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School of Public Policy, University of Regina, Regina, Sk, University of	
University of Regina, Regina, Sk, Adaptive governance of disaster: drought and flood in rural areas, sy	Partially agree. We have now engaged more with different governance
	systems and their effectiveness in policy and decision-making contexts
15 Margot Hurlbert Canada Canada No Ch. 5 80. 2122 80 2145 Springer). (si	(such as climate change).
Bob Watson This is not a finding of this assessment -it is text book, albeit important –	
57 United Kingdom N/A No Ch. 5 6 17 so what does a policymaker do with this information? W	We have restructured this introductory text to for clarity.
Bob Watson The problem is that "just" and "sustainable" are both very subjective W	We agree. These concepts have been extensively integrated into many
	preceeding UN doccumetns and declarations. Our work restes on these
	UN defintions and approaches.
	Agreed. We are reworking all of the text in the chapter to be less
	accademic. This particular key message has now been removed.
	This KM no longer exists. We have created more clarity with the KM in the SOD.
	SOD.
	This is still words in accourage and will evalve beared an account literature
	This is still work in progress and will evolve based on ongoing literature reviews. We will provide examples.
	This is still work in progress and will evolve based on ongoing literature
	reviews. We will provide examples.
	We provide examples in 5.3.1 including formal instututions of laws.
	5.3.5 provides a much deeper exploration of institutions and is largely
	new materoal for the SOD
Bob Watson Just futures - Very subjective within and between societies; common	
good - Very subjective, no practical definition, most goals and targets of	
MEAs are simply political – e.g., the 1.5 to 2C target of the Paris	
agreement is not scientifically based - it is simply a political compromise	
	Yes this is a subjective space, but we are clear on this and striving for just
perturbation to the climate system means – it is highly context specific – ar	and sustainable futures is well in keeping with a multitude of UN
64 United Kingdom N/A No Ch. 5 64 67 regionally, sectorally, socially etc.	documents and studies.
	This is still work in progress and the KM will be refined based on the
	results of the review.
	This KM no longer exists.
	Thaks but this KM has been deleted / reworked
None (Member of SEEA EEA	
	We agree with the importance of the topic but we think that the focus on
	SEEA is provided in Ch4
In Table 5.4 - nature connectedness can be added to "Stewardship,	
University of Derby, Nature University of Derby, Nature Connectedness Research Group No Ch. 5 41. 994 42 995 activities, contemplation of nature"	Thank you. We have added these sections as suggested.
2.30 primes municusum Jointeet minguom Connecteuriess nesearch Group No. 2 41. 334 42 333 activities, contemplation of nature 11	mank you. We have duded these sections as suggested.

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2522	Miles Richardson Matteo De Donà	United Kingdom Sweden	University of Derby, Nature Connectedness Research Group University of Gothenburg	<u>No</u>	Ch. 5	1	. 1	1	180	Abson et al. (2017) features strongly in this chapter, he asserts that people's connections to nature is one of three key realms for sustainability, and that "psychological connection with nature needs to coupled with institutional structures" for a good life. However, psychological connection with nature, i.e. the construct of nature connectedness, isn't discussed yet it is linked to proenvionemtal/conservation behaviours and quality of life, is measureable at population scale (Richardson et al., 2019) and the pathways to nature connectedness highlight the types of relationship (based on Kellert's values) to foster, and the types of relationship (based on Kellert's values) to foster, and the types of relationship (based on Kellert's values) to foster, and the types of relationship (based on Kellert's values) to foster, and the types of relationship (based on Kellert's values) in foreign the strong of relationship (based on Kellert's values) in foster, and the types of relationship (based on Kellert's values) in foster, and the types of relationship to moderate. There is relevance to sections 5.2, 5.3, 5.4 and 5.5. The pathways to nature connectedness provide a new and applied methodological development for improving human-nature relations. The framework provides great flexibility of application, often with simple changes, in a range of circumstances, including leverage points where minor interventions can lead to important changes. The pathways can be applied to individual activities in nature, to nature engagement programmes and to the design of infrastructure to improve relationships between humans and nature on a larger scale, through active engagement, or through prompting behaviour through affordances. There are empirical interventions and case studies from organisations using the pathways (e.g. National Trust, Wildlife Trusts, Durrell Wildlife Conservation Trust in the UK) that demonstrate how the pathways to nature connectedness have influenced decision making and management, and been applied to practic	Thank you for this general comment on the topic of nature connectednes as a pathway for sustainability transformation. Thank you also for all the suggestions for organisational case studies. Within the available wordcount we will try to mentiion suggested examples and additions, such as we did under subsection 5.3.2.2 "Values as leverage points": "Leveraging nature connectedness is empirically supported by case-studies from organisations such as e.g. National Trust, Wildlife Trusts, Durrell Wildlife Conservation Trust (Richardson et al. 2020)." Yes, this is a wording issue and has been changed. Intended meaning was when considered as a goal, sustainability.
292		Sweden	University of Gothenburg	No	Ch. 5	18	522	18	525	be more appropriate to treat it as a value, more specifically as an overarching and universally-shared value?	The concept of justice has been adjusted to align with chapter 1 and 2.
26-	Matteo De Donà									This statement sounds too sweeping. While argument can be a crucial tool to reach consensus, other factors may be decisive (e.g. building	
293		Sweden	University of Gothenburg	No	Ch. 5	20	593	20	594	trust).	This section has been removed.
294		Sweden	University of Gothenburg	No	Ch. 5	61	1506	61	1508	This is incorrect. The source (Asara et al. 2015) has been misinterpreted. The concept of 'green economy' is radically different from the idea of 'degrowth'. For an additional source, see Sandberg, M., Klockars, K., & Wilén, K. (2019). Green growth or degrowth? Assessing the normative justifications for environmental sustainability and economic growth through critical social theory. Journal of Cleaner Production, 206, 133–141. https://doi.org/https://doi.org/10.1016/j.jclepro.2018.09.175	Thank you. Our take is that the term green economy is too broad and generic for appropriation by any particular strand, so we use it here as an umbrella concept covering different notions of a green or ecological economy and transition strateies, from green growth to green growth. We make this point clearer in the new version and have included the reference to Sandberg et al
295	Matteo De Donà	Sweden	University of Gothenburg	No	Ch. 5	72	1870	72	1874	The international organizations mentioned (OECD, World Bank) are designed under the rational of economic growth and may not be the most suitable to advocate a change of such paradigm. It would be better to suggest a reform of these institutions here.	We agree that the current institutions may not be best suited to contribute to a transformation towards just and sustainable futures. Yet, the section is not set up to suggest specific reforms to interantional organizations such as OECD or World Bank.
329	Margarita N. Lavides	United States	Earth Law Center/Samdhana Institute/Independent		Ch. 5	4	96	4	99	Intrinsic values of nature are likewise not effectively evaluated. Therefore, intrinsic values should be included also in the sentence along with instrumental and relational values of nature.	Intrinsic values are now included here.
330	Margarita N. Lavides	United States	Earth Law Center/Samdhana Institute/Independent	No	Ch. 5	22	648	22	649	This statement may not be true because the environment or nature have also power and impact over current humans. Socio-ecological systems have feedback loops and where when nature is abused, e.g. excessive burning of fossil fuels/deforestation, nature gets back to us with the impacts of excessive CO2 in the air and therefore global warming and its impacts.	This section has been removed to creat better alignment and focus in the chapter.

						1					
331	Margarita N. Lavides	United States	Earth Law Center/Samdhana Institute/Independent		Ch. 5	25	744	25	752	The following statement is suggested in line 749 after "value": This is already manifested in the concepts of Earth Law including Rights of Nature which though has its theoretical origins in the 1970s has been gaining grounds globally especially in the last ten years since the first legislation of rights of nature in Pittsburgh, USA in 2006 followed by constitutional legislation in Ecuador in 2008. Then followed by Bolivia, New Zealand, India, Mexico City and three dozen cities and municipalities in the US. Further Earth Law including Rights of Nature is being taken up and manifested in the UN initiative called UN Harmony with Nature (www.http://www.harmonywithnatureun.org/)	This section has been radically reduced for better alignment of the chapter and because many of these isues relate to the entire assessement and need to be delt with in Ch1
	Margarita N. Lavides	United States	Earth Law Center/Samdhana Institute/Independent	No	Ch. F	27	022	20	020	The CBD Preamble addresses intrinsic value in its first sentence yet this is not included in the discussion of the different kinds of values that follows for $5.2.3.4$. I suggest to include it in this discussion as obviously the CBD	This section has been entirely reworked, and this sentence has been
332	Margarita N. Lavides	United States	Earth Law Center/Samdhana	No	Ch. 5	27	823	28	829	Preamble is carrying it in its opening sentence.	removed.
333	viaiganta iv. Lavides	Officed States	Institute/Independent	140	Ch. 5	28	839	28	839	This statement should be further elaborated.	This section has been entirely reworked, and this sentence has been removed.
	Margarita N. Lavides	United States	Earth Law Center/Samdhana	No	Citi 5		000		000	Intrinsic value should be included in the examples to complete the	removed
334	S		Institute/Independent		Ch. 5	30	871	30	871	context.	No action needed. Intrinsic value has been included in this review.
	Margarita N. Lavides	United States	Earth Law Center/Samdhana	No							
335			Institute/Independent		Ch. 5	30	878	30	878	"difference" should be "differentiated."	Thank you for the pointer. We have applied your correction.
336	Margarita N. Lavides	United States	Earth Law Center/Samdhana Institute/Independent	No	Ch. 5	32	927	32	931	It would be good to also search along with value or the term "ecocentric" instead of non-anthropocentric or along with non-anthropocentric.	Thank you for pointing this out. The present draft reflects our updated keyword string including "ecocentric" and related terms and corresponding search results
337	Margarita N. Lavides	United States	Earth Law Center/Samdhana Institute/Independent	No	Ch. 5	34	945	34	945	The following can be added and referred to: UN Harmony with Nature (http://www.harmonywithnatureun.org/); Earth Law Center Suggested Readings (https://www.earthlawcenter.org/literature); Global Alliance for Rights of Nature (https://therightsofnature.org/ron-conference-articles/), (https://therightsofnature.org/related-books/), (https://therightsofnature.org/videos/), (https://therightsofnature.org/articles-by-ron-friends/).	Thank you, we have incorporated your suggestions.
338	Margarita N. Lavides	United States	Earth Law Center/Samdhana Institute/Independent	No	Ch. 5	39		39		For value focus and and value, to include intrinsic value, justifications can be found in the reference mentioned above previous to this comment.	Thank you- we hope our updated section 5.2 includes this suggested consideration
	Margarita N. Lavides	United States	Earth Law Center/Samdhana Institute/Independent	No	Ch. 5	41	994	42		Table 5.4, non-anthropocentric can be referred to also as ecocentric and example targets of valuation should include Earth Law including Rights of Nature.	Here we were drawing on the framework of the IPBES, preliminary values guide. These suggestions have been broadly integrated into the revised text.
340	Margarita N. Lavides	United States	Earth Law Center/Samdhana Institute/Independent		Ch. 5	45	1071	46	1085	Both options can be done and presented in the next Order Draft.	The comment is not clear enough to act on.
341	Margarita N. Lavides	United States	Earth Law Center/Samdhana Institute/Independent	No The state of th	Ch. 5	66	1637	66	1648	Beyond the described analysis for NBSAPs, it would be good to see and indicate the implementation side of NBSAPs. Which advocated interventions and policies were actualized and achieved beyond being formalized in NBSAP documents within national governments and CBD. Another area that can be explored for this section is the pro-active environment or pro-nature provisions in constitutions of nations which results to real implementation on the ground e.g. supplemented by other national laws or supportive court rulings/decisions consistent with that constitutional or national laws.	The comment is valid, however for identifying and analyzing implemented interventions and policies it would be more difficult to get the data and this would be outside the scope of this section. It might be something to tackle in Ch. 4
342	Margarita N. Lavides	United States	Earth Law Center/Samdhana Institute/Independent	No	Ch. 5	75	1978	76	1986	The following example should be included: The case of New Zealand giving rights to rivers to give an specific example of environmental policy instrument/legal framework that addresses biocultural diversity.	This is a relevant case and we are analyzing it in combination with cases or rivers that have been designated as subjects of rights in Colombia, and India
	Margarita N. Lavides	United States	Earth Law Center/Samdhana Institute/Independent	No	Ch. 5	78	2081	78	2082	Regarding question of responsibility: every other sector has its own roles in ensuring that multiple values of naturre are integral part of decision making. I suggest to indicate each sector i.e. governments, NGOs, academia etc. and its suggested roles in this matter.	We agree with the comment - however refrain from making sector specific recommendations or conclusions, as this is way beyond the scope of the assessment. We do however attemtp to make conclusions with respect to values for adaptation and transformation of governance systems towards JSF

		I	I	T	1		1	1	1		
	Margarita N. Lavides	United States	Earth Law Center/Samdhana	No						Mazzucato M, Messner D, Nakicenovic N, Rockström J (2019). Six	
			Institute/Independent							Transformations to achieve the Sustainable Development Goals. Nature	
										Sustainability. doi: DOI 10.1038/s41893-019-0352-9	
										Researcher contact:	
										Guido Schmidt-Traub	
										Executive Director SDSN Tel: +33 1 84 86 06 63	
										guido.schmidt-traub@unsdsn.org. Abstract	
										The Sustainable Development Goals (SDGs) and the Paris Agreement on Climate Change call for deep transformations in every country that will	
										require complementary actions by governments, civil society, science	
										and business. Yet stakeholders lack a shared understanding of how the 17	
										SDGs can be operationalized. Drawing on earlier work by The World in	
						89	2399	89		2050 initiative, we introduce six SDG Transformations as modular	
										building-blocks of SDG achievement: (1) education, gender and	
										inequality; (2) health, well-being and demography; (3) energy	
										decarbonization and sustainable industry; (4) sustainable food, land,	
										water and oceans; (5) sustainable cities and communities; and (6) digital	
										revolution for sustainable development. Each Transformation identifies	
										priority investments and regulatory challenges, calling for actions by	
										well-defined parts of government working with business and civil society.	
										Transformations may therefore be operationalized within the structures	
										of government while respecting the strong interdependencies across the	
										17 SDGs. We also outline an action agenda for science to provide the	
										knowledge required for designing, implementing and monitoring the SDG Transformations.	
344					Ch. 5					1300 Hansiofffiditions.	Many thanks. This has been done.
344			School of Global		CII. J					On what ground and according to who is this claim made? Where "a	Iviarry triariks. This has been done.
359	Droz Laÿna	Japan	Environmental Studies	No	Ch. 5	1.	12	1	14	consensus is now emerging"? Idem for p. 24, lines 693-696.	This comment have now been removed
	• •	·	School of Global					1		, , , , , , , , , , , , , , , , , , , ,	This section has beeen removed. These concepts are now addressed
360	Droz Laÿna	Japan	Environmental Studies	No	Ch. 5	23.	666	23	680	According to who? References are needed.	upfront at the start of ch1 as they relate to the entire assessment.
		_	School of Global							Unclear sentence (what is "the inner sphere and personal and human	
361	Droz Laÿna	Japan	Environmental Studies	No	Ch. 5	58.	1392	58	1395	disconnections"?)	Thank you for indicating this needed clarification. We reworded.
	Syed H. Raza	Malaysia	Media Project on	No							
			Conservation Environment &							Besided the keyword search, the biodata of Enviormental Researchers can	
			Nature MPCEN		1.					be made, or environmental researchers from different research institutes	
435	C		14. P. D. C. I		Ch. 5	32	900	40	965	can be asked to contribute their research if it matces 3 or mode keywords.	This is beyond the scope and focus of this assessment in this chapter.
	Syed H. Raza		Media Project on	No						important information miising here is that values about nature can be	
			Conservation Environment &							alterted in case of catastrophy, war or any event that adversly imapct	
			Nature MPCEN							nature. In such scnerio values can be changed over the years. We have	
425					Cl. F	62	4524	62		studies proving farmer changing their traditional farming practices &	The different ways how value can change are also discussed in Ch.2 and
436	Cuad H Daza	Malaysia	Madia Project on	No	Ch. 5	62	1521	62	1547	knowledge to align it with nature based solutions	we will include it here more explicitly.
	Syed H. Raza	Malaysia	Media Project on	No						Knowledge & capacity bulding are very important on all levels,	
			Conservation Environment &							governments, social, local & others. Either there should be studies on	
			Nature MPCEN							such Diplomas. MOOC courses which provide capacity building of there	This is a valuable comment but we believe that it is an issue that needs to
										should be collaboration with such organizations which provide capcaity	be picked up (and has been picked up) in ch6. We have now also reflected
437					Ch. 5	89	2407	91	2472	building to futhur stregthen it. This can also result in change in vaulues and beliefs.	more extensively on capacity and capacity requirements in our goverenance section.
43/	Alastair Johnson	United Kingdom	Department for	No	CII. 3	03	2407	21	24/2	and benets.	<u> </u>
	Alastan Johnson	_	Environment, Food and	1							One thing is that there may be different exact definitions of "green
			Rural Affairs (Defra)							Line 1747 states "A green economy can be defined as", but then line	economy". However, all of these exact definitions have in common that social and environmental cost-shifting are prevented and in which the
						77	1747	78	1793	1792 states "A green economy by definition" The first implies there's	social and environmental cost-shifting are prevented and in which the stewardship of nature's values is recognized and appropriately
										more than one definition while the latter suggests there's only one.	compensated. We dropped the "by definition" at the later instance to
461					Ch. 5						avoid confusion.
											The Key messages have been extensively reqorked and reshaped in
491	Henry Mcghie	United Kingdom	Individual	No	Ch. 5	1.	11	<u>L</u>		UDHR capitalised. What about environmental rights list by UNEP	producting the SOD.
										have something somewhere about social norms and institutions forming	
492	Henry Mcghie	United Kingdom	Individual	No	Ch. 5		26	<u> </u>		positive social norms, such as museums and cultural sites	norms and institutions into the key messages.
										some of the discussion of values throughout is a bit unclear. Difference	
										between values held by individuals and communities, and the value[s]	
1										assigned to nature. More discussion somewhere of Schwartz's work on 58	
1		•	1	1	1	1	1	1	1	supposedly universal values, and work of Crompton and others on	1
											Market and address of the control of
403	Henry Mcghie	United Kingdom	Individual	No	Ch. 5		60			working with intrinsic and extrinsic values, and also of Kellert's work. These explore what 'nature is for'	We hae tried to provide more clarity on this issue through out the chapter. This is also something we are resolving in Ch1.

	Harris Marabia			ı	ı ı		1	Control of	T
	Henry Mcghie							could do with more on capacity building, and links to eg Paris	
								Capacity Building Committee document, and alignment with a	Capacity is now discussed in more detail in the final section. This is a key
								range of policy agendas to ensure capacity can be built effectively	component of Ch6 and we have been careful not to overreach our scope
494		United Kingdom	Individual	No	Ch. 5				here.
T	Rafael Calderón Contreras	Mexico	Licenciatura en Estudios	No					
			Socioterritoriales,					Males are an american the contract and limits in the culture absorber	No rationalle or context is provided for this comment. This is a theme
			Universidad Autónoma					$\label{lem:makemore emphasis} \textbf{M} \textbf{ake more emphasis on the socio-ecological limits in the whole chapter.}$	that is engage with explicitly and in great detail through our focus on
525			Metropolitana, Unidad		Ch. 5				sjust and sustainable futures.
323	Rafael Calderón Contreras	Mexico	Licenciatura en Estudios	No	CII. 5				ajust una sustamabre ratures.
	Maraer Calderon Contreras	IVIEXICO	Socioterritoriales,	140					
			Universidad Autónoma						I'm not sure how well known the term 'good anthropocene' is with
526			Metropolitana, Unidad		Ch. 5			Relate Just and Sustainable futures with the Good Anthropocene.	policymakers and don't think it is a well defined term in the literature.
	Juan Manuel Frausto	Mexico	Fondo Mexicano para la	No				Keep the message: a fundamental engine that will keep the movement	This message makes no sense. Such wording has not been included in the
536			Conservación de la		Ch. 5			going, is not to loose hope.	SOD.
	Juan Manuel Frausto	Mexico	Fondo Mexicano para la	No				What will happen in a world without biodiversity? Also in terms of	
			Conservación de la					inequality and poverty. What are the implicatios of biodiversity loss for	
537			Naturaleza		Ch. 5			development countries?	Thanks. This section has now been removed.
	Fernando Jaramillo Monroy	Mexico	FAUNAM, A.C.	No					I'm not sure exactly where in the text this refers to but we will certainly
			,					Justice linked to natural processes, not only justice link to specific	ensure we are not only concerned with justice to species. WE have now
								species.	also clarified this in Ch1 and sought to harminise our use fo justice across
552					Ch. 5			ar and an	teh assessment
JJ2	Fernando Jaramillo Monroy	Mexico	FAUNAM, A.C.	No	5.1. 5	 	+	Clearly explain what is understood by the term "governance":	con assessment
	i emando Jaramino Ivioni Oy	INICALLU	AONAIVI, A.C.	140					Wa have refrained from using one definition of several barries
553					Ch. 5			representation vs. participation. Participation in decision-making is very	We have refrained from using one definition of governance, however
333	Faranda Iaranilla Marani	Marrian	EALINIANA A C	NI-	Cn. 5			important.	have focused on some common elements.
554	Fernando Jaramillo Monroy	Mexico	FAUNAM, A.C.	No	Ch. F			Value of ecosystems' functions and its implications for the scenarios	We cover these values in great detail through our focus on instrumental
554	5		541181484 4 6		Ch. 5		_	needs to be reflected.	values.
	Fernando Jaramillo Monroy	Mexico	FAUNAM, A.C.	No				Scenarios to be presented, need to be clearly linked to the urgence and	We are presenting the results of existing scenarios/futures, we do not
								the scale of biodiversity loss.	decide what they focus on but do assess whether they focus on BD and in
555					Ch. 5				what way
	Fernando Jaramillo Monroy	Mexico	FAUNAM, A.C.	No				It would be interesting to have scenarios of the loss of values within the	We have included an assessment of how existing scenarios incorporate
556					Ch. 5			different Life Value Frames.	dimensions of the LVF however we are not generating new scenarios
	Fernando Jaramillo Monroy	Mexico	FAUNAM, A.C.	No				Establish what has worked, what has not worked and what is urgent	We do value this comment, and in the current version of the chapter,
557					Ch. 5			towards th future.	highlight key capacity enbalers and barriers.
	Sofía Treviño Heres							The scenarios from the Regional Assessments and from the Values	
								Assessment are supposed to be different, but understanding how other	
								scenarios present what works and what does not work to generate	The regional scenario work has now been better reflected on in
579		Mexico	CONABIO	No	Ch. 5			change is extremely important.	section 5.2 of the SOD.
	Mónica V. Alegre González							Should the chapter be talking about transformation or integration? It is	Whilst we reject the invitation to replace transformation with
								the integration of the values of biodiversity in productive practices	integration, we do see integration of values as one element of
592		Mexico	CONABIO	No	Ch. 5			which will have an impact on the transformation.	transformation
								Consider: How closely related nature do people feel? How is biodiversity	No context is provided, nor linand and page numbers - no action can be
593	Mónica V. Alegre González	Mexico	CONABIO	No	Ch. 5			important in people's everyday lives?	taken.
									We value this comments, however, it is too generic to address in the
									current form. We do however discuss diversities of values people hold for
594	Mónica V. Alegre González	Mexico	CONABIO	No	Ch. 5			Be clear about how different actors have different values.	others, and ways these values shape governance choices.
	-								We do not understand what the reviewer means here, however if this is
			Alianza Mexicana para la					Biodiversity-related-topics to communicate about scenarios need to be	about generating new scenarios, we are not doing this as we are focussing
600	Valeria Cruz Blancas	Mexico	Biodiversidad A.C.	No	Ch. 5			fundamented on very clear base lines.	on the assessment of existing scenarios
				1				•	
								IPBES and IPCC have been compared, and there has been a politization	
								that has made them seem paralel, but that has not been beneficial for	The comment is not clear, nor the desired shapes. We do not see that
			Alianna Mauianna nava la					biodiversity. The discourse around biodiversity has lost strength. Climate	
601	Valoria Cruz Plances	Movico	Alianza Mexicana para la	No	Ch E			change finds in the CBD solutions based in nature to manage and extract	the statement either that the biodiversity discourse has lost strength. IPBES stands as testement to this.
001	Valeria Cruz Blancas	Mexico	Biodiversidad A.C.	No	Ch. 5	-+	-	resources.	IF DES STAINUS AS L'ESTEMENT LO UNIS.
	La construction of a set		Coordinator bei Deutsche		Ch. F			Three axis (social, environmental and economic) are being considered,	I de mar en la constitución de l
	Jasmin Hundorf		Gesellschaft für Internationale		Ch. 5			but what are the influeces that each one will have to achieve just and	I do not see how this comment can be meaningfully addressed - it
617		Mexico	Zusammenarbeit (GIZ) GmbH	No				sustainable futures?	is too broad and unspecific
								The term "non-human" can easily become a discriminatory term. Be	
			Deutsche Gesellschaft für					careful when you use it (for example, during a while, some aboriginal	
			Internationale					groups were denominated "non-human"). Find a term that will	Valuable point. We will discuss the option of using the term "other-than-
622	Lizzeth Moreno	Mexico	Zusammenarbeit (GIZ) GmbH	No	Ch. 5			communicate the message in a clearer manner.	huamn" instead of " non-human"
			Deutsche Gesellschaft für						
			Internationale					The use of terms along the different chapters brings consistency to the	We have strived for conssitancy between chapters - TSU please assist us in
623	Lizzeth Moreno	Mexico	Zusammenarbeit (GIZ) GmbH	No	Ch. 5			Assessment.	ensuring alignement here.
				•			•		

