

Workshop

"The services of the Alpine forests ecosystems as a natural, economic and cultural asset for a regional and European green economy"

Pieve di Cadore (BL) 12 September 2014





I servizi delle foreste alpine nelle prospettive di sviluppo del settore forestale italiano.

Daniele Zovi Corpo Forestale dello Stato



- NFI

National Inventory of Forests and Forests Carbon Sink

Enrico Pompei



FOREST AREA





	Land use	Area (ha)	Proportion	S.E. %
	Forest	8,759,200	29%	0.4
	Other wooded land	1,708,333	6%	1.3
	Total wooded area (2005)	10,467,533	35%	0.3
	Total land area	30,132,845	100%	
	Total wooded area (1985)	8,675,000	28,7%	0.9
Forest Other w	ooded land			







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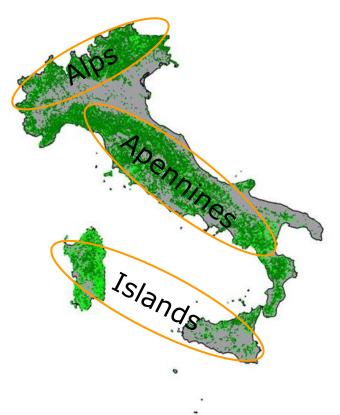






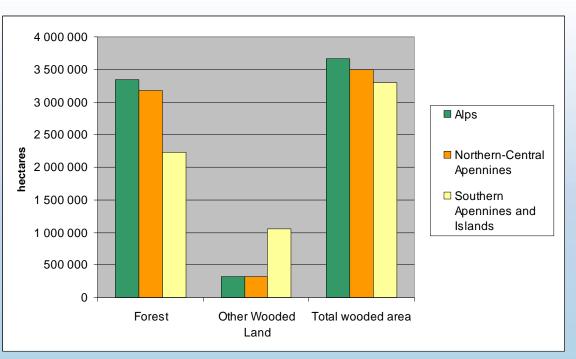


FOREST AREA











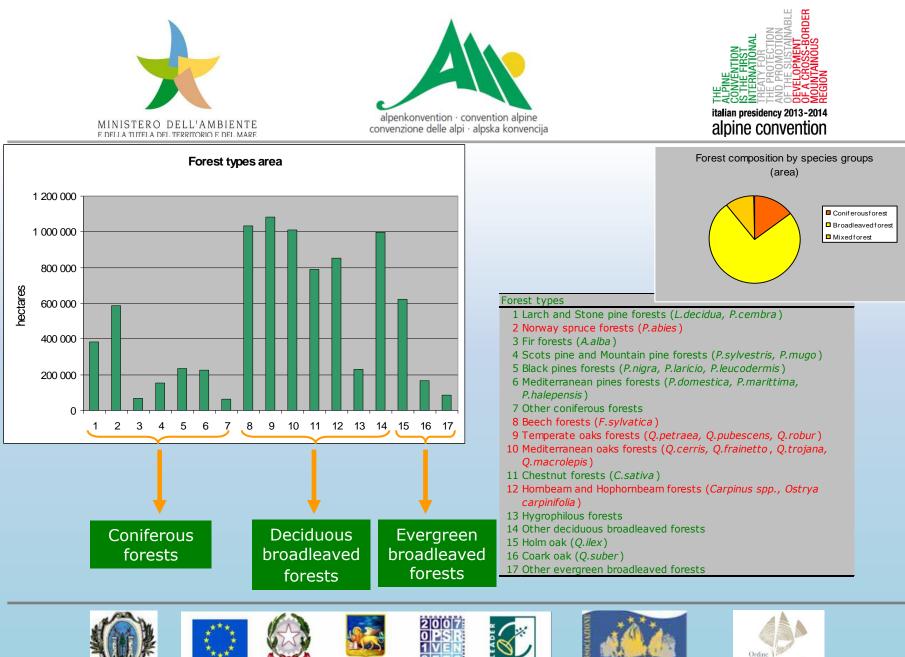






Provincia di Belluno

The percent yearly increment of total wooded area in the last 20 years has been 0.30 % The land cover/use changes are mostly due to land abandonement and **natural** recolonization by trees and shrubs Changes in Forest and OWL area (1985-2005) 10 000 000 8 000 000 6 000 000 0.26% Forest hectares OWL 4 000 000 2 000 000 0.04% 0 IFNI 1985 INFC 2005 2007 REGIONE DEL VENETO Dottori Agronomi FEASR NLTO BELLUNESS Dottori Forestali



