

Ecosystem Science for Policy & Practice



WP 4: Instruments

28-29th November, 2013 OPERAS Userboard 1, Brussels, Belgium

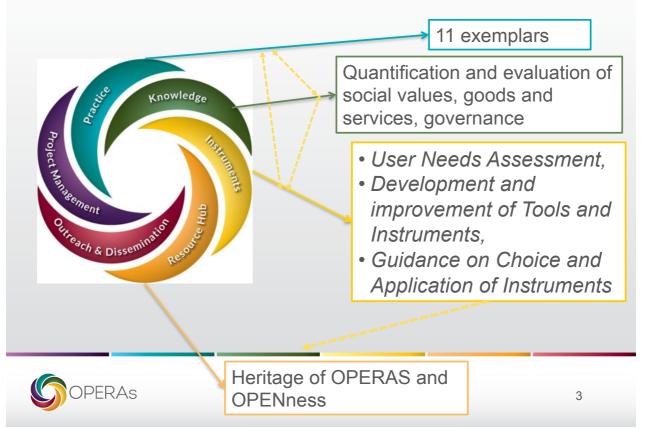




The WP aims to develop and improve tools and instruments that visualise and quantify how ecosystem services contribute to human well-being. The results are attractive and user-friendly information, decision support and implementation instruments, which support sustainable ecosystem management.



