

Des

SPM Section B

#ValuesAssessment

environment programme



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Food and Agriculture Organization of the United Nations

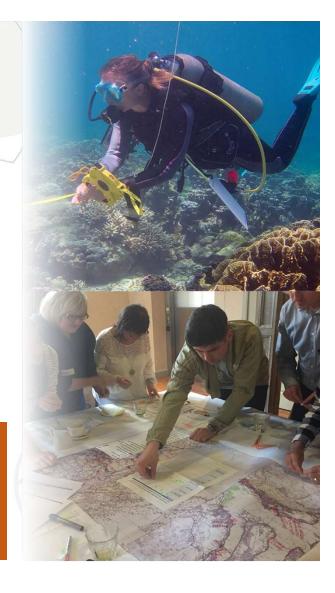


Values & Valuation

Using Danish illustrations

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A value, to value, valuation

What is valuation ?

Valuation of nature is an intentional activity undertaken to generate information about values of nature and of human-nature relations to make values visible for **decision making**.

Valuation has a purpose

Improve

1) Quality of life, 2) Status of nature 3) Justice



Why is valuation (and methods used) important ?

Questions emerge whenever people give a mandate to somebody to conduct a valuation.

Who is providing this mandate? What is its scope? Who is conducting the valuation? How will the valuation results be used? Which values are considered? Whose values are (not) taken into account?

Intertwined with these questions is the choice of appropriate methods

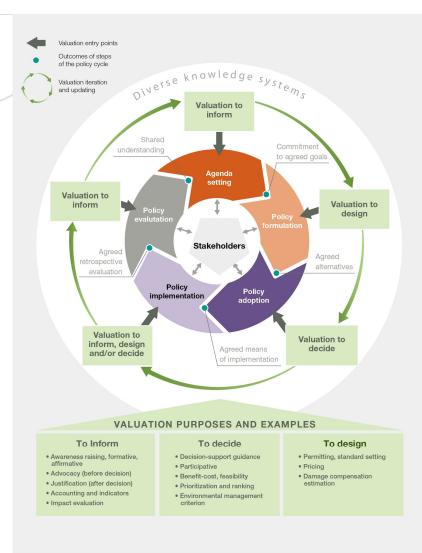


Embedding valuation in decisionmaking

Valuation at different stages of the

policy cycle

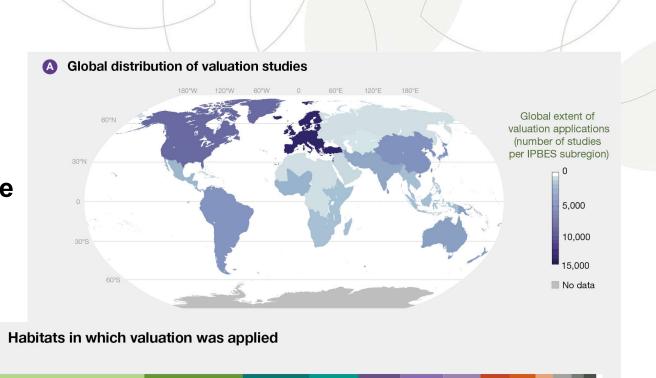
- To inform
- To decide
- To design

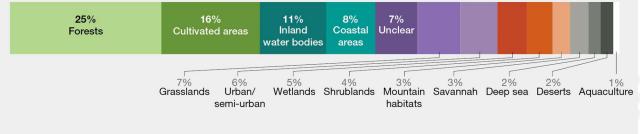


Valuation Atlas

Over 50 different methods to assess nature's values have been applied in diverse social-ecological contexts around the world

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Assessment of valuation methods

Typology

Needed a valuation typology encompassing how different disciplines and knowledge systems contribute to valuation

Assess

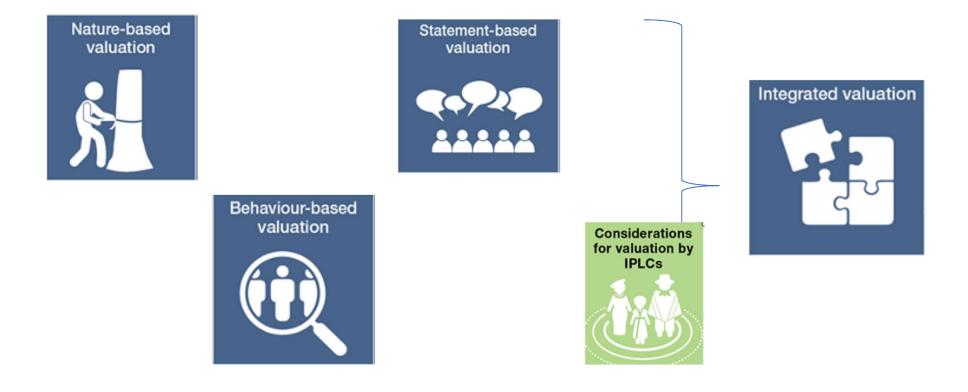
What information about nature's values can methods make visible

