



# Tool for Valuing Conservation Measures

Kristijan Čivić, Network Development Manager

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# Tool for Valuing Conservation Measures



- “RECOGNIZING NATURA 2000 BENEFITS AND DEMONSTRATING THE ECONOMIC BENEFITS OF CONSERVATION MEASURES”



Page 1 of 60 Imagine the result

- ARCADIS (BE), eftec (UK), ECNC (NL)



- October 2011

- Client: European Commission

- [http://ec.europa.eu/environment/nature/natura2000/financing/docs/Recognizing\\_Natura2000\\_benefits.pdf](http://ec.europa.eu/environment/nature/natura2000/financing/docs/Recognizing_Natura2000_benefits.pdf)



# Tool for Valuing Conservation Measures



- Purpose of this 'Tool on Conservation Measures' is to guide appraisal of the economic impacts of conservation measures taken to manage Natura 2000 sites in the EU. It clearly demonstrates the numerous links between concrete conservation measures and the affected ecosystem services.
- Builds on an older: Assessing socio-economic benefits of Natura 2000, A toolkit for practitioners  
([http://ec.europa.eu/environment/nature/natura2000/financing/docs/benefits\\_toolkit.pdf](http://ec.europa.eu/environment/nature/natura2000/financing/docs/benefits_toolkit.pdf))



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- **Conservation measures** - all measures to enhance or protect the ecosystem quality in order to reach the FCS.
- The baseline for the analysis - expected condition of the site, and its level of provision of ecosystem services and other economic benefits, reflecting 'business as usual' (e.g. after designation as a Natura 2000 site).
- The Tool combines several approaches to economic evaluation of environmental impacts, it uses an ecosystem services approach to identify how changes to the natural environment will affect humans, and draws on valuation evidence generated from a variety of market and non-market methods.



# Tool for Valuing Conservation Measures



- **Why would you apply the Tool on Conservation Measures?**
- If you want to collect evidence on the additional benefits to society of conservation measures to be implemented on your site, if you want to collect hard figures on the economic benefits, if you want to convince decision-makers to attribute sufficient funding for the management of your site, ... the Tool on Conservation Measures is a very suitable instrument!



# Tool for Valuing Conservation Measures



- **Do you have sufficient capacity in terms of time and people to apply the Tool on Conservation Measures?**
- estimated workload: 8 to 10 man-days, to be divided on a 50/50 basis between the site manager and an environmental economist;
- If you want to improve the confidence level of the outcomes, you can organize a stakeholder meeting to get even better view on (interests of) beneficiaries, or you can carry out a WTP survey, but these will require additional time and means.



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- **Do you have sufficient input data?**
- basic data on conservation management, affected beneficiaries, yields of provisioning services, market prices for some provisioning and regulating services, valuation data from comparable sites for value transfer, costs of conservation measures; if you are confident all or most these data can be found (even estimates are acceptable) than you can start applying the Tool.



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- The guidance is organised around nine steps following the structure of cost-benefit analysis:
- 1. Defining the baseline and its level of providing ecosystem services and other economic benefits (expected situation in absence of new management measures)
- 2. Identifying new conservation measures in order to reach FCS (additional management options)
- 3. Identifying impacts of management changes on ecosystem goods and services
- 4. Identifying human populations affected by impacts
- *Steps 1-4 can be done by the site managers alone*





