ipbes

Assessment Report on the Diverse Values and Valuation of Nature

www.ipbes.net

The Intergovernmental Science-Policy Platform on Biodiversity & Ecosystem Services

#ValuesAssessment

environment programme







Decisions based on narrow set of market values of nature underpin the current global biodiversity crisis.

Many opportunities exist to embed the diverse values of nature into decision making for navigating towards more just and sustainable futures.



The relevance of this report



Economic and political decisions have predominantly prioritised market-based instrumental values of nature.

Many of nature's values are often ignored in favor of short-term profits and economic growth.

Conservation policies also risk downplaying the values of local communities that depend on nature for their livelihoods.



Ignoring, excluding or marginalizing local values often leads to socio-environmental conflicts linked to value clashes, especially in the context of power asymmetries, which undermines the effectiveness of environmental policies.



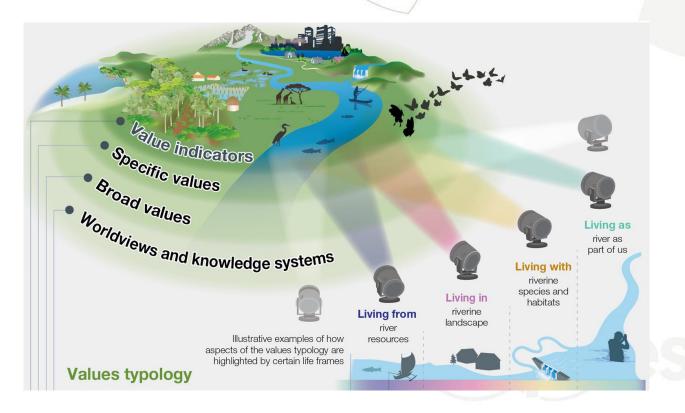
Achieving sustainable and just futures requires the recognition and integration of diverse values of nature into political and economic decisions.

Recognising the values of local people affected by decisions results in better outcomes for people and nature.



People value nature in different ways depending on their knowledge systems, languages, cultural traditions and environmental contexts.

A novel typology of nature's values can help guide decisions.

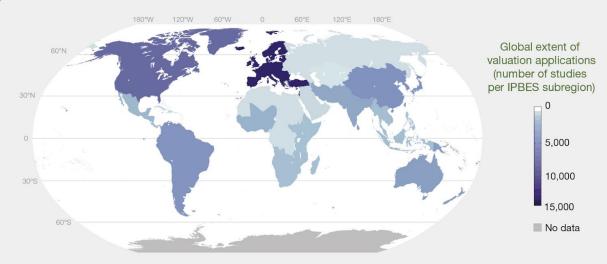


There is no shortage of methods and approaches to value nature, yet their uptake into decisions remains limited.

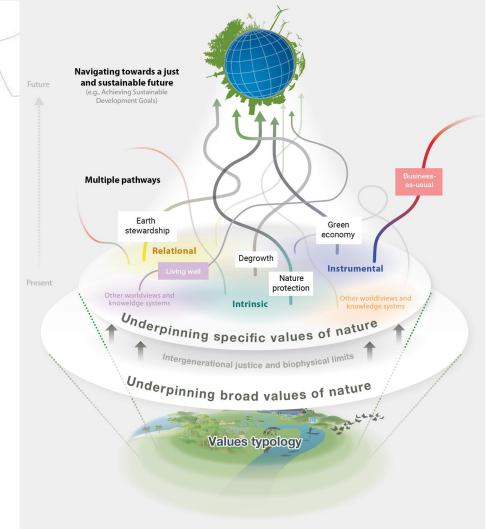
Less than 5% of published valuation studies report uptake in policy decisions.



