Session ID P4:

"Making Cultural ecosystem services count in policy and decision-making"

Ecosystem Services Approach & Cultural Valuation

- Potential Role in Land use planning?





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• Exemplar testing and investigation of tools and methods of Ecosystem services valuation and assessment

- OPERAs = examining how to Operationalise the concept in practice (feedback on design and use of tools)
- WP2.3 Socio-cultural value of ES: Dublin Exemplar (Fingal coast)

So what factor?

"It is essential to link the information produced by Ecosystem Services Valuation methods to the needs of policy makers"

(Bingham et al. 1995)

SOCIO-CULTURAL VALUATION OF ES – PRINCIPLES & DEFINITION

- Stakeholder involvement in understanding ES values and benefits ('Ecosystem Service Beneficiaries' (ESBs))
- Gathering Local Ecological Knowledge (LEK) local, experiential, technical and ecological knowledge
- SCV Definition: perspectives about the importance of nature - personally or shared values, 'relational values', material and non-material aspects.
- Historically poorly considered in ES valuation and sometimes even not considered at all! But <u>non-material</u> values can indicate particularly strong attachments to place and inform possible reasons for potential conflicts.





- Lack of full information (Information failure) about total benefits of nature to people and decision makers (beyond economic values)
- Need to understand what's going on "beneath the surface" of value attachments – links to tensions tied to strong attachments to place etc...
- Justify particular decision choices or advocate certain policies/plans
- More social legibility in decision making
- **Democracy** in decision making.
- SCV role in two way communication of the benefits of nature bottom up and to different audiences
- **Breaking down institutional 'siloism'** and demonstrating synergies in policies and objectives.

Biodiversity & Ecosystems – 'cascade' of services, benefits and values

(Cascade model after Haines-Young & Potschin 2010)





Valuation Process

- Objectives
 - Explore social and cultural values in the context
 - Devise a means to 'put a shape' on inclusion of values in planning processes structured, spatially legible, deliberative/'what lies beneath'.
 - Aims
 - To identify they type & location of values in the landscape
 - To identify **relative importance** and why
 - To facilitate **social learning** about importance of ES and its influence on land use preferences.
- Key elements
- Three participatory workshops (ESBs/public): value scoring (Likert) and participatory mapping of values against pre-listed typology
- Semi-structured interviews & Deliberative approach and comparison of alternative land use scenarios

Contribution?



- Uniqueness/contribution structured value representation & legibility
- Deepens knowledge about the importance of ecosystem services to people for decision making context ex-ante and ex-post
- 'Added value' of CES process ----> informing (not just complementing!) other ESA methods (economic and ecological) ++

- Spatial values (hotspots and bundles) ----> Values as 'desire lines' of ESBs



Valuation Practice



MAP CODE	Tangible	CULTURAL VALUES OF ES	MAP CODE	Less Tangible	CULTURAL VALUES OF ES
1.	Economic	I value the fact that the coastline attracts <u>visitors and tourism for</u> <u>business</u>	AE	Aesthetic	I value the coast for its <u>scenery, sights, smells and sounds</u>
2.		I value the <u>fishing</u> industry and Fingal's fishing heritage	ENV	Environment	I value knowing that the coast is <u>clean</u> and <u>that its ecology is</u> in a healthy state
3.		I value the <u>beaches</u> for trips by myself and/or with my family	F	Future	I value what the <u>coast has to offer to my grandchildren/future</u> generations - to be able to experience what I've experienced
4.		I value the coast for walking and similar activities	HEA	Health	I value the coast as a place where I or others can feel <u>healthy</u> , physically or psychologically.
5.	Recreation	I value the <u>coast for bird</u> watching or to watch wildlife	HEI	Heritage	I value the coast as a place which has <u>natural and human/way</u> <u>of life history</u> that matters to me
6.		I value the coast for <u>swimming, surfing or</u> <u>other activities</u> that involve contact with the sea	INT	Intrinsic	I value the coast just because <u>it exists, no matter what I or</u> others use it for
7.		I value the coast for <u>boating</u> or <u>sailing</u>	LR	Learning	I value the coast as it provides a <u>place to learn/teach</u>
8.		I value the coast, harbours and estuaries for angling/sea angling	INP	Inspirational	I value the coast because it provides <u>inspiration for art</u> , <u>photography</u> , writing and other cultural expression
9.	Wildlife	I value the <u>coastline and</u> <u>islands</u> for mammals (e.g. seals) and seabirds	SEC	Security	I value the dunes, mudflats and salt marshes for <u>the protection</u> they provide from storms and flooding
10.		I value the <u>estuaries</u> <u>habitats for birds (e.g.</u> <u>Malahide,</u> <u>Broadmeadow,</u> <u>Rogerstown)</u>	SOP	Sense of Place	I value the coast as it provides me with a <u>sense of place and of</u> identity for the community.
11.		I value the presence of coastal flora/vegetation	SOC	Social/Comm unity	I value the coast for <u>getting together: friends,</u> family/community
		iona vegetation	SPIR	Spiritual	I value the coast as a place that is sacred or <u>spiritually special</u>
			SLID	Subsistance	to me
			SOR	Wilderporc	I value the coast because it provides tood and other produce
			WILD	widerness	i value the coast just because <u>it is wilu</u>

CES valuation, ranking and participatory mapping of ES (incl. CES)

FINDINGS OUTPUT STAGE 1: SCV Maps



 Participants used the values typology to match codes values to particular locations



MAP VIA TINE 2016_02_24_ADJUSTED.pdf



Intangible Values (red) had a larger number of higher scored values than Tangible Values (green).







Figure 23: Less Tangible. Comparison between first and second Value Ranking – Group Values (Score 1), Personal Values scored during the interviews (Score 2)



- Consultation with 'Ecosystem Service Beneficiaries' (ESBs) – good response, non-adversarial process
- Social learning
- Feedback on management of coastline & use of Local Ecological Knowledge
- Potential of the coastline not realised and infrastructure needs

FINDINGS: STAGE 4: Application of SCV ranking method - Scenario Comparison Land Use Planning-Favoured scenario (B) - vs- DCDP scenario (D)



 Negative response to restrict access to protect natural heritage





Figure 27: Comparison between Tangible and Intangible Values under Scenarios



Lessons Learned?



- Feedback seminar with local authority executives positive response to "socio-ecological planning approach" but questions
- + Silo breakdown
- + Education/communication
- + Ex-ante information SEA, EIA, local plans/project
- Sampling?
- Transaction costs ?
- Internal capacity of executives?
- Obligatory passage point (Latour, 1997) EIA/SEA??
- Legal / policy drivers?

Implications? Role of Socio-Cultural Valuation



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Thank You!

Questions?