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Comparing profitability and governance for recreational wild mushroom picking in forest and timber production



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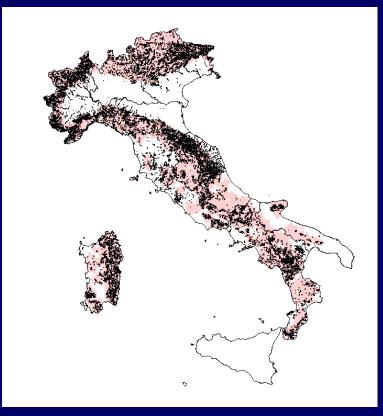


Outline

- 1. The context: Italy
- 2. Wild Mushroom Picking as recreational environmental service (source of income)
- Timber production vs. Wild Mushroom Picking in 4 case studies: governance mechanisms and profitability
- 4. Conclusions

1. The Italian forestry context: an overview

- Italy: rich of poor forest (95% in mountain-hills)
- Forest area increasing:
 5.5 M ha in 1950
 10.4 M ha in 2000
 (2-3 M in natural conversion)
- Forestland ownership: 60% private (former farmers): 3 ha/firm 40% public (local municipalities, community-forests)



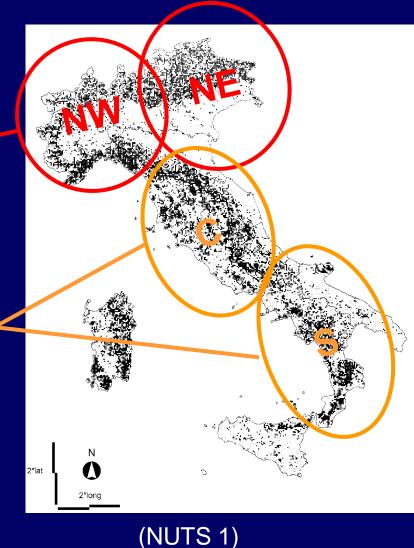
Pink areas = mountain Black spots = land under conversion

1. The Italian timber production: an overview

 Industrial roundwood: mainly in the North (high forests) (and plantations)

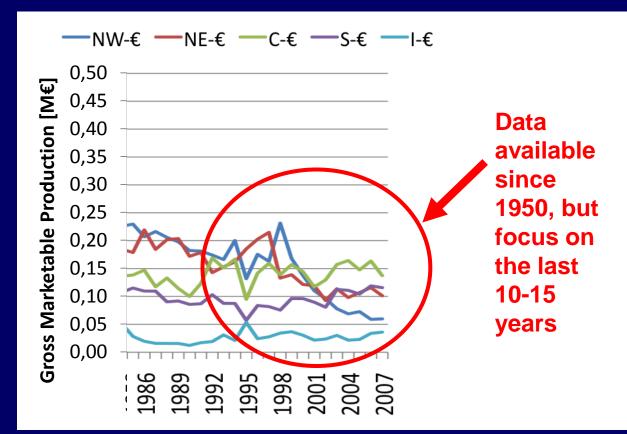
Firewood: main timber output in the Central-South Italy (coppices)

Low productivity



1. Macro-areas: GMP

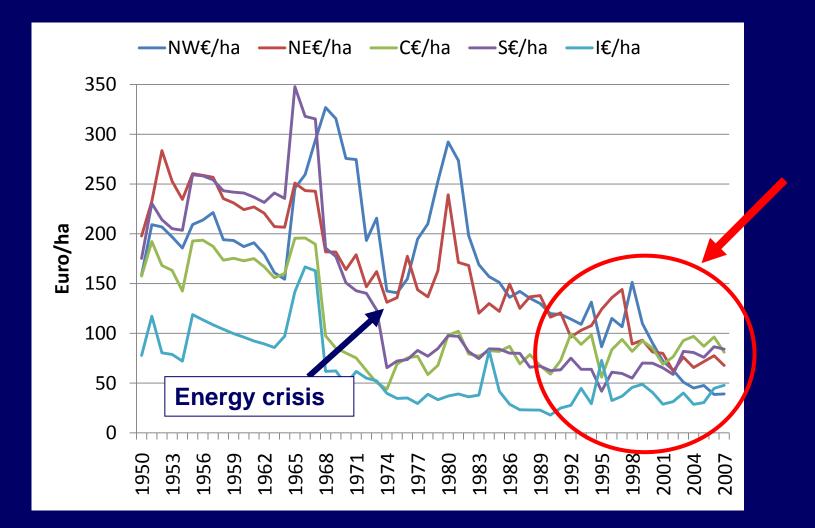
- Centre and South: constant trend → fuelwood
- NW-NE-I: decrease → globalization of roundwood market