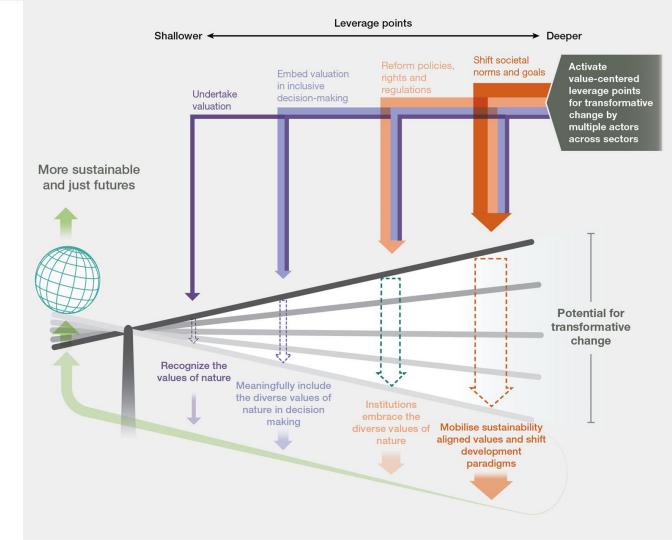
Global distribution of valuation studies



Transformative change needed to address the global biodiversity crisis relies on shifting away from values that over-emphasize short term and individual material gains to nurturing sustainability-aligned values across society.



Four key *leverage points* can help catalyze transformation towards sustainable and just futures.



Capacity building and collaborations among a wide range of stakeholders can facilitate transformative change to address the current biodiversity crisis.





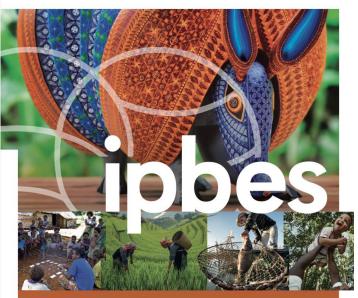


Expected impacts



The findings of the values assessment are expected to contribute to ongoing and future IPBES assessments:

- Biodiversity-Food-Water-Health Nexus,
- Transformative Change, and
- Biodiversity and Business.



The assessment report on THE DIVERSE VALUES AND VALUATION OF NATURE

SUMMARY FOR POLICYMAKERS



The findings of the values assessment are expected to contribute to achieving the shared visions for prosperity for people and nature such as:

- the 2050 Vision for Biodiversity,
- the 2030 Agenda for Sustainable Development, and
- the future post-2020 global biodiversity framework.



The findings of the Values **Assessments are expected** to empower the voices of emerging social actors such as women, youth, and **Indigenous Peoples and Local Communities to** promote their role in transformative change.





The team behind the assessment



The process

- 3 Authors meetings (Mexico City, Vitoria-Gasteiz, online),
- 2 External reviews, and
- 1 Additional review by governments.
- In the context of COVID-19 pandemic.

Engagement with Indigenous and Local Knowledge (ILK)

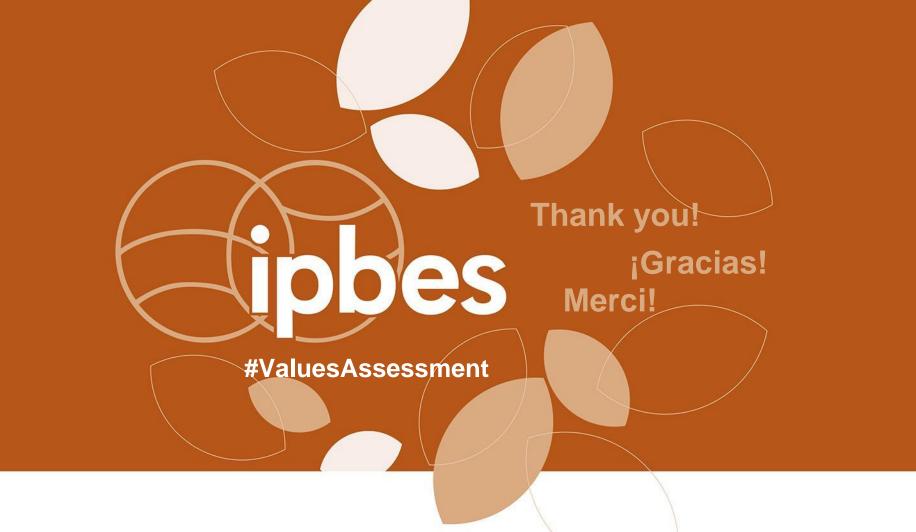
- Liaison group,
- · Identification of key guiding messages,
- call for contributions,
- · ILK experts and holders as contributing authors, and
- 3 ILK dialogue workshops (Paris, Mexico, online).