REGIONE DEL VENETO Fondo europeo agricolo per lo sviluppo rurale: l'Europa investe nelle zone rurali

FEASR

NLTO BELLUNESE





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



Beech forests



italian presidency 2013-2014 alpine convention





BEECH FORESTS	ha
Mesophylous beech forests	414 165
Acidophylous beech forests (with <i>Luzula spp</i>)	96 580
Thermophylous beech forests (with <i>Cephalanthera spp.</i>)	102 070
Beech forest with holly, ferns and Campanula spp.)	298 757
Other beech forests	123 531
Total	1 035 102





















italian presidency 2013-2014 alpine convention

SPRUCE FORESTS	ha	Spruce Forests		
Subalpine spruce forest	196 134		S A CALL	A LIGHT COMMENTS
Mountain spruce forest 330 003				
Other spruce forests 59 944				
Total	586 082			CONTRACTOR OF A CONTRACT
		}		Enrico Pomper
A		2007		











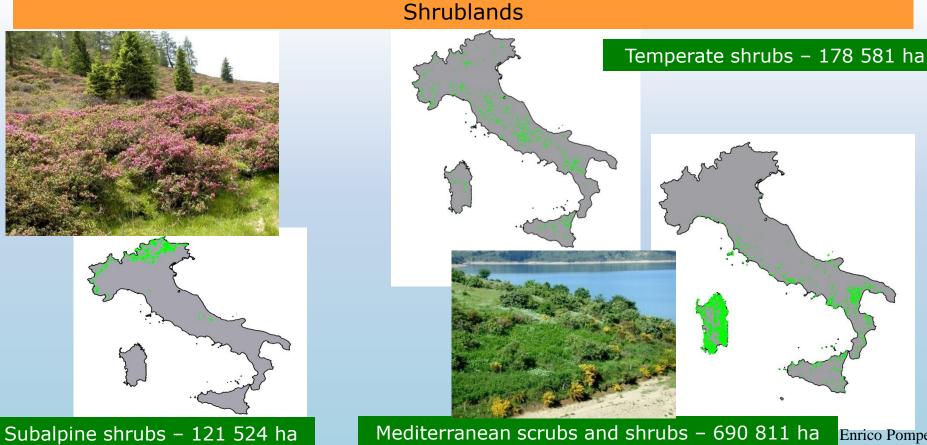


















31 REGIONE DEL VENETO

Fondo europeo agricolo per lo sviluppo rurale: l'Europa investe nelle zone rurali