 Reduction of high quality (high value) timber

 Lack of a NFP (but 21 local forest programs)

1. Macro-areas: productivity [€/ha]



2. The key-point

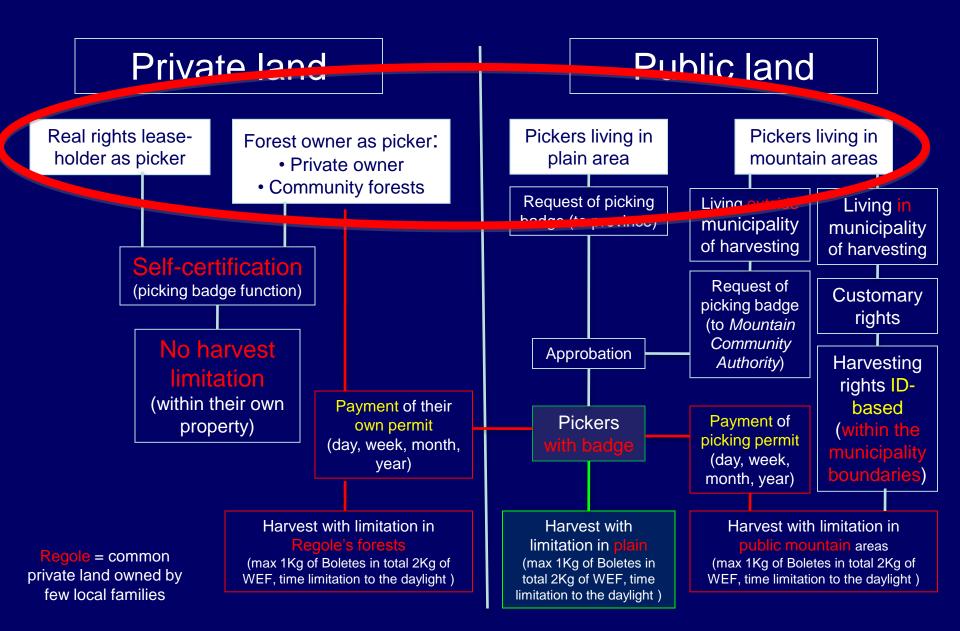
 In a market where timber supply is becoming less profitable, can payments for NWFPs be an instrument for enhancing the forest value and providing income for local population?

NEWFOREX project (2010-2012) (7th FP)

2. Wild Mushroom Picking: recreational activity as a source of income from the forest

- 1. The most extensive forest activity in the Alps
- 2. Directly linked to the forest output
- 3. Activity involving thousands of people
- 4. Possibility to have a direct transaction between the user (picker) and the provider (forest owner).