WP4 Instruments in OPERAs

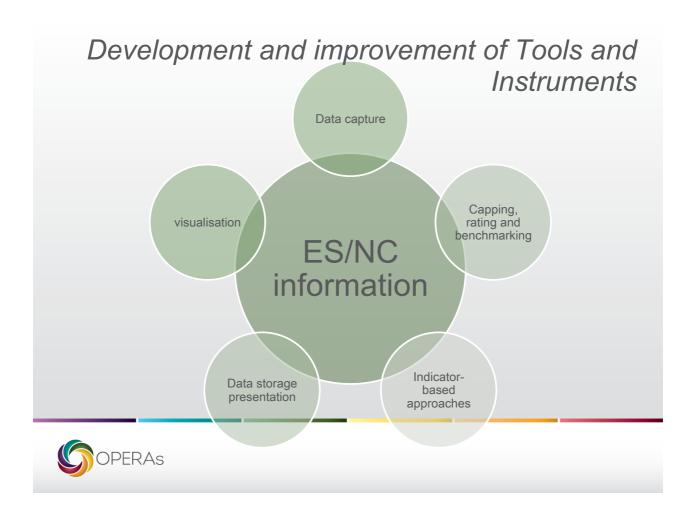


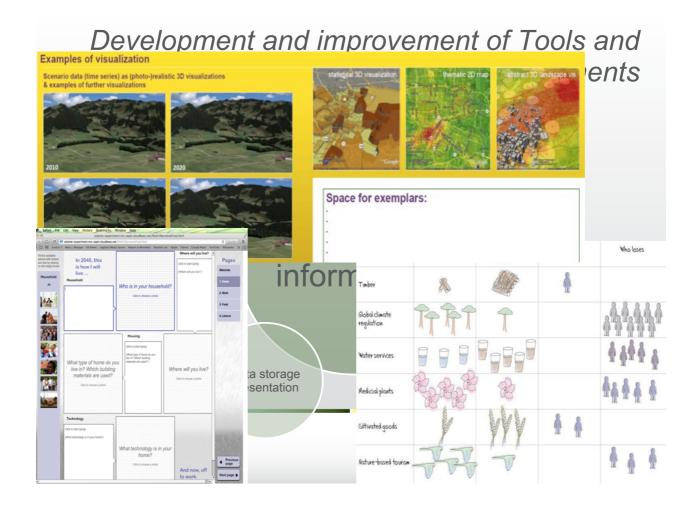
User Needs Assessment

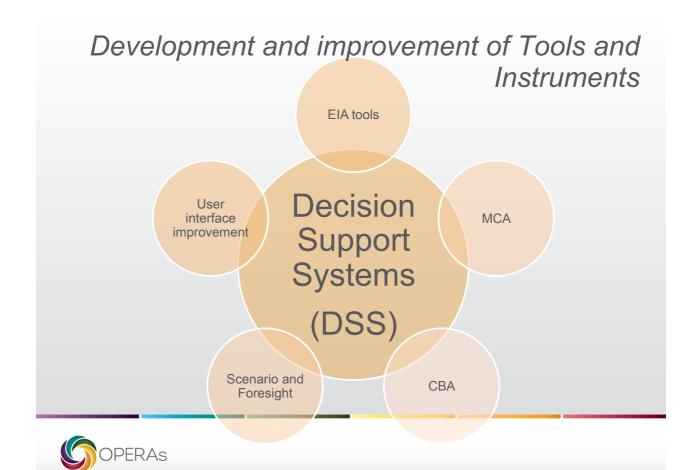
Demand for ES / NC instruments:

- Top down analysis: gaps and needs assessment for the integration of ES/NC concepts (Focus: policy)
- Bottom up analysis: demands and needs for ES/NC instruments by key stakeholders (Focus: stakeholders)
- Identifying and assessing emerging issues and the opportunities for ES/NC integration
- Analysis of needs for ES/NC in the context of specific policy tools and their implementation

