

Wood production

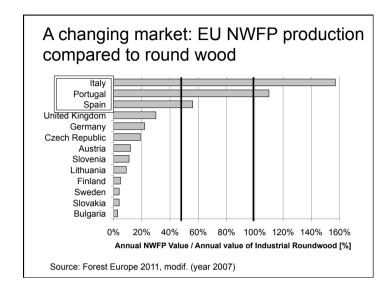
• A decreasing role of wood production, both in absolute and relative terms

Roundwood production value in Mediterranean countries compared to total gross and primary sector GDPs (1990, 2000, 2005, 2010)

Sub-regions	1990		2000		2005		2010	
	% on total GDP	% on primary sector GDP	% on total GDP	% on primary sector GDP	% on total GDP	% on primary sector GDP	% on total GDP	% on primary sector GDF
SM sub-region	0.4%	3.9%	0.3%	3.7%	0.2%	2.5%	0.2%	2.0%
EM sub-region	0.3%	2.9%	0.3%	3.5%	0.3%	3.4%	0.3%	4.5%
NEM sub-region	1.2%	19.2%	1.0%	17.8%	0.8%	15.3%	0.8%	15.0%
NWM sub-region	0.2%	10.1%	0.2%	10.8%	0.2%	7.6%	0.2%	7.5%
Tot. Mediterranean	0.3%	7.7%	0.2%	8.0%	0.2%	5.8%	0.2%	5.9%

Impacts of the decreasing role of wood production

- A decreasing role of wood production, both in absolute and relative terms
- No relevant gain in terms of forest cover and growing stock
- No relevant investments in productive forestry by foreign (or domestic) financial institutions
- Increasing dependence from abroad



Studies on forest externalities values

Average biodiversity and recreational values in European Forests (**TEEB**, 2009)

(Values per hectare – methodology: value transfer)

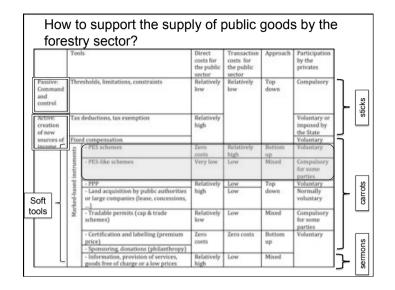
	Mediterranean EU	Northern and Central- Northern EU	Scandinavian EU
	Latitude 45-65	Latitude 65-71	Latitude 35-45
Range US\$ (2000)	356-615	123-182	123-255
Average \$ (2000)	485.5	152.5	189.0
€ (2000)	379,3	119,1	147.7
€ (2008)	467.1	146.7	181.9
	4	3.2	2.5

Source: TEEB Report; CLIBIO project cit. in Den Brink et al. (2009)

Outline

- 3 points:
 - Instruments of forest policy
 - A basic problem for PES implementation: WTP for ES
 - Importance of quasi-PES
- · Final considerations





Payments for Environmental Services (PES)

Definition (Wunder, 2005):

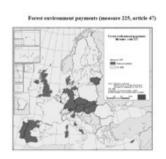
- "a voluntary (1) transaction where
- a well-defined ecosystem service (2) (or a land-use likely to secure that service)
- is being bought by a (minimum one) ecosystem buyer
 (3)
- from a (minimum one) ecosystem provider (4)
- if and only if the ecosystem service provider secures ecosystem service provision (5) (conditionality)".

PES implementation in the Med area

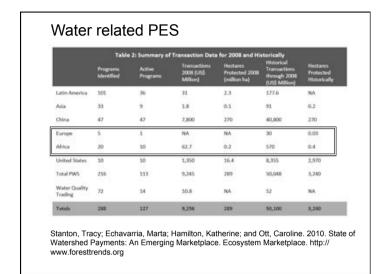
 Mechanisms of payment or compensation still to be developed in the region (more delay than in other regions), not withstanding the strategic role of water, biodiversity and landscape (tourism along the coast)

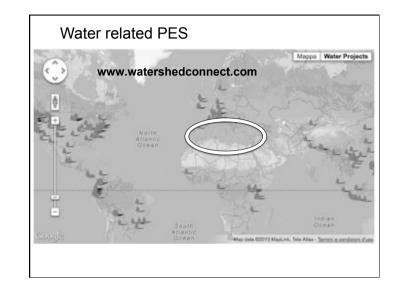
Few payments for ES with the RDP

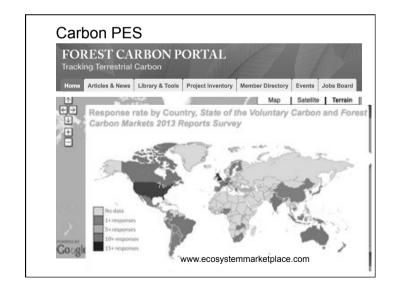


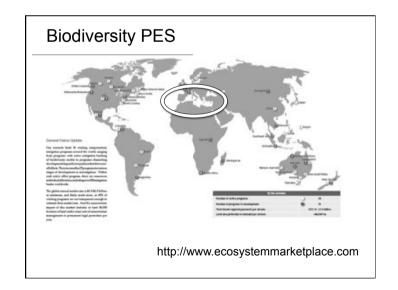


Source: DG AGRI, 2009. Report on implementation of forestry measures under the rural development regulation 1698/2005 for the period 2007-2013