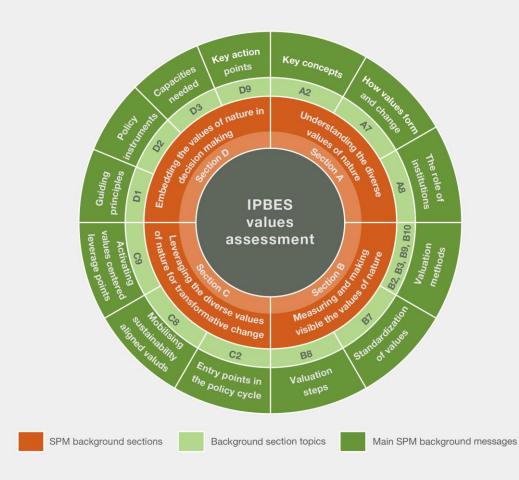
The evidence behind

- + 13,000 documents reviewed in depth and,
- + 200,000 pieces of evidence considered.

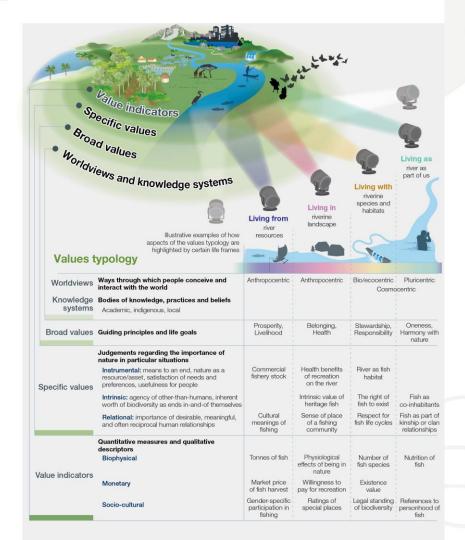
- Result from 19 years of in-kind voluntary contributions by more than 300 people:
 - 95 Experts nominated by IPBES (18 ILK experts/holders) from 47 countries,
 - + more than 200 contributing authors (25 ILK experts/holders).
- Diverse disciplines represented.
- Supported by a Management Committee.
- Technical Support Unit based in Mexico (Ecosystems and Sustainability Research Institute of the National Autonomous University of Mexico).