2. Wild Mushroom property rights regulation



3. Three governance mechanisms based on 4 Wild Mushroom Picking case-studies

Pre-Alpine mountains (2 cases) a. Rent use without re-investment

Asiago plateau b. Limited internal re-investment

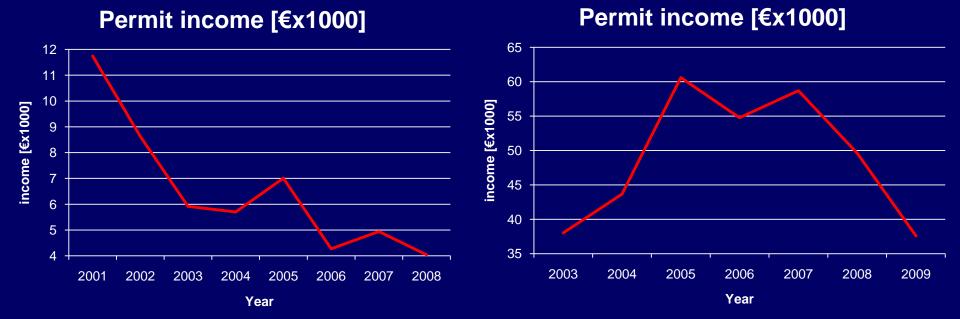
Borgotaro c. Network-based WEF supply

a. Rent use without re-investment

2 Mountain Authorities (municipalities' associations): Case-study a.1 = "Astico-Brenta" (10,800 ha) Case-study a.2 = "Astico-Posina" (23,400 ha)

- Appr. 3,500 4,000 picker badges
- Lack of control
- Low investment on WEF res.

Permit cost: daily 6€; monthly 17€ - 30€; annually 32€-77 €



b. Limited internal re-investment

One Community Forest: "*Spettabile reggenza*" 49,000 ha

- Appr. 10,000 picker badges
- > 20,000 permits/yy
- Limited investment on WEF
- Some external WEF buyers



Presence of other recreational forest activities

- Fist approach on territorial marketing:
 - ✓ WEF among the local specialty products (i.e. Asiago cheese)
 - ✓ Link to the local handcraft shops
 - ✓ Picking tourism

LE STRADE DEI VINI E DEI SAPORI



Territorio	
THE TRAIL	
MAP OF THE TRAIL	
ITINERARI	
TOWNS ALONG THE	TRAIL
PARKS	
MUSEUMS	
TOURIST INFORMA	TION
FOTOCALLERY	

FIRMS

Link

Bed & Breakfast Caseificio / Salumificio / Az. Vitivinicola Farmhouse holidays Fattoria Didattica Hotel Museo / Collezione privata Restaurant Sale of local products

Enterprises: 62 (in 2008)

- 15 Agro-tourisms/ Farm businesses
- 12 Hotels/Guest quarters
 - Bed&Breakfasts/Inns/Hostels
 - Cheese, sausage and wine growing and producing factories
 - Didactic farms

8

9

2

3

- Museums/Private collections
- 30 Restaurants/Porterhouses26 Typical products sellers



Imago product: PGI Borgotaro *Boletus*



c. Network-based WEF supply

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WEF are much more than a commodity or recreational service → the key-component (imago product) of **a larger network** (Human and Provan, 1997 – mod) based on the concept of "territory"

- a consistent portfolio of products and services
 - coordinated marketing efforts

- 420,000 € per year from WEF permits selling on 33,000 ha of forest
- 2.8 M€ total income (estimated) from Wild Mushroom tourism (in 2006)

3. Profitability: timber vs. WEF

Case study	Timber	WEF
One authority, no control, re- investments (a.1, a.2)	7.8 €/ha (2000-2008) 15.3 €/ha (2000-2008)	1.1 €/ha (2000-2008) 3.5 €/ha (2003-2009)
Few actors, limited control, low re- investments (b)	47.3 €/ha (2000-2009)	6.6 €/ha (2000-2009)
Network, high control, significant re-investments (c)	n.a.	12.7 €/ha by permits selling (but 84.8 €/ha considering all the WEF-based activities) (2006)

* Firewood for self consumption by the members of the Consortium

4. Conclusions



- Profitability from NWFPs is comparable (or higher) to that from traditional timber production
- **Property rights** regulations are important for pickers & forest owners, but more important is the chance of **entrepreneurial innovation**
- Profitability levels depend on the form of governance (bottom-up/voluntary/market-based initiatives reduce control costs and make it more effective + directly increase forest output ← investments on special silvilculture measures)

4. Conclusions



The most advanced level of profitability from NWFPs marketing are reached through networks models, based on 2 key-components:

 (contractual) coordination of economical stakeholders for the supply of products and services to increase profit and/or stability

mutual trust

- finput = social capital
- → output = not only market products are supplied but also "relational goods"



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