Pros & cons for different valuation goals

Pros & cons for different decision-making purposes

Valuation Methods Families

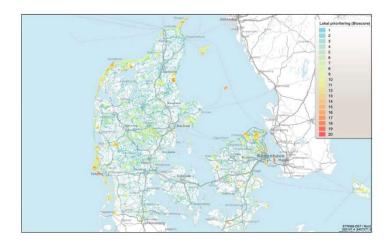
Where do values "come from" – where do the valuator look for information

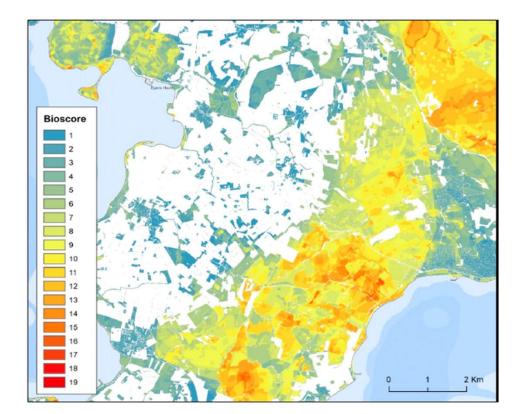




Biodiversity mapping

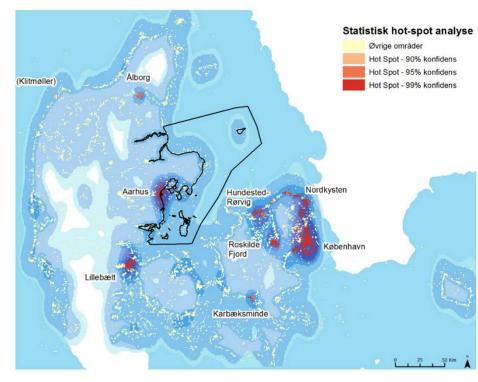
The Bioscore



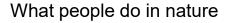


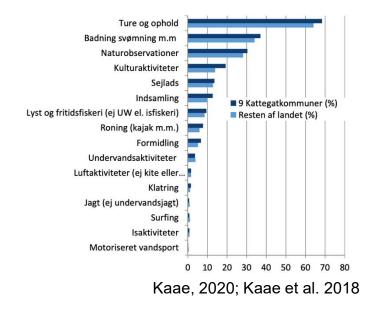


Recreation choice methods

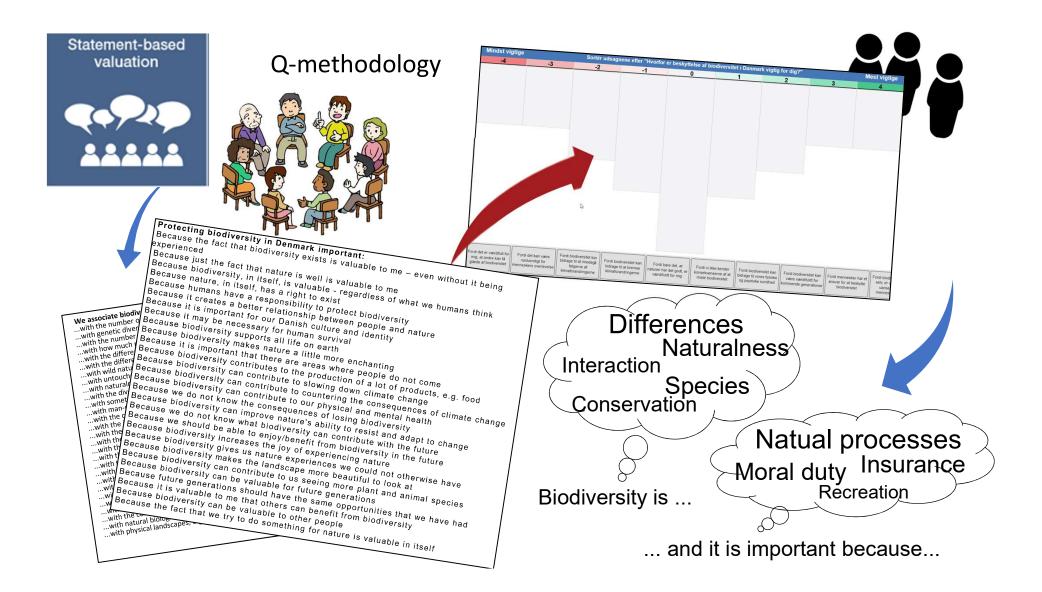


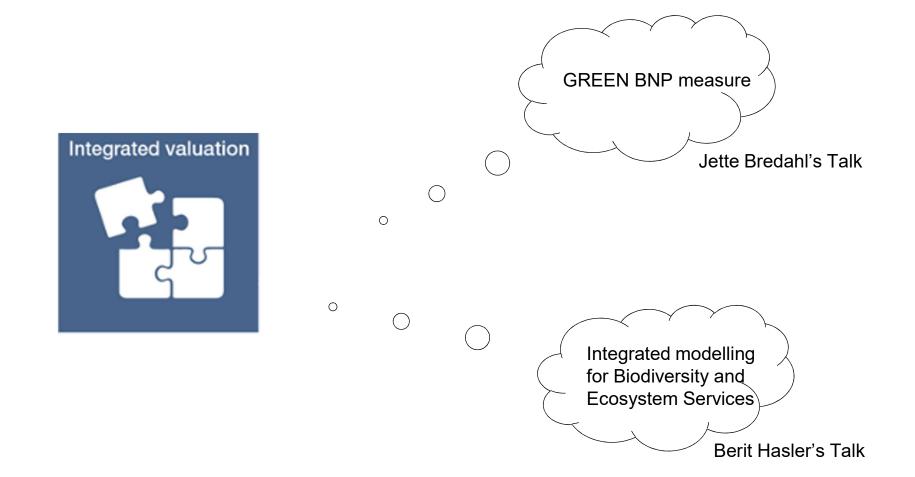
Where the activities take place





Olafsson at al. 2016.