2007 OPS



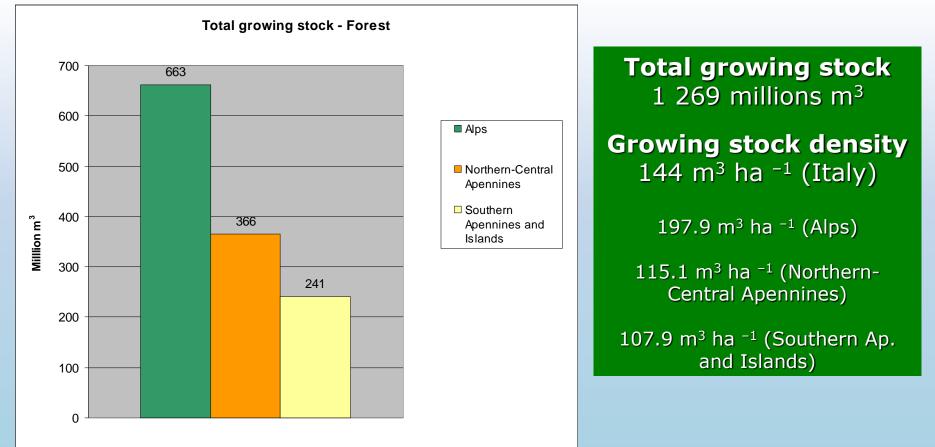


Enrico Pompei



















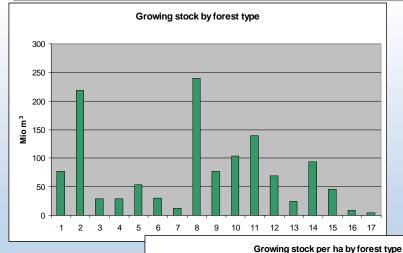


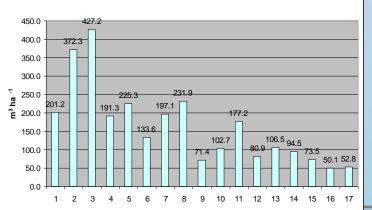












Growing stock density by forest type

50.1 \div 427.2 $\,$ m^{3} ha ^{-1}

Forest types

- 1 Larch and Stone pine forests (L. decidua, P. cembra)
- 2 Norway spruce forests (P.abies)
- 3 Fir forests (A.alba)
- 4 Scots pine and Mountain pine forests (P.sylvestris, P.mugo)
- 5 Black pines forests (P.nigra, P.laricio, P.leucodermis)
- 6 Mediterranean pines forests (*P.domestica, P.marittima, P.halepensis*)
- 7 Other coniferous forests
- 8 Beech forests (F.sylvatica)
- 9 Temperate oaks forests (Q.petraea, Q.pubescens, Q.robur)
- 10 Mediterranean oaks forests (*Q.cerris, Q.frainetto*, *Q.trojana, Q.macrolepis*)
- 11 Chestnut forests (C.sativa)
- 12 Hornbeam and Hophornbeam forests (*Carpinus spp., Ostrya carpinifolia*)
- 13 Hygrophilous forests
- 14 Other deciduous broadleaved forests
- 15 Holm oak (Q.ilex)
- 16 Coark oak (Q.suber)
- 17 Other evergreen broadleaved forests





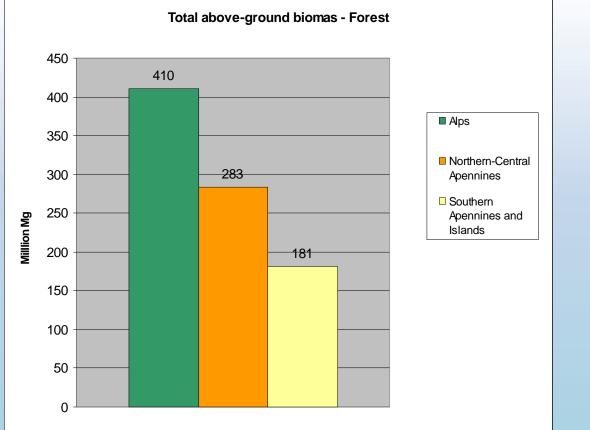












Total above-ground biomass 874 millions Mg

Above-ground biomass density 99.8 Mg ha ⁻¹ (Italy)