	Lizzeth Morene	1	1	1	1 1		In order to have a clearer picture of what will be seen to 0	T
	Lizzeth Moreno						In order to have a clearer picture of what will happen in the	
							chapter, it would have been interesting to know the scenarios typology that the chapter will use. A well-built typology will allow	
			Deutsche Gesellschaft für				the communication of the outcomes to have a deeper impact.	
			Internationale				the communication of the outcomes to have a deeper impact.	We hope that our updated draft provides a clearer picture on the
624		Mexico	Zusammenarbeit (GIZ) GmbH	No	Ch. 5			scenario approach we have taken- see section 5.2.1
	Julio Campo	Mexico	Functional Ecology	No				
			Department, Ecology					We have discussed this in depth and we do agree in principle with the
			Institute, UNAM					reviewer. However, we also observe that in practice sustainability is often
							Could there be sustainability without justice? I think justice should be	pursued without attention to justice. That is why we follow others in
638	Discords Index Cons Cons	Marrian	FFCLI LINIANA	No	Ch. 5		part of the definition of sustainability.	separating out these terms. This position is also now clarified in Ch1
654	Ricardo Iván Cruz Cano	Mexico	FESI Igg, UNAM	NO	Ch. 5		Format needs to be improved to make the chapter more undestandable and readable (i. e. figure 5.3).	We are working towards enhancing the formate for readability and increased understanding.
034	Ricardo Iván Cruz Cano	Mexico	FESI Igg, UNAM	No	CII. 5	 	,	increased understanding.
	Ricardo Ivari Ciuz Cario	IVIEXICO	FEST Igg, ONAIVI	NO			Is it pertinent to have Anex 5.1? Should the case studies to be reviewed need to appear in the chapter? Is it worth it to put a list of examples of	We have removed this table 5.1? We agree there is no need for this detail
655					Ch. 5		the case sudies?	here. Thanks.
033	Ricardo Iván Cruz Cano	Mexico	FESI Igg, UNAM	No	CII. 5		Does the scale of values (Macro, Meso, Micro) takes into account the scale	TICLE HUING
656	meardo wan eraz cano	· · · · · · · · · · · · · · · · · · ·	1 251 1887 5117 1111		Ch. 5		or variation of time?	The text has been clarified in section 5.3
- 050	Adriana Carolina Flores Díaz	Mexico	CENTRUS, Universidad	No	C 5		Consider the work of Maass that nests the social system within the bio-	Thanks for the suggestion, but we are not sure how this relates to
666			Iberoamericana		Ch. 5		ecological system within the physical/chemical system.	the specifics of Ch 5 and its exploration of the futures works.
- 000	Patricia Koleff				C 5		The questions are crucial, but they seem circular. Beyond multiple	the specimes of one and its expression of the ratares works.
							values, it would be interesting to identify drivers. Also, there needs to be	
							an emphasis on what is helpful for decision-makers and how the chapter	We acknowledge this point. We have reworked the questions and paid
691		Mexico	CONABIO	No	Ch. 5		helps achieve the overall objective of the assessment.	more attention to drivers throughout the chapter.
	Patricia Koleff						To achieve a just and sustainable future will require to address many	There is not line numbering attached to this comment. We believe the
692		Mexico	CONABIO	No	Ch. 5		dimensions - only one of wich are multiple values.	text concures with this.
	Diana López Higareda						For now, the chapter does not offer a conclusion - it opens the panorama	We have made extensive progress in the SOD is completing
							too mcuh and only presents an idea of where you want to get to. You will	reviews and creating more clarity arround desirable futures -
							need to clarify what you mean by a "desirable future" and which values	these being just and sustainable futures. The conclusion with be
701		Mexico	CONABIO	No	Ch. 5		and elements play a role in building that future.	addressed in the TOD.
	María Perevochtchikova	Mexico	CEDUA, COLMEX	No			Why are value typologies different between ch2 and ch5? They should be	We have have reworked our value typologies as they relate to futures
734					Ch. 5		the same.	works. Chapter 2 will be consulted for further alignment in the TOD.
	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	Chapter 5 uses the green economy as one small component case study to
							methods compared to other methods. Ch5 talks about "the green	explore futures and trasntions within mainstream contexts. Much of the
735					Ch. 5		economy".	chapteris dedicated to non-economic contexts.
	María Perevochtchikova	Mexico	CEDUA, COLMEX	No			How will you determine which values are "desirable"? And for whom?	
							How will this be linked to the three types of justice and sustainability?	
							(for instance, what is desirable may be different taking a human justice	
							approach vs a non-human justice vs a human/non-human justice approach). And how will these three types of justice or desirable futures,	
							be communicated/"translated" to decision-makers? Will decision-makers	
							be encouraged to "choose" one desirable future, or how should they	manks. We only seek to highlight which values dright with just and
736					Ch. 5		balance the diversity of desirable futures?	sustainable futures. Section 5.1, and 5.2 have been reworked to demonstrate this point and the linkages.
/30	María Perevochtchikova	Mexico	CEDUA, COLMEX	No	CII. 5			We have included ILK sources in this chapter, please see 5.2.1, we also
737	iviaria i erevocritciiikova	IVIEXICO	CEDOA, COLIVIEX	NO	Ch. 5		How will indigenous knowledge be included in the literature review?	have a box focusing on ILK
	Jorge Ramírez	Mexico	Sciences, UNAM	No	1			Not clear what the commentary refers to. The whole chapter deals with
741	0			1	Ch. 5		Justice for whom? A just world, defined how?	this question.
	Jorge Ramírez	Mexico	Sciences, UNAM	No			The methodology includes revision of blogs, media and other non-	
							academic sources. This may potentially bias the results (as it will analyse	
							personal opinions rather than scientific facts). The methods section does	We have made our methods clearer in the now seperate methods report
742				1	Ch. 5		not clearly acknowledged how this bias will be addressed.	for the chapter.
		Mexico	CONANP	No			You may want to work on a sumplified scheme that helps align the	
750	Eduardo Robelo			1	Ch. 5		chapter's general objective with the overall assessment.	We are taking guidance from the co-chairs on this issue of alignment.
		Mexico	CONANP	No			Please present the cases and sources of data in a homogenised way (for	
							instance, with the same criteria across cases). Authors should reflect on	
							what key information is useful for decision-makers, and provide it for	We agree with this comment but we will need to continue working on
751	Eduardo Robelo	-			Ch. 5		each case.	this aspect for the next iteration
		L	1	1	1		Clearly define the concept of 'bioculture' or 'biocultural diversity' in	We will work on the concept of biocultures and biocultural
754	Sandra Solís	Mexico	CONABIO	No	Ch. 5		Chapter 2, to retake, making it concrete, in Chapter 5.	diversity with chapter 2 - TUS please can you assist here.
								We have re-defined two broad pathways of transformation, each othem
			1					includes numerous case stiudites. First, green economy, and second
707	Tania Albalí Cruz Marifa	Movies	Academic Workshop IIES	No	Ch E		Will two examples he sufficient to examplify transferrentias the second	Earth Stewardship will include Conservation of Biocultural diversity as
/6/	Tania Alhelí Cruz Mejía	Mexico	Morelia, Mexico Academic Workshop IIES	No	Ch. 5		Will two examples be sufficient to exemplify transformative change?	one of the cases along with others
769	Tania Alhelí Cruz Mejía	Mexico	Morelia, Mexico	No	Ch. 5		Why were these two cases chosen ('buen vivir' and green economy)?	The justification for each of these case studies has been strengthened.
,,,,	.aa.ra.ren erazirregia	cxico	cira, ivicarco	1	511. 5	<u> </u>	The state of the control of the state of the	me justimestion for each of these ease studies has been strengthened.

772	Fernando Estañol Tecuatl	Mexico	Academic Workshop IIES Morelia, Mexico	No	Ch. 5					I suggest that as part of the continuum of just and sustainable futures, to add as an axis the democratic planned economy and the communal, municipal, public, social and collective property towards building a better world.	We have not employed such an axis in a deducitve fashion but, more inductively, we have found the importance of values linked to collectivism.
			Ecological Economy							Successful cases are only successful for the ones not involved in the cases, how will successful case be defined, successful about what and for whom?	
//8	Eduardo García Frapolli	Mexico	Laboratory, IIES, UNAM	No	Ch. 5						We agree that it is difficult to judge "success". We have deleted this term.
			Ecological Economy							UN Assessments use justice and sustainability concepts that were built at a national level, but the authors are looking for evidence of the cultures,	
779	Eduardo García Frapolli	Mexico	Laboratory, IIES, UNAM	No	Ch. 5					how to solve this issue?	There is an unclear connection to text - no changes made.
,,,	Eduardo Garcia Frapolii	WICKICO	Educatory, IES, GIVAIVI	NO	CII. 3				1		mere is an uncrear connection to text no changes made.
786	Ariana García Galván	Mexico	Academic Workshop IIES Morelia, Mexico	No	Ch. 5					Ithink this chapter has many challenges ahead. One of the objectives is to report successful cases about multiple values within decision making towards a desired futures, yet each of the examples (green economy and 'buen vivir') have already a very well defined context, which make it hard (Or impossible) to replicate in other countries, that said, it maybe good to highlight generalities of each of the cases, and even propose other examples.	This is not one of our stated aims. Our aims are to explore the literature and to see which values may possible align better with just and sustainable futures. The examples noted here are only one small section. We have explored hundreds of case studiesin this chapter.
			Academic Workshop IIES							In the quest for a change in how justice and sustainability are defined, has	
796	Salma Citlali Martínez	Mexico	Morelia, Mexico	No	Ch. 5				1	the influence of power systems been consider?	Power is discussed at various points throughout the chapter.
797	Salma Citlali Martínez	Mexico	Academic Workshop IIES Morelia, Mexico	No	Ch. 5					Within the changes proposed, which are the ones suggested from the individual perspective? Which is the role of society?	In the SOD we try to be more specific about how the individual perspective and the societal perspective complement each other.
799	Óscar Armando Ugartechea Salmerón	Mexico	Academic Workshop IIES Morelia, Mexico	No	Ch. 5					How will the values to achieve a transformation be analyzed at an individual level?	In the SOD we included a literature search on the role of values for transformation, looking at both the individual level and the societal level. There are however limited results on which specific individual values would be needed for a transformation. I remember that there ws a discussion in our chapter to do survey on this, but I am not sure if this was taken forward.
800	Óscar Armando Ugartechea Salmerón	Mexico	Academic Workshop IIES Morelia, Mexico	No	Ch. 5					Will cases of failure be mapped as well as the success ones? It would be interesting to know the reason of failure.	We are mapping all values related to scenarios and futures works. Here there is lessknown about what has failed as these works are mosly foward casting and not retrospective analyses, so evaluating sucesses or failures the focus. The focus is on determining the values combinations related to different possible futures.
										The concept of "transformative change" should include in its definition	
			Academic Workshop IIES							" constant reorganization" since it also refers to the transformation	
804	Andrea Velásquez	Mexico	Morelia, Mexico	No	Ch. 5					of values over time	We have fully revised the definition of transformative change
	,		Academic Workshop IIES								,
805	Andrea Velásquez	Mexico	Morelia, Mexico	No	Ch. 5					Very ambitious and utopian. But I love it!	Thanks.
809	Ernesto Alonso Villalvazo Figueroa	Mexico	Academic Workshop IIES Morelia, Mexico	No	Ch. 5					Of all the chapters, it seems to me the most interesting, especially with regards to "Transformative change". I think it would be convenient to explain more in depth why the authors use as more desirable futures those that are more just and sustainable.	We have now clarified the use of this term and concept more clearly in the SOD.
961	Helen Michels - INBO	Belgium	HILDE EGGERMONT - Belgian National Focus Point - collated comments BELGIUM	No	Ch. 5	7	177	7	180	From the tekst it is not clear why exactly you consider just and sustainable as seperate goals. Can you clarify it better?	Thanks. Yes, we understand the concern and we now provide a stronger rationale for this. In principle we see the two as inseparable. In practice however we observe that sustainability is often pursued with insufficient attention to justice. This point is also now addressed in Ch.1
			HILDE EGGERMONT - Belgian			7					
			National Focus Point - collated							The former has become associated with What about the latter	
962	Helen Michels - INBO	Belgium	comments BELGIUM	No	Ch. 5		200		205	'transition'? Give a definition of tranistion or rephrase	The introduction to why transformations has been reworked for clarity.
063	Halan Minhala INDO	Dalaina	HILDE EGGERMONT - Belgian National Focus Point - collated	No	Ch F	9	241	0	299	For non specialist readers it would help if a concrete example was given	Agreed, whe have now integrated more suitable examples, but 5.3.1
963	Helen Michels - INBO	Belgium	comments BELGIUM	NO	Ch. 5	16	241	9	299	for the different approaches to transformation. Now it is very conceptual.	remains quite conceptual and this is something we still plan to work on
			HILDE EGGERMONT - Belgian			10		16	474	explain what you mean with 'the capacity to vision better futures'	
			National Focus Daint colleted			1		10	7/7	exprain what you mean with the capacity to vision better lutures	
964	Helen Michels - INBO	Belgium	National Focus Point - collated comments BELGIUM	No	Ch. 5		473				This sentence has been removed in the restructuring of this section
964	Helen Michels-INBO	Belgium	comments BELGIUM	No	Ch. 5		473				This sentence has been removed in the restructuring of this section. This phrase has been removed in the restructuring of this section.
964	Helen Michels - INBO	Belgium	comments BELGIUM HILDE EGGERMONT - Belgian	No	Ch. 5		473				This phrase has been removed in the restructuring of this section.
	Helen Michels - INBO Helen Michels - INBO	Belgium Belgium	comments BELGIUM	No No	Ch. 5		473		486	How can you produce a public value?	
			comments BELGIUM HILDE EGGERMONT - Belgian National Focus Point - collated			31			486	How can you produce a public value?	This phrase has been removed in the restructuring of this section. Deliberative multi-stakeholder processes as part of networked

		,					,				
			HILDE EGGERMONT - Belgian			46					
			National Focus Point - collated							Personally I would choose for value archetype. Afterall people can more	The emergence of the archetypes was unclear in the FOD. The analysis and
967	Helen Michels - INBO	Belgium	comments BELGIUM	No	Ch. 5		1082	46	1085	relate to values than to scenario's (which are very artificial).	development of the SOD has now clarified the relevant archetypes.
			HILDE EGGERMONT - Belgian			47					
			National Focus Point - collated								
968	Helen Michels - INBO	Belgium	comments BELGIUM	No	Ch. 5		1120		1120	typo: inStrumentental	Corrected. Thanks for pointing this.
			HILDE EGGERMONT - Belgian			47					
			National Focus Point - collated							Explain in more detail how the analysis was done and how you know a	We have added much detail into a methods report in the production of
969	Helen Michels - INBO	Belgium	comments BELGIUM	No	Ch. 5		1130	47	1130	sgd has been reached.	the SOD.
			HILDE EGGERMONT - Belgian								
			National Focus Point - collated						1238	typo: the use of	
970	Helen Michels - INBO	Belgium	comments BELGIUM	No	Ch. 5		1238				Thanks. This section has now been removed.
		Ü	HILDE EGGERMONT - Belgian			51					
			National Focus Point - collated							define option value when first used. Sentence is too long, doesn't make	
971	Helen Michels - INBO	Belgium	comments BELGIUM	No	Ch. 5		1241		1241	sence	Thanks. This section has now been removed.
371	Trecentilieners in Bo	Delgium	HILDE EGGERMONT - Belgian		CIII S	53	12.12		12.12	Scree	manus missectornasnow securemorea.
			National Focus Point - collated			33				Sentence not clear. Do you mean that a pathway in which biodiversity	
972	Helen Michels - INBO	Belgium	comments BELGIUM	No	Ch. 5		1276		1276	option value play as central role is a game changer?	Thanks. This section has now been removed.
312	THE CONTROLLED HADO	Delgium	HILDE EGGERMONT - Belgian		511. 3	54	12/0	 	12,0	option value play as central role is a game changer:	The state of the s
			National Focus Point - collated	1		54		1		First contance descrit make conce. Bost of paragraph needs	
072	Helen Michels - INBO	Belgium		No	Ch. 5		1308	1	1315	First sentence doesn't make sence. Rest of paragraph needs more	Thanks. This section has now been removed.
9/3	TIETEN IVIICHEIS - HNBU	peigiuiii	comments BELGIUM	No	CII. J	F.C	1308	1	1212	explanation as well.	manks. mis section has now been removed.
			HILDE EGGERMONT - Belgian	1		56		1			The above for this character This is a second of
67.	Halan Michala INDC	Dalairea	National Focus Point - collated	No.	Ch E		4222	1	1220	there we in terms of sole for solution and the solution of the	Thank you for this observation. This section is no longer present in the
9/4	Helen Michels - INBO	Belgium	comments BELGIUM	No	Ch. 5	-	1328	1	1328	three main types of role for values-> only two discussed, what about c)?	SOD.
			HILDE EGGERMONT - Belgian	1				1		[
1 !		L	National Focus Point - collated	L			l	1	1	A concrete example would would make this paragraph more	L., .,
975	Helen Michels - INBO	Belgium	comments BELGIUM	No	Ch. 5		1448	ļ	1459	understandable.	We add a concrete example about cultivating values.
			HILDE EGGERMONT - Belgian	1		GENERAL		1			
] .	National Focus Point - collated	I				1		I miss a bit the reasoning behind the analyses. More details on the types	This section have been extensively revised in the SOD and the types of
977	Helen Michels - INBO	Belgium	comments BELGIUM	No	Ch. 5		1120	L		of values analysed would be good.	values explored in now clear.
			HILDE EGGERMONT - Belgian	I		GENERAL	1	1		The text is very conceptual especially the second half, which makes it	This is done - with many more examples and more relevant to
			National Focus Point - collated	I			1	1		sometimes hard to read. So more boxes with concrete exemples would	biodiversity. However, we realise that we still have further to go to fully
978	Helen Michels - INBO	Belgium	comments BELGIUM	No	Ch. 5			ļ		improve readibility .	respond to this important point.
				_		1	1	1		The statement that institutons 'determine' decision-making is a very	
				1				1		structuralistic view of the world. Other views in literature exist (for	
				1				1		instance 'new institutionalism') in which the relationship is much more	
				I			1	1		bidirectional and not as deterministic, leaving more freedom to agency:	
			HILDE EGGERMONT - Belgian	1				1		institutions rather 'shape' decision-making while they are reproduced	We very much agree that individuals shape institutions as institutions
			National Focus Point - collated	1				1		but also changed by decision-making. So agents are not entirely	shape the behaviour of individuals. Please note that we have further
979	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		32			determined by the institutional context in which they operate.	developed this section and seize now more the bidirectional relationship.
			HILDE EGGERMONT - Belgian			3				explain instrumental & relational values: they are not necessarily clear to	These concepts are used through out the assessement, and cannot be
			National Focus Point - collated	I				1		the reader at this point; or add reference to a previous chapter or box, if	explained in every chapter. They need to be clarified in a glossary and in
980	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		96	.[they were already explained	chapter 1
		_				7					
				I			1	1		The definition of transformative doesn't seem to differ too much from	
				I			1	1		how transition is defined and applied in research. For instance, notions	
				1				1		of power struggle and lock-in mechanisms are also part of transition	
				I			1	1		research. From what is discussed here it seems that the difference	
			HILDE ECCERMONT Delete	I			1	1		between 'transition' and 'transformative change' is more a matter of	
			HILDE EGGERMONT - Belgian National Focus Point - collated	1				1		semantics. If there is a more fundamental difference, please explain. From	Thanks we agree this is problematic. The transferrentian costing to
001	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		200	l		lines 342 (p.12) and 445 (p.15) it seems that the authors also see transitions and transformations as interchangeable constructs.	Thanks, we agree this is problematic. The transformation section has been reworked to better define transformations within this context.
301	Wouler vali neerii iivbo	Deigiuiii	COMMISSION BELGIOW	INO	CII. 3	0	200	1	1	transitions and transionnations as interchangeable constitucts.	
				I		٥		1		What was all largest make dutional hours to be at all to refer and to a	We have removed this term. We still consider the examples stated as
			HILDE EGGERMONT - Belgian	I			1	1		What you call 'proximate drivers' here, is typically referred to as	drivers - e.g. an incentive system that favours agriculture can be a driver
	Manager Name Bands 11170	D. d. alimon	National Focus Point - collated	l	Cl. F			1		'response' (policy instruments like incentive schemes, protected areas,)	of deforestation. But we also agree that an incentive system can also be a
982	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		207	 	<u> </u>		response (to another problem).
			HILDE EGGERMONT - Belgian	I		10	1	1			
		L	National Focus Point - collated	L			1	1			
983	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5	1	295	ļ	ļ	forms of knowledge' or 'types of knowledge' in stead of 'knowledges'	Agreed, 'knowledges' is not good english and has been removed.
			HILDE EGGERMONT - Belgian	I		11	1	1			
		l .	National Focus Point - collated	I			1	1		nature's in stead of natures; centered i.s.o. centred; decentered i.s.o.	
984	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		335	12	350	decentred	Thanks, has been changed.

for an excellent text on the coevolution between ecosystems, values, knowledge, technology and social organisation, which backs up what is being told on this page about coevolution (e.g. in line 363), see also Norgaard R.B. (1992) Coevolution of economy, society and environment. National Focus Point - collated comments BELGIUM No Ch. 5 343 12 355 Wealth Creation. London: Routledge, p. 76-86.	
15	ny shelf from long back and will refresh
In addition to 'power' and 'values', I would also expect 'discourse' to be mentioned here. It could refere to the structures of meaning from wich narratives are drawn. See for instact structuration from (Giddens, 1979, 1984) or theory of policy arrangements (Arts, B., Leroy, P., & van Tatenhove, J. (2006). Political Modernisation and Policy Arrangements: A Framework for Understanding Environmental Policy Change. Public Organiz Rev, 93-109. 411 Dordrecht, The Netherlands: Springer Science + Business Media BV.; or Arts, B., van Tatenhove, J., & Leroy, P. (2000). Policy Arrangements. In J. van Tatenhove, B. Arts, & P. Leroy, Policy Arts, & P. Leroy, Policy Arts, & P. Leroy, Policy Arts, & P. Thanks. we will work on this and values and the Netherlands: Kluwer Academic Publishers). Discourse is briefly mentioned in line 440, but I	we think it is important, especialy given and values. We have however removed of these aspects later in the chapter (see
	cursive power in a current text box but
986 Wouter Van Reeth INBO Belgium comments BELGIUM No Ch. 5 393 have not analysed this in detail.	
HILDE EGGERMONT - Belgian 15	
National Focus Point - collated see earlier reference of Norgaaard (1992), who links values with	
987 Wouter Van Reeth INBO Belgium comments BELGIUM No Ch.5 445 coevolution & change thanks again for this suggestion	
	oduce Giddens although the way we nd values in social change does align
	The intention was not about importance
	ation increasing. But we agree this can be
HILDE EGGERMONT - Belgian not respect speed limit). So I would argue that evaluative statements that can be true or false, the evaluative statements that can be true or false, the evaluative statements that can be true or false.	'ist not an evaluative but a factual claim uative claim is: not respecting the speed is: one ought to0 respect the speed terconnected, but not identical
991 Wouter Van Reeth INBO Belgium comments BELGIUM No Ch. 5 623 21 sustainability a 'wicked problem' (Rittel & Webber, 1973). sconcepts in chaper1 and 2	nd aligned to the formulation of these
HILDE EGGERMONT - Belgian 26 Health also makes use of cultural services, for instance the proximity and	
National Focus Point - collated 1/9/ accessability of green space in which one can spend time 1 This section has been entirely rew	vorked, and this sentence has been
992 Wouter Van Reeth INBO Belgium comments BELGIUM No Ch. 5 796 removed.	
	section to reflect the links to different
National Focus Point - collated If you refer to some typology of values that was developed or presented Thank you, we have updated our segments BELGIUM No Ch. 5 871 874 earlier, please refer to it. Chapters and frameworks of values Chapters and frameworks Chapters and f	section to reflect the links to different
HILDE EGGERMONT - Belgian 30 Chimients section 180 Chi. 3 Solution	esponagies accaccionates
National Focus Point - collated	
994 Wouter Van Reeth INBO Belgium comments BELGIUM No Ch. 5 878 880 check the grammatical strucure of the sentence Thank you for the pointer. We have	ve altered the sentence.
In the 'Who acts?' row, individuals and communities are mentioned, households are not. The fact that households have evolved in much of the western world from producing entities to (mostly) consuming entities is major shift in our social organisation which co-evolves with other spheres like technology, ecosystems/landscapes, etc. Institutionally, National Focus Point - collated households are not at all identical to individuals, so perhaps they should be added to the analysis as a seperate social entity.	have included 'households' in our
posprivous connecti invo pergium pergium pergium prominents descrivivi pivo perio per pergium pergium pergium prominents descrivivi pivo perio pergium	

