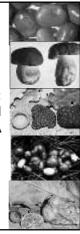
9° Annual Seminar of Non-Wood Forest Product Sector Rovaniemi, 2.11.2005

#### NWFPS MARKETING: SOME EXPERIENCES FROM THE MEDITERRANEAN AREA

#### Davide Pettenella

Dipart.Territorio e Sistemi Agro-forestali University of Padua davide.pettenella@unipd.it



# Paper organization

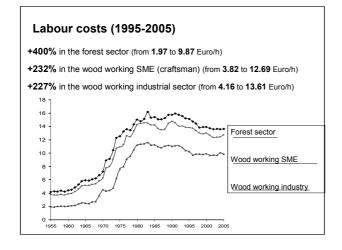
- The driving forces
- The outcome
- Two case studies:
  - chestnut Production chain
  - truffles
     New management and marketing instruments
- Final remarks

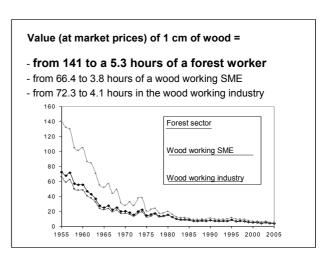
## **Driving forces**

NWFPs development in Mediterranean area: **three driving forces**:

- 1. The collapse of profitability of the timber production
- 2. High population density: high urban demand for "natural food" and "green products"
- 3. Regional development policies

# 1. The collapse of the timber economy Average real prices (standing tree) of conifer industrial roundwood in the Southern Alpine Region (1955-2005) -82% standing prices (from 276 to 52 Euro/mc) -68% spruce roundwood on the road side (from 282 to 90 Euro/mc) -62,6% larch roundwood on the road side (from 306 to 114 Euro/mc) Average standing price Roadside price (spruce) Roadside price (spruce) Roadside price (larch) Source: Pettenelia & Ciotti (an analysis of 1330 sales in Comelico - Veneto Region)





# 2. An increased demand for 'natural' food and 'green' products

Some examples of "specialty" food products and drinks:

- Berries (fresh, frozen) for yogurt, ice-cream and juices
- Chestnut and marrons (fresh, dried, flour) for cakes and jams
- Mushrooms (dried, fresh) and truffles cooked with meat, rice, ... or used for sauces
- Aromatic and medicinal herbs

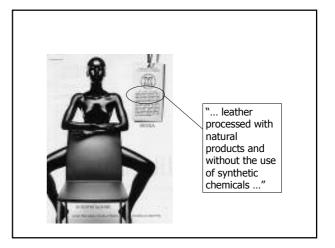
**.**..



"Mediterranean diet"

ItalianSpanish/French traditional quality cooking

Organic products, natural cosmetics, cosmeto-food, aromo therapy, bio-architecture, ...



# 3. Rural development policies

- CAP reform: Agenda 2000 and Rural Development Programmes = diversification of rural activities and new sources of income (non-food production)
- Other policies: management of rural landscape, tourism development, culture heritage protection, ...

# In many Mediterranean countries: a strong link between

NWFPs marketing policies



Tourism, recreation and landscape protection policies

Leader EC project approach

Törggelen holydays: few days- one week holidays (normally for aged persons) based on

- roasted chestnut +
- walnut
- new red wine tasting +
- speck and the meat organized in South Tyrol



#### The outcome

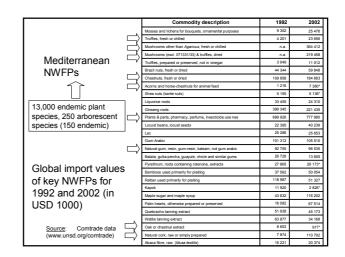
= NWFPs in Mediterranean areas have positive trends in supply and demand and an increasing economic importance in rural development