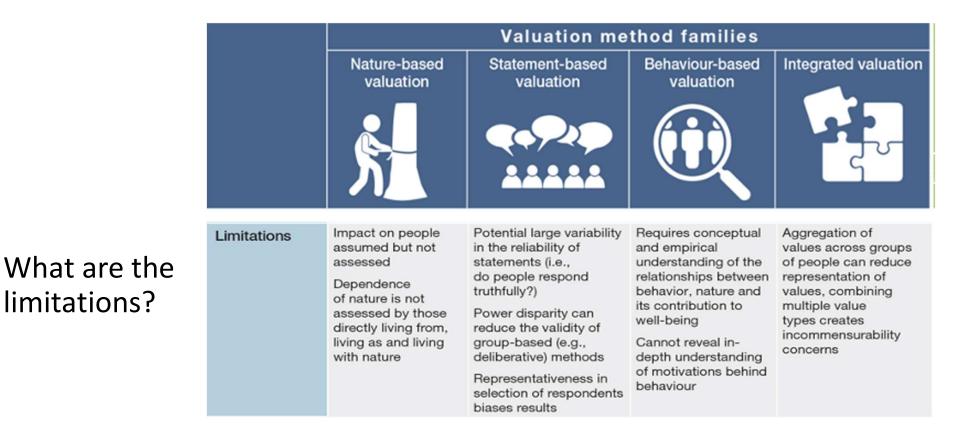




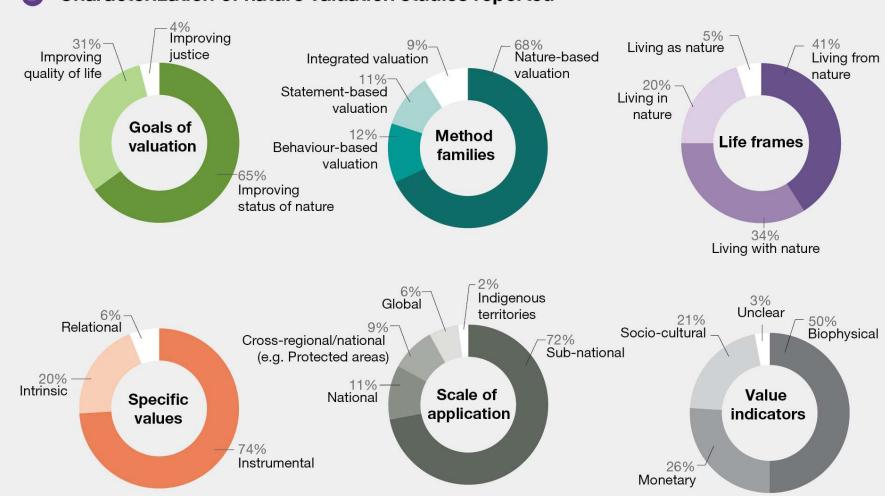
Analysed each of the method families

- What is assessed?
- Methods "belonging" to the family
- How is information about values generated
- What value types are elicited
- How are stakeholder included
- Valuation "products" for decision making
- Limitations

1			Considerations						
		Nature-based valuation	Statement-based valuation	Behaviour-based valuation	Integrated valuation	for valuation by IPLCs			
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	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 patrols return assemblies can entail rituals and ceremonies undertaken by specialized traditional experts. Valuation is often a collective process that considers all members of a community (including children or those who are not vertify present), as of information. Understanding the richness and depth of indigenous peoples' and local communities' valuation approaches implies deconstructing disciplinary definitions of methods and concepts such as "evidence" and recognizing that integration of knowledge systems is not always possible, desirable or necessary.			
	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, gamce, arl), analyzing narratives (e.g., twitter posts)	Observing people, assessing records of people's behaviors (e.g., park visits, house purchases), ascessing records of policy choices, assessing (non-) market exchanges	Synthesising, comparing, contrasting, deliberating, consolidating or aggregating multiple valuec for decision making or decision support				
	'Specific values' elicited and examples of value indicators	Mainly intrinsic and instrumental values Species counts, carbon stored, ecological health indicators	Instrumental, intrinsic and relational values Subjective well-being indicators, narratives of human-nature relationships, willingness to accept compensation for setting aside land, willingness to pay for access to nature	Mostly instrumental values Time spent, share of household income, prevalence of disease, price on a hectare of land, use of indigenous plants	Instrumental, intrinsic and relational values Strength of support or objections to policy options, welfare gains or losses from projects of indigenous plants				
	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)				
	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				