996	Wouter Van Reeth INBO	Belgium	HILDE EGGERMONT - Belgian National Focus Point - collated comments BELGIUM HILDE EGGERMONT - Belgian	No	Ch. 5	39		40	962	In the 'Value justification line': Jax et al., Ecosystem services and ethics in Ecological Economics 93 (2013): 260-268 distinguishes inherent moral values (= intrinsic), instrumental values, 'eudaimonistic' values (= relational) but also a fourth type, 'fundamental values' which relates to basic requirements for life on Earth. This value type is not withheld in IPBES it seems. It could however be linked to Paul Ekin's notion of critical natural capital (CNC, see Ecological Economics 44 (2003):165-185), which suggests a threshold below which values get a fundamental character. For instance food & water, typically associated with provioning services and measured via economic/instrumental values also represent fundamental values, if critical life support issues are involved. Perhaps also relevant for chapter 2 (typology of values), which I didn't review. While option 2 would certainly be interesting as an academic exercise	Thanks, but as you note, the comment may be more appropriate for chapter 2. TUS please assist in passing this suggestion to CH2.
997	Wouter Van Reeth INBO	Belgium	National Focus Point - collated comments BELGIUM	No	Ch. 5		1075	46	1085	and a journal publication, I think option 1 would be more accessible and practically useful for a broad IPBES audience. So I suggest option 1.	The emergence of the archetypes was unclear in the FOD. The analysis and development of the SOD has now clarified the relevant archetypes.
998	Wouter Van Reeth INBO	Belgium	HILDE EGGERMONT - Belgian National Focus Point - collated comments BELGIUM	No	Ch. 5	46	1094			Not always disregards values of nature: someetimes it appears to assume that by focusing on a strong economy also professional care of nature can be improved. Similar to the reasoning that economic growth will foster more social security, better healthcare & education,	We are refining the descriptions of the Archetypes. Some of these are detailed in the SOD, the remainder of changes will follow in the TOD.
990	Wouter Van Reeth INBO	Belgium	HILDE EGGERMONT - Belgian National Focus Point - collated comments BELGIUM	No	Ch. 5	47	1121	48	1125	I prefer stacked bars for these comparisons to the presentation used here, because of the better visual grouping of data per scenario archetype.	We don't agree stacked bar graphs can be more difficult to read and one is constantly having to visually calculate the values. We feel this is a clear easier to read output.
993	TOSCO VOI NECOT INDO	Scigium	HILDE EGGERMONT - Belgian National Focus Point - collated		511. 5	50	1121	,0	-123	The storyline of the case study under 5,3,3 isn't clear to me, the key question in line 1168 is quite vague, and its relevance unclear also. This	Salaria sa cara arepara
1000	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		1162	55	1316	section seems anecdotic at this stage of writing.	Thanks. This section has now been removed.
			HILDE EGGERMONT - Belgian National Focus Point - collated			57				see the Flemish 'Nature Outlook 2050', available at www.inbo.be (english website) which gives an account of both positive and negative effects during stakeholder workshops when developing & discussing alternative	
1001	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5	58	1374	57	1377	pathways	Thank you for suggesting this useful reference. We added it.
1003	Wouter Van Reeth INBO	Belgium	HILDE EGGERMONT - Belgian National Focus Point - collated comments BELGIUM	No	Ch. 5	36	1415	FO		add a reference to figure 5.7 here, which containes examples of the rather abstract statements of lines 1415-1418	We now reference Fig 5.7 at line 1415
1002	Wouter van keetii iivbo	beigiuiii	HILDE EGGERMONT - Belgian	NO	CII. 5	59	1415	36		abstract statements of fines 1415-1416	We now releightering 5.7 at time 1415
1003	Wouter Van Reeth INBO	Belgium	National Focus Point - collated comments BELGIUM	No	Ch. 5		1430			Can you add some references of this 'vivid debate in literature'?	The references are given in the following paragraph, but we will make this more obvious.
			HILDE EGGERMONT - Belgian National Focus Point - collated			59				What is the difference, in Abson's figure between level 5 (the rules of the system, e.g. incentives) and level 12 (parameters, such as subsidies)?	We now recognise interlinkages and overlaps between the levels in the
1004	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5	60	1433			Because subsidies may exactly alter incentives.	text.
1005	Wouter Van Reeth INBO	Belgium	HILDE EGGERMONT - Belgian National Focus Point - collated comments BELGIUM	No	Ch. 5		1461		1462	The question whether values are a means or rather an outcome, seems to be based in a rather rational-positivist, unidirectional cause-effect logic. While at other places in the tekst you have referred to framework of coevolution of multiple spheres, which offer a richer framework to understand the complex an ongoing dynamics of how values, instutions, technology, ecosystems act & react on each other. Isn't the question whether values are a leverge for change or rather the outcome of change, trying to frame the question in a rational-positivist, Newtonian logic?	We try to add more nuance. However, we do specify in our text that values are both a process and an outcome, hence recognising ciclicity.
			HILDE EGGERMONT - Belgian National Focus Point - collated			60				Can you give some examples of such initial transformation frameworks to	
1006	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		1482	60	1484	clearify/back-up your statement?	We now provide Brand 2016 as reference.
1007	Wouter Van Reeth INBO	Belgium	HILDE EGGERMONT - Belgian National Focus Point - collated comments BELGIUM	No	Ch. 5	61	1506		1507	green economy' or expressions like 'greening the economy' do not always adhere to degrowth or steady-state economics, they also may use a 'green growth' discourse; see also comment on line 1617	Thank you for this useful distinction. We now clarify this point as suggested. See also response to teh previous comment
1008	Wouter Van Reeth INBO	Belgium	HILDE EGGERMONT - Belgian National Focus Point - collated comments BELGIUM	No	Ch. 5	63	1556	63	1587	There isn't of course one best way to categorize and label values. But perhaps the typology used/presented here could be more closely alligned with the categories discussed earlier.	We will build on the terminology from Ch2 and explain better how values fit into the BCW framework
1009	Wouter Van Reeth INBO	Belgium	HILDE EGGERMONT - Belgian National Focus Point - collated comments BELGIUM	No	Ch. 5	63	1588	64	1636	While the BCW provides a nice and quite broad structure for coding policy documents, the relationship between these codes and the values remains somewhat underdeveloped here. Can you elaborate on this? Since you suggest in line 1588 and further, that the intention is to close this value-action gap.	We have clarified the role of values in the BCW framework and analyzed the extent to which interventions relate to values

_	T	1		1		1 1					
			HILDE EGGERMONT - Belgian			68					
			National Focus Point - collated							Here you link 'green economy' with 'sustainable economic growth', while	
1010	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		1716			earlier you linked it with degrowth. See also comment on line 1506.	We have dropped the close link to degrowth.
			HILDE EGGERMONT - Belgian			71					
			National Focus Point - collated								
1011	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		1807			"If wisely designed": please clarify what this means	Replaced "if wisely designed" by "in principle".
						71				You could link this to, or explain this by, the notion of co-evolution, e.g.	
										as illustrated by Norgaard (1992): changing the subsystem of social	
										organisation (e.g. by policy instruments that tries to correct for market	
			HILDE EGGERMONT - Belgian							failures) may affect the subsystem 'ecosystem/landscape' (e.g. different	
			National Focus Point - collated							management practices by private land users) but also affects the	We agree. However, we prefer to not introduce another concept, as even
1012	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		1815			subsystem 'values' (e.g. by altering their motivations).	without this, the section utilizes rather many concepts and ideas.
			HILDE EGGERMONT - Belgian			71					
			National Focus Point - collated								
1013	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		1819			"in terms of prices, which represent exchange values"	Rephrased.
			HILDE EGGERMONT - Belgian			79					
			National Focus Point - collated							with' in stead of 'which'? Grammatical structure not correct.	
1014	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		2089				Corrected.
			HILDE EGGERMONT - Belgian			79					
			National Focus Point - collated		1					institutions are the formal and informal rules and behavioural patterns	
1015	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		2103			by which we co-ordinate social interaction	Definition of institution has been added to the assessment's glossary
		Ĭ	HILDE EGGERMONT - Belgian			81					,
1			National Focus Point - collated							these 4 types of interaction are not self-explanatory, so if you introduce	
1017	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		2170	81	2172	them, better explain or illustrate them	The text has been substaintially revised.
			HILDE EGGERMONT - Belgian			83					
			National Focus Point - collated								
1018	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		2218			check paragraph numbering: 5,5,2,1 i.s.o. 5,5,1,1	Thanks.
						85				I'd include something about multifunctionality in your search, since	
			HILDE EGGERMONT - Belgian							these function often are proxies of the type of values that policy	
			National Focus Point - collated							instruments embrace. E.g. the economic, climate, recreation &	
1019	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		2282			ecological functions of forests.	We agree and use multi-functionality as a keyword search
1015	Would van Needi in Bo	Delgium	COMMERCE DEEGLOW		0111.5	90	LLUL			ecological fallectors of forests.	We up the disc mark functionality as a keyword search
						30				I disagree with the first statement, and agree with the second. The	
										exercise of (political))power is typically based on an an agenda that	
									2448	requires an understanding of what interests to defend, and how to	
									2440	defend them. It does not necessarily require a basis of scientifically	
			HILDE EGGERMONT - Belgian							grounded knowledge. But it is correct to state that scientific knowledge	
			National Focus Point - collated							production is not independent of power relations or struggles.	
1020	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5	04	2447				Text has been substantially revised in light of this comment
						81				These lines again make a case for 'transformational governance' that can	
										be delineated from 'adaptive governance', much like the suggested	
										difference between transition and transformation at the start of the	
										chapter. But throughout section 5 references are made made to the	
										adaptive governancen/management literature, so the delineation isn't	
			HILDE EGGERMONT - Belgian							clear at all. If there is a clear difference and if it has added value, please	
			National Focus Point - collated							indicate so, but refrain from shifting to a new vocabulary which is still	Agree. Section 5.5.1 (now section 5.3.5 has been updated in delineating
1021	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		2188	82	2193	mixed with the old one.	these concepts.
			HILDE EGGERMONT - Belgian			82					
			National Focus Point - collated		1					Figure 5,3 needs more explaining what it involves and why it is relevant	
1022	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5	<u> </u>	2199	<u></u>	<u> </u>	for the point that you're making.	We have removed fig 5.3.
			HILDE EGGERMONT - Belgian			91				Very vague statement, not clear in what way facilitation & ind.	
1			National Focus Point - collated		1					Leadership is essential to 'robust learning'; also not clear what 'robust	
1023	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		2464			learning' means.	Text has been substantially revised in light of this comment
			HILDE EGGERMONT - Belgian			91				This question focues ILK, but the focus could just as well be on the role of	
1			National Focus Point - collated							knowledge developed by private funding (e.g. from business dependent	We value this comment, and would be elaborating on this in further
1024	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5		2471			research centres) vs. Publicly funded science.	work. Literature for drawing conclusions has been located.
			HILDE EGGERMONT - Belgian			GENERAL		1		Section 5,4 & 5,5 are more 'intentions at analyses' than actual results -	
			National Focus Point - collated]				apart from some references to literature & conceptual frameworks, so	Yes, this is correct. We have now formally reviewed the literature
1025	Wouter Van Reeth INBO	Belgium	comments BELGIUM	No	Ch. 5					they need further work before allowing a proper review	inrelation to these two sections. Please see section 5.3 SOD.
		- 0								Company of the compan	
										Consul assument, this should be this should be the second	
										General comment: It is clear that this chapter has been written without	The MA has not received issues the utilities discussion!! definite in the transfer
										acknowledging the problems of the CBD defintion of biodiversity. It	The VA has not resolved issues about "biodiversity" definition, but our
										could be rephrased to include a more utilitarian approach (as a quality	focus on values seems to point to advantages in the interpretation as
1										defined by a variety of property indices) as described by Feest (2010). In	"variety" - so havig a compatibility with the CBD def and previous 50
1050	Alan Feest	United Kingdom	University of Bristol/ecosulis	No	Ch. 5					this way indices such as biomass or evenness might be regared a relevant to the "value" of Biodiversity and NCP.	years work; adding in other aspects is not required for having a link to human benefits and NCP
1050	Aidii FeeSt	onitea Kingaom	Oniversity of Bristor/ecosulis	NO	CII. 3			L		to the value of blodiversity and NCP.	numan penents and NCP

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405 Alla Fatet united Graphe of Minestry of Batalylecasis in September 1997 (1997) and the Company of Company											
1922 Market Words Engingen Words (Figure Words (Figu	1051	Alan Feest	United Kingdom	University of Bristol/ecosulis	No	Ch. 5	_	-		encompass so comments are brief and only for the first parts.	
Object Object of Special Process Object of Special P	1052	Alan Feest	United Kingdom	University of Bristol/ecosulis	No	Ch 5	2	63		Individuals and groups	
No.							19	_	-	ů i	
1906 No Freed	1000	7 Harri Cest	omica imgaom	omversity of Briston, education		Cin 5		.51		8	This series have been removed.
Mary	1054	Alan Feest	United Kingdom	University of Bristol/ecosulis	No	Ch. 5	20	Box 5.1		Does not fit! Check for other occurrences	This box has now been removed.
1950 After feet: 1960 After feet: 1970 A							29			Here a better defintion of biodiversit might give a more realtionship with	This section has been entirely reworked. Better definition of biodiversity
1956 Services United Engines University of Prince of Accounts Services Servi	1055	Alan Feest	United Kingdom	University of Bristol/ecosulis	No	Ch. 5		762			can be found in section 5.2 (UN Box).
Section Sect							47				
Second Content of Content of Lington Department of	1056	Alan Feest	United Kingdom	University of Bristol/ecosulis	No	Ch. 5		Table 5.4		biodiversity quality concept (as above)	further, but for the SOD we have stuck this intrinsic value.
100 Man Feet United Ringston University of Biotocylecously No. 1 1 1 1 1 1 1 1 1							53				
Secondaries	1057	Alan Fasat	Haitad Kinadan	Linius and Daistel /accounts	Na	Ch F					
New Feet United Ringslow Processes of Services. United Ringslow Company of Ministry and Ministry of Ministry (Ministry) of Ministry (Min	1057	Alan Feest	United Kingdom	University of Bristol/ecosulis	NO	Cn. 5	EO	5.6 & 5.7		value in these histograms. Is this correct?	
105 Aim Feet University of Britisol Acoustis No. Ch. 5 1112 1170 200 The quality content in such assistance in much season or years of the consistence of the production of th							36				
1012 Americal interest with interest perfect p											
1098 American University of first of Longoon University of first of Longoon University of first of Longoon Company								1170		CBD. The quality concept makes these assessments much easier	
Université Renes, Campunde 100 Anne Atlan 101 Anne Atlan 102 Anne Atlan 103 Anne Atlan 104 Anne Atlan 105 - Espace et Scioléés, Lumpunde 105 - Espace et Scioléés, Lumpunde 106 Anne Atlan 107 Anne Atlan 108 Anne Atlan 109 Anne Atlan 109 Anne Atlan 100 Anne Atlan	1058	Alan Feest	United Kingdom	University of Bristol/ecosulis	No	Ch. 5		&1183			
100 Anne Atlan							7			This is a key point. I understand the utility to seprate outcomes from	
ESO - Exposes of Societies, Universit Remans, Campus de Villejaan No				Université Rennes, Campus de							Thanks, we will clarify. Our intention was not to propose pathways as a
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102 Anne Atlan France Villegen No Ch. 5 So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 Figure So So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 Figure So So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 Figure So So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 Figure So So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 Figure So So Espaces de Sociétés, Universit Rennes, Campus de No Ch. 5 Figure So Societal			_								
Université Rennes, Campus de Ch. 249-264 Also cite the sociology of traduction by Callon and Latour. do here Ch.	1101	Anne Atlan	France	7	No	Ch. 5	0	216		the context of values. This should be better explained.	'
102 Anne Atlan France Villegian No Ch. 5 29-264 Also cite the sociology of traduction by Callon and Latour. do heve.							9				
SSS_Epaces of Societies, Universite Rennes, Campus de Université Rennes,	1102	Anne Atlan	France		No	Ch 5		249-264		Also cite the sociology of traduction by Callon and Latour	= -
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1103 Anne Atlan France Villejan No Ch. 5 332				· · · · · · · · · · · · · · · · · · ·						Maybe precise co-evolution between what and what	Agree, thanks. We have removed most use of co-evolution as we found
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1106 Anne Atlan							13			The fuigure suggests that the links only binarians (each sphere with its	
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ESO - Espaces et Sociétés, Université Rennes, Campus de Université Rennes,	1109	Anne Atlan	France		No	Ch 5				nepetitions, e.g. 035-047 and 002-005	these sections have been removed in the SOD
Université Rennes, Campus de Villejean No Ch. 5 739-743 uses and options can coexist - providing certain conditions that the chapter attempts to clarfy. This has now been removed. ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 The section is very interesting, but the "aterial and Methd" section is too long. It should be synthetized here, and put as a whole in an annex. ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 Thank you! We will include the full methodology in an annex. ESO - Espaces et Sociétés, Université Rennes, Campus de U	1103	, and , and		,		511. 5	25	1		The metaphore of the "cake" is a hit easy, and rather misleading. Some	and a section of the
1110 Anne Atlan France Villejean No Ch. 5 739-743 chapter attempts to clarfy. This has now been removed. SO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 739-743 chapter attempts to clarfy. The section is very interesting, but the "aterial and Methd" section is too long. It should be synthetized here, and put as a whole in an annex. SO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 Villejean No Ch. 5 Villejean No Ch. 5 We have clarified parallel as being carried out seperately but at the same			1					1			
ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 43 The section is very interesting, but the "aterial and Methd" section is too long. It should be synthetized here, and put as a whole in an annex. Thank you! We will include the full methodology in an annex We have clarified parallel as being carried out seperately but at the same	1110	Anne Atlan	France		No	Ch. 5		739-743			This has now been removed.
Université Rennes, Campus de Villejean No Ch. 5 long. It should be synthetized here, and put as a whole in an annex. ESO - Espaces et Sociétés, Université Rennes, Campus de Université Renne							30-43			The section is very interesting, but the "aterial and Methal" section is too	
1111 Anne Atlan France Villejean No Ch. 5 Thank you! We will include the full methodology in an annex ESO - Espaces et Sociétés, Université Rennes, Campus de We have clarified parallel as being carried out seperately but at the same			ĺ	Université Rennes, Campus de						1 · · · · · · · · · · · · · · · · · · ·	
Université Rennes, Campus de We have clarified parallel as being carried out seperately but at the same	1111	Anne Atlan	France	•	No	Ch. 5					Thank you! We will include the full methodology in an annex
			ĺ				43				
1112 Annie Artain France Faince Mo Cu. 2 Aasaas Musta do you mean by "in parailei" ? Itme.	1112	A Atla-				Ch E		000 000		What do you make hy "in nevel of " 2	
	1112	Anne Auan	rrance	viiiejeafi	NO	CN. 5	1	398-999		what do you mean by "in parallel" ?	ume.

Meredith Root-Bernstein Meredith Root-Bernstein	Chile Chile	France; INRA AgroParisTech, Paris, France; Institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and Sustainability Musée de l'Homme, Paris, France; INRA AgroParisTech, Paris, France; Institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and Sustainability France; INRA AgroParisTech, Paris, France; institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and Sustainability France; INRA AgroParisTech, Paris, France; Institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and	No No	Ch. 5	12	96	12		because some people hold them. This is not hair-splitting. I think it is important to be clear on the nature of the problem, in your view: is it a problem that individuals are hypocritical and don't act on their values, or is it an issue that corporate and political powers impose action frameworks on people in spite of their values? You lose nothing from being clear here. I think that your challenge here (not just in this Chapter but throughout the report) is to decide whether this list of important factors includes values as one element (as suggested by this list), or whether values englobes and stands in for all of those factors. I see both of those positions being used at different points of the report. I realize that your challenge in this particular chapter is to try to make values appear to be relevant to transformative change, despite the lack of literature on this particular issue. I hope that it will at least be clear whether values are an overarching stand-in concept for all social science issues, or a specific concept that may have limited relevance. As already hinted by the comment in parentheses, I think its critical that you figure out what values are so that you can determine whether "interests", but also, I would suggest, "justice norms" are values.	We have augmented this sentence to better reflect who we are talking about. Much of the details related to this issue are unpacked in the sections that follow. Given that this is the intorduction we have kept this brief. Thanks, our SOD highlights a more values-centred perspective. Thanks, we have developed a stronger cross-chapter set of definitions
		Paris, France; Institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and Sustainability Musée de l'Homme, Paris, France; Institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and Sustainability							because some people hold them. This is not hair-splitting. I think it is important to be clear on the nature of the problem, in your view: is it a problem that individuals are hypocritical and don't act on their values, or is it an issue that corporate and political powers impose action frameworks on people in spite of their values? You lose nothing from being clear here. I think that your challenge here (not just in this Chapter but throughout the report) is to decide whether this list of important factors includes values as one element (as suggested by this list), or whether values englobes and stands in for all of those factors. I see both of those positions being used at different points of the report. I realize that your challenge in this particular chapter is to try to make values appear to be relevant to transformative change, despite the lack of literature on this particular issue. I hope that it will at least be clear whether values are an overarching stand-in concept for all social science issues, or a specific	about. Much of the details related to this issue are unpacked in the sections that follow. Given that this is the intorduction we have kept this brief.
		Paris, France; Institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and Sustainability Musée de l'Homme, Paris, France; INRA AgroParisTech, Paris, France; Institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and							because some people hold them. This is not hair-splitting. I think it is important to be clear on the nature of the problem, in your view: is it a problem that individuals are hypocritical and don't act on their values, or is it an issue that corporate and political powers impose action frameworks on people in spite of their values? You lose nothing from being clear here. I think that your challenge here (not just in this Chapter but throughout the report) is to decide whether this list of important factors includes values as one element (as suggested by this list), or whether values englobes and stands in for all of those factors. I see both of those positions being used at different points of the report. I realize that your challenge in this particular chapter is to try to make values appear to be relevant to transformative change, despite the lack of literature on this particular issue. I hope that it will at least be clear whether values are an overarching stand-in concept for all social science issues, or a specific	about. Much of the details related to this issue are unpacked in the sections that follow. Given that this is the intorduction we have kept this brief.
Meredith Root-Bernstein	Chile	Paris, France; Institute of Ecology and Biodiveristy, Santiago, Chile; Center for Applied Ecology and	No	Ch. 5		96	4	99	because some people hold them. This is not hair-splitting. I think it is important to be clear on the nature of the problem, in your view: is it a problem that individuals are hypocritical and don't act on their values, or is it an issue that corporate and political powers impose action frameworks on people in spite of their values? You lose nothing from	about. Much of the details related to this issue are unpacked in the sections that follow. Given that this is the intorduction we have kept this
		Musée de l'Homme, Paris,			4				These values are "not being evaluated" by whom? I think it would be valuable in the introduction to be clear who, or what processes, are not taking these values into account. If these values do exist, it must be	
Anne Atlan	France	ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean	No	Ch. 5	66-91				I found these sections enlightening, and I have no further specific comments.	Thank you!
Anne Atlan	France	Université Rennes, Campus de Villejean	No	Ch. 5		Figure 5.7			I would have like soe more detailed comments on that figure	We crossreference this figure in the text several times, and expanded the legend.
Anne Atlan	France	Université Rennes, Campus de Villejean	No	Ch. 5		1431			Could you provide references ?	References follow in the following paragraph, as we now specify.
Anne Atlan	France	ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean	No	Ch. 5	57	1358- 1359			please clarify the difference between socio-cultural and contingent valuations, maybe with examples	Although this is not within the scope of Ch5, as Ch3 is dedicated to methods, we crossreference Ch3 and provide short examples.
Anne Atlan	France	Recherche CNRS, Laboratoire ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean	No	Ch. 5		1318- 1319			As I said in my remark on line 174, I am still not sure that a process is a value. I guess I understand what you mean, but I would prefer a different formulation. "The role of values at different levels of the changing process" (line 1325) is clearer.	We expand on what we mean by values as process in sub-sequent sections. We link values as process to mode 2 science.
Anne Atlan	France	ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean	No	Ch. 5	53	1250			Also environmental justice and intersectionality	We have tried to provide more examples here, and adapted the text for greater clarity.
Anne Atlan	France	ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean	No	Ch. 5	51	1172- 1183			I would need more concrete examples	The section has been removed.
Anne Atlan	France	ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean	No	Ch. 5	47	Figure 5.6			What are the "other" values ?	Thanks, the category 'other' have now been removed from figure 5.6, which have also been reworked
Anne Atlan	France	ESO - Espaces et Sociétés, Université Rennes, Campus de Villeiean	No	Ch. 5	47	119-120			Is inequality only similar to regional competition? Does it not also include dominance of the values of one social group/community/culture?	(Correct lines: 1119-1120). Thanks for the comment. We have now provided clearer descriptions of the different archetypes in the SOD.
Anne Atlan	France	Recherche CNRS, Laboratoire ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean	No	Ch. 5	45	1071- 1092			scenarion achetypes. I tried to identify some "value archetype" in a study on subantarctic islands (Atlan and van Tilbeurgh, Vertigo, mars 1999), and it provides helpfull keys of reading. I am convinced that such archetypal combinations of values are strongly dependent of situations	Thanks for the references and the pointer. We have now developed a link between the archetypes and values. Please see section 5.2 SOD.
	Anne Atlan Anne Atlan Anne Atlan Anne Atlan Anne Atlan Anne Atlan Anne Atlan	Anne Atlan France	ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean	ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean Anne Atlan France France Anne Atlan France France	ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean Anne Atlan France ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5	ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean Anne Atlan France ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 Anne Atlan France ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 Anne Atlan France ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No Ch. 5 Societés, Université Rennes, Campus de	ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean 1071- 1092	ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean No	ESO - Espaces et Sociétés, Université Rennes, Campus de Villejean	Recherche CNRS, Laboratorie ESO-Espaces et Sociétés, Universit Remies, Campus de Villejon Prance Villejon No Ch. 5 1092 Sance et Sociétés, Universit Remies, Campus de Villejon No Ch. 5 119-120 Sance et Sociétés, Universit Remies, Campus de Villejon No Ch. 5 119-120 Sance et Sociétés, Universit Remies, Campus de Villejon No Ch. 5 119-120 Sance et Sociétés, Universit Remies, Campus de Villejon No Ch. 5 119-120 Sance et Sociétés, Universit Remies, Campus de Villejon No Ch. 5 119-120 Sance et Sociétés, Universit Remies, Campus de Villejon No Ch. 5 119-120 Sance et Sociétés, Universit Remies, Campus de Villejon No Ch. 5 1183 No C

