



*European transnational Research Cooperation Forest value chain
in the light of climate change – ERCF*

Vienna, 03-04 May 2011

STATUS QUO OF FOREST RELATED RESEARCH ON NATIONAL LEVEL

ITALY



**MINISTERO DELLE POLITICHE
AGRICOLE ALIMENTARI
E FORESTALI**



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ITALY: Forest Resources

34.7 % of the national surface (10,450,000 ha)

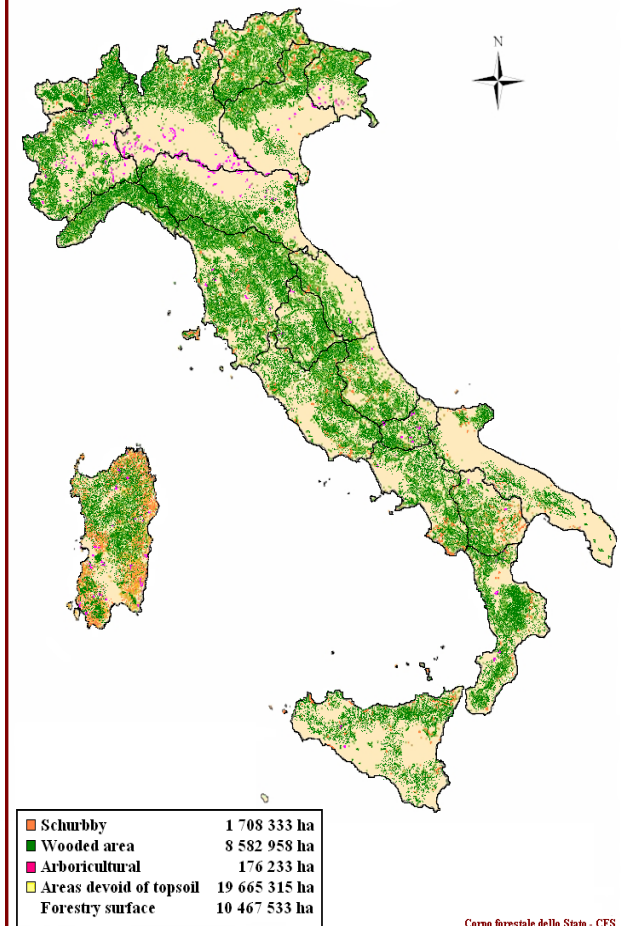
Macro Category “Bosco”(8,759,200 ha)

- 1985: 6,142,000 ha
- 2005: 8,759,200 ha
- 20.7% with slope less than 20%
- 63.5% private (average size 4 ha) > 100 years
- High forest: 36.1% (3,157,965 ha) > 25 years
- Coppice: 41,8% (3,663,143 ha)
- Average size of cut: 1.03 ha
- Arboriculture: ~ 150,000 ha < 15 years

16.2 MtCO₂/year eq (10.2 MF)

INFC 2005 (FRA-FAO)

National Inventory of Forests and Carbon Sinks
INFC2005



ITALY: Forest Resources

Potential availability for harvesting:

- 88% of national forest surface, more than 31 Million m³/year

Timber harvested in the last 10 years (on average):

- ~ 8,500,000 m³/year (60% firewood)
- 65.6% Centre-Nord, 34.4% Centre-South (25% of the growing stock)
- UE average: 62.6% of growing stock (TBFRA 2000)

Import: ~ 18,000,000 m³/year

- (on average 30% firewood, + 22% in 2009 with respect 2008)