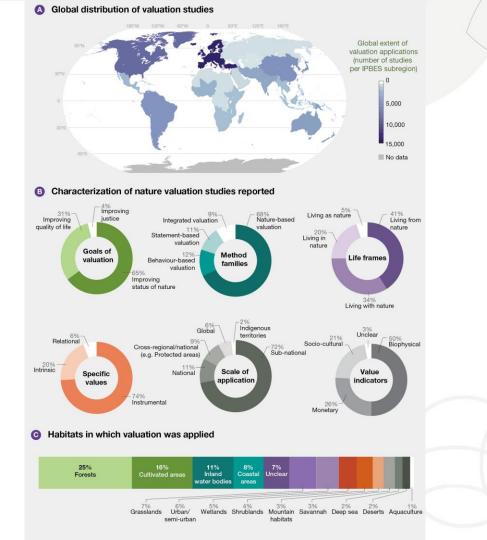


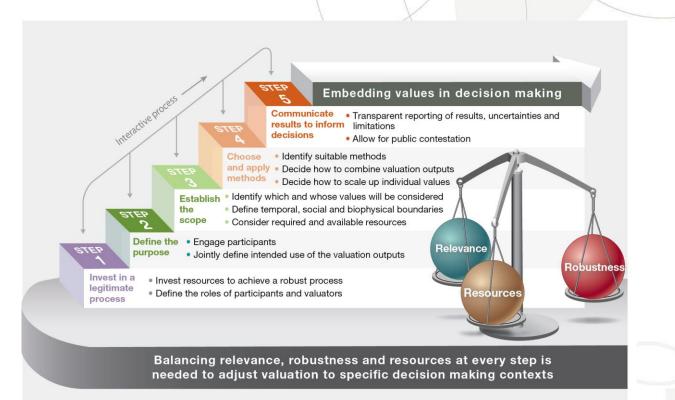


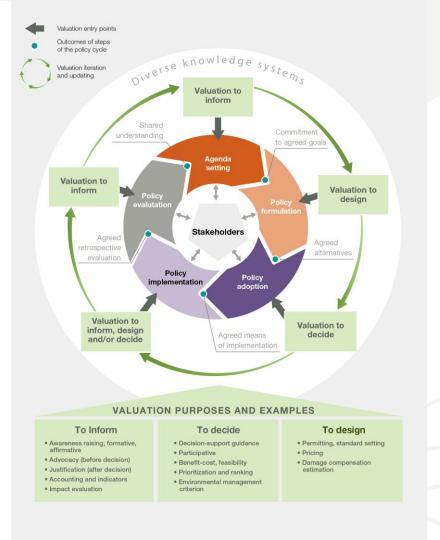


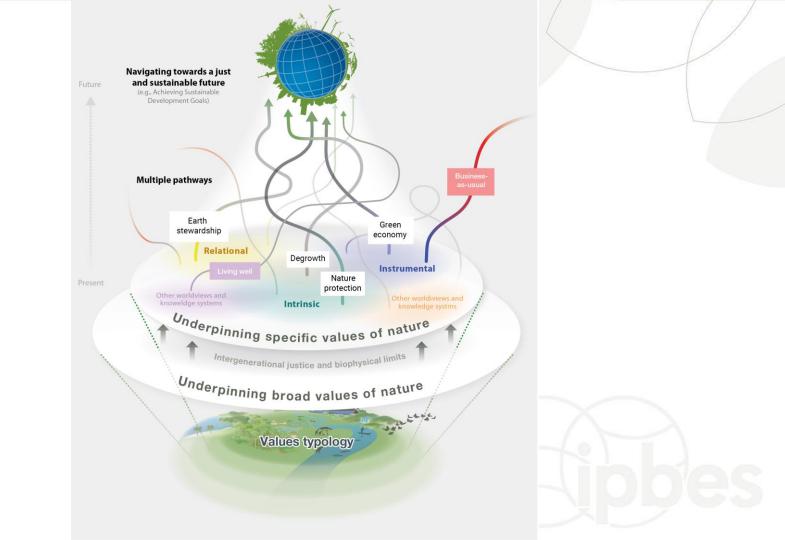


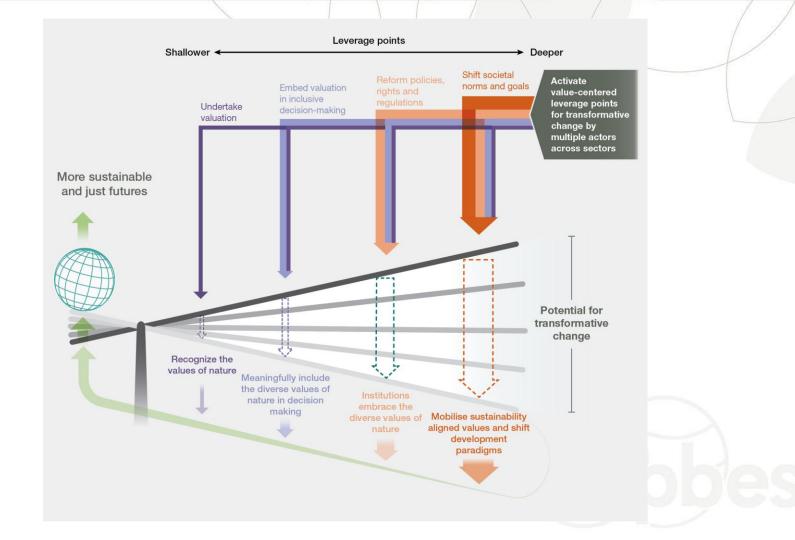










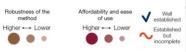


Nature-based valuation valuation valuation valuation valuation valuation valuation		Valuation me	thod families		Considerations
		Statement-based	Behaviour-based	Integrated valuation	for valuation by IPLCs