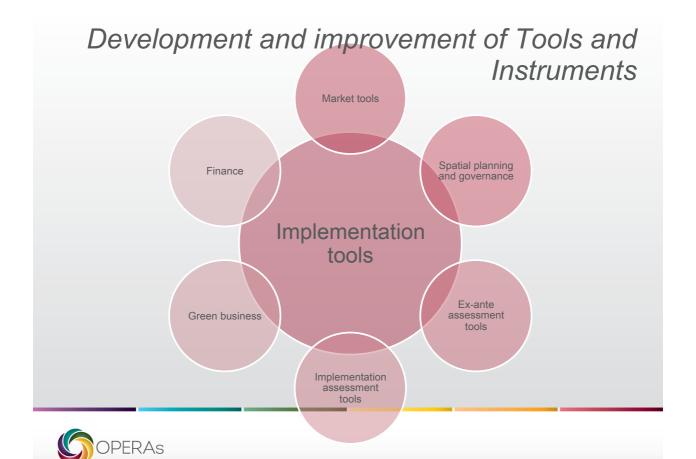


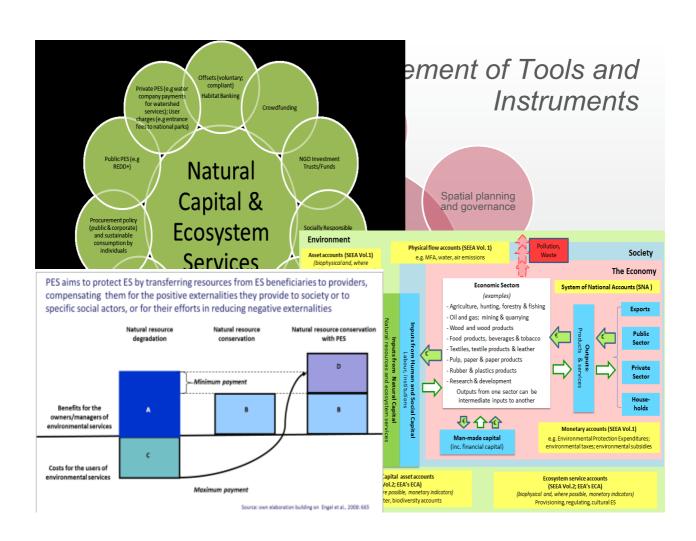


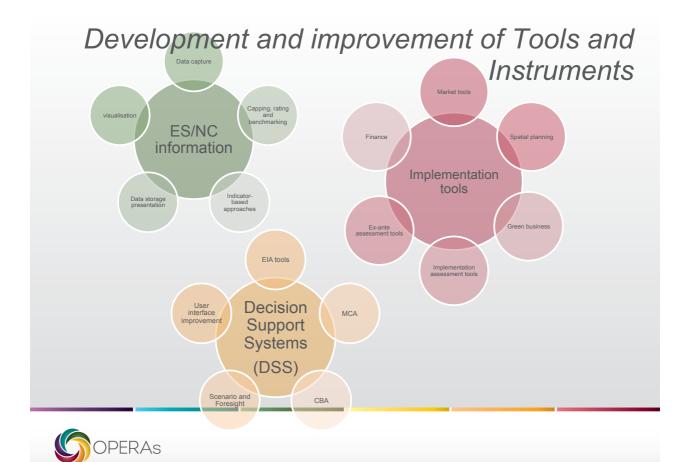


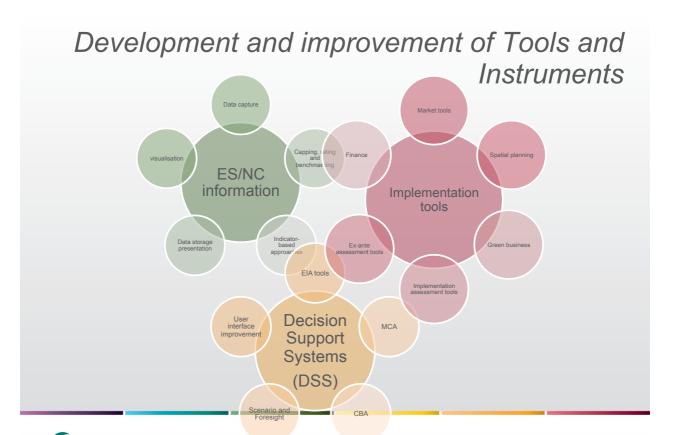












OPERAs

Tool/instrument		Lead persons/ institute
Scenario Tool –	Multi-scale scenario toolbox for strategic planning: (i) exploring implications of change on current decisions, (ii) assessing the viability of future targets including pathways with indicators	James Paterson, Marc Metzger (UEDIN)
СВА –	Assessment of long-term, broad scale strategic decisions regarding different land-use options. Quantification/Valuation based on land use typology, associated management and social features and benefit transfer. ES: timber production, GHG regulation, recreation, aesthetics, biodiversity	Rob Tinch (IODINE)
СВА	Analysis of changes and costs related to shifts to greener land-use practices for furthering public/private payment mechanisms for ES in agriculture. ES: Food provision, biomass provision, energy provision, cultural (bird watching and ecotourism) in protected areas	Maya Bankova- Todorova (WWF)
Business information tool – LCA, labelling and others accounting and rating systems being explored	Analysis of potential environmental impact of a product throughout life cycle. Working on identifying the needs of businesses to assess the environmental impact of their products and operations on ecosystem services.	Boyan Rashev, Peter Seizov, Apostol Dyankov, Denitza Pavlova, Dariya Hadzhiyska (Denkstatt)
EIA -ToSIA (Tool for Sustainability Impact Assessments of ES and NC in value chains)	ToSIA: Tool for sustainability (environmental, economic and social) impact assessment of changes in policies or external forces within the forestry sector. ES: Provisioning Energy, Water, Timber, NTFP, Biodiversity, GHG emissions, Carbon stock, erosion and other protection functions, cultural, traditional and livelihood aspects, certification. ToSIA-MCA for guiding users through an evaluation process: (i) defining indicator (thresholds), (ii) weighting indicators, (iii) aggregation, (iv) uncertainty and sensitivity analysis	Diana Tuomasjukka, Marcus Lindner, Bernhard Wolfslehner (EFI)
MCDA -mDSS tool	 mDSS tool for guiding users through three decisional phases: (i) problem identification: DPSIR, creative system modeling, (ii) option definition and modeling: Simile modeling environment by Simulistics (iii) evaluation based on MCDA 	George Cojocaru, Carlo Giuppani (Tiamasg)
MCDA - ALUAM 11/12/13	ALUAM designed to understand interplay between climate change, economy, LU change on the provision of ES and for evaluating policy measures. ES: timber production, agricultural food products, GHG	Sibyl Brunner, Adrienne Grêt- Regamey (ETH