"International trade increased significantly for natural cork, mosses and lichens for bouquets, truffles, mushrooms, chestnuts, bamboo, palm hearts and maple syrup. Interestingly, these NWFPs originate mainly from, and are traded among developed countries. Also, these commodities are processed locally into semi-finished products with raising unit prices. Of particular interest is the fast increasing value of trade in "specialty" food products (...) Specialty foods are among the fastest growing segment in the food catering business and several edible NWFP are ideally fit for niche marketing, such as pine nuts, bamboo shoots or wild edible mushrooms. The reduction (and/or elimination) of import tariffs, increasingly globally applicable (food) quality standards and changing consumer (food) preferences are creating global markets for products which previously were only locally available" (Vantomme, FAO, 2005)

# Average values of benefits from Mediterranean forest areas (Euro/ha/year)

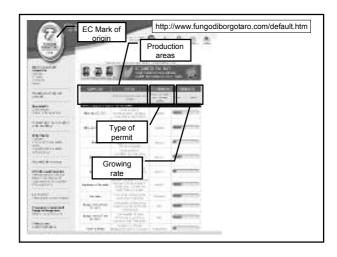
	Wood	NWFP	Grazing	Recreation	Hunting	Total	TEV
- Southern	12	4	32	n.a.	-	46	67
- Eastern	22	5	10	1	1	40	48
- Northern	67	16	10	32	3	125	176
Total Mediter.	47	12	13	21	2	95	133
%	∏49.5	12.6	∏13.7	<u></u> 22.1	2.1	100	-
%	35.3	9.0	9.8	15.8	1.5	71.4	100

Merlo and Croitoru, 2005, p.62



A revealing indicator: the rising concern of forest owners in protecting their property rights

Nuts, mushrooms and truffles in many Mediterranean countries are not any more public goods, like 15-20 years ago





Two case studies (two successful stories)

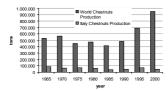
- Chestnut
- Truffles





#### A. Chestnut

- Decline of production (700 000 t beginning of 20th Century to 63 200 in 2000):
   urbanisation processes and loss of traditional uses,



- 209 000 ha for chestnut production
- Varieties "Marrone" and "Chestnut" Regions: Campania 51%, Calabria 12%, Lazio 11%, Piemonte 9%, Toscana 7%

#### **Chestnut - Marketing Characteristics**

Positive	Negative		
good nutrient values different final uses high added value products through processing easy storage (refrigeration) various by-products (honey, mushrooms)	Difficulties in obtaining a nut clean and of homogeneous size Production variability     Fresh nuts quality maintenance problems     Fungal infection and insect attach to fresh fruits, weevil damage during storage and later     high harvesting costs and highly concentrated labour requirements		

#### Chestnut - Production chain

- Low degree of mechanisation (aspirators, tree shakers), collection by hands or with nets
- 89 000 agricultural enterprises (76 000 ha orchards)

Distribution of consumption of chestnuts (Bellini, 2003)

	Chestnut	Marrons
Peeled, for animal feeding and other uses	5 %	< 5 %
Self consumption	5 %	10 - 15 %
Internal markets (fresh consumption)	40 %	20 - 30 %
Processing industry	10 %	35 - 40 %
Dried	10 %	
Export	30 %	15 - 20 %

#### Chestnut - Policy & Research

■ Large incentives for restoration of chestnut orchards (financial support by Regional authorities)



- Access:
  - Private orchards, public access is forbidden
  - Gathering of wild chestnuts is allowed
- Research:
  - diseases, cultivation, graft and crown care
  - recovering of old chestnut orchards and transformation of chestnut coppice
  - harvest techniques

#### Chestnut - Marketing

marron from Castel del Rio, marron from Mugello, chestnut from Monte Amiata, chestnut from Montella

- Certification under EU regulations
  - Registration of Protected Designation of Origin (PDO) (Reg. 2081/92)
  - Protected Geographical Indication (PGI)
  - Traditional Speciality Guaranteed (TSG) (Reg. 2082/92)
  - Organic production (Reg. 2092/91 and IFOAM)

Marron from Mugello-Fano in Garfagnana



# **Chestnut - Marketing**

■ Networking and promotion, e.g. Association of valorisation of chestnut (<u>www.marrone.net</u>): → fairs, exibitions, museums, ...