Primary wood processing

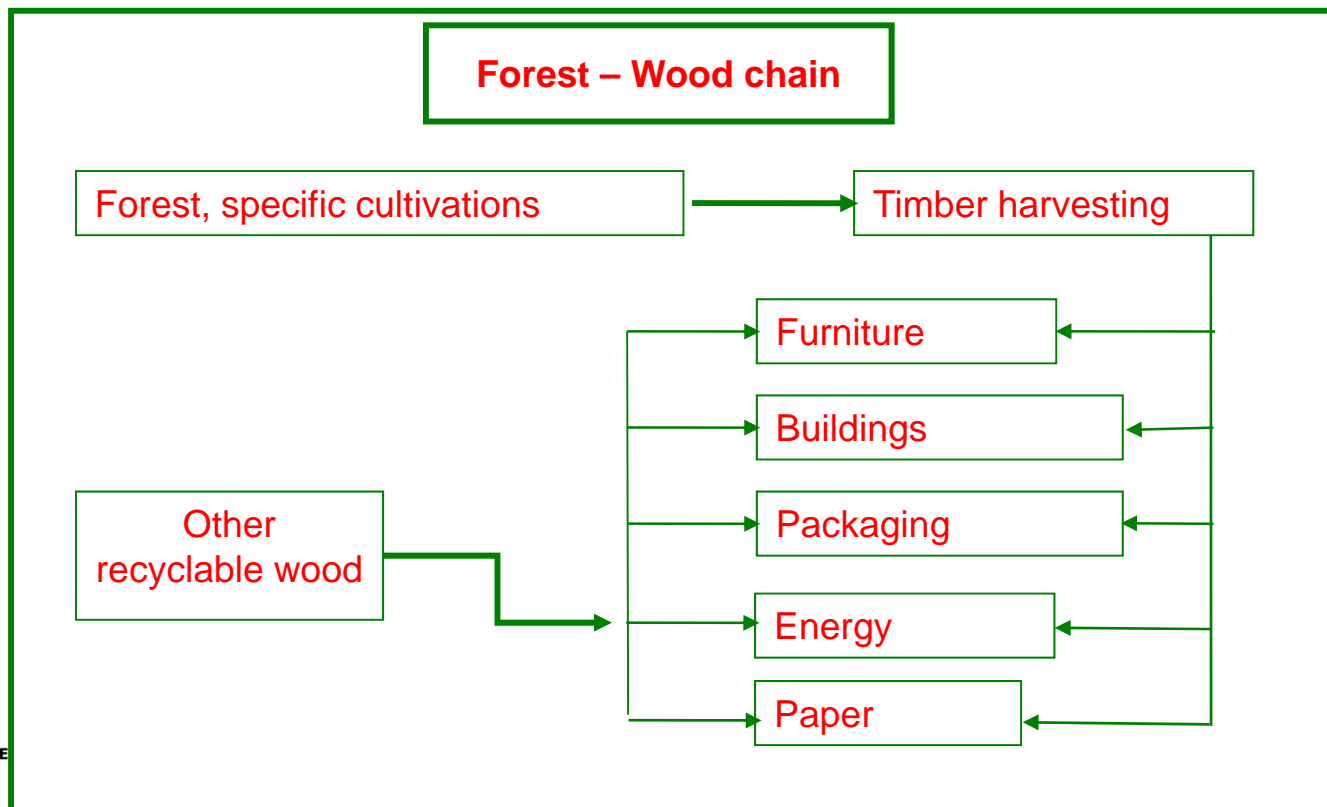
Individual of family forestry farms and logging enterprises

6.600 employees (2.500 company ... a lot of irregular workers)

Secondary wood processing

180,000 employees and 43,000 company
Carpentry and joinery (0.01% GDP)

200,000 employees and 30,000 company
Furniture industry, construction, paper, etc. (3% GDP)



Forestry Research in Italy

Public financing

European Union

Ministry of Agriculture, Food and Forestry Policies (MIPAAF)

- INEA (Forest Observatory)
- CRA (Italian Council for Agricultural Research)

Ministry of Environment, Land and Sea (MATTM)

- CNR (National Council of Research)
- ISPRA (Institute for Environm. Protection and Research)

Ministry of Education, University and Research (MIUR)

- Padova
- Torino
- Firenze
- Viterbo
- Campobasso
 - Bari
- Reggio Calabria
 - Palermo
 - Sassari

Private financing

Industry Associations

- FEDERFORESTE
- FEDERLEGNO ARREDO
- FEDERLEGNO PANNELLI
- ASSOCARTA



Ministry of Agriculture, Food and Forestry Policies (MIPAAF)

Research and development Office

COSVIR IV General Direction of rural development, infrastructure and services

Is the main public funding body for agricultural, agro-food and forestry research

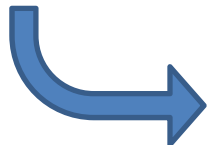
MIPAAF financial research resources 2005-2009

TOTAL BUDGET: € 180,000,000
(about 70% of national agricultural research financing)

More than 7M € were devoted to research programmes and projects on forestry and wood topics.

