

**Council for
Agricultural Research
and Economics**

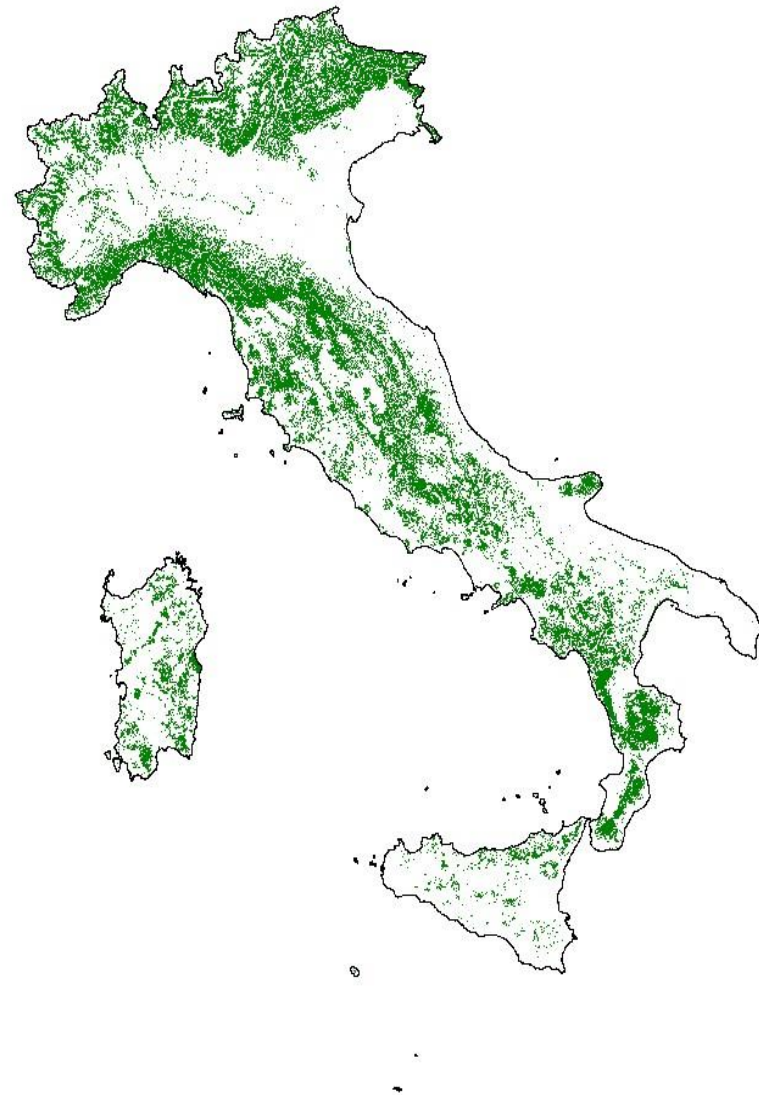
***Research centre for agricultural policies
and Bioeconomy***