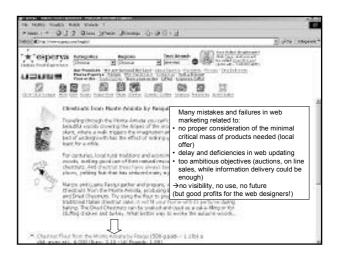
 Network of local municipalities (the Italian Associazione Nazionale Città del Castagno)



 Strada del Castagno (the Chestnut Road) in Tuscany (agri-tourism activities); similar initiative in Trentino

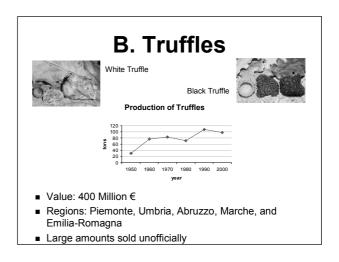
## New selling systems

- Direct sales: "Pick-up your chestnuts": selling directly to the consumers the right to collect chestnut (and making a picknick) for a fixed rate or in relation to the weight of collected fruits
- e-business:
  - B2B: fresh chestnuts, semi-finished products,
  - B2C: jams, dried nuts,...



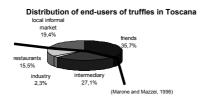
### **Lessons learned**

- Vertical integration to sell the high AV products
- Direct sales to increase forest owners profits → investment in orchards amelioration
  - → protection of property rights
- Public authorities: external support in promotion, technical assistance to forest owners



#### Truffles - Product Chain

- 200,000 truffle collectors in Italy
  - 16% members of associations
  - 78% > 50 years old with long family traditions
  - hobby, additional or entirely income
  - time consuming (up to 200 days, 4 hours per day)



#### Truffles - Product Chain

- around 40 middle men and companies (one the Urbani company - is controlling 75% of world market)
- export to central and northern Europe and United States
- prices depend on:
  - truffle species (950 €/ kg black truffles, up to 3000 €/kg white truffles)
  - origin (e.g. high prices in Piedmont)
  - season
  - place in the market chain

# **Truffles - Policy framework**

- National frame law about the truffles collection, cultivation and marketing (NL 752/1985)

  → responsibility is delegated to the Regions
- Law defines 3 different productive areas:
  - non cultivated areas
  - cultivated forests (forests with improvement for truffle production)
  - plantations for truffle production (forests planted with mycorrhized trees)
- Experts check these areas for the local authorities
- Agreements between collectors association and forest owners (e.g. Tuscany)
- Licence for truffle collectors

#### Truffles - Policy instruments & Research

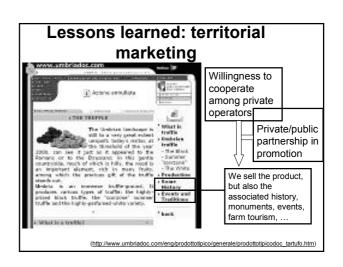
- Certification: "Traditional products" (Reg. 2082/92)
- Networks:
  - National Association "Towns of Truffles"
- Research:
  - Mycorrhysation techniques
  - Cultivation (soil-water-species)
  - Production enhancement (seedlings quality standards)

#### Truffles - Fields of Innovation

- nursery/plantation (certification system to assure mycorrhization)
- mark of origin (no official trademark for truffels from Italy)

■ distribution (e-comme





## **Final remarks**

- No room for competition in the mass market (Albanian aromatic herbs, Irish foliage, Danish Christmas trees, Finnish frozen or Croatian fresh mushrooms have too low prices!)
- Niches products development: high AV specialty food (strong links with the territory and the local history/culture)
- Synergies with other products/services (tourism, recreation), i.e. with other economic operators: human capital and partnership are key factors