What is assessed? What is the source of information	Nature, physical or ecological components of nature and nature's contributions to people	What people say or express when asked about the importance of nature and nature's contributions to people	What people do in nature, for nature, with nature, to nature or nature's contributions to people	Different outputs from one or more methods to support decision- making	Indigenous peoples and local communities gauge nature and its interdependencies with people by also gathering information
Examples of methods and approaches	Biodiversity inventory, ecosystem services mapping, Delphi method, participatory mapping of ecological values	Group discussions, Q-methodology, contingent valuation, choice experiments, deliberative methods	Participant observation, travel cost method, cost-based methods, hedonic pricing,livelihood dependence, photo- series analysis	Ecosystem service valuation, cost-benefit analysis, multi-criteria decision analysis, integrated modelling, scenario building, deliberative decision methods	from ancestors, future generations, non-human beings, the cosmos and the spiritual world. Information gathering through territory
How is information about values generated?	Directly measuring nature, remote sensing, consulting experts Consulting users/ experts/local communities as knowledge holders	Asking questions to people (interviews, surveys), undertaking activities with people (e.g., discussions, games, art), analyzing narratives (e.g., twitter posts)	Observing people, assessing records of people's behaviors (e.g., park visits, house purchases), assessing records of policy choices, assessing (non-) market exchanges	Synthesising, comparing, contrasting, deliberating, consolidating or aggregating multiple values for decision making or decision support	patrois, natural resources monitoring or communal assemblies can entail rituals and ceremonies undertaken by specialized traditional experts.
'Specific values' elicited and	Mainly intrinsic and instrumental values	Instrumental, intrinsic and relational values	Mostly instrumental values	Instrumental, intrinsic and relational values	Valuation is often a collective process that considers all members
of value of value indicators	Species counts, carbon stored, ecological health indicators	Subjective well-being indicators, narratives of human-nature relationships, willingness to accept compensation for setting aside land, willingness to pay for access to nature	Time spent, share of household income, prevalence of disease, price on a hectare of land, use of indigenous plants	Strength of support or objections to policy options, welfare gains or losses from projects of indigenous plants	onsiders an members of a community (including children or those who are not visibly present), as legitimate generators of information. Understanding the richness and depth of
Type of stakeholder inclusion	Inclusive methods exist (e.g., community monitoring of biodiversity) but most methods do not include stakeholders	All methods include stakeholders to some extent (e.g., surveys) and inclusion is often integral to the methodology (e.g., deliberative valuation)	Most methods have limited or no stakeholder inclusion (e.g., analysis of market accounts), but encompass observations of diverse stakeholders	Some methods can be non-inclusive (e.g., desktop multi-criteria decision analysis) but often, inclusion is key to the decision support aspect (e.g., participatory scenario building)	indigenous peoples' and local communities valuation approaches implies deconstructing disciplinary definitions of methods and concepts such as 'evidence' and recognizing that
Examples of typical valuation 'products'	Biodiversity indices, maps of pri-ority areas for policy/ management action Improved understanding of the importance of components of nature	Ranked importance of nature's contributions to people Monetary value for protection of areas of biodiversity significance Explanations for why people value nature	Ranked importance of nature and nature's contributions to people Additional costs due to degradation (e.g., changes in time to collect fuelwood) Explanations for how people value nature	Ranked policy options Evaluation of socio- economic and environmental impacts of policy options Improved understanding of conflicts/shared values of nature	integration of knowledge systems is not always possible, desirable or necessary
Limitations	Impact on people assumed but not assessed Dependence of nature is not assessed by those directly living from, living as and living with nature	Potential large variability in the reliability of statements (6.e., do people respond truthfully?) Power disparity can reduce the validity of group-based (e.g., deliberative) methods Representativeness in selection of respondents biases results	Requires conceptual and empirical understanding of the relationships between behavior, nature and lits contribution to well-being Cannot reveal in- depth understanding of motivations behind behaviour	Aggregation of values across groups of people can reduce representation of values, combining multiple value types creates incommensurability concerns	







