlooks a fundamental issue, with potentially	
											important policy implications. Specifically, throughout (but perhaps	
1											most relevant to chapters 1, 2, and 5), it apparently overlooks that the	
1											survival of species can depend on continuing active management by	
											humans (such as to simulate historic burning by pre-industrial cultures	
1	A	Adam P. Novick									or to control invasive exotic vegetation) (cf. review by Novick 2013, pp. 2-	
1	844 <	anovick@uoregon.edu>	Unites States	University of Oregon	No	Ch. 3		292			3) By extension I find the Assessment overlooks both (1) threats to such	Beyond the scope of the assessment
				Mercator Research Institute on							I would also have expected a review of what we actually know (at global	Thanks for the valuable feedback. The Assessment is a methodological
1				Global Commons and Climate							scale) about people's actual values (empirically) with regards to nature /	assessment. Actual value estimates are outside the scope of the
1	884 k	(owarsch, Martin	Germany	Change (MCC), Berlin	No	Ch. 3					environment.	assessment.
							4				The message marked in yellow stated that the valuation is specific to	
											recognize values which contradicts the information given in chapter 2 in	
											which also are consider values that are not measured in the present, is	Implicit values have not been considered as it is beyond the scope of this
											important to have a clear and common messages for the type of analysis	chapter. Chapter 2 pictures the broad context, and also chapter 4 picks
2	046 (	CONANP	Mexico	CONANP, Mexico	Yes	Ch. 3		75	4	77	that is going to be constructed trough the six chapters	up on part of this.
1							4				Policy instruments are important to decision making and are currently	
							1				the main obstacle in measurement of achievements of the different	
									4	79	agendas and conventions in the world, this type of information is very important and if is not going to be consider in this chapter is necessary to	
											included in another or at leas state as a conclussion that in the future there is a need to include it	
2	047 (	CONANP	Mexico	CONANP, Mexico	Yes	Ch. 3	-	77				This is mentioned in Chapter 4 and 6.
							5				The table introduced at the beginning of this chapter is helpful and having one at the beginning of each chapter could solve many doubts	
2	048	CONANP	Mexico	CONANP, Mexico	Yes	Ch. 3		97	5	97	about the several definitions and concepts given along	Thanks for the suggestion.
Ľ	U+0 (	CONTRACT	IVICATED	CONTAINT, INICATED	103	CII. J	10	37		J/	The table in this section could be enriched with data examples that allow	mains for the suggestion.
2	049	CONANP	Mexico	CONANP, Mexico	Yes	Ch. 3	10	236	10	236	the interpretation of the valuation used for each one	This table has now been removed.
F							16				Through this entire section the analysis has been done explaining the	
											process that is going to be integrated and not the results itself, is	Thanks for the valuable feedback. Hopefully the revised section 3.3
											information that could and should be included only on the introduction	(Valuation of Nature- State of the art) and 3.4 (Findings) make the results
2	050	CONANP	Mexico	CONANP, Mexico	Yes	Ch. 3		390	2	555	and on a briefer summary.	of the assessment clear.
							23				The methods evaluated in this chapter are compile in an appendix but	
									23	563	not described at least at minimum in the entire chapter, is recommended	Thanks for this valuable comment. Unfortunately at this late stage and
									23	503	to do both in order to give as much information as possible	given the available expertise we cannot delve very deeply into
2	051	CONANP	Mexico	CONANP, Mexico	Yes	Ch. 3	<u> </u>	563			to do both in order to give as mach information as possible	description of each method.
Г							28					Grey literature is now better organised and sampling was structured in
											An explanation of what is "grey literature" should be given, also a	thematic reviews and review of previous assessments, we hope this makes
2	052	CONANP	Mexico	CONANP, Mexico	Yes	Ch. 3		663	28	663	description about the content of each site could be helpful	things/explectationas and scope more clear
							General					Definition has been added "We define valuation as the application of
											General comment: The chapter does not deep into the definition of	methods and approaches to recognize values of nature and/or human-
											existing valuation and is more about the construction of the search done	nature relationships, with the aim to make them explicit and enable their
2	_	CONANP	Mexico	CONANP, Mexico	Yes	Ch. 3						inclusion in decision-making."
1.		ystem of Environmental-	l	System of Environmental-								Sorry it is not clear what is meant here, and there is no reference or
2	087 E	conomic Accounting (SEEA)	N/A	Economic Accounting (SEEA)	N/A	Ch. 3	1					explanation provided.