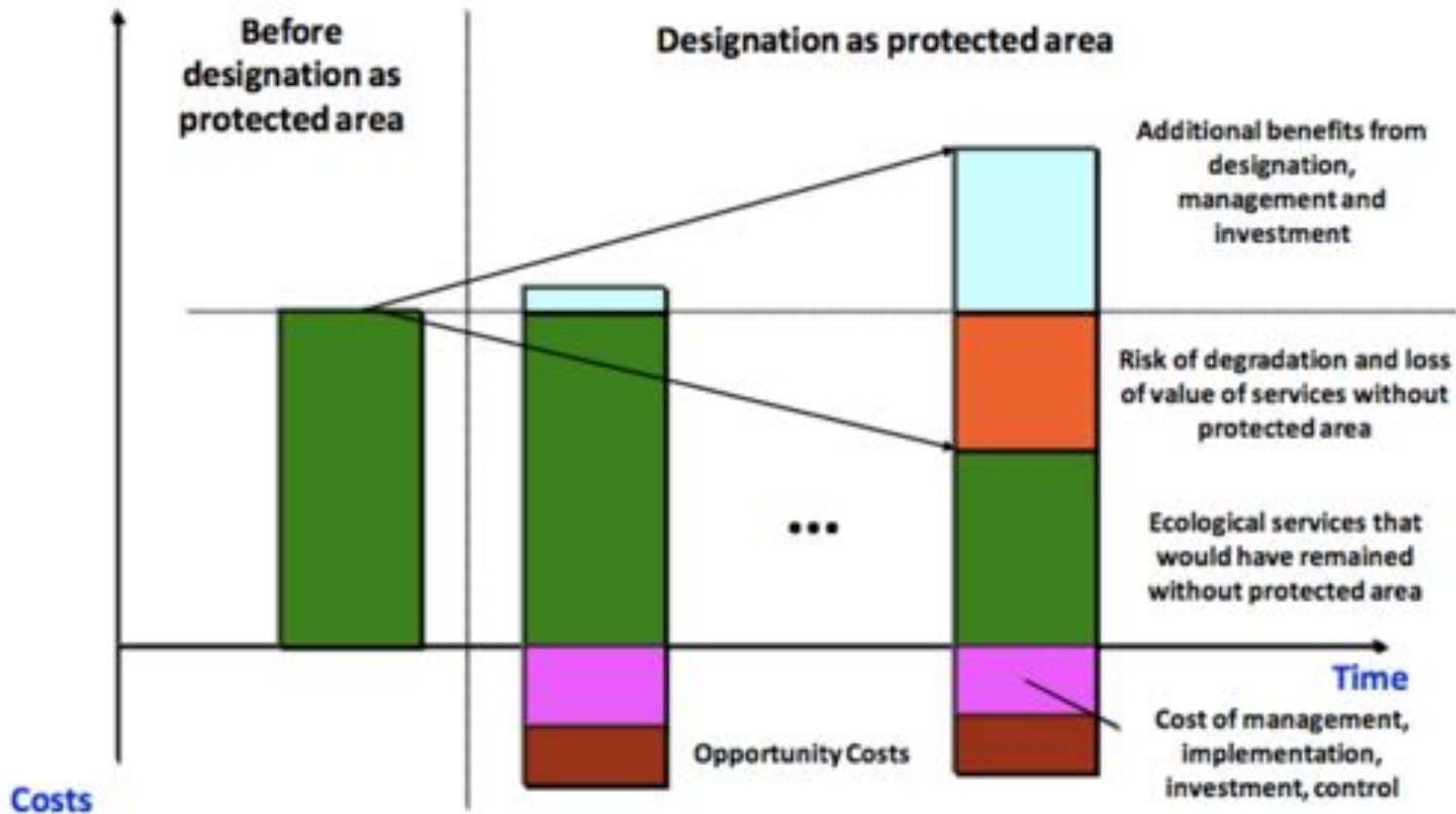
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- *Step 5 onwards additional expertise in environmental economics is required*
- 5. Economic valuation of ecosystem service changes
- 6. Calculation of discounted costs and benefits
- 7. Accounting for non-monetised impacts
- 8. Sensitivity analysis
- 9. Reporting



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Case studies where the tool has been tested:

NATURA 2000 SITE	COUNTRY	BIOGEOGRAPHIC REGION	TYPE	SURFACE (ha)
Kalkense Meersen	Belgium	atlantic	SCI/SPA	100
Lomovete	Bulgaria	continental	SAC/SPA	32500
Muntanya de Montserrat	Spain	mediterranean	SAC	7270
Telascica	Croatia	mediterranean	Proposed marine site	7050
Krkonoše Mountains	Czech Republic	continental	SCI/SPA	54980
Ehrenburg und Katzenkopfe	Germany	continental	SAC	906
Elatia Forest	Greece	mediterranean	SAC	7441
Naardermeer	The Netherlands	atlantic	SCI/SPA	1152
Haaksbergerveen	The Netherlands	atlantic	SCI	592
Vindelfjällen	Sweden	alpine	SAC/SPA	555500
Humber Estuary	UK	atlantic	SAC/SPA	37000





**Thank you for your attention**

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[kcivic@eurosite.org](mailto:kcivic@eurosite.org)