A Valuation methods

Examples of valuation me	thods	Ability t diverse multipl	vance o elicit of values in e socio- al contexts	Ability to (accurate fair repi	bustness ensure reliable and valid) and resentation of keholders	Resour Affordability a use	nd ease of	Level of confidence
		Diverse values	Diverse contexts	Reliability	Representation	Ease of implementation	Ease of operation	
Nature	Ecosystem services mapping	٠		٠	•	•		V
valuation	Biodiversity mapping	•	•	•		•	٠	V
Statement based	Stated preferences	•		•	•	٠	٠	V
valuation	Q method	٠	٠				٠	\sim
Behaviour	Revealed preference		•		۲	•		~
valuation	Livelihood assessment	۲	•	٠	•		•	V
Integrated	Integrated modelling	0	0	•	•	•	•	~
valuation	Participatory mapping						•	~
Decision	Cost-benefit analysis	•		•	•	•	•	V
making tools based on integration	Multi-criteria decision assessment		٠	•	•	•	٠	V
of values	Deliberative integration methods		•			•	•	\sim
Methods that do not elicit value information	Benefit transfer	•	•	•	•	•	٠	~
Examples from valuation by	Forest health monitoring (forest walks, territory patrols)	robustness)	to assess fore	st recovery usin	s to conduct validation og communally accept on and diverse values	ted indicators relevan		~
indigenous peoples and local communities	Community assemblies for deliberations	nature (i.e., deliberate c	representation	/robustness, re re forward (i.e.,	pers' opinions (includi elevance) and to jointly capacities to conduct ledge and lived exper	y interpret the opinio valuation). Commun	ons and ity members	V

3 Economic valuation approaches to embed the values of nature in policymaking

Economic approaches to embed values in economic decisions	Ability t diverse multipl	vance o elicit of values in e socio- al contexts	Ability to (accurate fair repr	ensure reliable and valid) and esentation of keholders	Resour Affordability ar use		Level of confidence
	Diverse values	Diverse contexts	Reliability	Representation	Ease of implementation	Ease of operation	
The Economics of Ecosystems and Biodiversity (TEEB)			•			•	v
United Nations System of Environmental Economic Accounting - Ecosystem Accounting (UNSEEA - EA)	•	•	•	٠	•	•	~
Inclusive/comprehensive wealth approaches		•		•	•		\sim

					1		/	
		Pot	ential for	transform	ative cha	nge		
	Illustrative policy instruments	Representing diverse values	Addressing direct and indirect drivers	Stimulating institutional change	Enhancing capacities	Being integrative and adaptive	Relevant decision- making scales	Key stakeholders to act
	Co-management regimes	٠	٠	٠		•		Resource users NGOs Governments
ative	Eliminating harmful subsidies	٠	٠		٠	٠	\bigcirc	Governments Intergovernmental organizations
More transformative	Payments for ecosystem services	•	٠	٠		٠	$ \blacksquare \bigcirc \blacksquare \bigcirc$	Governments NGOs Business actors
More tra	Other effective area-based conservation measures	٠	٠	٠	•	•	₹9	IPLCs Donors Governments Intergovernmental organizations
	Rights of nature		٠	٠		٠		Governments
ative	Certification schemes	٠		•	•	•	\bigcirc	Business actors Governments Intergovernmental organizations
Less transformative	Environmental accounting	•	٠	٠	•	•	٣	Intergovernmental organizations Governments Business actors
Less	Legally protected areas	•	٠	٠	•	•	24	Governments Intergovernmental organizations NGOs
ess- sual	Biodiversity offsets	•	•		•			Governments Business actors
Business- as-usual	Trade bans		٠	٠	•	•		Governments Intergovernmental organizations Business actors
r	More transformative \longleftrightarrow L	ess transf	formative		Internation	ial	National Q	Sub-national/Local