											At least with regard to the economic perspective, the predominant	
											application of environmental economics seems to ignore the importance $$	
											in the literature of wealth accounting and related material. The	
											perspective that environmental valuation commenced with Hotelling in	
											1947 (Chapter 3) ignores the literature starting from Fisher (1906) who	
											incorporated many of the themes present in the general ecosystem	
											services/NCP type thinking. The present versions of this literature	
											embodied in wealth accounting by the World Bank and others which has	
		ystem of Environmental-		System of Environmental-							a strong connection to the economic values being discussed in the	Thank you for your feedback. Wealth accounting is not a focus of the
2	189 E	conomic Accounting (SEEA)	N/A	Economic Accounting (SEEA)	N/A	Ch. 3					chapters seem to be ignored.	chapter. We have included SEEA initiative in section 3.3.4.2
										575		
											May be worth considering two aspects that may be important: one is	
											procedural justice and its inalienable relationship to both	
											epistemological and ontological justice. The former is mentioned on p30	
											line 707 with the report claiming that it is beyond the scope, however it	
											was discussed at some length in chapter 2, so it is unclear why it is	
											disappearing here. This has systemic implications for the results as is	
											evident in table 3.10 - low results for LVF (Living as nature) and	
1					I	1	1	1	1		dominance of monetary and quantitative approaches. See Cassell and	
1					I	1	1	1	1		Johnson, 2006: Action research: explaining the diversity. Human	
					I		1		1	1	Relations. 59 (6): 783-814 for discussion about how AR includes	
1					1						interrogation of, transparency about philosophical assumptions	
1					I	1	1	1	1		enabling knowledge architecture coherence and ontological plurality.	
					I		1		1	1	The second matter that this line and approach risks, is that the privileging	
											of empirical, targeted decision focussed methods excludes "living	
											systems" methodologies. See Simms (2003) Living systems science	
											methodology for managing complexity and change. Systems Research	
											and Behavioural Science. 20: 401-408. Without either methodologies	
											that can make philosophy explicit and accountable, or living systems	
											methodologies the data generated by the framework risks biasing	
											decisions towards materialist and consumerist interests - risking	Thank you for your feedback. The section has been rewritten and we have
2	.15 S	usan Goff	Australia	Government	Yes	Ch. 3	23	575	23		ecosystem viability.	improved the consistency of the terminology used.
										659		We are no longer using the classification of methods that considers
												sociocultural methods as a group of methods. Methods under this group
2	16 S	usan Goff	Australia	Government	Yes	Ch. 3	27	659	27		Absence of sociocultural is noted.	are now split across the four methods families (Section 3.3.3).
										668	Recommend adding to the table 3.4 - NAILSMA	
2	.17 S	usan Goff	Australia	Government	Yes	Ch. 3	29	668	29		https://www.nailsma.org.au/	This table has been removed.
										764		Thanks for the valuable feedback. Hopefully the revised section 3.2
											This para highlights the lack of attention to procedural justice as	(Rationale and Methods used in chapter 3) makes it clear that procedural
2	18 S	usan Goff	Australia	Government	Yes	Ch. 3	32	764	32		previously discussed.	justice is considered.
											In the table An overview of conventional valuation methods is given. In	
											this table not all the valueation methods are given. Fir example. Market	
1					I	1	1	1	1		price methid. I suggest you review all the methods and show in a sepafate	
					I		1		1	1	column how these methods can be applied. For example, hedonic pricing	This table has been updated substantially and split into Method Families.
					I	1	1	1	1		method is applied to valuate imcat of environmental amenities on	A full list of methods is also available in the Appendix and includes several
2	65 R	Rovshan Abbasov	NA	MEP/Bureau	No	Ch. 3	11		11		houseing prices.	market-price methods.
F	.05		101	ME 7 Bureau		C 5					nouseing prices.	market price methods.
1					1		The					
					I	1	chapter	1	1		Labelian van Jahan I di Antik ahan tahan Danmanah San Fanan Jahan Caralian and I	The share of the same of the s
					I	1	general	1	1		I thin you should talk about the Payment for Ecosystem Services as well.  Do you think it is valutaiton method? I think yes, becouse We value	Thank you for your suggestion but the comment we better addressed in Chapter 4. Payment for Ecosystem Services is a main topic in Chapter 4.