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			France; INRA AgroParisTech,			17					
			Paris, France; Institute of								
			Ecology and Biodiveristy,								
			Santiago, Chile; Center for							Honestly, isn't that exactly what this report does? I hope that at some	
			Applied Ecology and							point you address how this report and the IPBES recommendations do or	Maybe i misunderstand the comment, but my understanding is that the
1203	Meredith Root-Bernstein	Chile	Sustainability	No	Ch. 5		483	17	485	do not risk doing this.	aim of the report is to move away from this practice.
			France; INRA AgroParisTech,			20					
			Paris, France; Institute of							Sorry, isn't recreation instrumental? People don't form relationships	
			Ecology and Biodiveristy,					20	582	with the forest by jogging, at least not more so than by collecting	
			Santiago, Chile; Center for							firewood (arguably less so!).	
			Applied Ecology and							in circoa (al galacty ress sor).	
1204	Meredith Root-Bernstein	Chile	Sustainability	No	Ch. 5		582				This sencence has been revised.
			France; INRA AgroParisTech,			10					
			Paris, France; Institute of								
			Ecology and Biodiveristy,					20	585	Aesthetic value isn't a value recognised by IPBES, that is to say, it is not	
			Santiago, Chile; Center for					20	363	part of the three kinds of value. Please change, this is confusing.	
			Applied Ecology and								
1205	Meredith Root-Bernstein	Chile	Sustainability	No	Ch. 5		585				The preliminary guide explicitly mentions aesthetic value
										Decision making in natural resources go through religion cosmovisions	
										and are influenced by the notions and ideas of the church leaders. For	
			1							example, the forest is being taken for wook to build churches bigger and	
			1							bigger. There is a regional pressure to build them. Influence agents, such	
										as spiritual leaders, are really important to be considered. It is a great	
			Workshop IPBES - Veracruz,							opportunity to involve religous institutions, it has to be considered as a	We have literature in place, and will include the results in the next
1298	Simoneta Negrete Yankelevich	Mexico	Mexico	No	Ch. 5					"leverage point".	iterations of the chapter.
										Instrumental values are not bad necessarily, they can provide important	We agree, they are essential but where the are the singular focus then
			Workshop IPBES - Veracruz,							aspects for the community.	there are issues. We have made this point more explicilty in the reworked
1299	Patricia Gerez Fernández	Mexico	Mexico	No	Ch. 5					aspects for the community.	section 5.2.
										This text eliminates conflicts in a local leve and legitimate power in a	
										local way. For example: churches, priests, etc. Decisions shouldn't be	
										based on opinions, but on legitimate governements that guarantee the	
			Workshop IPBES - Veracruz,							conservation of resources, even if the other leaders do not care about	This comment is not linked to any any text or numbering. We cannot
1300	Ricardo Contreras	Mexico	Mexico	No	Ch. 5					conservation.	work out what it is refering to - no action is taken.
										Churches have different points of view, like" teoría de la liberación" that	
										is linked to the defense of territory. Religion leads communities to	
			Workshop IPBES - Veracruz,							organize themselves and participate. As society does not have spaces for	This comment is not linked to any any text or numbering. We cannot
1301	Elisa Peresbarbosa Rojas	Mexico	Mexico	No	Ch. 5					reflection and generation of awarness, these religous spaces are key.	work out what it is refering to - no action is taken.
										Laws are not linked to values of people, they do not reflect	
			1							them. However, there is people in communities that already have a	
										decision making power and values. We need to consider them and	
			Workshop IPBES - Veracruz,							involve these people in these processes. It is not generating the influence,	This comment is not linked to any any text or numbering. We cannot
1302	Simoneta Negrete	Mexico	Mexico	No	Ch. 5			ļ		but taking them in consideration.	work out what it is refering to - no action is taken.
			Workshop IPBES - Veracruz,		l					Guillermo Bonfil's work cultural control theory (80s): The external	
1303	Citlalli López Binqnqüist	Mexico	Mexico	No	Ch. 5	1			1	influence imposed that does not take people in consideration.	Thanks - we will look at this work.
1304	Cinco ata Nassata	Marrian	Workshop IPBES - Veracruz,	Na	Ch F					We need relgious key people of the communities "on board" of these	Not enough context here. We are not sure what the connect is refering to
1304	Simoneta Negrete	Mexico	Mexico	No	Ch. 5	+ -		1	1	situation (leverage points).	in the chapter.
			Washakaa IDBES 33							Religious linking has helped in several places, such as Misantla by the	We have the section to all the sections to the section of the sect
1205	Missa Asshuasia	Marrian	Workshop IPBES - Veracruz,	Na	Ch. 5					construction of "Pastoral Ecológica". It is important to communicate and interact with religous leaders.	
1305	Mirna Ambrosio	Mexico	Mexico	No	CN. 5	+			1	Š	iterations of the chapter.
										Public policy does not only come from the government, but from	
			Markehan IDDES Versa							religious leaders, a.c., and local people that organize themselves and that	Makana litaratura in place and will include the results in the con-
1200	Detrinia Coron Formándos	Marrian	Workshop IPBES - Veracruz,	Na	Ch F					create real local and world changes. Who can make decisions? Not only	We have literature in place, and will include the results in the next
1306	Patricia Gerez Fernández	Mexico	Mexico	No	Ch. 5	+		 	1	governments.	iterations of the chapter.
										Public policies could be reactive. Is this considered? Reactive in short-	
										term: That has triggered complexity on natural resources managment in	
			Washakaa IRRES 33							Mexico (i.e PROCAMPO, PROCODES, etc.) It has generated an elimination of perception and clarity of what happens if you misuse	We for a second
1207	Simon ata Naguata Vanhala di I	Marrian	Workshop IPBES - Veracruz,	Na	Ch F					natural resources.	We focus on the capacity of institutions to be adaptive and learn from
130/	Simoneta Negrete Yankelevich	Mexico	Mexico	No	Ch. 5	1		<u> </u>	1	natararresources.	experiences, including the outcoms of reactionary approaches

1309	Ricardo Contreras	Mexico	Workshop IPBES - Veracruz, Mexico	No	Ch. 5					The environmental agenda of the country is built after the international one, so it ends imposing the global vision into local aspects. There is no analysis of the concrete mechanisms, not even in a national level of how to build more just and sustainable futures. It needs to be considered that Latinamerican countires have a system of justice that works in an specific way. It needs to be built a system of governance really high that also consideres the local. When you read the document you do not know in which scenario it ca be settled.	This comment is not linked to any any text or numbering. We cannot work out what it is refering to - no action is taken.
	Simoneta Negrete Yankelevich	Mexico	Workshop IPBES - Veracruz, Mexico	No	Ch. 5					Have you considered the structuration of public policies around different scales? Because neither values, nor contexts are similar in different countries.	This comment is not linked to any any text or numbering. We cannot work out what it is referring to - no action is taken.
	Miguel Escalona	Mexico	Workshop IPBES - Veracruz, Mexico	No	Ch. 5					It should be included the concept of: civilizatory crisis. It is a mix of crisis. The statement should be from this perspective. How do we understand the system of social metabolism? It needs to be considered the multiple interaction that influences in order to unsdertsand the root of each problem and process. (i.e. La Tosepan as an example of governanza, that includes other values towards the crisis).	We recognize the value of social metabolims concept and have located the literature. We will be includign conclusions in the next iteration of the chapter.
1315	Elisa Peresbarbosa Rojas	Mexico	Workshop IPBES - Veracruz, Mexico	No	Ch. 5					Toledo: sustainability as a capitalist invention in order to continue with extraction. We need a civilizatory crisis to really change. / The are local experiences that demonstrate how people can organize themselves in a different way (Tosepan i.e) Why is it so important to talk about different values, what is behind it?	We are understanding values as one, central dimension, of the current socio-environmental crisis (embedded in a civilizatory crisis, in terms of Toledo and others). IPBES - Values Assessment does not claim that values encompass all dimensions of the civilizatory crisis
1317	Araceli Aguilar Meléndez	Mexico	Workshop IPBES - Veracruz, Mexico	No	Ch. 5					Some terms are not being used such as "usos y costumbres" of different communties. It is important not to forget that we cannot generalize. Include more terms that link to autodetermination y autogovernment. The term exists and needs to be considered in the document.	we will incoporate the terms "usos y costumbres" (customs and habits, as well as customary or consuetudinary law), and emphasize the relevance of self-governance
1318	Simoneta Negrete	Mexico	Workshop IPBES - Veracruz, Mexico	No	Ch. 5					International policies need to be done in order to consdier that when something happens in a place, it repercutes in other places. However, we cannot only see the international way, but the local too. / We need to consider the "usos y costumbres" but not in an extreme point of view, because it can also limit people towards change.	we will use cross-scale analyses, addressing iterrelationships among local, national, and international scales
1320	Ricardo Contreras	Mexico	Workshop IPBES - Veracruz, Mexico	No	Ch. 5					There are just a few case studies on the document. They need more in order to make them representative of the world situation.	we are making an effort to include multiple cases studies from different regions of the world, embedded in broad pathways of transformatiion
1347	Kuenda Laze	Albania	Polytechnic University of Tirana	No	Ch. 5	13	371	13	371	citation format is wrong	We could not find a citation at this on this line. We have tried to einsure that all citation formats have been corrected.
1348	Kuenda Laze	Albania	Polytechnic University of Tirana	No	Ch. 5	31	801	31	801	citation to be merged	Not sure what the reviewer means here.
1349	Kuenda Laze	Albania	Polytechnic University of Tirana	No	Ch. 5	31	803	31	805	citation to be merged	Not sure what the reviewer means here.
1350	Kuenda Laze	Albania	Polytechnic University of Tirana	No	Ch. 5	31	810	31	811	citation to be merged	Not sure what the reviewer means here.
1351	Kuenda Laze	Albania	Polytechnic University of Tirana	No	Ch. 5	31	813	31	814	citation to be merged	Not sure what the reviewer means here.
1352	Kuenda Laze	Albania	Polytechnic University of Tirana		Ch. 5	31	825		825	citation to be merged	Not sure what the reviewer means here.
1353	Kuenda Laze	Albania	Polytechnic University of Tirana		Ch. 5	31	831		831	citation to be merged	Not sure what the reviewer means here.
1354		Albania	Polytechnic University of Tirana		Ch. 5	32	836		836	citation to be merged	Not sure what the reviewer means here.
1355		Albania	Polytechnic University of Tirana		Ch. 5	32	847		847	citation to be merged	Not sure what the reviewer means here.
1356		Albania	Polytechnic University of Tirana		Ch. 5	32	852		852	citation to be merged	Not sure what the reviewer means here.
1357	Kuenda Laze	Albania	Polytechnic University of Tirana		Ch. 5	36	946		946	citation to be merged	Not sure what the reviewer means here.
1358	Kuenda Laze	Albania	Polytechnic University of Tirana		Ch. 5	43	1089		1093	citation to be merged	Not sure what the reviewer means here.
1359	Kuenda Laze	Albania	Polytechnic University of Tirana		Ch. 5	43	1009		1095	citation to be merged	Not sure what the reviewer means here.
1360	Kuenda Laze	Albania	Polytechnic University of Tirana		Ch. 5	55			1377	citation to be merged	There are no references at these lines.
1361	Kuenda Laze	Albania	Polytechnic University of Tirana		Ch. 5	83	2069		2070	citation format is wrong	Thanks, we've improved our citation format in the Second Order Draft.
1361	Kuenda Laze	Albania	Polytechnic University of Tirana		Ch. 5	90	2009		2202	Is it he/she? (she travels more with public transport)	
	Kuenda Laze	Albania	Polytechnic University of Tirana Polytechnic University of Tirana		Ch. 5	71	1825	71	1827	Is it ne/sner (sne travers more with public transport) Is green economy (partly/fully) applied anywhere or not, please? Some strong economies are still depending on fossil energy production. How would they switch to 'green economies' please?	This sentence has now been rewqorded for clarity. We do not think that a fully green economy is in place anywhere, and hope this becomes clear in the revised text.
	Kuenda Laze	Albania	Polytechnic University of Tirana		Ch. 5	78	2079	78	2080	The concept of multiple values should be highlighted in education system. Education system should play a greater role starting from preschool to high school/more advance education. This would affect young population, future decision-making and future society.	Educational systems (in all education levels) are critical to support and/or transform different social-political models, reproducing or transforming life habits, life styles, and values. For these reasons, we will include education as central theme in the Earth Stewardship pathway, and illustrate it with case studies.

Beginner of the processing of											
Britain, Institute of Food Southern Soliman United Kingdom Soliscenes Society Mo On Soliscenes Society M	1387	Javier Cabello	Spain	Program in Applied Sciences to the Environment, Andalusian Center for the Evaluation and Monitoring of Global Change	No	Ch. 5	88	2366	88	2373	boundary entities can be very useful in the visualization of shared responsibilities on the environmental problems solutions. Boundary objects, such as the triangle used in López-Rodríguez et al. 2015, are very useful in this sense. Through this triangle the actors visualized the different roles that intervene in the solution of environmental problems, and communicate what is their level of knowledge or implication with such problems. In this way they got relax in the need of having to be at the level of the other actors in their respective epistemological scopes, but they also gain in responsibility. This is possible because each actors group (scientists, managers, civil society) visualize the complementarity of their own knowledge with respect to the knowledge from the others. Reference: López-Rodríguez, M.D., Castro, A.J., Castro, H., Jorreto, S. & Cabello, J. 2015. Science-policy interface for addresing environmental problems in arid Spain. Envirionmental Science & Policy 50: 1-14.
Britain, Institute of Floor United Kingdom United K							4				
April Soliman United Kingdom United Kingdom Soliman United Kingdom United	1406	Gihan S.Soliman	United Kingdom	Britain, Institute of Food Science and Technology, British	No	Ch. 5		84	4	85	unjust, something is sustainable or unsustainable. Partially sustainable is unsustainable and partial justice is still injustice. Therefore, I'd rephrase
Science and Technology, British Science Solitima United Kingdom Science Solitima Science Solitima Science Solitima United Kingdom Science Solitima Science Solitima United Kingdom Science Solitima Science Solit							19				
1408 Gihan S. Soliman United Kingdom Soli Science Society No Ch. 5 S58 S58 Where did this definition come from 7 citation is needed. This sentence and definition has been removed.									19	555	Ambiguous syntax
Britain, institute of Food Science and Technology, Britsh No. Ch. 5 58 19 58 Where did this definition come from? citation is needed. This sentence and definition has been removed. This sentence and definition is needed. This sentence and sentence and definition is needed. This sentence and sen	1407	Gihan S.Soliman	United Kingdom		No	Ch. 5		553			This sentence has been removed.
Add Gihan Soliman United Kingdom Soli Science Society No Ch. 5 568 19 568 Where did this definition come from? citation is needed. This sentence and definition has been removed.			_	Permaculture Association			19				
1408 Gishan S. Soliman United Kingdom Soliscence Society No Ch. 5 Sel 19 Sel Although visuals are not empirically verifiable; in timple be useful in Permaculture Association Britain, Institute of Food Science and Technology, British Soliscence Society No Ch. 5 S73 Sel S				,							
Permaculture Association Britain, Institute of Food Science and Technology, British Soll Science Society No Ch. 5 This is a shallow statement compared to the depth of discussion in hand over values. Please compare to page 26 lines 76 770 this specific human-rights rules are revised in the constitutions and laws of many countries (Middle East for example) and therefore, the United Ningdom On Ch. 5 Although values are not empirically verificable in the why to balancing about the very compared to state the refers the very to balancing about the very to balancing diverses values against the target of sustainability and justified with the depth of discussion in hand over values. Please compare to page 26 lines 76 770. This specific human-rights are revised to the very the United Ningdom of the Permaculture Association Britain, institute of Food Science and Technology, British No Ch. 5 Z5 T59 This is a shallow statement compared to the depth of discussion in hand over values. Please compare to page 26 lines 76 770. This specific human-rights art tile evid of the part cipation of civil society is not always guaranteed due to political and financian fersiticion. It's better to acknowledge the shortcomings while stating that the documents represent the highest-orde normative consensus that's ev	4 400	Cilear C Callinson	Halterd Mandan	07.		Cl. F		560	10	5.00	
atritain, institute of food Science and Technology, British Soliman United Kingdom United Kingdom Soli Science Society No Ch. 5 25 25 25 25 25 25 25 25 25	1408	Ginan S.Soiiman	United Kingdom	·	NO	CII. 5	19	508	19	508	
Science and Technology, British United Kingdom Vinited							15		10	572	
This is a shallow statement compared to the depth of discussion in hand over values. Please compare to page 26 lines 767 770, this specific human rights rules are very obtained in the constitutions and laws of many countries (Middle East for example) and therefore, the United Nations documents as normative as her yer, they cannot be said to be as a professatiation of simost all nations. It sonly when people are truly participating in the UN decision making processes that those decision maybe said to represent a justified vision of our common future. Participation of people are restricted to those who can afford attending the meetings, those who are compilant to their governments specially when oppressive regimes restrict the right of peaceful assembly, and finally those who are compilant to their governments specially when oppressive regimes restrict the right of peaceful assembly, and finally those who can common future for all its very general we believe incorporates a visions of a common future for all its very general we believe incorporates a visions of all of human-rights article is violated in the constitutions and laws of many countries (Middle East for example) and the participation of it wis observed to the depth of discussion in hand over values. Please compare to page 26 lines 767 770. This specific human-rights article is violated in the constitutions and laws of many countries (Middle East for example) and the participation of vivil society is not always guaranteed due to political and financial restrictions. It's better to acknowledge the shortcomings while stating that the documents represent the highest-order normative consensus that's ever been made so far. 1410 Gihan S.Soliman United Kingdom United Kingdom United Kingdom Only the Crimbour of the depth of discussion in hand over values. Please compare to page 26 lines 767 770. This specific human-rights article is violated in the constitutions and laws of many countries (Middle East for example) and the particle part of values are compare									19	5/3	
over values. Please compare to page 26 lines 757 770. hits specific human rights rule are violated in the constitutions and laws of many countries (Middle East for example) and therefore, the United Nations documents as normative as they are, they cannot be said to be as a representation of valmost all nations. It so hit when people are retrivily participating in the UN decision making processes that those decision maybe said to represent a justified vision of our common future. Participation of people are restricted to those who can afford attending the meetings, those who are compliant to their governments specially when opposes are future. Participation of people are restricted to those who are afford attending the meetings, those who are compliant to their governments specially when opposes are regimes restrict the right of peaceful assembly, and finally those who can fund the meetings. 1410 Gihan S. Soliman United Kingdom Value Charlos Association Value Kingdom Value Kingdom Value Charlos Association V	1409	Gihan S.Soliman	United Kingdom	Soil Science Society	No	Ch. 5		573			justice). Thanks we will consider this inclusion into the SOD as it is developed.
permaculture Association Britain, Institute of Food Science and Technology, British	1410	Gihan S.Soliman	United Kingdom	Britain, Institute of Food Science and Technology, British	No	Ch. 5	25				over values. Please compare to page 26 lines 767 770.this specific human rights rules are violated in the constitutions and laws of many countries (Middle East for example) and therefore, the United Nations documents as normative as they are, they cannot be said to be as a representation of 'almost all nations'. It's only when people are truly participating in the UN decision making processes that those decision maybe said to represent a justified vision of our common future. Participation of people are restricted to those who can afford attending the meetings, those who are compliant to their governments specially when oppressive regimes restrict the right of peaceful assembly, and finally those who can fund the meetings.
Britain, Institute of Food Science and Technology, British	1411	Gihan S.Soliman	United Kingdom	Britain, Institute of Food Science and Technology, British Soil Science Society	No	Ch. 5		759	25	759	over values. Please compare to page 26 lines 767 770. This specific human-rights article is violated in the constitutions and laws of many countries (Middle East for example) and the participation of civil society is not always guaranteed due to political and financial restrictions. It's better to acknowledge the shortcomings while stating that the documents represent the highest-order normative consensus that's ever chapter and because many of these is uses relate to the entire assessement
Science and Technology, British							30				
	1412	Gihan S.Soliman	United Kingdom	07.	No	Ch. 5		878	30	878	(syntax) differentiate * Thank you for the pointer. We have applied your correction.