5M € has been devoted to scientific education and training in agriculture, agro-food and forestry research in 2008-2009

It is
responsible
for



- the definition of national policies to develop a sustainable and multifunctional management of forestry system;
- the definition of research programmes in all areas of agriculture, agro-food and forestry and of transnational actions (ERANET, EUPHRESKO, ARIMNET, ICT-AGRI, etc.);
- the control and protection of agro-forestry systems and environment through the State Forestry Police (CFS)



Main topics in the Italian forestry research (1)

Product

- Arboriculture with quality species and medium-long term cycles (Ente Pioppicoltura, CRA, Universities)
- Short rotation forestry (Ente Pioppicoltura, Universities)
- Use of wood for civil buildings (CNR, Universities)

Forestry mechanization

- Efficiency evaluation of machines and equipments (Universities, Private)

Cost analysis and accounting systems

- Analysis about the cost of machines and equipments (Universities, Private)
- Forestry farms accounting system (RICA/FADN; INEA)
- [SISWOOD](#) → a software to estimate work performance, costs and direct inputs (Univ.)
- [GUFOR](#) → a software to manage all the logging operations (cut, testing, sales, etc.) (Univ.)



Main topics in the Italian forestry research (2)

Forest Planning and Management

- Inventory and monitoring of forest resources and environment (Universities, CRA, CNR)
- Silviculture, functionality and protection of ecosystems (CRA, Universities)
- Silviculture, functionality and sustainable management of coppice in Appennini and Mediterranean area (Universities)
- Support information system for forest management (Universities)
- Medium scale planning models and indicators for the forest management (Universities, CRA)
- Agro-forestry and environment management softwares (Universities, CRA)

Biomasses

- Analysis of National stores and supply (Universities, CRA)
- Biogas (CNR, Universities)
- Efficiency analysis of biomasses for energetic and industrial purposes (CNR, Universities, private sector)



Main topics in the Italian forestry research (3)

Local socio-economic development

- The role of forest resources in the socio-economic development of rural areas (OF INEA, Universities)
- Multifunctionality of forest resource (OF INEA, Universities)

Biodiversity and climate change

- Biodiversity and production of forest propagation materials (CRA)
- Evaluation and monitoring of CO₂ stored by the Italian forest system (Universities, ISPRA, CRA)
- Adaptation of forest species to the climate change (Universities, ISPRA, CRA)
- Integrated system for biodiversity monitoring (CFS, CRA)
- Member of ILTER Network (CFS)



Main topics in the Italian forestry research (3)

Some projects currently financed by Mipaaf and coordinated by CRA:

POPIT: Advanced genetical improvement of the Poplar (*populous*) for industrial and bioenergetical use.

Goal: The development of advanced strategies for breeding and optimizing genetic improvements of the Poplar for the selection of new clones.

Agricultural and forest biomass energies: improvement and integration for the supply chain of clean fuels, of fibers and for the production of electric and thermal energy.



Rome, 23rd-24th June 2011

Present and future role of forest resources in the socio-economic development of rural areas

www.reterurale.it/romaforest2011



MINISTERO DELL'AMBIENTE
E DELLA TUTELA DEL TERRITORIO E DEL MARE



EFI



European Network for
Rural Development



MINISTERO DELLE POLITICHE
AGRICOLE ALIMENTARI
E FORESTALI



Corpo Forestale dello Stato



Rete Rurale
Nazionale
2007-2013



CONSIGLIO PER LA RICERCA
E LA SPERIMENTAZIONE
IN AGRICOLTURA



ISTITUTO NAZIONALE
DI ECONOMIA AGRARIA
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