١,	cc	Rovshan Abbasov	NA	MAED (Durane)	No	Ch. 3	gerierui					
1	.00 K	AUVSHAII ADDASUV	INA	MEP/Bureau	INU	CII. 3	1	+	1		nature and va;luate how much we should pay for that.	Policy instruments are not assessed in Chapter 3
					1						It is clear that the conceptual elements in the Figure 3.1 (and also in the	
					I	1	1	1	1		Figure 3.2) are essential to the Chapter 3 analysis. Besides, these Figures	
											explains the logical connection among Chapters (Chapter 3 is between	
					1						Chapter 2 - dealing with values and Chapter 4 - dealing with decision	
					1						making) and contribute to telling a storyline. However, the approach to	
					I	1	R	170	1		develop Chapters' conceptual frameworks (it is also the case with the	
					I	1	ا ا	1,0	1		conceptual scheme/diagram in Chapter 4) may confuse readers,	
					1						particularly decision makers. For the promotion of IPBES activities and	
					1						outcomes, the term "conceptual framework" could be somehow	
					I	1	1	1	1		"reserved" for the IPBES conceptual framework exclusively. In the context	
					1						of this, I suggest to consider renaming of the sub-chapter 3.1.3 (line 158)	This figure has now been replaced with a figure titled "Rationale for
12	08 1	Mersudin Avdibegović	NA	MEP/Bureau	No	Ch. 3			8		and set it as "Chapter 3 rationale".	Chapter 3 assessment questions".
			1	, = 31 000	1					1/3		

2209	Mersudin Avdibegović	NA	MEP/Bureau	No	Ch. 3	41	991	41	99	As concerns grouping the methods into categories, based on whether they assess qualitative and quantitative data, the mixed methods (combining qualitative and quantitative approaches) should be also considered for such a typology. Eventually, the authors recognized this themselves (identification of hybrid studies in lines 996-997 and in Thank you for your feedback. Please see table 3.3. (Correspondence of review topics and their criteria to the six Chapter 3 Assessment Questions)
	MEP & Bureau	NA	MEP/Bureau	No	Ch. 3	General				Methods in the chapter should use some kind of typology: eg.  Qualitative, quantitative, mixed or hybrid.  Thank you for your feedback. Please see table 3.3. (Correspondence of review topics and their criteria to the six Chapter 3 Assessment Questions)
2448	Eric Fokam	NA	MEP/Bureau	No	Ch. 3	5	104	5	10	This assumption is made explicit in 3.5 (Future outlook for valuation)- 5 There should be a first question: "Is Valuation necessary?" showing the (explicit) valuation is in some cases not necessary
2449	Eric Fokam	NA	MEP/Bureau	No	Ch. 3	8	171	8	17	Title should be very clear that this is the chapter's conceptual framework, This figure has now been replaced with a figure titled "Rationale for CH3 assessment questions".
2450	Eric Fokam	NA	MEP/Bureau	No	Ch. 3	20	489	21	51	The authors should use the past tense to describe their methodology as this would be reviewed in the context of work already done, even at this early stage. Use of future maintains the the impression of a scoping and coments!  This has been addressed in the SOD with the exception of a few places where we have not undertaken something and refer to the future. We do not want to give the reader the impression that certain work has been undertaken when it has not yet been done.
	Eric Fokam	NA	MEP/Bureau	No	Ch. 3	33	800	33		Authors must provide more robust justification for combining "equity"  And recognition"  This has been rephrased to justice and recognition throughout the document.
	Eric Fokam	NA	MEP/Bureau	No	Ch. 3	35	855	36		5 Some acronyms should be explained as a footnote under "table 3.5"  This has been removed from SOD.
2453	Eric Fokam	NA	MEP/Bureau	No	Ch. 3	35	855	36	85	Under "Equity-fariness/Distributional/ the two indicators are the same ["intergenerational equity"] and should be revisited This section has been thoroughly rewritten.
2519	Gorucu Ozden	NA	MEP/Bureau	No	Ch. 3	65	1414	69	156	From point of methodologies and data collection and also measuring of the values, there are somewhat bottlenecks to value of the nature, so these present constraints would be better to be mentioned.  Thanks for the valuable feedback. Hopefully the revised section 3.4 (Findings) makes this clear.
2718	Claire Ntshane	South Africa	Department of Environment, Forestry & Fisheries	Yes	Ch. 3	12	277	12	27	The text in the SOD has shifted and changed substantially. This should no longer be a concern.
2725	Claire Ntshane	South Africa	Department of Environment, Forestry & Fisheries	Yes	Ch. 3	27		27		Thanks for the valuable feedback. Hopefully the revised section 3.4 (Findings) makes this clear.