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							31				under the 'fiction, utopias, distopias, blogs, predictions', my personal	
1											blog 'My Own Education' might be a relevant source containing several	
											academic and non academic posts related to our shared future. Also the	
											website of the Permaculture Association (Britain) and the International-	
											Curricula Educators Association with several relevant publications. There	
				Permaculture Association							is also my self-published science-based book 'Conservation of the	
				Britain, Institute of Food							Homosapiens; the Survival of the Wise is on Amazon but I would send an	
				Science and Technology, British							e-copy upon request.	Thanks for the pointer. Our methods and the literature that we are
14	13 G	ihan S.Soliman	United Kingdom	Soil Science Society	No	Ch. 5		896				uncovering needs to be consitent and repeatable.
							32				I'm surprised that the 'Holistic Darwinism' for Peter Corning, has not	
				Permaculture Association							been included in the reference list since the word holistic has been used	
				Britain, Institute of Food							in search. Also permaculture books. Permaculture is a holistic approach	
				Science and Technology, British							to conservation correspondent to the SDGs to a great level- only much	Thanks for the pointer. Our methods and the literature that we are
1.	1116	ihan S.Soliman	United Kingdom	Soil Science Society	No	Ch. 5		929			older.	uncovering needs to be consitent and repeatable.
1	14 0	man 3.30mman	Officed Kingdom	3011 3CIENCE 30CIETY	NO	CII. J	46	323			older.	uncovering needs to be consitent and repeatable.
							46				This is only partially true. It is true that Economics optimism is blind to	
											'externalities' such as environmental cost and intergenerational justice,	
1											and appears as indifferent to the idea of intrinsic value of nature but the	
1											**	
1											reality is that economic optimism as we know it today bases itself on the	
1											Invisible Hand Theory by Adam Smith which in turn is based on	
1											evolutionary theorem such as the the Survival of the Fittest. While the	
1											traditional interpretation of Darwinism now has been overridden by the	
											multi-level selection (natural science) and Holistic Darwinism, Capitalism	
											- which dominates our economics today, is still based in the concept that	
											selfishness, exhaustive exploitation of resources, maximization of profit,	
											and cut-throat competition are the paths to the common good. Please	
											compare to page 18 lines 541, 542, 543 (of the current chapter) by Adam	
											Smith. This notion is somehow a reflection of an awareness (as outdated	
				Permaculture Association							as it may be) of nature as a living ecosystem rather than a pot of minerals.	We are refining the descriptions of the Archetypes. Some of these are
				Britain, Institute of Food							Re-reading economics, and standing up to Capitalism as it stands, is key	detailed in the SOD, the remainder of changes will follow in the TOD.
				Science and Technology, British							to a sustainable and just future.	These will however be based only on secnario studies and with not go
14	15 G	ihan S.Soliman	United Kingdom	Soil Science Society	No	Ch. 5		1098				into the literature suggested by this reviewer.
				Permaculture Association			general					
				Britain, Institute of Food								
				Science and Technology, British								
14	116 G	ihan S.Soliman	United Kingdom	Soil Science Society	No	Ch. 5					Great work so far.	Thanks.
Ê	100		omica imgaom	son solence society		CIII S	75				Steat Work 30 Idi.	
1												These rivers encompass different regions and continents, at the
1												same time illustrate the complexities of differents drivers of
												social environmental change, In addition, we found an idoneous
1				Galway-Mayo Institute of							Perhaps need to make clearer to Reader why these "specific examples"	contributing author who is familiar with these cases. We are
14	138 N	eville H McClenaghan	Ireland	Technology (GMIT)	No	Ch. 5		1982	75	1982	were selected?	including an explanation in the methodology
							14					
1											The power and agency classification is not obviously integrated after or	
											through the values discussion and how it might influence dominant	
1											values. Chapter 6 pg 10, line 286-294 integrates the influence of power	
1											relations on how knowledge systems influence capacity development for	
										436-440	incorporation of multiple values. How the assessment seeks to address	
1											discursive power and perhaps institutional power through improved	
1											understanding of values and how they influence institutional priority as a	
1											section as well as a paragraph in the conclusion could be useful. This	
											might include reference to consideration included in chapter 6.	Agreed, this did not really feed into later analysis. We have now attended
14	155 N	1elissa Vogt	Australia	UNSW, Australia	No	Ch. 5		412			· ·	to this in the SOD
							68					We agree that the blue economy is an interesting example for the green
1												economy, but we have chosen to present the green economy, as this is
1											Consider referring to the blue economy, it includes more detail than	more comprehensive term with broader relevance for the topic of the
1,	156 N	1elissa Vogt	Australia	UNSW, Australia	No	Ch. 5		3764			green economy.	chapter.
				,	-						10 ,	

						77		78	2082	The chapter appears to discuss future generations (intergenerational value and justice) as a major justice and perhaps economic value of biodiversity, and much less attention and explanation of current day value within economic or non economic (justice) terms could be problematic. It is necessary to recognise that economic value often is, and inter generational justice value is, assigned to future value. However, there is an opportunity to improve understanding, and in detail, of current day value of biodiversity in economic and non economic (justice) terms and to include it in this assessment more obviously. It might be better to address the reasons behind the 'bias in status quo' referred to on pg. 78, line 2036. It could be integrated within a subheading or as a subheading for 'undesired changes and risk factors' as challenges (pg. 77-78, line 2034-2082). It could also be useful to include historic generational value examples (an example for coffee farm systems is provided in Vogt and Englund 2019 - Chapter 3: Biodiversity outcomes associated with sustainability certifications - and generational knowledge and farming systems). In Sustainability certification schemes in the agricultural and natural resource sectors: outcomes for society and the environment	We have removed this section. These concepts are related to the work of
1457	Melissa Vogt	Australia	UNSW, Australia	No	Ch. 5		2034			resource sectors: outcomes for society and the environment	chapters 3 and 4.
1458	Melissa Vogt The Swedish delegation of the	Australia	UNSW, Australia	No	Ch. 5	72	1864	72	1874	Include extended definitions of growth – growth in what exactly. Consider how growth might be possible without being detrimental to the environment. Some audiences might expect a "guideline" in terms of what values may	WE agree that the critical question is what is growing and hope that it becomes clear now that growth of material consumption is something different than growth in human well-being Thansk for the warning. We have clarified what the aim for this
1481	IPBES Values Assessment	Sweden	Swedish delegation	No	Ch. 5					lead to what futures and how to address this in policy making.	section.
	Finnish National IPBES panel		Finnish national IPBES panel							Only in English, or in other languages too? If only in English, the scope is	We have now clarified the serchers and methods with regards to language
1527		Finland	(Luontopaneeli)	No	Ch. 5	46				very limited.	inclusion.
1528	Finnish National IPBES panel (Finland)	Finland	Finnish national IPBES panel (Luontopaneeli)	No	Ch. 5	46	1074	46	1074	Option 2 sounds more in line with the other chapters.	The emergence of the archetypes was unclear in the FOD. The analysis and development of the SOD has now clarified the relevant archetypes.
1320	Finnish National IPBES panel	- mana	Finnish national IPBES panel		CIII 5	46	1071				The emergence of the archetypes was unclear in the FOD. The analysis and
1529	(Finland)	Finland	(Luontopaneeli)	No	Ch. 5		1075	46	1075	It is not clear where these archtypes come from and how they are defined.	development of the SOD has now clarified the relevant archetypes.
1552	Baljinder Singh	Canada	Union of Concerned Scientists; The Alliance Of World Scientists	No	Ch. 5	18	512	18	517	Line 517 seems have a typographical error in that it seems to be missing a word or phrase that would be modified by "global". Given the context evident in the preceding clause, options for the missing word/phrase could include "commons" or "prerogatives" or "responsibilities" or "necessities". "Commons" is the most likely contender, given that "global commons" shows up in line 518.	Thanks you - this is correct, however we have restructured this section and the original sentence hase been reworked.
	.,					6				Consider fully displaying the MVN acronym, "multiple values of nature",	
1624	Luis Pacheco Cobos	Мехісо	Facultad de Biologia Xalapa, Universidad Veracruzana	No	Ch. 5		166	6	170	as it is only used twice in p6 (paragraph preceding, and actual Figure 5.1), and p21 (Figure 5.5). Or, include MVN it in the "List of Acronyms" at the beginning of the chapter/document. Is there a specific number of mentions on which you set the use of an acronym in general for the whole document?	MVN has been removed. We will that acronym use under advisement with the TSU.TSU - please advised
1625	Luis Pacheco Cobos	Mexico	Facultad de Biologia Xalapa, Universidad Veracruzana	No	Ch. 5	21	605	21	606	It is in Figure 5.5 Claim C's accompanying box should say "considered as well as"	THis figure has now been removed based on other reviewer responses.
	Luis Pacheco Cobos	Mexico	Facultad de Biologia Xalapa, Universidad Veracruzana Facultad de Biologia Xalapa,	No	Ch. 5	6	169	6	170	Doubt. Figure 5.1 the question mark "?" between Chapter 5's orange box (center) and JSF's blue box (right), leaves an open question: which are the connecting factors between Multiple Values of Nature and JSF? Is this something that the authors will rescue or propose later e.g. in the concluding remarks (or elsewhere in the document)? Replace "adapted from Pelling 2015. (Pelling et al., 2015)" with	We have removed this figure based on other comments
1627	Luis Pacheco Cobos	Mexico	Universidad Veracruzana	No	Ch. 5		373	13	374	"adapted from Pelling et al. (2015)"	We have removed this figure - comment on longer relevant.
1628	Luis Pacheco Cobos	Mexico	Facultad de Biologia Xalapa, Universidad Veracruzana	No	Ch. 5	16	468	16	469	Figure 5.4 The artwork or graphic design, would seem to suggest that the direction of both "Role of values" and "Transformation to [JSF]" processes (blue inclined triangles) goes from the macro to the micro level, and not necessarily on the opposite direction (which I do not find impossible). Is my reading of the artwork wrong? Consider adjunting the figure to avoid potential confusions.	Thanks, we have removed this figure, and developed further figures in the trasnformations section.

	T		1							1	T
162	Nuis Parkers Cohes	Anvico	Facultad de Biologia Xalapa,	No.	0.5	21	607	23	664	Is there actual evidence presented or discussed in this chapter, on how actual "sustainability" can be met or has been met using examples from different world regions? Section "5.2.2.3 Sustainability: core characteristics" is where the authors state that their ""sustainability" definition [is] based on Millennium Ecosystem Assessment (MA)", and where a general framework and set of concepts is provided. I would draw attention to biological sustainability, specifically on how food can be sustainably harvested or cultivated. The most immediate examples I can share (ahead) come from my field of research, but there might be much more as forest and water products are diverse Garibay-Orijel, R., Córdova, J., Cifuentes, J., Valenzuela, R., Estrada-Torres, A., & Kong, A. (6). Integrating wild mushrooms use into a model of sustainable management for indigenous community forests. Forest Ecology and Management, 258(2), 122–131. https://doi.org/10.1016/j.foreco.2009.03.051 He, J., Zhou, Z., Yang, H., & Xu, J. (2011). Integrative Management of Commercialized Wild Mushroom: A Case Study of Thelephora ganbajun in Yunnan, Southwest China. Environmental Management, 48(1), 98–108. https://doi.org/10.1007/s00267-011-9691-7 McLellan, T., & Brown, M. (2017). Mushrooms as Economic and Recreational Resources in the Greater Mekong. Mountain Research and Development, 37(1), 108–120. https://doi.org/10.1659/MRD-JOURNAL-D-15-00087.1	This section has been somewall
162	9 Luis Pacheco Cobos	Mexico	Universidad Veracruzana	No	Ch. 5		607				This section has been removed.
167	Rosendo Ahue Coello (Tikuna People: Magütá); Gloria Erazo; 2 Andrea Cárdenas.	Colombia	Organizacion Nacional Indígena de Colombia (Onic)	No	Ch. 5					Chapter 5 - Justice and sustainability section. Gaps in knowledge: Agrobiodiversity in terms of native seeds. It would be interesting to analyse cases such as the trade of local seeds in the European Union. In particular, a law that put limitations on the trade of local seeds was recently derogated. Kokoplli cooperative was convicted of this type of activities. From a plant businesses perspective (phyto-imroving enterprises), the effect of that law was severe on diversity loss. In Colombia, we also face that battle.	This is a very specific request that we will consider but at this stage we are not sure that this example will best serve the text.
	Rosendo Ahue Coello (Tikuna People: Magütá); Gloria Erazo;		Organizacion Nacional Indígena							Chapter 5 - Realising change section. How to govern environmental change. Local governance of biodiversity is a decisive point that could be analysed. For instance, local peoples have a choice between mining (i.e. job) and water: they opt for water as the vital principle. However, other interests are predominant on decisions by exceeding local sociocultural values related to nature protection. Therefore, it would be useful to emphasise on capacity needs such as the strengthening of tools for a dialogue between priorities. Public consultation processes about mining at municipal level face that debate and struggle.	
167	Andrea Cárdenas.	Colombia	de Colombia (Onic)	No	Ch. 5					and struggre.	An elaborated section on social learning capacities is included.
167	Rosendo Ahue Coello (Tikuna People: Magütá); Gloria Erazo; Andrea Cárdenas.	Colombia	Organizacion Nacional Indígena de Colombia (Onic)	No	Ch. 5					Chapter 5 - Clear and pertinent questions.	Thanks.
167	Rosendo Ahue Coello (Tikuna People: Magütá); Gloria Erazo; 6 Andrea Cárdenas.	Colombia	Organizacion Nacional Indígena de Colombia (Onic)	No	Ch. 5					Chapter 5 - The role of values in transformation towards Just and Sustainable Futures (Figure). It is important to also emphasise the role of values across scales especially at macro-scales, where many relevant decisions take place.	The diagram has been replaced. However, it is in the text that we mainly refer to issues of scale.
167	Rosendo Ahue Coello (Tikuna People: Magütá); Gloria Erazo; 7 Andrea Cárdenas.	Colombia	Organizacion Nacional Indígena de Colombia (Onic)	No	Ch. 5					Chapter 5 - Realising change section. The use of the term "governance" has not reached a consensus. From an indigenous viewpoint, it is preferable recognising "forms of own government". The latter is based on indigenous language with roles given according to "someone who care the territory".	We realize this tension, and hence just focus on elements that are common in several defintions and discussions on the topic. We also discuss governance from IPLC perspective.
167	Rosendo Ahue Coello (Tikuna People: Magütá); Gloria Erazo; 8 Andrea Cárdenas.	Colombia	Organizacion Nacional Indígena de Colombia (Onic)	No	Ch. 5					From an indigenous perspective, we are talking about "revitalization" of language, government and own dynamics. In terms of actions that can be change enablers, it would be suggested to conduct researches aimed at understanding us by using indigenous languages as communication bridges and means of trasmitting knowledge. In line with this, it would be great to translate the Values Assessment to indigenous languages.	Thaks for the suggestion. Because this is not a chapter 5 specific issue we pass this on to the TSU to carry forward.

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1703	Marta Díaz	Colombia	Parques Nacionales Naturales de Colombia (PNNC)	PNNC is part of the Colombian state	Ch. 5					Chapter 5 - Justice and sustainability. It would be suggested to also analyse justice principles focused on a collective perspective for decision-making.	This comment ion justice and decisions making relates directly to the work of Ch4 - TSU please can you assist in passing this comment for Ch4. Thanks.
1704	Marta Díaz	Colombia	Parques Nacionales Naturales de Colombia (PNNC)	PNNC is part of the Colombian state	Ch. 5					Chapter 5 - It would be suggested to highlight the role of knowldege in decision-making processes in the context of transformative change.	Thanks. Our SOD of this section has astronger focus on values and knowledge.
1705	Marta Díaz	Colombia	Parques Nacionales Naturales de Colombia (PNNC)	PNNC is part of the Colombian state	Ch. 5					Chapter 5 - Realising change. It would be advisable to take into account the type of value incorporated and prioritised in decision-making at national levels e.g., conservation policies. For instance, some experiences show that goals of reduction on deforestation are focused on protected areas. The latter make invisible deforestation levels on other areas.	We recongnize multiple levels of governance, and interactions within these, and propose social learning processes that can lead to shared goals and outcomes
1723	Felipe Guerra	Colombia	Parques Nacionales Naturales de Colombia (PNNC)	PNNC is part of the Colombian state	Ch. 5					Chapter 5 - Protected areas in Colombia can be also a successful case study for analysing pathways of change.	Thanks. We are carefully considering the examples and cases we use to improve the text but can't currently commit to the Colombian suggestion. However, we expect some reference to Colombian experience in our cases on biocultural diversity.
1724	Felipe Guerra	Colombia	Parques Nacionales Naturales de Colombia (PNNC)	PNNC is part of the Colombian state	Ch. 5					Chapter 5 - Justice and sustainability. It would be suggested to use the phrase 'Justice towards living beings' instead of 'Justice towards non-human beings'. In relation to cases of environmental justice, the Constitutional court ruling (T-622, Nov 2016) has declared the Atratoriver as subject of biocultural rights in Colombia. That case generates a great deal of interest in three focus: anthropocentric, biocultural and ecocentric.	Thanks - we have opted for 'other than human' for the time being.
	Felipe Guerra	Colombia	Parques Nacionales Naturales de Colombia (PNNC)	PNNC is part of the Colombian state	Ch. 5					Chapter 5 - Guiding questions. What type of values underpin what type of futures? What type of values and combination of values underpin sustainable and just futures? What impact would have including values of nature on policy decision-making? The latter could connect the Values Assessment with the Global Assessment because entailing recognising causes of biodiversity loss i.e., the way plural values of nature has been included/excluded into policy to date. That could be also useful for the SPM.	
	Viviana Moreno	Colombia	Parques Nacionales Naturales de Colombia (PNNC)	PNNC is part of the Colombian state	Ch. 5					Chapter 5 - Literature review. It would be interestint to review policy relevant documents at national levels e.g., policies, goals of a country, government intervention strategies aimed at the maintenance of values of nature e.g., reduction of national budget for protected areas; reduction of national budget for environmental education; prioritization of minning and fracking in opposition to conservation and values regarding biodiversity.	It would be interesting to review policy relevant documents at national levels, but this is impractical given the unfunded IPBES mandate, and the people avaliable to undertake this task. The
1833	Francois Sarrazin	France	Sorbonne University	No		whole chapter 5				On the whole chapter 5, it might be relevant to consider the Life Framework developped in chapter 2.	We have made linkages with the life framework in this chapter in the SOD. However, there is large scale disagreemnt regarding the validity of adopting a highly reductionist approach to understanding for people value nature, and is not really in keeping with the intent of this assessment which is focused on daylighting different and diversity of values, especially where they do not fit with western stereo type frameworks.
1834	Francois Sarrazin	France	Sorbonne University	No	Ch. 5	whole chapter 5				Despite evolution appears as a property of biophysical systems in several places of this chapter, it is not considered per se when accounting for the irreversible evolutionary consequences of present uses of biodiersity that may affect future generations of both humans and non humans.	
1836	Mari Peltola	Finland	Independet reserarcher	No	Ch. 5	23.	684	23		Why is there distinction between 'current generation' and 'future generation'? Are future generations a generation not been born yet or do they refer to children / young people as well? What is considered as productive life? In the developed south it could be	The explanation has been enhanced here.
1837	Mari Peltola	Finland	Independet reserarcher	No	Ch. 5	26.	793	23	793	considered achieving a certain living standard, which on a global scale is unsustainable.	This section has been entirely reworked, and this sentence has been removed.

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1886	Kowarsch, Martin	Germany	Mercator Research Institute on Global Commons and Climate Change (MCC), Berlin	No	Ch. 5					Beyond analyzing how the simple inclusion of a more diverse set of values can help achieve transformation, it would be great to hear more details about how exactly assessment processes (and, based on this, policy processes) can appropriately respond to divergent values and worldviews. For instance, this chapter might discuss promising deliberative options (e.g., outlined by Tom Dietz, PNAS 2011: Bringing values and deliberation to science communication; or the empirical & conceptional works by deliberation experts such as Simon Niemeyer) or attempts towards moral re-framing of policies (as done, e.g., by the US social psychologist Robb Willer), or attempts to make use of different (ethically perhaps more convincing) social welfare functions when it comes to economic modelling of "ecosystem services" etc. (e.g., M Fleurbaey, M Adler, A Sen,).	Thanks. Our revision - section 5.3.5 is focused on the kind of governance needed to manage this challenge - as a handover to ch6 which will consider more concrete actiomns.
			American Museum of Natural							Unclear whether development has lead to all these problems - would suggest that this sentence be fleshed out and broken down into	
1911	Samantha Cheng	Unites States	History	No	Ch. 5	4	91	4	96	components.	We have adjusted this sentence for clarity.
										Unclear what example this refers to for "scaling up" of protected areas -	·
			American Museum of Natural							making them bigger? enforcing more regulations? replicating? Also	This was an incompleted argument that has now been removed from the
1912	Samantha Cheng	Unites States	History	No	Ch. 5	7	182	7	182	requires a reference	section.
1913	Samantha Cheng	Unites States	American Museum of Natural History	No	Ch. 5	8	227	8	240	How was literature on transformation identified? It is hard to guage what the critical review encompasses without detail on what literature was included.	We have a clearer and more systematic methodology for selection which is desrived i detail in the data management file
			American Museum of Natural							Pathways are certainly important, but in identifying transformation - it will also be critical to identify key assumptions and pre-conditions that form the context for change to occur. We would like to point to research in program theory and program design such as Theory of Change: Funnell SC, Rogers PJ. Purposeful program theory: Effective use of theories of change and logic models. Vol. 31. John Wiley & Sons; 2011. and Vogel I. Review of the use of 'Theory of Change' in international development. Am	
1914	Samantha Cheng	Unites States	History	No	Ch. 5	13	275	14	411	J Eval. 2010;24(3):501–24.	change
1915	Samantha Cheng	Unites States	American Museum of Natural History	No	Ch. 5	30	890	30	892	Unclear what mapping non-academic resources "through their existing analyses in peer-reviewed literature" means - i.e. the resources will be mapped onto the analyses that is conducted in peer reviewed literature? Or the resources that are analyzed in peer-reviewed literature (which is less understandable)	This wording has been adjusted for clarity.
1313	Sumanena eneng	omees states	riistory		ci.i. 5	30	030	30	032	Unclear what the criteria is for including or excluding peer-reviewed	mis nor any nos been adjusted for clarity.
1916	Samantha Cheng	Unites States	American Museum of Natural History	No	Ch. 5	32	932	33	938	articles. In addition, refining by search areas in Web of Science is a useful exercise but there likely many articles focusing values that are not encompassed by these two areas. Consideration for social sciences, anthropology, ethology, development - types of areas - would be key to a comprehensive review.	We have revised and clarified our search methods, please see the methods and data report CH5 SOD.
4047	Comments Change	Haira Chara	American Museum of Natural		Cl. F					We don't fully understand Figure 5.7 - what are the different colored	The allowed by the state of the
	Samantha Cheng Samantha Cheng	Unites States Unites States	American Museum of Natural History	No No	Ch. 5					wedges representing? what data is this based on? Figure 5.6 is confusing without clear explanation of how it is linked to the systematic review data. Understandably these are different hypothesized scenarios - however, is this the hypothesis that you are aiming to investigate with the review? that does not seem to be the case-thus the links need to be better clarified	Thanks, we have now reworked this figure (5,7) for better clarity. We have reworked this figure and adapted the text for better clarity.
1919	Samantha Cheng	Unites States	American Museum of Natural History	No	Ch. 5	General comment for section 5.3				For a systematic review, we would need to see how different types of evidence and study designs factor into how sources of information are assessed - in particular when trying to synthesize the relative importance of values for different archetypes - critically appraising study quality using a transparent methodology is important for reliability	We have clarified the review approach - see SOD section 5.2 and also created a data management report to make our methods explicit
			A		Ch. 5	45	1073	46	1005	It isn't clear how the value archetypes might look - but if the intention to	The second of th
1920	Samantha Cheng	Unites States	American Museum of Natural History	No	CII. 5	45	10/3	46	1085	illustrate how values can factor into future planning - option 1 seems most useful	The emergence of the archetypes was unclear in the FOD. The analysis and development of the SOD has now clarified the relevant archetypes.