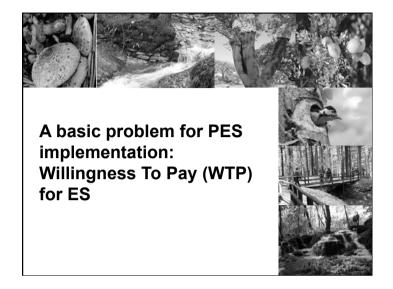


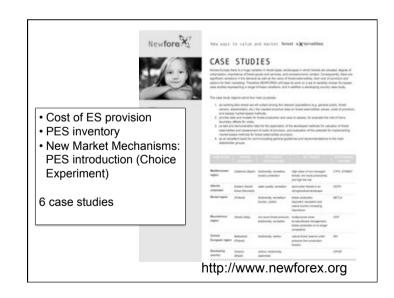


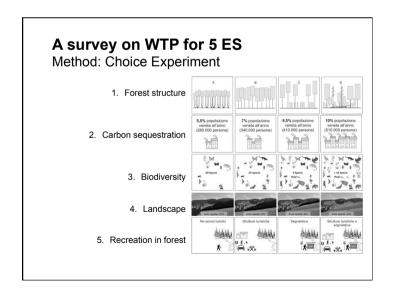


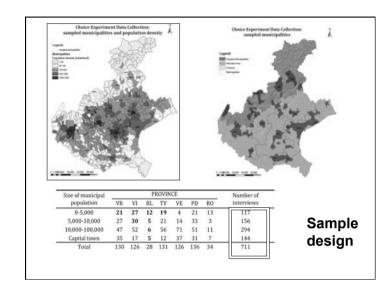
Main points for reflection

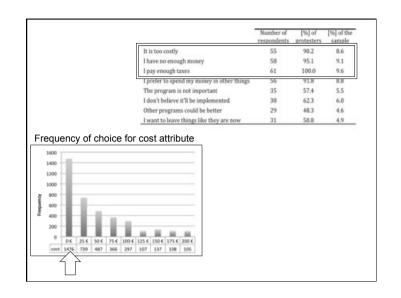
- Still the **traditional regulative instruments** are playing **a fundamental role** in the Med area:
 - · A passive role of the civil society
 - "Soft" tools require a proactive public administration open to partnership, negotiation, innovative attitude in sharing responsibilities, costs (from training too loss of political power) and benefits, ...





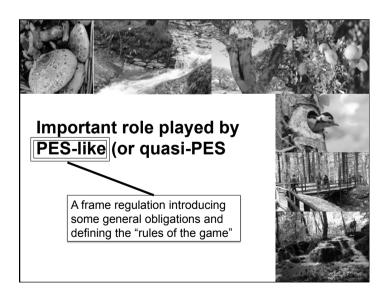






Main results

- Biodiversity protection, landscape conservation and maintenance of forest structure should be provided at zero cost for the beneficiaries
- Some **positive WTP** for **Carbon** sequestration and organized **recreation**
- WTP is highly influenced by the **level of education** (not always correlated to income)
- → As proved by other surveys, positive WTP is much higher in the **small-scale PES systems**



1. Mushrooms and truffle picking permits

National frame law, Regional Acts and local regulations → daily permits of 5-15 €/persons per max 2-3 kg

A case-study: Borgotaro Forest Community (Parma province – Emilia-Romagna Region)

- Total number of permits sold: 25-36,000 €/year
- Annual revenue from permits: 300-420,000 €
- Revenues from PES: 15-19 €/ha/year
- Revenues reinvested in forest maintenance and local development policies

2. Hydro power generation

- The first source of renewable energy in Italy (5.1% of total final consumption)
- National frame law: no. 959 in1953
- PES is based on power of hydroelectric plant (>220 kW/h): 28 €/kWh installed/year (in 2012)
- Beneficiaries: Municipalities, frequently organised in Consortia (BIM – Bacini Imbriferi Montani)
- Numbers: 69 BIMs; 1,684 Municipalities involved; 252 dams; 518 power plants



3. Drinking water provision

An exemplary case: *Romagna Acque* and the Ridracoli dam

- Dam built in the 1982; capacity of 33 M m³; more than 100 M m³ of high quality drinking water provided/year
- Managers: a public company controlled by the local administrations
- From 1982 to 2007: 25 years of constant investments in the catchment basin area (mainly forest area): an almost fixed amount of 4% of the total company revenues from water tariff, equal to a annual PES of 5-600,000 €
- The cost of removing the soil from the dam-bed could have been 10 times higher in the same period

Final considerations

- The regulative framework allows the establishment of PES (-like) schemes, but implementation is lacking behind
- Public administration has the responsibility of changing its culture and general approach ...

... from a passive role in controlling the resources ...



... to an active partnership in rural development ...