Tool/instrument	Short summary (content and ES)	Institute
Information - TESSA:	Provide a simple gross assessment of ecosystem services at a site-specific	Lisa Ingwall-King
toolkit for rapid assessment of	application. Indicate who will be the 'winner' and 'loser' as a result of any changes in land use and ecosystem service delivery.	and Claire Brown (WCMC)
ecosystem services at	changes in land use and ecosystem service delivery.	(VVCIVIC)
sites		
Information - Volante	Crowed –sourcing tool used to assess social values of targeted stakeholders.	Lisa Ingwall-King
CANVAS tool	Visual app with much potential for development and application.	and Marc Metzger (WCMC)
Ecosystem services	Developing ecosystem services indicators (UNEP-WCMC 2011) – by using and	Eugenie Regan,
indicator development	enhancing established framework to develop tailored indicators for exemplars.	Lisa Ingwall-King
	Ecosystem services indicator database is an online searchable database where users can find and contribute indicators that have been used to apply ecosystem	and Claire Brown (WCMC)
	services approaches or hold promise for doing so.	(VVCIVIC)
Mapping Information	Our Ecosystem (OE) is a web-based land use and ecosystem mapping platform	Karin Viergever,
tool - OE: Our	(tool). It enables access, sharing, organisation and querying of spatial data. Can	Ecometrica
ecosystem	use outputs from other models and tools as input to the platform	
PES	Payment for Ecosystem Services (PES) is a type of market-based instrument that	
	is increasingly used to finance nature conservation. PES programmes allow for	
		P ten Brink, D.
	,	Russi and M.
PA socio-economic	own or manage the natural resources. Step-wise and practice-oriented approach and guidance on how to identify,	Kettunen (IEEP) Marianne
assessment / PA	assess and communicate various ES and related benefits from PAs, with a	Kettunen, Patrick
Regulations	specific focus on their socio-economic valuation	ten Brink (IEEP)
SEEA framework	The System of Environmental-Economic Accounting (SEEA) provides a	P ten Brink and
		Daniela Russi
EHS Toolkit	and its changes over time. A screening tool to help identify existing perverse incentives that are harmful for	(IEEP) Patrick ten Brink
LI IO TOOIKIL	biodiversity and to better understand how these should be eliminated, phased out	
	or reformed.	(.==. /
Offsetting / NLL	Building on biodiversity offsets (ie measurable conservation outcomes resulting	L. Ma 22a , P ten
	from actions designed to compensate for significant residual adverse biodiversity	Brink, IEEP; F.
		Oustier Riotone: A

Guidance on Choice and Application of Instruments

 This is the plan for the tool and instrument development, in the meantime – we apply and develop them in the exemplars, and learn from there



Coverage of exemplars and instruments

	1. Greater Dublin	2. Urban Dunes	3. Montago	4. Baleric islands	5 Lower Danube	6. Central Alps	7. Wine	8. Scotland	9. Circum- Med	10. Pan Europea n	11. Global
Scenario tool	(x)	X	Х				Х	Х			Х
CBA (iodine)		Χ							х		(x)
CBA (wwf)				Х	Х						
_CA							Х	(x)			
ToSIA			Х				Х	Х			х
mDSS		Х			Х						
ALUAM						Х					
CollWeb PF	(x)					Х					
TESSA	Х	Х	Х		(x)			Х			(x)
Volante Canvas	Х	Х						Х			
ES indicator	Х	Х	Х				Х				
DE	(x)	(x)	Х	X		х	х	Х			(x)
PES				(x)							
PA soc-eco assessment / Regulations			х	(x)	Х			(x)			
SEEA framework					X			(x)		(x)	Х
EHS Toolkit									(x)		
Offsetting /NLL					X	Х		Х		Х	
Finance tools						(x)					
Spatial Planning & Governance											

Thanks for the discussions!

Contact:
Diana Tuomasjukka
European Forest Institute (EFI)
Diana.tuomasjukka@efi.int

Source: http://travel-destination.net/news/wp-content/uploads/11334.jpg