Jack State S			1	1							
best passed and considered from a successful may be seed and societies and passed and successful may be successful may b											This statement that recent literature forgets that biodiversity itself is
American Marcan of Palaces Marcan of Palac											about human well-being is a bit shortsighted. Certainly human well-
Second Policy State											being has been considered in understanding the value of biodiversity, but
Proceedings of the control of the											is also a preponderance of literature that states the opposite - that We have clarified the text noting that "biodiversity" here is used in sense
Description Change Chair Suppose Chair S											biodiversity's value is inherent and not intimately tied to human well-
1922 Instruction Charge United States Mission Charge Was seen to be continued and the second of the continue of the second of the continue of the co											being. The position stated here is then a bit confused by the following appreciated; and re intrinsic value, the clarification is needed that sgl sp
In severate mat have now that the many the control services and related to the control services and the control service				American Museum of Natural							paragraph that argues the balance of relation, instrumental, and intrinsic etc have intrinsic value but as recent authors suggest, it is harder to argue
he hardward society. Principle International Control of Principle Contro	1921	Samantha Cheng	Unites States	History	No	Ch. 5	51	1176	51	11	183 frameworks. that variety per se has intrinsic value.
he hardward society. Principle International Control of Principle Contro											It is evident that there needs to be communication of II K based values to
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Simone Athayole Mexico Chases, Mexico Chases, Mexico Chase Actual (CRI), Cellor Sub- Actual (CRI), C											
Simple Allayde				Constant N Colonia and Notice							generally more disconnected from nature, but still play a role in decision-
Committee Comm	4070	Simon Athanda				Cl. F					making processes
Ecology's Michoewadd (IB-Chile), empress Fibro Diptica Autral (CR), Centro Sab-Louise (IB-Chile), empress Fibro Diptica Autral (CR), Centro Sab-Louise Autr	1976	Simone Atnayde	IVIEXICO		NO	Cn. 5					we have included these ick issues - please see section 5.2.1 SOD.
Chile, empresa Thora Optica Autor (CR), Centro Sub- Autor (Callop de Hornors) Altrid (CR) (Centro Sub- Autor (Callop de Hornors) Minister of de Media Ambiente de Chile (MAM). Instituto de Chile, empresa Thora Optica Autor (CR), Centro Sub- Auto		1								1	e i
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Multiple values are necessary for 15% in a planetary sense (the earth), so that ecosystems continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as the part of the continue to esist as the part of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as they are now. The central questions of the continue to esist as the part of the continue to esist as th											
Ministerio del Medio Ambiente de Chie (MAA), Instituto de Ecologia y Biodiversidad (EB-Child), empresa Pisto Optica Autral (CTR), Centro Sub-Autral (CTR), Centro Sub-Autra	1989	Chile Workshop Group	Chile	Antártico Cabop de Hornos	N/A	Ch. 5					contrasting values. Very much focused on dialogue.
Ministerio del Medio Ambiente de Chiel (MMA), instituto de Ecologia y Biodiversidad (EB-Chiel), empresa Pitra Optica Autra (CTR), Centro Sub-Autra (CT											Multiple values are necessary for JSFs in a planetary sense (the earth), so
de Chile (MMA), instituto de Ecologia y Biodiversidad (BB-Chile), empresa Pibra Optica Autral (CTR), centro Sub-Chile), empresa Pibra Optica Autral (CTR), c											that ecosystems continue to exist as they are now. The central questions
Ecology y Biodiversidad (BE-Chile), empress Pitra Optica Autra (CR), Centro Sub-Autra (CR),				Ministerio del Medio Ambiente							
Chile, empress Fibra Optica Autral (CTR), Centro Sub- Chile, empress Fibra Optica Autral (CTR), Centro Sub- Chile, empress Fibra Optica Autral (CTR), Centro Sub- Chile, empress Fibra Optica Chile, empress F				de Chile (MMA), Instituto de							humans themselves (as emphasized in the title of this chapter "Values
Autral (CTR), Centro Sub- Antaffic Cabop de Hormos Antaffic N/A Ch. 5 An				Ecologia y Biodiversidad (IEB-							towards nature and the benefits of nature for people") and JSFs are for
1990 Dite Poulin Chile Antártico Cabop de Hornos N/A Ch. 5 NATURE AND CLIMATE. Modified the right kind of values.				Chile), empresa Fibra Optica							ecosystems. HOWEVER, WE MUST CONSIDER THAT THE FEW PEOPLE OR Your point goes to teh heart of what this report seeks to achieve. Based
Recognizing multiple values is the first step towards a transformative change and SIF. Values do not necessarily modify consumption patterns with nature forwards of more virtuous forms. Different perspectives and actors are not necessarily going to modify consumption patterns with nature forwards more virtuous forms. Different perspectives and actors are not necessarily going to modify their vision because they know that there are other different perspectives. For this, is necessary and their importance, and that might shall not not an east easied things and allow modifying their actions and their own values. 1991 Daniel Alvarez Chile Antaritico Cabop de Hornos de Chile (MNA), Instituto de Ecologia y Biodiversidad (IBB-Chile), empresa fibra Optica Autral (CTR), Centro Sub-Autral (CT				Autral (CTR), Centro Sub-							INSTITUTIONS ARE CONTROLLING THE VALUES IN THE DEBATES ON on our systematic review, we present this in terms of 'barriers' to the
Ministerio del Medio Ambiente de Chile (MMA), Instituto de Ecologia y Biodiversidad (IBB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Chole) del Portico Morales Chile Antàritico Cabop de Hornos Chile Antàritico Cabop de Hornos N/A Ch. 5 Ch. 5 Ch. 5 Ch. 6 Antàritico Cabop de Hornos N/A Ch. 5 Ch. 6 Antàritico Cabop de Hornos N/A Ch. 5 Ch. 6 Chile Antàritico Cabop de Hornos N/A Ch. 5 Ch. 6 Chile Antàritico Cabop de Hornos N/A Ch. 5 Ch. 6 Chile Antàritico Cabop de Hornos N/A Ch. 5 Ch. 6 Ch. 6 Ch. 6 Chile Antàritico Cabop de Hornos N/A Ch. 5 Ch. 6 Ch. 6 Ch. 6 Ch. 6 Chile Antàritico Cabop de Hornos N/A Ch. 5 Ch. 6 C	1990	Elie Poulin	Chile	Antártico Cabop de Hornos	N/A	Ch. 5					NATURE AND CLIMATE. mobilisation of multiple values, and indeed the right kind of values.
Ministerio del Medio Ambiente de Chile (MMA), Instituto de Ecologia y Biodiversidad (IBB-Chile), empresa Pibra Optica Autral (CTR), Centro Sub-Autral (CTR), Sentro Sub-Aut											Recognizing multiple values is the first step towards a transformative
actors are not necessarily going to modify their vision because they know that there are other different perspectives. For this, is necessary an internal conviction that recognizes the "others" and their importance, and that implies that one can set aside things and allow modifying their actions and that implies that one can set aside things and allow modifying their actions and that implies that one can set aside things and allow modifying their actions and that implies that one can set aside things and allow modifying their actions and that implies that one can set aside things and allow modifying their actions and that implies that one can set aside things and allow modifying their actions and their own values. We explore this issue in section 5.3 SOD relating to role of values in individual behaviour change. We explore this issue in section 5.3 SOD relating to role of values in individual behaviour change. We explore this issue in section 5.3 SOD relating to role of values in individual behaviour change. We explore this issue in section 5.3 SOD relating to role of values in individual behaviour change. We explore this issue in section 5.3 SOD relating to role of values in individual behaviour change. We explore this issue in section 5.3 SOD relating to role of values in individual behaviour change. We explore this issue in section 5.3 SOD relating to role of values in individual behaviour change. We explore this issue in section 5.3 SOD relating to role of values in internal conviction that recognizes the importance and their importance and their importance and that implies that one change and such as a solid that individual behaviour change. We explore this issue in section 5.3 SOD relating to role of values in individual behaviour change. We explore this issue in section 5.3 SOD relating to role of values in individual behaviour change and such as a solid their own values. We explore this issue in section 5.3 SOD relating to role of values in individual person and their importance and their imp											change and SJF. Values do not necessarily modify consumption patterns
de Chile (MMA), instituto de Ecologia 9 ilodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Autral (CTR), Centro Sub-Autral (CTR), Centro Sub-Chile (MMA), instituto de Ecologia 9 ilodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Autral (CTR), Centro Sub-Chile (MMA), instituto de Ecologia 9 ilodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Chile (MMA), instituto de Ecologia 9 ilodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Chile (MMA), instituto de Ecologia 9 ilodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Chile (MMA), instituto de Ecologia 9 ilodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Chile (MMA), instituto de Ecologia 9 ilodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Chile (MMA), instituto de Ecologia 9 ilodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Chile (MMA), instituto de Ecologia 9 ilodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Chile (MMA), instituto de Ecologia 9 ilodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Chile (MMA), instituto de Ecologia 9 ilodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Chile (MMA), instituto de Ecologia 9 ilodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Chile (MMA), instituto de Ecologia 9 ilodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Chile (MMA), instituto de Ecologia 9 ilodiversidad (IEB-Chile), instituto de Ecologia 9 ilodiversidad (IEB-Chile) 4 in the eye of the current historical context historical context h				Ministerio del Medio Ambiente							with nature towards more virtuous forms. Different perspectives and
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Daniel Alvarez Chile Antartico Cabop de Hornos N/A Ch. 5 Actions and their own values. Actions actions and their own values. Actions and their own v				Chile), empresa Fibra Optica							
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Ecologia y Biodiversidad (IEB Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Lip Chile), empresa Fibra Optica Chile Policia Fibra Optica Fibra Opt				de Chile (MMA) Instituto de							
Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Autral (CTR), Cen				, "					l		Avery good point. I think this relates to methods for bringing
Autral (CTR), Centro Sub- Antártico Cabop de Hornos M/A Ch. 5 Multiple values of nature? E.g. talks between values of entrepreneurs, scientist and civil society. That IPBES recommends recognizing multiple values is a slight solution. The recognizion of multiple values by itself will not generate the changes that are needed to stop the erosion of biodiversity. The idea is how we can change the human-nature relationship to change values. Li is very important to recognize those values that have determined the perception of justice and sustainability. It is important to re-know or recognize the perception of justice and sustainability. It is important to re-know or recognize the perception of justice and sustainability. It is important to all people). Thus, to build agreements, dialogues, which allow reconciliation to be achieveded in the eyes of the current historical context. JSF in nature calls to not-									l		
Patricio Morales Chile Antártico Cabop de Hornos N/A Ch. 5 Scientist and civil society. encounters (Ch6?). So I would pass it on to those chapters.		1								1	
de Chile (MMA), Instituto de Ecologia y Biodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub-Antártico Cabop de Hornos Ministerio del Medio Ambiente de Chile (MMA), Instituto de Ecologia y Biodiversidad (IEB-Chole), empresa Fibra Optica Autral (CTR), Centro Sub-Antártico del Medio Ambiente de Chile (MMA), Instituto de Ecologia y Biodiversidad (IEB-Chole), and the context of the Poulin Chile Autral (CTR), Centro Sub-Antártico Cabop de Hornos Ministerio del Medio Ambiente de Chile (MMA), Instituto de Ecologia y Biodiversidad (IEB-Chole) and the context of the current historical context. JSF in nature calls to not-	1992	Patricio Morales	Chile		N/A	Ch. 5			l		
Ecologia y Biodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub- 1993 Elie Poulin Chile Antártico Cabop de Hornos Ministerio del Medio Ambiente de Chile (MMA), Instituto de Ecologia y Biodiversidad (IEB-Chile), empresa Fibra Optica Autral (CTR), Centro Sub- N/A Ch. 5 It is very important to recognize those values that have determined the perception of justice and sustainability. It is important to re-know or recognize those values to be sufficient to achieve the JSF (to generate mechanisms to do accessible the information to all people). Thus, to build agreements, dialogues, which allow reconciliation to be achieved Ecologia y Biodiversidad (IEB-				de Chile (MMA) Instituto de						Ì	
Chile, empresa Fibra Optica Autral (CTR), Centro Sub- Antártico Cabop de Hornos N/A Ch. 5 The SOD now specifies values as a necessary but not sufficient component of change values. The SOD now specifies values as a necessary but not sufficient component of change. It is clear that simply valuing more values, or valuing them better - has not by itself achieved desired changes. The SOD now specifies values as a necessary but not sufficient component of change. It is clear that simply valuing more values, or valuing them better - has not by itself achieved desired changes. It is very important to recognize those values that have determined the perception of justice and sustainability. It is important to re-know or recognize the perception of different communities. But there has to be legitimacy for the values to be sufficient to achieve the JSF (to generate mechanisms to do accessible the information to all people). Thus, to build agreements, dialogues, which allow reconciliation to be achieved in the eyes of the current historical context. JSF in nature calls to not-									l		
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It is very important to recognize those values that have determined the perception of justice and sustainability. It is important to re-know or recognize the perception of different communities. But there has to be legitimacy for the values to be sufficient to achieve the JSF (to generate mechanisms to do accessible the information to all people). Thus, to de Chile (MMA), Instituto de Ecologia y Biodiversidad (IEB-	1997	Elie Poulin	Chile		N/A	Ch. 5				1	
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Ministerio del Medio Ambiente mechanisms to do accessible the information to all people). Thus, to de Chile (MMA), Instituto de build agreements, dialogues, which allow reconciliation to be achieved in the eyes of the current historical context. JSF in nature calls to not-		1							1	1	
de Chile (MMA), Instituto de build agreements, dialogues, which allow reconciliation to be achieved in the eyes of the current historical context. JSF in nature calls to not-		1							1	1	
Ecologia y Biodiversidad (IEB- in the eyes of the current historical context. JSF in nature calls to not-									l		
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Chile), empresa Fibra Optica Westernize the gaze, nor to return the gaze to the ancient east, but to									l		
Autral (CTR), Centro Sub-recognize the silenced voices in regional eyes (for example, Latin We do agree that it is the silenced voices and values that are a key	1.	L		. "	l	[l		
1994 Eduardo Barros Chile Antártico Cabop de Hornos N/A Ch. 5 America). concern. This is now much clearer in the text of 5.3.5	1994	Eduardo Barros	Chile	Antártico Cabop de Hornos	N/A	Ch. 5			l	<u> </u>	America).

1995	Lea Cabrol	Chile	de Chile (MMA), Instituto de Ecologia y Biodiversidad (IEB- Chile), empresa Fibra Optica Autral (CTR), Centro Sub- Antártico Cabop de Hornos	N/A	Ch. 5				After recognizing multiple values it is important to know a scale of values (values axiology), to understand the steps that will be taken towards change. How to order values that necessarily contradict each other? What is the weight that will be assigned to different values?	Value axiologies are as diverse as values, we have therefore focussed on just and sustainable as universally accepted "overarching values".
1996	Daniel Alvarez	Chile	Ministerio del Medio Ambiente de Chile (MMA), Instituto de Ecologia y Biodiversidad (IEB- Chile), empresa Fibra Optica Autral (CTR), Centro Sub- Antártico Cabop de Hornos	N/A	Ch. 5				It is proposed to review the 6th Report of the State of Biodiversity of Chile to the CBD (2019). It is relevant to review the implicit axiology in these reports because it is the one that is influencing decision making. This is an analysis and exercise necessary to examine possible and desirable futures, would changing the hierarchy of values change futures?	Thanks for the suggestion, but it would not be valid to focus on a single countries biodiveristy report here.
1997	Maria de Jesus Valle	Chile	Ministerio del Medio Ambiente de Chile (MMA), Instituto de Ecologia y Biodiversidad (IEB- Chile), empresa Fibra Optica Autral (CTR), Centro Sub- Antártico Cabop de Hornos	N/A	Ch. 5				In addition to political instruments considered, is important to bear in mind others such as the new post-Aichi goals. One problem is that the reports (for example national biodiversity strategies) have a free format and therefore their indicators are not comparable with other reports from other countries. Additionally, how could the different political instruments talk?	Thanks. This section has now been removed.
1998	Patricio Morales	Chile	de Chile (MMA), Instituto de Ecologia y Biodiversidad (IEB- Chile), empresa Fibra Optica Autral (CTR), Centro Sub- Antártico Cabop de Hornos	N/A	Ch. 5				Chile has led with the formulation of Royal Conservation Rights. This could be a substantial contribution to chapter S. WE NEED TO LOOK UP THE SPECIFIC REFERENCE TO GIVE AT CHAPTER AUTHORS.	Thanks for the suggestion - please send a reference if you have one.
1999	Eduardo Barros	Chile	Ministerio del Medio Ambiente de Chile (MMA), Instituto de Ecologia y Biodiversidad (IEB- Chile), empresa Fibra Optica Autral (CTR), Centro Sub- Antártico Cabop de Hornos	N/A	Ch. 5				There are successful public policies such as reducing child mortality, intra-household abuse, which have changed values and behaviors. These precedents generate an optimistic view towards transformative change. Therefore, it would be a contribution to have transversal values and place conservation in public policies. For example, biodiversity can be placed as a transversal value in the different public policies, also put it on the agendas of companies. Also important is the regional dialogue between countries, which allow favorable actions for habitats of species shared between neighboring countries.	We do emphasize on learnign from successful policies, and includign those learnings in adpating and even transforming governance arrangements. We intend to include regional dialogue in a case study in the next interation of the chapter.
	Maria de Jesus Valle	Chile	Ministerio del Medio Ambiente de Chile (MMA), Instituto de Ecologia y Biodiversidad (IEB- Chile), empresa Fibra Optica Autral (CTR), Centro Sub- Antártico Cabop de Hornos	N/A	Ch. 5				Once possible, it is important to add in this, and at the beginning of all the chapters, the definition or meaning for values, so that it is not confused with the monetary valuation with which the valuation is conceived from other areas. Thinking about key messages for decision-makers it is important that misinterpretations are avoided. It is suggested to reorder the ideas of the paragraph in such a way that a proactive language is used, and not in a negative (L50-55, pg 2).	Definitions regarding value will from from chq, there is no space to repeat these in this and other chapters.
2001	Maria de Jesus Valle	Chile	Ministerio del Medio Ambiente de Chile (MMA), Instituto de Ecologia y Biodiversidad (IEB- Chile), empresa Fibra Optica Autral (CTR), Centro Sub- Antártico Cabop de Hornos	N/A	Ch. 5				There is an agreement with the content, but it is considered that it could be deepened. For example, why and how key elements are considered or what type of compensation or externalities can be had or the type of positive consequences. Thinking about key messages for decision-makers, it is important that these ideas are clear and do not lend themselves to free "wrong" interpretations (L74-76, pg 3).	Thanks for the warning. This particular key nessage has been removed.
	Maria de Jesus Valle	Chile	Ministerio del Medio Ambiente de Chile (MMA), Instituto de Ecologia y Biodiversidad (IEB- Chile), empresa Fibra Optica Autral (CTR), Centro Sub- Antártico Cabop de Hornos	N/A	Ch. 5				Agree with the 3 aspects of justice that are included in the principle of sustainability. But just and sustainable are not concepts clearly exposes. So it would be good to explain this sustainable principle in its broadest range and to detail the aspects related to justice. The same logic applies to clearly explain what is meant by fair, since it is only explained with whom it relates, but not what is just (L100-104, p. 4).	We has incorporated this comment in general terms in to the chapter. It more specifically relates to chapter 1 where the principles and forundations of the assessment are established.
2069	Sana Okayasu	The Netherlands	TSU for Scenarios and Models at PBL Netherlands Environmental Assessment Agency	No	Ch. 5	45.	1071	46 10	This kind of analysis would be very useful and relevant to the work of the IPBES task force on scenarios and models. Although the nature futures scenarios are still in the process of being developed, this analysis would allow us to situate them within the broader landscape of the types of values addressed across scenario archetypes.	We would be happy to collaborate on these issues. Please be intouch through the TSU.

	Sana Okayasu Sana Okayasu	The Netherlands The Netherlands	TSU for Scenarios and Models at PBL Netherlands Environmental Assessment Agency TSU for Scenarios and Models at PBL Netherlands Environmental Assessment	No No	Ch. 5	46.	1082	46	1085	If this option 2 is chosen, it would be confusing to have completely new names as it would create yet another typology of values (and the assessment already has so many categorisations). I think it would flow better if typologies already mentioned in the earlier chapters were used, like the Life Frames or the intrinsic/instrumental/relational distinctions. Also, I am curious about what the purpose of creating value archetypes would be? Especially since the preliminary results presented in the previous sections suggest a gap in representation of intrinsic values in future visions and scenarios, would the creation of archetypes from this biased set of materials be useful to tell a certain story? Figure 5.6 Top matrix: Assuming that the right hand columns would represent the value archetypes, what would the targets per archetype be? Would it be a reinterpretation of the ABTs and SDGs shown in the table below it? We have adjusted this figure. Each of the Archetypes is represented seperately with the associated SGD's that they feed into mapped out.
20/1	Sana Okayasu	ine Netherlands	Agency	NO	Cn. 5	49.	1134	49	1139	below it? seperately with the associated SGD's that they feed into mapped out.
2072	Sana Okayasu	The Netherlands	PBL Netherlands Environmental Assessment Agency	No	Ch. 5	60.	1472	60		This seems to point to potential literature, but could it instead conclude on what that literature is saying about values and desirable change? Thank you for this good point. We proceed as suggested.
	,		PBL Netherlands							, , , , , , , , , , , , , , , , , , , ,
			Environmental Assessment							The title does not appear to match the content, which is more on
2073	Sana Okayasu	The Netherlands	Agency	No	Ch. 5	63.	1577	63	1587	examples of values motivating pro-environmental behaviour. We have revised the title accordingly
2074	Sana Okayasu	The Netherlands	TSU for Scenarios and Models at PBL Netherlands Environmental Assessment Agency	No	Ch. 5	66.	1637	66		This analysis could also be useful for the development of the nature futures scenarios under the task force on scenarios and models, especially if it can link values and interventions, and point to intervention opportunities, as this needs to be strengthened in the next steps of the scenario-building process. Grateful if we could share progress across deliverables. Yes, glad to share progress with the other assessment
2074	Salia Okayasu	THE Netherlands	Agency	NO	CII. 3	00.	1037	00	1048	We have include outcomes of the IPBES GA, RA as well as other
2148	Fischer, Markus	NA	MEP/Bureau	No	Ch. 5					when justifying the need for transformative change, make use of the scenario findings of the global (and other) IPBES assessment(s) literature search
			, ,							This destinction is based on the IPBES conceptual arround which this
										in the section 5.3. What the differense between Nature and NCP? Why do assessment is being built we are therefore required to consider these
2172	Rovshan Abbasov	NA	MEP/Bureau	No	Ch. 5					you distignush it? (5.3 Nature and Nature's Contributions to People) terms both individually and together.
2173	Rovshan Abbasov	NA	MEP/Bureau	No	Ch. 5		102	102		How about justise betwee ncountries? If China's nuclear waste is buried in Sudan, does this cover sustainability? Justice between countries is part of justice within generations, This comprises global and social justice issues.
2174	Shizuka Hashimoto	NA	MEP/Bureau	No	Ch. 5	1		2		Key messages of chapter 5 are important and looked very interesting but they looked a bit too general focusing on "just and sustainable futures" with little remarks on nature and nature's contributoins to people. I wonder if it is possible to narrow the scope of KMs. Yes, the KM of the FOD were quire generic and derivative. We have tried to enhance these and make them for specific in the SOD.
								3		Please explain the relationship between scenarios and visions. Scenarios in the environmental assessment are not often built as a vision or a desireble future state of the world because scenarios are the tool to explore impacts of future uncertainties. Some scenarios, especially target seeking scenarios, could contain information about the desired future but not all scenarios such as exploratory and policy screening scenarios, contains such information. As such, it is very important to explain how did this chapter extract visions "sometimes" embeddded in exsiting Thanks, scenarios have now been more clearly defined. See SOD section
2175	Shizuka Hashimoto	NA	MEP/Bureau	No	Ch. 5	29	5			future scenarios. 5.2
2176	Shizuka Hashimoto	NA	MEP/Bureau	No	Ch. 5	32	947	32	955	We have reworked the methods of this sections - please see seperate provide a timeframe of the literature search (e.g. from 1965 to 2018) methods review.
			, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					32		I would suggest using the IPBES Catalogue of Relevant Assessments
										(http://catalog.ipbes.net/) as one of sources of snowball sampling. IPBES
2177	Shizuka Hashimoto	NA	MEP/Bureau	No	Ch. 5	33	5.3.2.1			Asia-Pacific Regional assessment also used it as one of the sources. Thanks for the suggestion, we will incorporate if appropriate.

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217	8 Shizuka Hashimoto	NA	MEP/Bureau	No	Ch. 5	33	Table 5.2.		better to include IPBES's land degradation and polllination asssesment. Also, GBO4 and Roads from Rio+20 (https://www.pbl.nl/en/publications/2012/roads-from-rio20). Also, it time allows it would be a good idea to look at reports and articles from IPCC and climate change community such as IPCC SRES report, articles on SSPs and RCPs (I presume they have different visions and scopes). For national scale scenarios of nature and nature's contributions to people, final report of the Japan Satoyama Satoumi Assessment (http://catalog.ipbes.net/assessments/62) and "O. Saito, C. Kamiyama, S. Hashimoto, T. Matsui, K. Shoyama, K. Kabaya, T. Uetake, H. Taki, Y. Ishikawa, K. Matsushita, F. Yamane, J. Hori, T. Ariga, K. Takeuchi (2019) Codesign of national-scale future scenarios in Japan to predict and assess natural capital and ecosystem services. Sustainability Science, 14-1, p.5–21. "that introduce future scenarios examined in the ongoing national scale assessment will be interesting to include.	Thanks for the references. We have reviewed and incorporated your suggestions as appropriate.
217	9 Shizuka Hashimoto	NA	MEP/Bureau	No	Ch. 5	35	sceario archetype s in Table 5.2		Scenario archetypes suggested in the Scenario and Model assessmen is not universal classification. So, this implies that if you try to classify all the reviewed scenarios by the scenario archetypes suggested in the Scenario and Model assessment, there is a possibility of facing scenarios that cannot fall into the existing archetypes and also missing some values embedded in existing scenarios. It is better to critically evaluate existing scenario archetypes in light of its capacity of capturing wide spectram of values before using the archetypes for classification of scenarios.	Thanks, for the comment we are mindful of this. We have expanded our archetype analysis to 7 different archetypes now. in the SOD (see section 5.2).
218	0 Shizuka Hashimoto	NA	MEP/Bureau	No	Ch. 5	40	nature futue framewor k in Table 5.2		three visions in the nature future frameworks represent intrinsic, instrumentan and relational values respectively. So, this categorization seems to be a duplication with value justificaton in the previous page.	Thanks, we have now reworked and reworded this section.
218	1 Shizuka Hashimoto	NA	MEP/Bureau	No	Ch. 5	42	table 5.4		nature's benefit to people> nature's contribution to people	Thank you for the pointer. We have applied your correction.
218	2 Shizuka Hashimoto	NA	MEP/Bureau	No	Ch. 5	46	1147	46	please be aware that scenario archetypes suggested in the Scenario and Model assessmen is not universal classification. For example, Adapting Mosaic scenario, the best scenario examined in the Millenium Ecosystem Assessment, was not captured by the above mentioned archetupes. So, this implies that if you try to classify all the reviewed scenarios by the scenario archetypes suggested in the Scenario and Model assessment, there is a high possibility of facing scenarios that cannot fall into the existing archetypes and also missing some values embedded in existing scenarios. It is better to critically evaluate existing scenario archetypes in light of its capacity of capturing wide spectram of values before using the archetypes for classification of scenarios.	Thanks, for the comment we are mindful of this. We have expanded our archetype analysis to 7 different archetypes now. in the SOD (see section 5.2).
229	2 Luthando Dziba	NA	MEP/Bureau	No	Ch. 5	General			The amount of work done for the FOD is very impressive and is commendable. The chapter is very comprehensive, has a very detailed outline and is very well thought out both conceptually and in terms of structure of the chapter. The earlier sections of the chapter are clearly articulated and the latter sections require more time - this is definitely possible given such an impressive start for the chapter and the assessment in general.	Thanks - no action required.
229	3 Luthando Dziba	NA	MEP/Bureau	No	Ch. 5	General			I hope the note that the key messages are placeholders doesn't deter external reviewers from reading them and commenting on them substantively. Given how comprehensive the chapter is, it would benefit the experts to have comments on key messages from the current draft.	We received many comments on the key messages. No action required here.
220	4 Luthando Dziba	NA	MEP/Bureau	No	Ch. 5	General			It is important for the authors to ensure consistency between the scoping of chapter 5 in the scoping document and how it is framed currently. The current framing of the chapter is quite sound and understandly builds on the work of the global assessment. Perhaps, the CLAs should reflect on the scoping mandate and give attention to addressing full what is scoped and then some more.	The inconsitency was a major concern for us, which we raised with the Co-chairs. They have assured us that they are keeping track of the overall scope of the assessement ensuring that all componets are included into one or other chapters.
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							u cc g d d tt es d a a n r tt v v s s s s t	COPING DOC: Chapter 5 will highlight knowledge and data gaps and uncertainties in terms of the bridging and integration of diverse conceptualizations of values of nature and its benefits to people into governance, institutional and policy design relevant to policymaking and lecision-making. It will emphasize (a) the types of conceptualizations of he value of nature and its benefits to people that have not been explicitly addressed or have not been explicitly incorporated into lecision-making; (b) the types of valuation approaches, as well as their urticulation, integration and bridging, that are underdeveloped or have not been explicitly incorporated into decision-making; (c) the challenges hat have hindered the incorporation of diverse conceptualizations of alues of nature and its benefits in a range of decision-making and oblicymaking contexts and levels as well as their implications for ustainability; and (d) the implications for different stakeholders of ipplying a subset of values rather than the full suite of relevant biophysical, social and cultural, economic, health-related and holistic including indigenous and local community-based) values when those	
229	Luthando Dziba	NA	MEP/Bureau	No	Ch. 5	General		ralues are at stake.	We acknowledge the scope and refer the reviewer to the comment above.
	5 Luthando Dziba	NA	MEP/Bureau	No	Ch. 5	General	P a to th	lease clarify the difference between the IPBES conceptual framework vs if framing of values in Section 5.2. The authors should make some effort o demonstrate the link between the current framing of the chapter and he IPBES conceptual framework. It would be useful to understand why are the authors only focusing on	Agreed, we have now made this link in section 5.2
							tł	he UN targets when assessing how multiple values might enable	We have rework this section and section 5.3, expanding greatly on
229	7 Luthando Dziba	NA	MEP/Bureau	No	Ch. 5	General	tr	ransformation.	enablers of transfromation.
2298	3 Luthando Dziba	NA	MEP/Bureau	No	Ch. 5	General	w sł ir	in the context of just and sustanabible transitions. The authos hould aim to shorten this section perhaps by deciding which hould aim to shorten this section perhaps by deciding which information should be in the chapter and which information can be expanded in the appendix/annexure section of the report	Thanks. We have shortened this section substaintially.
229	Luthando Dziba	NA	MEP/Bureau	No	Ch. 5	General	vi 2	n Table 5.2, is there room to add visions from a regional level such as isions of regional economic bodies like the EU, African Union (Agenda 1063) or subregional or even selected examples of national development lans? However, please avoid it being too long.	We addopted a snowballing approach here and doccuments and sources emerged from this methodology. The table and all of the associated methods have been placed in a diferent doccuments and directed by the TSU and MEP.
2300) Luthando Dziba	NA	MEP/Bureau	No	Ch. 5	General	it	able 5.3 on Futue Works should definitely go to Appendices/Annexures- t is too long. Perhaps having a short summary and a website link or eference can be useful.	See comment above. Methods tables are now in a seperate doccument.
	l Luthando Dziba	NA	MEP/Bureau	No	Ch. 5	General	5 ai tl m	3.3 Nature and Nature's Contributions to People in future visions of Just and Sustainable Future currently describes the approach/methodology he authors plan to follow in their analysis. Some analyses of futures night help but this will be developed as earlier sections are being fully leveloped.	Yes, this is correct. This analysis is now presented in SOD section 5.2
230	2 Luthando Dziba	NA	MEP/Bureau	No	Ch. 5	General	ci ai d fr u	The descriptions of methodologies or typologies of mthods used in the chapter should be summarized in the beginning of the chapter. The utthors should avoid doing this per section. It should even perhaps be lescribed for the whole assessment - Chapter 1 should set the context anf raming for the whole assessment including the assessment methodology used, typology, framing etc of the whole assessment. That might even contribute to shortening the chapters.	See comment above. Methods tables are now in a seperate doccument. We have removed much of the foundational descriptions to avoid repetition with chapter 1.
230:	3 Luthando Dziba	NA	MEP/Bureau	No	Ch. 5	General		the case for choosing the two emblematic case studies - the Green conomy and Biocultural diversity - can be made stronger.	These two cases have been redefined as two broad pathways that include clusters of particular case studies. First, Green Economy represents a pathway that is transforming "narrow monetary economy" into broader transdisciplinary approaches linked to ecological economics and other realms. The second pathways has been redefined as Earth Stewardship that includes Conservation of Biocultural Diversity, and also includes "Buen Vivir" and specific conflicts such as resistance to dams and other mega-projects that entail losses of biological and cultural diversity. We will work to offer a solid rational that explains and justifies why we consider that Green Economy and Earth Stewardship.