Saverio Maluccio



FOREST LAND

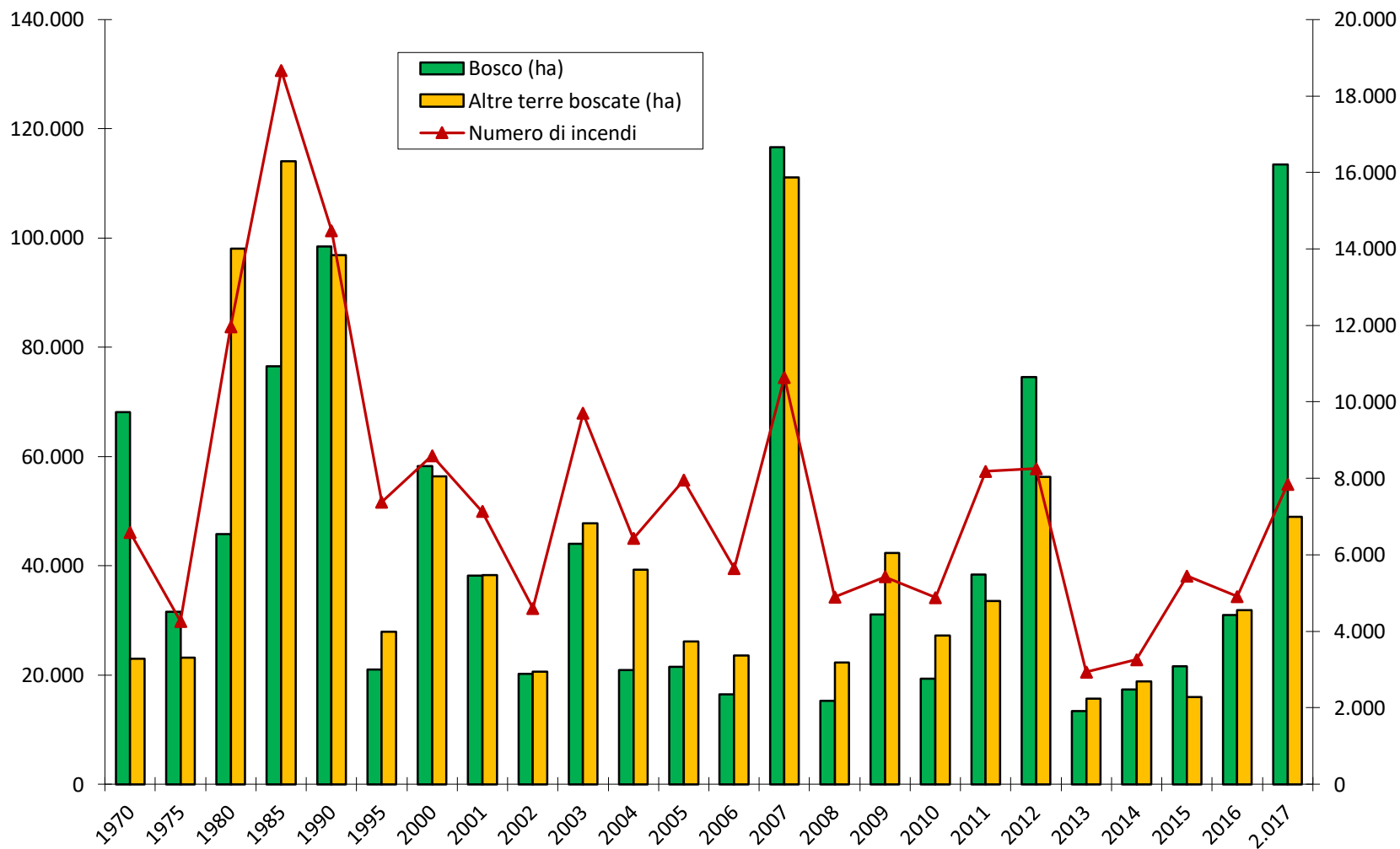
Categories	Area (ha)	Proportion
Forest	9 165 505	29%
Other wooded land	1 816 508	6%
Total Forest Resources	10 982 013	35%
Arboriculture	182 000	
Total land	30 132 845	100%



5,9 %OF FOREST LAND UE 28

Ettari

Numero di



CAP :Common Agricultural Policy

Italian Rural NET

FORESTRY MESURES :

- Afforestation on agricultural and non-agricultural land
- The economic and ecological improvement of the Woods
- Fire fighting and prevention actions.
- Investments in forestry companies(Biomass energy plant)

Six Priorities (broken down in different Focus Areas), art.5 Reg. (EU) 1305/2013 :

1. fostering knowledge transfer and innovation in agriculture, forestry and rural areas;
2. enhancing the viability and competitiveness of all types of agriculture, and promoting innovative farm technologies and **sustainable forest management**;
3. promoting food chain organization, animal welfare and risk management in agriculture;
4. **restoring, preserving and enhancing ecosystems related to agriculture and forestry**;
5. **promoting resource efficiency and supporting the shift toward a low-carbon and climate-resilient economy in the agriculture, food and forestry sectors**;
6. promoting social inclusion, poverty reduction and economic development in rural areas.

M08: INVESTMENTS IN FOREST AREA DEVELOPMENT AND IMPROVEMENT OF THE VIABILITY OF FORESTS

8.1: afforestation and creation of woodland (art.22)

8.2: establishment of agroforestry systems (art.23)

8.3 and 8.4: prevention and restoration of damage to forests from forest fires, natural disaster and catastrophic events, including pest and diseases outbreaks and climate related threats (art.24)