122.5 Mg ha ⁻¹ (Alps) 89.2 Mg ha ⁻¹ (Northern-Central Apennines) 81.0 Mg ha ⁻¹ (Southern Ap. and Islands)



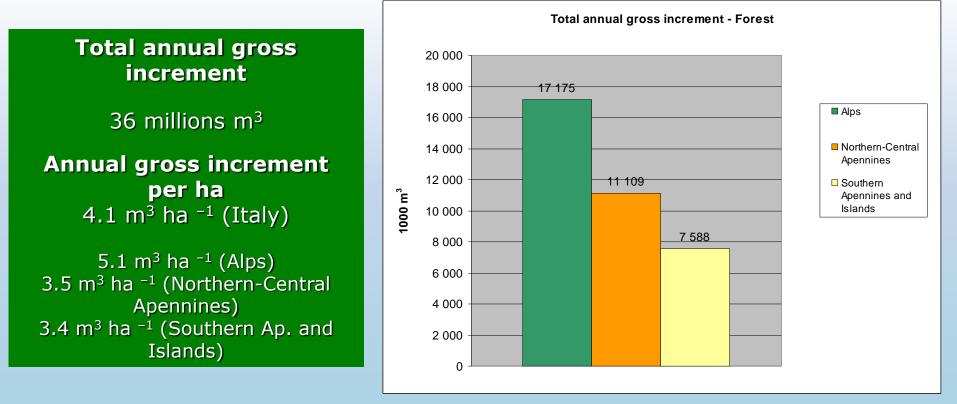


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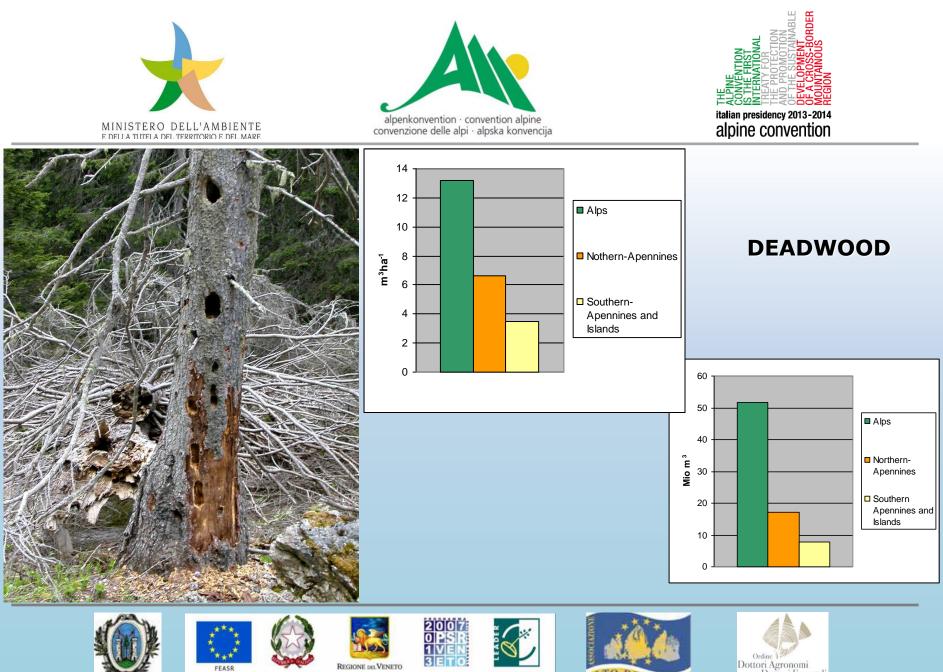