2304	Luthando Dziba	NA	MEP/Bureau	No	Ch. 5	General				There are strong political objections to the use of biocultural diversity among some governments. The authors should refer to the Pollination Assessment and see how its used there and perhaps underpin its use with solid literature and remove any political references where possible and necessary.	As stated in IPBES Pollination Assessment, "biocultural diversity" is basically defined as the interrelationships between biological and cultural diversity. In some cases cultural diversity will imply conflicts among different views, interests, and stakeholders. Socio-environmental conflicts are embedded in biocultural diversity are studied by applied anthropologists, conservation biologists, and other disciplines. We will be precise in proiding sources of information and cited studies for particular cases.
2428	Sandra Lavorel	NA	MEP/Bureau	No	Ch. 5					The FOD for chapter 5 provides an impressive start to what promises to be an outstanding product. A lot has already been covered and it is clear that the authors have a vision of the messages they want to convey. Nevertheless the coverage is very extensive and does not always appear to strictly address the scoping objectives for this chapter - especially in going beyond the question of multiple values for just and sustainable futures. The text is highly stimulating, though in places rather academic. Authors need to focus on structuring and communicating the evidence for a non-specialist audience.	We are reworing the text to be more precise, focussed, and easier to interpret. For comments on scope please refer to comments above.
										Key messages: these high-level messages convey an ambitious vision. In	This is correct, they've been used between the FOD and the SOD to
2429	Sandra Lavorel	NA	MEP/Bureau	No	Ch. 5	1		3		the current state of development of the chapter they can be treated as hypotheses against which the evidence needs to stack up.	present hypotheses that have been tested and refined through the literature review process.
	Sandra Lavorel	NA	MEP/Bureau	No	Ch. 5	13	386	13		authors may also consider conceptualisation of pathways by Wise and colleagues (2014) Global Environmental Change 28: 325-336	Thanks for the reference. We have now made reference to pathways in this Chapter.
										Pathway characteristics: as highighted later in the chapter, knowledge also needs to be considered. Moreover interactions among values, governance, norms and knowledge are key to windows of opportunity / decisions along pathways (see Gorddard et al. 2016 Envir. Sci. Pol. 57: 60-	
2431	Sandra Lavorel	NA	MEP/Bureau	No	Ch. 5	14				69 and Colloff et al. 2017 Env. Sci. Pol already cited from review) Scoppe of the review of visions: the breadth of sources that the authors	Thanks for the reference
2432	Sandra Lavorel	NA	MEP/Bureau	No	Ch. 5	30				intend to cover is to be commended. I hope that they do manage to incorporate the diversity of non-academic sources.	Thanks. We have managed to now incorporate an extensive range of non-accademic sources.
2433	Sandra Lavorel	NA	MEP/Bureau	No	Ch. 5	34				I am pleased to see how the structure of the data base expands and improves on the data base developed for the European and Central Asia Regional Assessment (Chapter 5.4 / 5.5). For fairness this could be mentioned. Importantly a more in depth re-analysis is in progress for trends in nature, NCP and good quality of life (along with scoring of corresponding indicators). I will be happy to share the resulting data base (publication in prep.), along with insights into methods for analysisgiven the gappy nature of a data set with strong reporting biases.	Collaborations here are being established. We have acknowledged the links to the ECA assessment.
2434	Sandra Lavorel	NA	MEP/Bureau	No	Ch. 5	41	1022	41		How will sustainable and unsustainable futures be judged a priori? (same applies p. 50)	Yes, this is correct. This analysis is now presented in SOD section 5.2
	Sandra Lavorel	NA	MEP/Bureau	No	Ch. 5	46				Option 2 of reviewing results according to value archetypes would be more in line with the objectives of the chapter. Ideally one would want to see a link between scenario archetypes (option 1) and value archetypes (option 2) - which will be a challenging exercise.	We agree, and have used this approach in the SOD (see section 5.2).
2436	Sandra Lavorel	NA	MEP/Bureau	No	Ch. 5	49			ı	SDGs and archetypes: in the ECARA chapter 5.5 we linked value scores (for nature, NCP, good QoL) to SDGs through a quantitative method. This could be applied here too and I would be happy to help (also with post assessment progress on methods to handle data uncertainties)	Thanks, we have now adopted a siilar approach in this assessment in producting the SOD (see section 5.2).
2437	Sandra Lavorel	NA	MEP/Bureau	No	Ch. 5	52		53		I suggest incorporating to this section an additional perspective on NCP18 and biodiversity option value is provided by the concept of 'adaptation services' (Lavorel et al. 2015 Global Change Biol., Colloffet al. 2016 Ecological Applications), recently refined as 'Nature's Contributions to Adaptation' (Colloff et al., in review). I will be happy to supply text if this is considered relevant.	Thanks. This section has now been removed because it was not aligned with the emergent focus of the chapter.

2438	Sandra Lavorel	NA .	MEP/Bureau	No	Ch. 5	68		76		The presentation structure for the two examplary pathways (Green Economy and Biocultural diversity) is rather different and needs to be unified. For green economy the focus is strongly on economic valuation principles and methods, whereas for bioeconomy a mong historical introduction is followed by a discursive comparison of failure vs. success cases which is not tightly related to the core topic of the chapter. Section 5.5 is rather generic and somewhat strays away from the core	These two cases pathways, Green Economy and now Earth Stewardship (instead of Biocultural Diversity) include clusters of particular case studies. Both share common attribute of transforming the status quo in decision-making and economics. They are complementary pathways, insofar Green Economy represents a transformation of "narrow monetary economy" while Earth Stewardship enables the consideration of worldviews that are incommensurable with monetary economy and utilitarian ethics. Often these worldviews, which form part of the Biocultural Heritage, have been marginalized. With the Green Economy and Earth Stewardship pathways, we expect to encompass a broad array of values, expressed in representative case studies.
2439	Sandra Lavorel	NA	MEP/Bureau	No	Ch. 5	80				focus on multiple values and just and sustainable futures.	We have reworked this section to better reflect these core issues.
						108				Possible additions of references: Coreau, A., Narcy, JB., Lumbroso, S., 2018. Who Really Wants an Ambitious Large-Scale Restoration of the Seine Estuary? A Strategic Analysis of a Science-Policy Interface Locked in a Stalemate. Environmental Management 61, 834-847. Lavorel, S., Colloff, M.J., Locatelli, B., Gorddard, R., Prober, S.M., Gabillet, M., Devaux, C., Laforgue, D., Peyrache-Gadeau, V., 2019. Mustering the power of ecosystems for adaptation to climate change. Environmental Science & Policy 92, 87-97. Prober, S.M., Colloff, M.J., Abel, N., Crimp, S., Doherty, M.D., Dunlop, M., Eldridge, D.J., Gorddard, R., Lavorel, S., Metcalfe, D., Murphy, H.T., Ryan, P., Williams, K.J., 2017. Informing climate adaptation pathways in multi-use woodland landscapes using the values-rules-knowledge	Thanks for the references we will review these for incorporation into the
2440	Sandra Lavorel	NA	MEP/Bureau	No	Ch. 5					framework. Agriculture, Ecosystems and Environment 241, 39-53.	SOD.
						1	1			As in all the chapters, this should be written in a much simpler manner	We are reworking all of the key messages so that the are simpler and
2442	Julia Marton-Lefèvre	NA	MEP/Bureau	No	ch. 5	ľ	1	3	82	and act as the Executive Summary for this paper	incorporating these into an executive summary.
2443	Julia Marton-Lefèvre	NA	MEP/Bureau	No	ch. 5	4	110	6	170	The review of transformative changes leading to a sustainable future sounds very promising and hopefully will present some examples of how such changes can take root in various societies.	We have used clusters of cases in the chapter to help give a sense of how change can (and doesn't) take hold.
		1				7	172			we need to ensure that the term transformative does not frighten policy	
2444	Julia Marton-Lefèvre	NA	MEP/Bureau	No	ch. 5			29	861	makers in thinking that the transformed future will be uncomfortable.	We aim to present the science in clear and policy relevant way.
	Julia Marton-Lefèvre	NA	MEP/Bureau	No	ch. 5	30	862	55		References to values should also be mindful of the fact that some readers (and policy makers) will assume that this means one value system is trying to take over another one. I look forward to seeing examples of how the macro levels link to the micro ones.	This section has been reworked, to better incorporate the importance of a plurality of values and appraoches.
2446	Julia Marton-Lefèvre	NA	MEP/Bureau	No	ch. 5	56	1317	78	2082	the answer to the question as to which values suppprt sustainable outcfomes is important, although it will depend on different cultures. I also hope that more information about how to achieve the green economy will be provided in this section.	This section has been supplemented to incoporate sustainability futures and explanations on the Green economy
2447	Julia Marton-Lefèvre	NA	MEP/Bureau	No	ch. 5	79	2083	91	2472	the role of governance in bringing abpout change is essential and hopefully this section will give some concrete examples of how this can happen. The role of actors and their actions must be recognized as key in governance arrangements.	We intend to add more case studies in the section to address this.
2476	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	1	18	1	19	Values can be considered as part of the process occurring now, not just for changes to happen but for to remain. There are values involved in the current life. Why not to recognize that we all make decisions (individual and collective ones) that involves a value system?	This is correct but it is the focus of Chapter 4. Chapter 5 focuses on futures.
	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	1	24	1		How can sustainability meet the social goals it should?	We have clarified the links between sustainability and the SDGs.
										Do you mean "inter-subjetivity"?	,
2470	Addison C. Flour Bio	l	A 450 /D	N.	Ct. F	1	30			It is really needed a clear distinction between personal values and values	This WAR as I was a size
2478	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5			1	31	systems. And feelings Because we live and make decisions in a "senti-pensante"	This KM no longer exists. We have restructured this KM. We are however just starting to touch on
2479	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	1	33	1	33	(feeling-thinking) world.	the issue of feelings in section 5.3 SOD.
245		l				2	36			This sentence is not clear: " for sustainability transformations" or	This is still work in progress and the KM will be refined based on the
2480	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5			2	37	"transformations towards sustainability"? Plural? Inclusive? "Democratic" is a system that is not shared among most of indigenous	results of the review.
2481	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	2	42	2	42	communities. It is an occidental invention.	The word democratic has been removed from the KM.

						,					
										Since "human rights" have mostly an individual perspective, please clarify	
						2	49			that the recognition of values can enhance the collective rights, the	The discussions on human rights and values are complemented by the
						آ ۔	.5			rights for the peoples, too. See Gustavo Esteva discussions about human	inclusion of discussions on the rights of indigenous peoples. They are not
2482	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5			2	49	rights and indigenous peoples.	contradictory but complementary.
										What is the role of the values in this agreement?	
2483	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	2	66	2	67	Clarifying can help in connecting this paragraph with the precedents.	KM has been rephrased.
										, , , , , , , , , , , , , , , , , , , ,	·
						2	69				Yes our archetype analysis indicates that values affect futures. The
2484	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5			2	71	Does it mean that values are driving the future?	phrasing of this KM will be refined once the literature review is finalised.
			/ = 2. 000					_		For a better understanding please provide some examples of what values	We have significantly reworked the keymessages with many examples and
2485	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	3	72	3	73	or combination of values are associated with sustainable futures.	reference to the text.
	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	3	77	3		This paragraph seems to be disconnected from the rest of the text.	TSU suggestion of response: This KM no longer exists.
2480	Aditalia C. Flores-Diaz	INA	IVILEY DUTEBU	140	CII. J	,		,	02	Processes are not associated to ecosystems but part of the existence of	This is a difference in style - associated mean part of, and is a standard way
2407	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	4	95	4	0.5	the ecosystems.	of describing ecosystems.
2407	Aditalia C. Hores-Diaz	INA	IVILE / Bulleau	INO	CII. J	-			93		or describing ecosystems.
2400	Address C. Flance Bio		145D /D		Cl. F	4	93		0.0	Too long sentence. Please make two shorter ones, or rewrite with a new	This contact the section of
2488	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5			4	98	structure.	This sentence have been shortened.
										Too long sentence.	
										Please divide it by numbers (1), (2) the many questions addressed in	
2489	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	4	112	4	119	this chapter.	This section have been reworked and this sentence have been adjusted.
						5	122			Why is Transformative changes here? The text has only identified the	The introduction to the chapter has been reworked to highlight why the
2490	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5			5	122	justice issues as central for sustainability.	need for transformation.
										I understand the importance of this tasks and goal. I have concerns about	
										the scope of this particular goal, and how to maintain the "focus" on this	Our revision of 5.3 maintains questions about transformation but
										assessment on values, dialogging with the TC one which has not already	focuses on the role of values within this. Thus it is a much narrower focus
2491	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	4	119	4	119	begun.	than the TC assessment.
										-	
										Which are the reasons to consider transformative change and not simply	
										review values and valuation in their own contexts and meanings?	
											First, I guess we took on this 'futures' chapter before knowing about a TC
										This seems to be more close to the TC Assessment which will be	assessment. Given that the 'transformations to sustainability' research is
						5	128			beginning, soon.	an important and vibrant part of the futures body of work it would have
											been a huge oversight not to include. Later discovering that there is a TC
										Before the TC approach, I think it is needed to recover the own values and	assessment does not seem a good reason to abandon the work/team that
										valuation systems to help us understand how those multiple values and	had come together. There is an increasingly important sub-set of
										views are becoming together. Given the interplay values systems have,	transformations work that hypothesises that changing values is a
										what multiple results are we having and how close are they of	necessary condition for transformative change. That is where 5.3 is
2492	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5			5	128	sustainability paths?	focusing.
										Is it about typologies of values or about typologies of values systems?	_
2493	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	5	133	5	134	Or even more about typologies of values systems' interplay?	We have clarified that we are focussed on typoligies of values.
										Are you figuring out the values in one study or paper? Or are you just	7. 0
										putting together the values previously identified by other authors?	
						5	137			This should be stated in the method section because it refers to "whose"	We have clarified the review approach- see SOD section 5.2 and also
2494	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5			5	120	views are we reading.	created a data management report to make our methods explicit
2434	Aditalia C. Flores-Diaz	INA	IVIEF/Bulleau	INU	CII. 3	1		3	130	views are we reading.	
2405	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	l ₋	142	-	143	What does it mean? Breader literature?	We assume this is a typo for broader literature, but do not fine the error in the submitted pdf.
2495	AUTIAITA C. FIUTES-DIAZ	INA	IVIEF/DUTEdu	INU	CII. 5	3		- 5	142		in the submitted pai.
2400	Adriana C. Floros Día-	NA	MED /Burgay	No	Ch F	6	163	_	100	Did you explore how useful is to consider the social capital for analyzing	Please forward this comment to sh 6
2496	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	+	+	- 6	163	this point? Is it possible to consider this approach?	Please forward this comment to ch 6.
				İ	1	1	1	1		Please verify that these guiding questions are properly justified and that	
				İ	1	1	1	1		hey come from the previous paragraphs.	
				İ	1	1	1	1		I feel links are missing between the previous explanation of each section	
2497	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	6	164	6	170	and the guiding questions. They should match.	Questions, were not aligned adn have now been removed.
				İ	1	1	1	1		Figure 5.1. I feel this figure is out of place because it is about the	
				İ	1	1	1	1		Figure 5.1 I feel this figure is out of place because it is about the	
				İ	1	1	1	1		relationship between chapter 5 and the rest of the assessment.	
				1						The previous chapters we were reading about how chapter 5 is being	
				1						built, but this figure ins not referred in any place of the previous text.	
				İ	1	6	172	1		Then, it is no clear the connection and flow of the manuscript. Please	
				1		ľ	1,,,			relocate it.	
				1							
				1						In addition, given that there is no clear explanation of this figure, it is no	
				İ	1	1	1	1		clear what is the function of the curve arrows (up and down in the figure)	
				1						of "Instrumental". Please explain these arrows and the question marks	
2498	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5			6	172	included.	The figure have been removed.

_		ı	T	ı	1						
										This is a great example of the challenges we have in this assessment. Is it just a matter of scale? Is it about history and the trajectories of both systems?	
										We all can agree in the importance on caring and conserving wildlife, so we can identify here a "value" or or group of them. However, we are not talking about the same values in (a) a protected area decree by a national law - institution, and (b) a natural area protected by an agreement of a	
										local community.	
										The rationale behind each one is different, as well as the values involved in each, and the values systems that are part of the structure of each of	
										these cases. Then, both can be part of the same country, so how are they interplaying? How is this interplaying participating in a sustainable pathway - sustainable living?	
										Is it just a matter of scale?	7
249	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	7	184	7	189	Is it about history and the trajectories of both systems?	Thanks for the important questions, we have tried to reflect on there in our reworking of the chapter.
250	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	7	193	7	193	Is it just a matter of scale? Is it about history and the trajectories of both systems?	see previous comment
250	L Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	7	224	8	224	and because of the need of Justice. There are hundreds of environmental conflicts and people is been killed because of the defense of the territories and the rights their have to make decisions on them. These are values in conflict, and they are not related only to change with reference on biodiversity. There is more than that.	Yes, we agree. It is clear from the literature, we will ensure that we don't limply that biodiversity is the only cause.
250	Translate Citrores Blaz		INEL / Bureau	110		,				In this section, please explain very clearly the way you are doing to	mpy that diddressly is the only educe.
						8	231			answer the guiding questions, and do it in the same order you have stated in the introduction section of this chapter. This can help the reader in	
										following you. I also recommend a diagram for a better explanation of the methods used	
250	2 Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5			8	231	for the chapter.	Methods have now being clarified.
250	8 Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	q	255	q	255	The three approaches explained below do not exclude each other. It is an important question to remark, because it is no necessary to choose one of those approaches to frame the TC analysis. It can be interesting to have more comprehensive tool, what about having the three of them together? Can we have a better understanding of transformations?	Yes, thanks. Our approach in the revised 5.3.1 is to look at the convergence and emerging consensus across these approaches - but specifically for the role of values in TC.
250	Variation of the Control of the Cont		Mer y bareau			,			233	It is important to recognize that any change in some of these levels has an effect (or not) in the others. There is a lot of theory on how "Hierarchies"	appearance of the control of the con
						11	334			work and it depends on the "internal" cohesion of the level and what do the interconnections let.	This work on system hierarchies has not featured much in our selected
250	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5			11	334	This is about systems dynamic.	literature and thus has not gained specific discusion in the text
250	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	14	405	14	405	This is a very important gap, that should be not just filled. Multiple values perspective cannot be represented just by filling the previous conceptual construction, otherwise we cannot have the multiple perspectives in the own "building".	Whilst we partly agree, the presentation of these as separate approaches is based on reviewing literature. However, we will place more emphasis on pulling out the common threads that will make our own framing partially cross-cutting
						14	423			There can be another important concepts in framing the pathways, such as wellbeing, good quality of life, or "Buen vivir". Defining this can help in	
250	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5		-20	14	423	setting values' place.	Thanks, we have especially referred to wellbeing in the cases.
										It is critical to integrate the Latinoamerican perspective, with Luis Aguilar Villanueva (2012) and his literature on governance systems and	
250	7 Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5	15	438 507	15	438	governability. This is to properly frame this discussion. Luis Aguilar Villanueva approaches can be helpful and complementary,	No link to governance could be identified on p.15.
1250	Adriana C. Flores-Díaz	NA	MEP/Bureau	No	Ch. 5		557	17	507	too. As a finance mechanism PES algorithms to the nature investments could	No specific reference or link is provided in the comment.
230											
	Gorucu Ozden	NA	MEP/Bureau	No	Ch. 5	29	888	30	910	be more clarified and explained from the point of rehbilitation and restoration actions	This comment apprears to relate to a different chapter.
	Gorucu Ozden	NA	MEP/Bureau	No	Ch. 5	29		30	910	restoration actions Yes!!! But must be said in a much simpler and direct way. In addition, are	This comment apprears to relate to a different chapter.
252	Gorucu Ozden	NA NA	MEP/Bureau MEP/Bureau	No No	Ch. 5	29	26	30		restoration actions	This comment apprears to relate to a different chapter. This was clarified.

	1	1	1	1						
2635	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	2	36		2 3	This may be key in understanding the potential breaking points in this early work, the ones that relate to an unspoken theory of change. Is the assessment team working on the assumption that by "intervening" (directly) on values, they might be able to achieve or direct sustainability transformations? This would imply that social values are born out of direct interventions (transformative valuation in chap 2?), which is not an assumption backed by considerable facts or historical precedence. It is important to define or hypothesize the relational framework through which we believe values emerge and are transformed. This also means understanding that value "systems" are the ones that matter most for 7 this assessment.
2636	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	2	40	:	2 44	This terms is used in several chapters, e.g. 2 and 5, which chap 1 tries to make a not-so-convincing case about values of, values about and values for There is the apparent belief that values directly related to nature are the most significant to explaining the decline of nature and defining transformation pathways. Nature does not necessarily explain itself or change through direct intervention in Nature. This is an assessment level issue, here the defintion needs to be lead by ch1.
2637	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	2	2 4	1		We are not sure what is meant by the cultural relativism concern but thatis not the way that the widence is handled in Ch5. E.g. The evidence meaning cultural relativism that does not address core systemic questions about global socioeconomic conditions, relations and the value system that enables them? We are not sure what is meant by the cultural relativism concern but thatis not the way that the evidence is handled in Ch5. E.g. The evidence points to values we need to erode - such as individualism and accumulation - and there is no shying away from this or claiming that it is complex, context dependent, realtive etc etc etc
2638	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	2	2 4	2		All this seem to be at the level of good intentions. Participatory processes are essential, but they are only facilitating conditions for transformative change. Core conditions must be addressed for the rest (respect for each other values, democratic deliberations, etc.) to truly matter. Note that People do this already and have designed and applied innovative methodologies to negotiate meanings, values and interests through deliberative processes in concrete places in Africa, Asia and Latin America (an example is CIFOR's Adaptive management program, circa 1999-2007; another is with Integrated Landscape Management (ILIM) initiatives and communities around the world). The question is where is the game changer??? We have tried to build moer realism and examples as suggested here into the chapter looking to art, ILK and other issues.
2639	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	2	2 4	3	2 4.	This sound overly naive and idealistic. What are the "values" that are "co- produced" through inclusive governance? This is from the standpoint of 30 years of co-constructing common ground with people in Africa and elsewhere in the world. Of course, actors in multistakeholder governance develop something valuable - some forms of shared values - when they develop a common vision, common goals and transform into a community of practice despite fundamental differences in values and interests. But what are the values that should interest us most? There is a big problem of scale and boundaries in this nascent discussion of values for the assessment. So far, we have failed to circumscribe the subject in a way that can prevent going in all directions and over-analyzing everything of value to human-nature relationships Thanks for your comment. The text has been improved aiming to clarify these concepts and make them practical.
2640	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	2	2 4	6 :	2 4	This is not untrue, but the whole paragraph gives the false impression that things are wrong mainly because different people do not share the same values. This idealism is counterproductive. Fundamental problems in the environment are linked directly not only to conflicting interests and unequal powers in environment matters, but also, and more fundamentally, to the broader political economy of value creation in places around the world. This was not out intention. Whe have reqorked the key messages to better reflect the importance of diversity.
2641	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	2	. 5	0 :	2 5	Are "institutionalized values" the key to this process or the very process of value creation and value accumulation in the global economic and financial sphere? Societies only "institutionalize" the things that have already been created in practice. We are in agreement here, and have clarified this key message relating to the creation and change of institutionalized values.