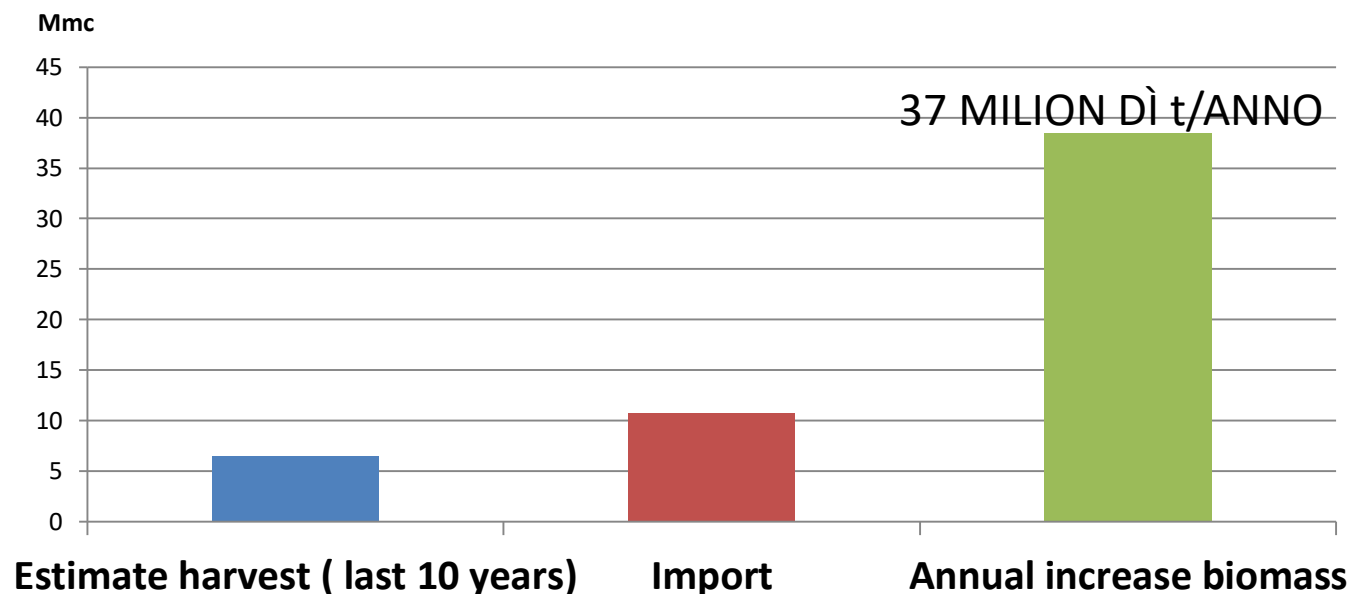
8.5: investments improving the resilience and environmental value as well as the mitigation potential of forest ecosystems (art.25)

8.6: investments in forestry technologies and in the processing, the mobilizing and the marketing of forest products (art.26).

M15: FOREST-ENVIRONMENTAL AND CLIMATE SERVICES AND FOREST CONSERVATION:

The measure responds to the needs of promoting the sustainable management and improvement of forests and woodland, including the maintenance and improvement of **biodiversity, water and soil** resources and **fighting climate change**. It responds also to the need to conserve the forest genetic resources, including activities such as **development of different varieties of forest species** in order to adapt to specific local conditions and to make forests more vital and resilient to pests and diseases and able to provide the expected level of ecosystem services.

Forestry and timber production



- Italy use <20% against a European which uses about 60%
- high management costs;
- orographic limits;
- the small size of private owners (Average size of cutting is 0,7 Ha)
- Only 1,5 M ha have a forest mangement plan

Monitoring study of 13 plants done by FIPER end the Milan polytechnic

- **65 Sample** of biomass heating plant
- primary fossil **energy savings of between 60% and 80%**, compared to use of other fossil fuels
- **Saving of carbon dioxide (CO₂)** released into the atmosphere of 60%.
- a 5 MW plant with respect to the use of domestic biomass devices **avoids 10 tons of annual dust emissions**
- The **economic impact** generated at the local level stands at 50 million euros / year
- the **employment effect is 520 Work Units** per Year (ULA).
- for each euro turnover there is an overall impact on the system of € 2.65.

MONITORING CARBON CENTER

OUR MISSION: ANALYSIS, MONITORING OF VOLUNTARY FOREST CARBON MARKET IN ITALY AND MAKING IT MORE EFFICIENT AND TRANSPARENT.

THE PARTNERSHIP WITH ECOSYSTEM MARKETPLACE WILL LET OUR DATA BE PUBLISHED IN INTERNATIONAL REPORT WHICH IS CALLED :*“State Of the Forest Carbon Market 2016”*