	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 (i.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 its 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				



Assessment Results



B Characterization of nature valuation studies reported

Trade-offs in methods choice Balancing relevance, robustness and resources

Choosing appropriate valuation methods involves identifying the comparative strengths and weaknesses, particularly by taking into account their **relevance**, **robustness** and **resource requirements**.



A Valuation methods										
Examples of valuation methods		Relevance Ability to elicit of diverse values in multiple socio- ecological contexts		Robustness Ability to ensure reliable (accurate and valid) and fair representation of stakeholders		Resources Affordability and ease of use		Level of confidence		
		Diverse values	Diverse contexts	Reliability	Representation	Ease of implementation	Ease of operation			
Nature based valuation	Ecosystem services mapping					•		\checkmark		
	Biodiversity mapping	•			٠	•		\checkmark		
Statement based valuation	Stated preferences							\checkmark		
	Q method			•	•	•		\sim		
Behaviour based valuation	Revealed preference	•			•	•		\checkmark		
	Livelihood assessment							\checkmark		
Integrated valuation	Integrated modelling	•	•		•	•		\sim		
	Participatory mapping			•				\checkmark		
Decision making tools based on integration of values	Cost-benefit analysis	•						\checkmark		
	Multi-criteria decision aid							\checkmark		
	Deliberative integration methods			•		•		\sim		
Methods that do not elicit value information	Benefit transfer	•	•	•	٠	٠		\sim		
valuation by indigenous peoples and local	Forest health monitoring (forest walks, territory patrols)	Capable individuals (i.e., human resources to conduct validation) are entrusted (i.e., assurance of robustness) to assess forest recovery using communally accepted indicators relevant for multiple uses by the community (i.e., representation and diverse values).					V			
	Community assemblies for deliberations	nature (i.e., deliberate d	representation	, n/robustness, re e forward (i.e., o	pers' opinions (includir devance} and to jointly capacities to conduct ledge and lived exper	v interpret the opinic valuation). Commun	ons and ity members	V		

Robustness of the

method

Higher ↔ Lower

Possibility to elicit values

in diverse contexts

Higher ↔ Lower

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Affordability and ease

of use

Higher ↔ Lower

Well

established

Established but

incomplete

V