2642	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	2	56	2		Again this inversion of the relative importance of values and hard economic processes (value creation). Why would such a sophisticated group of experts, mainly social scientists, never want to address capitalism and the global economy, in order to identify the values promoted by the dominant economic system worldwide, its nuances and variances, along with their diverse impacts on the natural world, the people living in it, and international relations. Several analyses (see, e.g. Arturo Escobar) actually show that global environmentalism has a functional role within this system. I can't fathom an assessment of values that does not address this in a non dogmatic way.	We have reviewed literature focussed on future visions and the transformation towards more just and sustainable systems. Our work now highlights the the impacts of the current dominant capitalist system, and shows the value in collective approaches to issues through the use of archetypes. See section 5.2
2643	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	2	60	2	60	w the hypothesis is that change is going to happen through some kind of demiurgic individualism????	The role of individual value change and behavior change is one aspect we are discussing in section 5.3. We are not in any way proposing that self- development is a sufficient basis for change. But there is a lot of evidence that behavoural change must be part of the solution
2644	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	2	64	2		Just futures do not depend primarily on cultural inclusiveness and a sense of responsibility. It is first based on our capacity to change globally our extremely extractive and speculative system of accumulation to replace it with more generative and regenerative socioeconomic systems. So far, the FOD is extremely unclear on this point.	We agree with this comment. The evidence in our reviews points to this, so tho the IPBES global assessment. We made multiple changes to the SOD in this regard.
					01.5					That depends on how these models were built, on what assumptions and theories It should be presented clearly and critically; not as a foregone	Agreed we have adn continue to refione this message making the
	CHIMÈRE DIAW CHIMÈRE DIAW	NA NA	MEP/Bureau MEP/Bureau	No	Ch. 5	3	71	3		conclusion. trade offs, yes! But striving toward what? You can't reach that just by playing around things that are in the heads of people; you must address material conditions!	assumptions transparent We are adapting these messages based on the findings that emerge.
	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	3	77	3	70	Yes. But all the talking points relate to soft transformations in the heads or hearts (values) of people. Never to the hard truths of economic and power struggles over world resources, including nature. Why is that?	This is the first draft of a key message which is evolving. It is based on out survey to the literature - related to values of people for nature not economic powers struggles. IN the SOD there is greater emphasis on the relationship between these soft and hard elements (although we don't adopt this language)
	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	4	86	4	86		Thanks
	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5					Not OK. You cannot tag this on "current development", a position sometimes advocated by extreme environmentalists. Not all development is bad. We must be clear about that. You must specify the economic system that actually prevents certain regions from "developing". The vagueness is counterproductive and brings to mind hardline conservation attacks on "development" (e.g. Soule and Terbogh, 1999).	We have adjusted the text to current global socio-economic systems - this is inline with the IPBES global assessment findings
2050	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	4	109			Yes, and for this you need to address economic strictures and injustices, not merely between "people of the present generation" but between the peoples of the earth and different social classes and interest groups. The current wording is acting as mantle or a veil obscuring the realest and hardest issues.	We have adjusted the text throughout to demonstrate the differences between peoples, bowth within generations and intergenerational.
	CHIMÈRE DIAW	NA	MEP/Bureau	No No	Ch. 5	4	113	4		this FOD never addresses the creation of value in the economy	This is not within the scope of this chapter. This is an issue for ch1,2,4
	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	5	150	5		And its limitations (and going beyond them)! See Diaw 2015	We have incorporate this point made by Diaz et al 2015
	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	6	161	6		isn't that approach too conservative and influenced by the privileged position of the scientists in the world? Can we keep talking about ideas and values, and cooperation, etc without ever addressing the hard fundamentals of economic and social justice? I am afraid that, though essential, openness, pluralism, negotiation, and "deliberative processes will never be enough. Goodwill will never be a good enough substitute for "the real thing"	This text has been evolving. We are here to present review results of avaliable literature in a clear an transparent way.
2654	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	6	164	6		Yes it helps, but that is neither the whole story nor the fundamental change pathway! Change will happen by displacing the unequal order of things and through co-constructing an ecological and generative economy that will go beyond carbon and waste.	We believe that the by using the word 'enable' we recognise that this is not the whole story.
2655	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	7	178	7	180	yes. Note that they also are leftovers from the past, including from historically marginalized but resilient value systems, e.g. in the commons.	thanks
2656	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	7	190	7	191	Overall way more clearer and deliberate approach of chap 5 to the problem. This is very helpful. It enables more constructive criticism (in addition to appreciation of the many good points made).	Thanks. No action required.

										This is where we diverge with this FOD that wants to put (almost)	
										everything in the transformation of people values (and behaviors). This is	We did not intend to convey this. The review in 5.2.1 is of literature that
											has studied past transformations. We have also now reworked section
											5.3 covering transformations and the review of this literature in more
2657	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	7	193	7	19	differently now.	detail.
										The vision for values in the future, including the Life framework and	
										Nature's Future framework, of course, rightly emphasizes the vital	
										importance of integrating ecological futures in the options available to	
										humans right now. But it does it in a way that is assumes that all this will	
										happen in the confined boundaries of the existing socioeconomic	
										system. There is not proposal for addressing fundamental world and	
										regional inequalities and poverty embedded in our modes of	
										appropriating nature and extracting value and super profits from people	
										and nature. There is no proposal for the economic development of poor	
										regions of the world through new means of decoupling industrialization	
										from the degradation of nature (through what I considered to be "the	
										structural transformation SDGs" 8, 7 and 9). By making the	
										"instrumental" category the proxy for the current corporate world	
										system, the assessment seems to be moving in a direction that will	
								1		downplay the problematic values specific to the current financial and	
								1		economic system. Ch2 (p. 33, line 891) talks, for instance, of taking	
										"economics beyond self-interested instrumental rationality", conflating	
								1		the two notions and lumping self-interest seeking, the heart of capitalist	
										corporate rationality, into the same "instrumental" category as the share	
										system in coastal fisheries or the petty commodity production systems of	
										millions of small-scale farmers around the world. This will risk tainting all	
										"material/instrumental" alternatives to the system with the flaws of that	
										•	
										system, when hard material alternatives are indispensable to addressing the system-wide problem of declining NCP, not just work on the values of	Monata the reviewers concerns. We have reported section E.2. which
										managers and decision-makers. This is a serious discussion that must take	
										9	· ·
2650	CHIMÈRE DIAW	NA	MEP/Bureau	No	Ch. 5	46	1128	51	122	place now, in order to seek the necessary complements and compromises that will help readjust the fundamental orientations of the SOD.	different archetypes.
2030	CHIMERE DIAW	INA	IVIEF/Buleau	INO	CII. 3	40	1120	31	123		different archetypes.
2710	Edward Cross	Canada	University of Dublish Columbia	Na	Ch F	1.4	202			Here is a list of attributes of the Pathways 'thing', which seems important	In sufficient detail in the commont to form ulate a very success.
2710	Edward Gregr	Canada	University of British Columbia	No	Ch. 5	14	393			to the decision making typology.	Insufficient detail in the comment to formulate a response.
										to the decision making typology. Here are some attributes of sustainability, which seems important to the	
	Edward Gregr Edward Gregr	Canada Canada	University of British Columbia University of British Columbia		Ch. 5	14 21	393 607			to the decision making typology. Here are some attributes of sustainability, which seems important to the decision making typology.	Insufficient detail in the comment to formulate a response.
2711	Edward Gregr	Canada	University of British Columbia	No	Ch. 5	21	607			to the decision making typology. Here are some attributes of sustainability, which seems important to the decision making typology. And here of justice. All three of these things (Pathways, Sustainability,	Insufficient detail in the comment to formulate a response. The comment has been forwarded to the authors working on the
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27112 2712 2713 2718 2788 2789	Edward Gregr Edward Gregr Edward Gregr Habiba Al Marashi Habiba Al Marashi Habiba Al Marashi	Canada Canada Canada United Arab Emirates United Arab Emirates United Arab Emirates United Arab United Arab United Arab United Arab	University of British Columbia University of British Columbia University of British Columbia Emirates Environmental Group Emirates Environmental Group Emirates Environmental Group	No No No No	Ch. 5 Ch. 5 Ch. 5 Ch. 5 Ch. 5	21 23 25 9 14	607 665 753 252 399	9 14	399	to the decision making typology. Here are some attributes of sustainability, which seems important to the decision making typology. And here of justice. All three of these things (Pathways, Sustainability, and Justice) are key parts of the decision-making typology. I would like to see this section summarized by the values reflected in each of the declarations (thereby yielding the types of 'Codified Values' - a thing necessary for the typology, especially given the complexity of the context as described in Chapter 2). The three analytical levels of the Multi-Level Perspective must be clearly mentioned here: niches, socio-technical regimes and a socio-technical landscape. However, here are also a number of criticisms connected to this approach. These include bias towards bottom-up change models, lack of agency etc. Would it be helpful to include these for the sake of transparency? It is important to include what kind of management/governance style is being adopted for that particular pathway. It is interesting to note this point: Different values of different people collide. In situtations such as this, how do we weigh out which value is more important while conducting the decision-making process? This following line is a bit confusing and seems in contradiction with Chapter 1. "[The majority of] futures do not explicitly address nature, NCPs and good quality of life in parallel, but rather addresses them separately or in combinations, such as nature and NCPs without a direct	Insufficient detail in the comment to formulate a response. The comment has been forwarded to the authors working on the decision-making typology We hanve not yet decided is this section relates strongly enough to the key questions to retain it. We have not made the suggested chages but will revisit the comment in the TOD. This is not the place to go into details about the strengths and deficiencies of these different approaches- though all have their critiques. BUT we agree that we need to be clear where elements are problematic and that we have good reason for not reproducing some aspects within our own framing. The text has been adjusted in line with this. We have fully updated section 5.3.4 cases as well as 5.3.5 on governance modes. We still need to do some harmonising to ensure the cases are aligned in terms of governacne concepts/language We have clarified the text throughout, in highlighting it is not our role here to provide guidance on which values are more important but to recognise where and how more values can be incorported into the future.
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2711 2712 2713 2788 2789 2790 2791 2792	Edward Gregr Edward Gregr Edward Gregr Edward Gregr Habiba Al Marashi Habiba Al Marashi Habiba Al Marashi Habiba Al Marashi	Canada Canada Canada Canada United Arab Emirates United Arab Emirates United Arab Emirates United Arab Emirates United Arab Emirates United Arab Emirates United Arab Emirates United Arab Emirates United Arab	University of British Columbia University of British Columbia University of British Columbia University of British Columbia Emirates Environmental Group Emirates Environmental Group Emirates Environmental Group Emirates Environmental Group Emirates Environmental Group	No No No No No No No	Ch. 5 Ch. 5 Ch. 5 Ch. 5 Ch. 5 Ch. 5	21 23 25 9 14 19	607 665 753 252 399 580 998	9 14 19 43 49	399 580 1000 1120	to the decision making typology. Here are some attributes of sustainability, which seems important to the decision making typology. And here of justice. All three of these things (Pathways, Sustainability, and Justice) are key parts of the decision-making typology. I would like to see this section summarized by the values reflected in each of the declarations (thereby yielding the types of 'Codified Values' - a thing necessary for the typology, especially given the complexity of the context as described in Chapter 2). The three analytical levels of the Multi-Level Perspective must be clearly mentioned here: niches, socio-technical regimes and a socio-technical landscape. However, here are also a number of criticisms connected to this approach. These include bias towards bottom-up change models, lack of agency etc. Would it be helpful to include these for the sake of transparency? It is important to include what kind of management/governance style is being adopted for that particular pathway. It is interesting to note this point: Different values of different people collide. In situations such as this, how do we weigh out which value is more important while conducting the decision-making process? This following line is a bit confusing and seems in contradiction with Chapter 1. "[The majority of] futures do not explicitly address nature, NCPs and good quality of life in parallel, but rather addresses them separately or in combinations, such as nature and NCPs without a direct link to good quality of life." Please revisit. This table requires a legend for better clarity. Currenly, there are just a number of colours, which are a bit confusing. Please revise.	Insufficient detail in the comment to formulate a response. The comment has been forwarded to the authors working on the decision-making typology We hanve not yet decided is this section relates strongly enough to the key questions to retain it. We have not made the suggested chages but will revisit the comment in the TOD. This is not the place to go into details about the strengths and deficiencies of these different approaches- though all have their critiques. BUT we agree that we need to be clear where elements are problematic and that we have good reason for not reproducing some aspects within our own framing. The text has been adjusted in line with this. We have fully updated section 5.3.4 cases as well as 5.3.5 on governance modes. We still need to do some harmonising to ensure the cases are aligned in terms of governacne concepts/language We have clarified the text throughout, in highlighting it is not our role here to provide guidance on which values are more important but to recognise where and how more values can be incorported into the future. The text has been adjusted for clarity. See the revies executive summary, and section 5.2. This figure has been replaced. See section 5.2 archetypal futures.
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2	Matilda Baraibar; Miguel Carriquiry; Lydia Garrido; Né Mazzeo; Ana Laura Mello; Lau Piedrabuena; Manfred Steffer 321 Micaela Trimble; Cristina Zur	ıra n;	South American Institute for Resilience and Sustainability Studies	No	Ch. 5		 	The chapter focuses on the issues of change, transformations and use of the future. It explicitly contemplates the construction of scenarios, prospective or forward-looking and futures visions. Within this context, he chapter makes a very good and abundant reference of literature on ransformational change. However, as far as it goes, it is basically descriptive and referential (bibliographic), either on general frameworks or on the specific approach on visions and work on futures (lines 862 and collowing), or with regard to the relationship between values and transformation (lines 1364 and following).	We have reworked sections 5.1, 5.2, 5.3 in going beyond the bibliographic, and the text now reflects a greater degree of interegation of the literature.
2	Matilda Baraibar; Miguel Carriquiry; Lydia Garrido; Né Mazzeo; Ana Laura Mello; Lau Piedrabuena; Manfred Steffer Micaela Trimble; Cristina Zur	ıra n;	South American Institute for Resilience and Sustainability Studies	No	Ch. 5		 	The text contemplates an interesting statement of certain questions lines 1014-1024, 1038-1040, 1157-1161). However, the entire section hat includes them (5.3.1.4, Analytical Approach, lines 951 and ollowing) is only a description that seeks to sort and classify, but cannot account for what it finds in its survey. It does not propose a theoretical conceptual framework that makes it possible to make sense of the elationship of values, imaginary futures and change.	We have now clarified that we have used an archetypal framework to explore the links between different imaginary futures and values.
2	Matilda Baraibar; Miguel Carriquiry; Lydia Garrido; Né Mazzeo; Ana Laura Mello; Lau Piedrabuena; Manfred Steffer 323 Micaela Trimble; Cristina Zur	ıra n;	South American Institute for Resilience and Sustainability Studies	No	Ch. 5		1	In the analysis of the relationships among values, individual behavior and tocial change (lines 1317 and following), a focus is clearly privileged from the behavioral framework (Behavioral Theory), stimulus-response type mechanicist. This election implies in our understanding an instrumental choice, very biased, linear and reactive, which, although it can be applied for certain specific changes that you want to achieve (direct), it does not give an account of the underlying theme or the purpose that other chapters seem have (especially in chapter 1 and 2). This reflection refers o a holistic, inclusive, profound approach to values. This path does not seem functional if it seeks to strengthen the capacities of freedom (Theory of Capabilities, Amartya Sen) and reflective processes of transformation.	It is not clear what action the reviewer would like take nor where in the chapter. No action take.
2	Matilda Baraibar; Miguel Carriquiry; Lydia Garrido; Né Mazzeo; Ana Laura Mello; Lau Piedrabuena; Manfred Steffer 324 Micaela Trimble; Cristina Zur	ıra n;	South American Institute for Resilience and Sustainability Studies	No	Ch. 5			By way of extension and exemplification. The values, as indicated in lines 18 and following, are part of both results and processes of the dynamics of change. And as it is pointed out on lines 26 and following, they are part of the cultural, socially constructed, which shapes our practices and orrospects of alternative visions / paths (50 and following). The paragraph hat begins in 56 and following, recognizes the central role that values have in institutional change and transformation. As well as the need to better understand their relationship with visions of the future (lines 68 and following) "How visions of futures integrate and / or balance multiple values of nature and Nature's Contributions to People (NCP) need to be better understood " At this point, the reader encounters an ssue of the problem that goes to the very center of the problem. Recognize that in order to achieve a more desirable, fairer and more sustainable future (84-85), recognition, revision and change of certain values that model unfair and unsustainable practices (foundation and outprose of this Value Assessment work) are required, and we need to know it better.	Section 5.2, engages with values related to sustaniable and just futures at the archetype level. Values that underpin these futures are now made clearer.
	Matilda Baraibar; Miguel Carriquiry; Lydia Garrido; Né Mazzeo; Ana Laura Mello; Lau Piedrabuena; Manfred Steffer 825 Micaela Trimble; Cristina Zur	stor rra 1;	South American Institute for Resilience and Sustainability Studies	No	Ch. 5			several suggestions. The text should take into account that the values are bart of the 'habitus', structuring structures (Bourdieu) of recursive haracter, and that they are anchored at deep levels that are very difficult o grasp. Taking the words of Bourdieu (2007: 99), the habitus tends to eproduce the objective structures determined by the past production conditions of its production principle. This means that, if we do not generate a distancing, an epistemological break with the way we have been producing and reproducing the configurations of reality, if we do not re-frame (exploration and experimentation) within an expanded ense that includes the new, the different, the not-known, to generate new' meaning, we repeat the known, more of the same. This requires effective processes, with methodologies capable of facilitating them, and with theoretical-conceptual bases to do so.	We have tried to incorporate reflexive thinking more generally throughout the chapter. TSU - please refer this comment to Ch2, Ch3 and Ch6

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	C N F	Matilda Baraibar; Miguel Zarriquiry; Lydia Garrido; Néstor Mazzeo; Ana Laura Mello; Laura Piedrabuena; Manfred Steffen;		South American Institute for Resilience and Sustainability				It is necessary to understand how the systems and anticipatory processes work in humans (Rosen, 1985, Anticipatory Systems: Philosophical, Mathematical, and Methodological Foundations; Miller et al, 2018, Transforming the Future. Anticipation in the 21st Century), 'open' and 'enter' into the processes of 'configuration' of reality (cognitive theories and epistemological approaches), using appropriate pedagogical approaches (linked to social learning theories with a focus on practice and creative stimulation), all this with systemic frameworks of complexity. That is to say, a coherent integration is needed from diverse knowledge slopes, a solid theoretical and methodological corpus, inter and transdisciplinary. Without accessing the core of the problem, it is staying on the surface, statements of intent, expression of desires, and	Line numbers were not provided and it is not possible understand were
2	826 N	Micaela Trimble; Cristina Zurbiggen	Uruguay	Studies	No	Ch. 5		turns on the same.	in the chapter the reviewer is refering this comment to.
	C N F	Matilda Baraibar; Miguel Carriquiry; Lydia Garrido; Néstor Mazzeo; Ana Laura Mello; Laura Piedrabuena; Manfred Steffen;		South American Institute for Resilience and Sustainability		Ch. S		One way to begin in the work in processes of change and social (and individual) transformation, from the level of values and beliefs, is to address the performative and generative process that occurs in the decision-making process, linked to the anticipatory components involved (systems, processes and anticipatory assumptions). Within this framework, one can find how values and beliefs intervene and operate in the configuration of 'reality' (anticipatory assumptions) within cognitive decision-making processes. This framework is interesting because it promotes a space of conjunction of reflection and passage to action, and because it has operational "translations" at the concrete level, for example, which is reflected as alternatives that we see in the present. It is sought through experimental and reflective processes, review how the options menus are generated, what alternatives appear, expand the options, see different to make different. There is a direct relationship of	Thank you for this comment, we heavily restructured this section in the
2	827 N	Micaela Trimble; Cristina Zurbiggen	Uruguay	Studies	No	Ch. 5		behavioral change, but through learning and reflective decision.	SOD and hope to make these connections even clearer.
2:	C N F	Matilda Baraibar; Miguel Carriquiry; Lydia Garrido; Néstor Mazzeo; Ana Laura Mello; Laura Piedrabuena; Manfred Steffen; Micaela Trimble; Cristina Zurbiggen I	Uruguay	South American Institute for Resilience and Sustainability Studies	No	Ch. 5		The 'use of the future' becomes a foothold to transform the present by expanding the space of possibilities, and therefore, recursively, changing the future from the anticipation to the present. That is, we are 'turning' the circle of projections and repetitions of one more of the same to the possibility of entering discontinuities that allow change and transformation, now entering new values for more just and sustainable futures.	We have integrated this concept of creating alternative future naratives for the future more clearly into section 5.1 were we justify the need to examine the future.
2:	C N F	Matilda Baraibar; Miguel Carriquiry; Lydia Garrido; Néstor Mazzeo; Ana Laura Mello; Laura Piedrabuena; Manfred Steffen; Micaela Trimble; Cristina Zurbiggen I		South American Institute for Resilience and Sustainability Studies	No	Ch. 5		UNESCO through its global / local Anticipation and Futures Literacy Project (Riel Miller, UNESCO https://en.unesco.org/themes/futures-literacy) and the Chairs as nodes for the articulation of theorymethodology and practice carried Forward by an international team of researchers about the territory, have been making significant advances, both at the research level and in applied practices to strengthen anticipatory and transformational skills and competencies. These contributions are linked to the theoretical framework, as an inter and transdisciplinary space, or with regard to methodological approaches (with robust methodology proven in hundreds of cases applied) for cocreation and transformation processes based on collective intelligence (Future Laboratories).	This is included within the enablers of transformative governance.
	N C N	Matilda Baraibar; Miguel Carriquiry; Lydia Garrido; Néstor Mazzeo; Ana Laura Mello; Laura Piedrabuena; Manfred Steffen; Micaela Trimble; Cristina Zurbiggen		South American Institute for Resilience and Sustainability Studies	No	Ch. 5		From the operational point of view, Futures Literacy (as a theoretical framework and as a methodology) allows to address values, working collectively from deep levels (generally not consciously or directly visible) to identify and relate values in beliefs, worldviews, myths and metaphors, both in the configuration of reality as in the futures they imagine and in the associated practices. The approach allows experimenting in the transformation, recognizing and expanding alternatives in the present that open up other possibilities for futures. Not only is it a co-creation methodology, a research approach and input generation for decision-making, but a powerful heuristic for social transformation processes, which contributes significantly to expanding the capacities of freedom in the Senian sense by strengthening the anticipatory capabilities	We have integrated these comments on futures Literacy into section 5.1 were we interegate the importance of examining futures works.

2831	Matilda Baraibar; Miguel Carriquiry; Lydia Garrido; Néstor Mazzeo; Ana Laura Mello; Laura Piedrabuena; Manfred Steffen; I Micaela Trimble; Cristina Zurbiggen	South American Institute for Resilience and Sustainability Studies	No	Ch. 5			This chapter and the next talk about adaptation and answers. The adaptation has a reactive and an anticipatory component, but the approach is from a reactive paradigm. Here is an interesting opportunity to complement and strengthen the whole issue of change and transformation supported by a paradigmatic change, which does not deny the reactive aspect of adaptation, but resignifies and opens up more effective transformative possibilities, strengthening systemic and individual anticipatory capacities.	We recognize the value of transformative chnage, and discern governanace elements than can be enablers to such a change.
2832	Matilda Baraibar; Miguel Carriquiry; Lydia Garrido; Néstor Mazzeo; Ana Laura Mello; Laura Piedrabuena; Manfred Steffen; 2 Micaela Trimble; Cristina Zurbiggen	South American Institute for Resilience and Sustainability Studies	No	Ch. 5			There is talk of "fair and sustainable futures" in this chapter. The concept of responsible anticipation (Fuller and Saarikoski, 2017, Responsible Anticipation in Complex Worlds) is proposed.	We stick to Just and Sustainable Futures in line with discussions in the whole assessment.