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

TESAF



CONSIGLIO PER LA RICERCA IN AGRICOLTURA
E L'ANALISI DELL'ECONOMIA AGRARIA

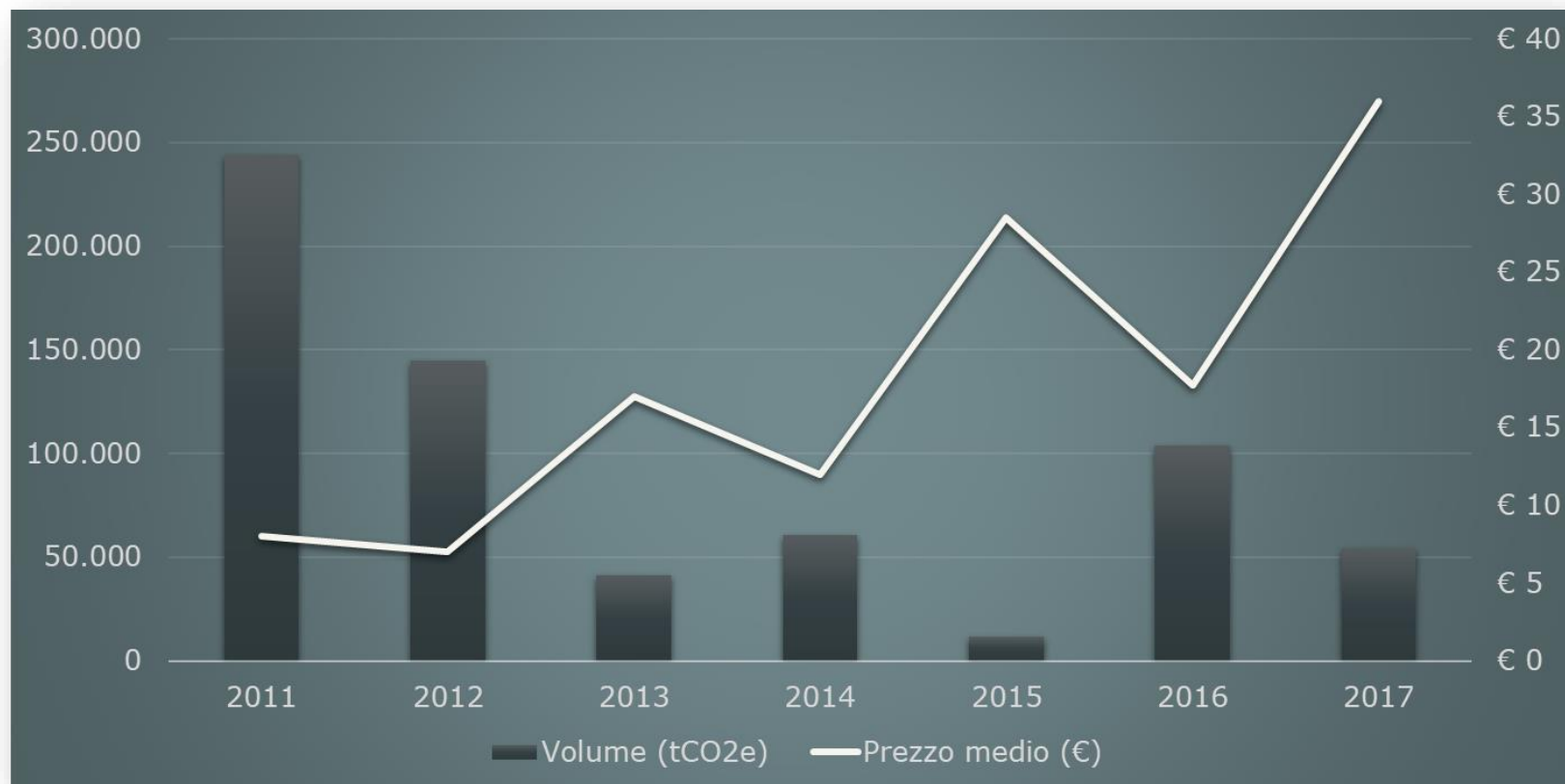
OPS
OSSERVATORIO
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<http://www.nucleomonitoraggiocarbonio.it>

**Osservatorio Foreste – Centro Politiche e Bioeconomia -CREA
Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria**



VOLUME AND PRICE OF VOLUNTARY CARBON CREDIT IN ITALY



ACTION ALLOWED IN VCM

1. emission reduction.
2. increase in carbon sinks.
3. replacement or reduction of fossil fuel emissions
management of crop and forestry residues for renewable energy production

Metodology:

- calorific value of specific colture convert in KWh
- using an emission factor of 410.3 g CO₂ / KWh (ISPRA, 2011)
consumed for the country's thermoelectric industry
- We can calculate the energy produced from biomass

Species	Annual pruning (t s.s./ha)	Energy production (kW/ha/anno)	EMISSION avoided (t CO ₂ /ha/anno)
Citrus tree	1,8	9.002	3,69
Actinium	5,5	27.505	11,29
Apricot tree	7,6	38.007	15,59
Cherry-tree	2,4	12.002	4,92
Apple tree	1,4-2,4	7.001-12.002	4,22
Olive tree	1,7	8.502	3,49
Vine	2,9	14.503	5,95
MEDIA	2	10.002	7,10

A 100-hectare land

The middle carbon credits generated would be 710 for year,
which withholding a buffer quota of 20%

WE can get 558 carbon credit for year

considering the average price of credits in Italy (36 euros)

The value of the credit is 20.088 euros/year (additional income)

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Thank you for your attention

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