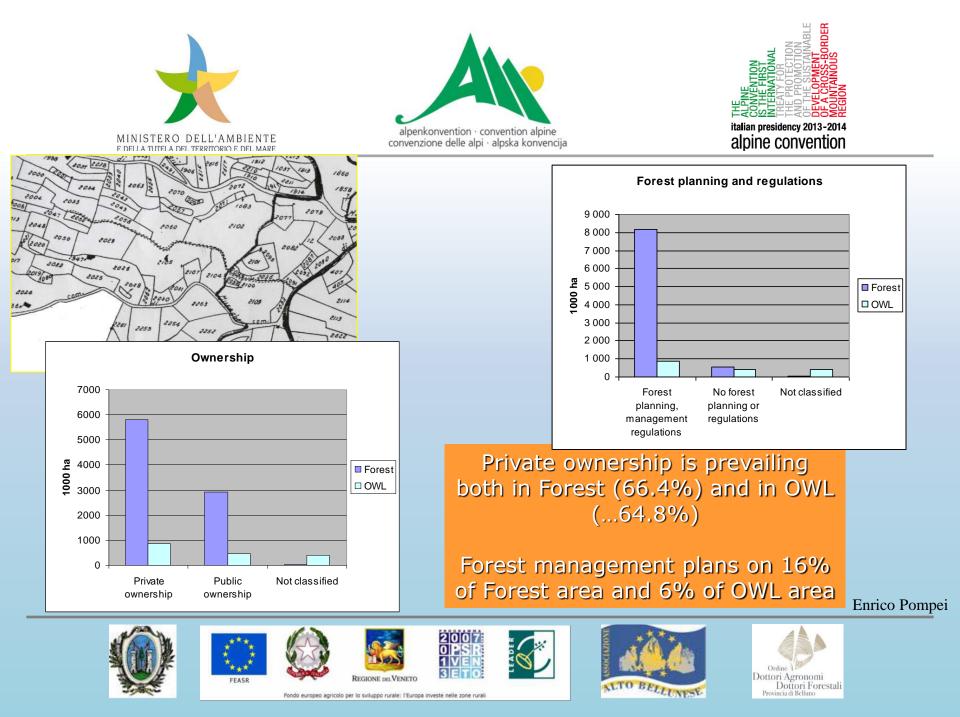






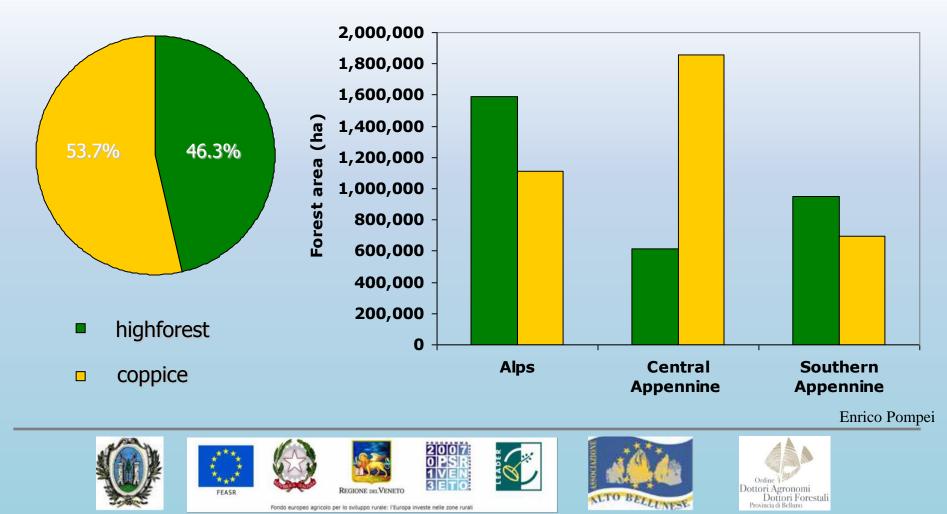








SILVICULTURAL SYSTEM



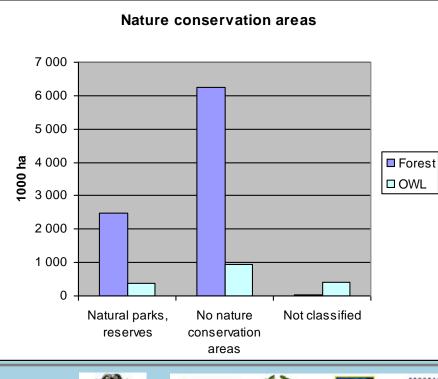


PROTECTION STATUS AND NATURALNESS





alpine convention





28,6% of Forest area and 29.1 % of OWL are located in protected areas









3ETO







FOREST CARBON STOCK

The forest is an important carbon sink, accumulated through photosynthesis. In Italy, the amount of organic carbon retained in tissue, plant residues and soils of forests (root systems excluded) amounted to about 1.2 billion tons, equivalent to 4.4 billion tons of CO2.



The carbon is accumulated mainly in the soil (58%) and in the trees and shrubs (38%) 2% of the carbon is present in the form of litter and plant residues and finally 2% in the form of dead wood.





Thank you for your attention

Daniele Zovi Corpo Forestale dello Stato