			λ	~		
			STAKEH	OLDERS		
	Inter- governmental organizations	National and subnational governments	Non- governmental organizations	Citizen groups /IPLCs	Private sector	Media
Capacities of decision-makers			(NGO)			
Motivational						
Analytical	•	•	•	•	•	•
Bridging	•			•	•	•
Negotiation	•		•	•		•
Social networking						
Governance	•			•		
		Capacity needs				
			More \leftrightarrow Les	SS		

Most pressing issues	Potential solutions
Conceptualisation of nature's diverse values	Document the diverse values of nature for different socio- demographic groups, social-ecological contexts, spatial and temporal scales, and knowledge systems
Choice of valuation methods to support decision- making	Design valuation processes to fit decisions that lead to specific outcomes
Understanding notions of 'value' and 'valuation' within indigenous peoples and local communities	Make visible the values of indigenous peoples and local communities in their own terms
Uptaking valuation results in decision-making	Document the uptake of valuation into decisions, the barriers and enablers of uptake, and the outcomes derived from uptake
Designing and operationalising policy tools that consider nature's diverse values.	Document best-practice policy tools and their transformative change potential
Considering values and valuation as leverage points for transformative change	Assess how institutions can better embrace nature's diverse values and how sustainability-aligned values can be further mobilized
Understanding the role of values in futures scenario planning and development	Document how nature's values play a role in future scenarios, and the role of sustainability-aligned values in shaping sustainability pathways
Considering justice perspectives in valuation	Analyse the role of power in value expression and how justice dimensions are influenced by valuation

	1			1 1	/		/
			STAR	KEHOLDER	S		
Mahara	Inter- governmental organizations	National and subnational governments	Non- governmental organizations	Academia	Citizen groups/ IPLCs	Private sector	Media
Values- centered action points							
Embed diverse values into decisions	Promote the incorporation of diverse values into national biodiversity strategies	Implement policies that articulate diverse values	Develop values-centred safeguards	Address knowledge gaps	Mobilise sustainability- aligned values	Implement standards for values-based corporate responsibility	Communicate on the diversity of values of nature
Foster policy coherence across sectors based on sustainability- aligned values	Align policy with value diversity	Establish coordina- tion mechanisms among sectors around shared values	Foster initiatives to make visible diverse values	Advance inter and trans- disciplinary research on values	Advocate for recognition and respect for diverse values	Engage in cross sectoral dialogue to build shared values	Highlight stories of successful values alignment
Ensure representation of stakeholders' values	Develop standards for inclusive participation in decisions	Encourage participatory policy design	Support valuation uptake in policy decisions	Assess representation in valuation and outcomes	Promote respect for marginalised worldviews and values	Adopt practices of inclusive participation	Promote public debates on the diverse values of nature
Enable capacities to embed diverse values into decisions	Address barriers (e.g. understanding of trade-offs) to develop capacities of stakeholders	Enable mechanisms for policy uptake of plural valuation	Support capacity development activities based on nature's values	Build research programmes to strengthen the transformative potential of values-centred leverage points	Network to foster peer to peer learning	Support capacity development on values- based corporate sustainability standards	Train communication experts (including local communicators) on the role of nature's values
Strengthen co- learning among stakeholders to develop shared values	Promote projects that entail cross sectoral planning by highlighting best practices	Encourage collaborative learning across scales and sectors	Document good co-learning practices across actor groups	Promote research on values incorporating different knowledge systems	Support awareness raising among peers	Promote co-learning with affected stakeholders	Communicate on how shared values are built
Enhance resource mobilisation for plural valuation and policy uptake	Foster international commitments to undertake plural valuation and uptake	Allocate resources for capacity building to support uptake of valuation	Ensure project funding is targeted to addressing key gaps	Chnnel resources for plural valuation research	Support crowdfunding to enable wider participation in decision making	Allow for plural valuation and its uptake	Highlight gaps in resource availability