

Coppice forests – a global overview



EuroCoppice Conference Innovative management and multi-functional utilization of traditional coppice forests

COST Action FP1301, Florence, 26 Febr. 2014



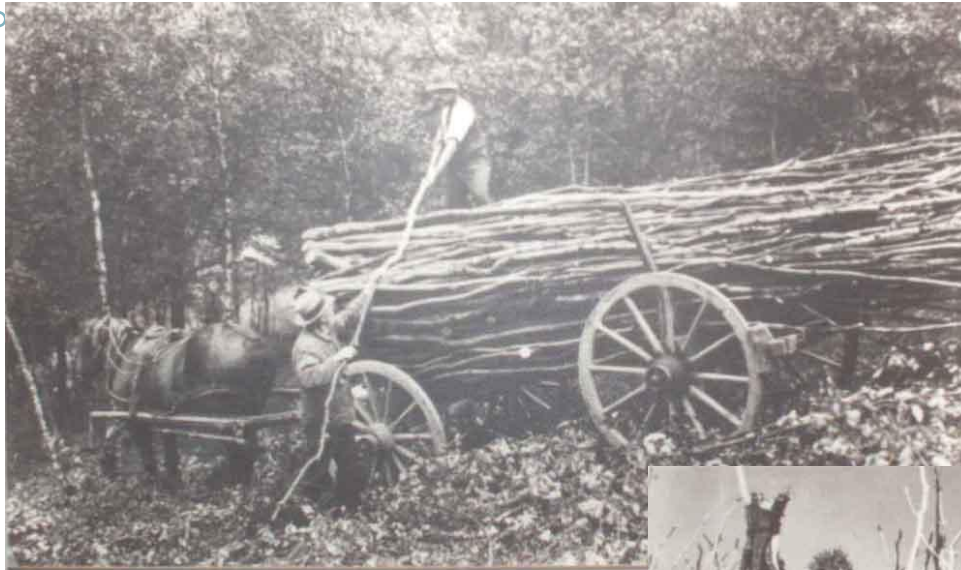
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Agenda

1. History and traditional use
2. Modern use/climate change
3. The unknown ecosystem
4. Classification
5. Management challenges
6. Conclusions



History and traditional use



Abfahren des Haubergholzes

**timber, fuelwood,
charcoal, pulpwood,
stakes, poles**

**Oak bark for
tanning leather**





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Modern use: environment and landscape



Kosovo



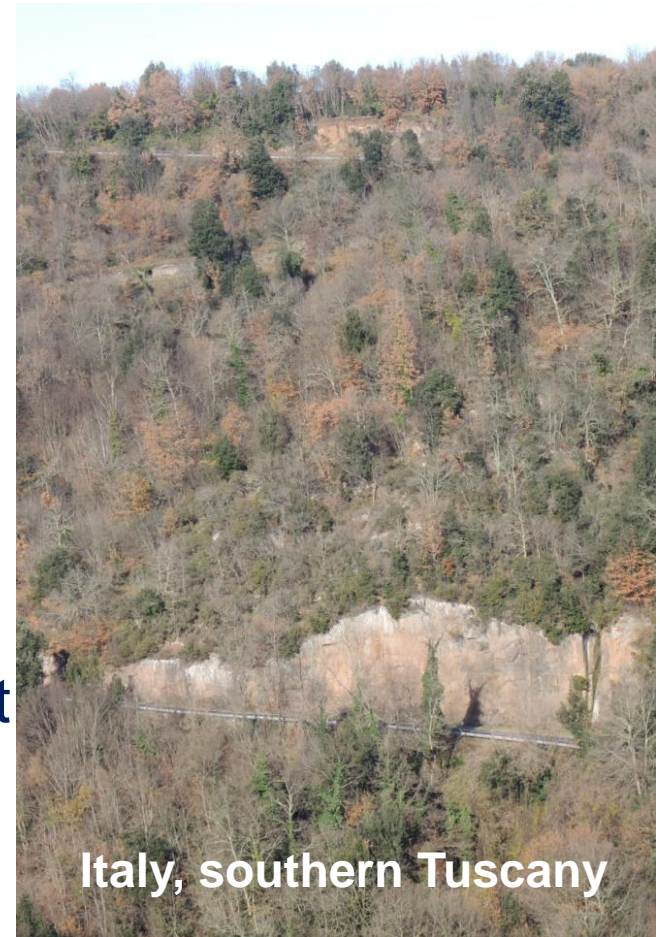
Italy, southern Tuscany

Coppice for slope and environmental protection in mixture with pasture land



Coppice forests & climate change

- located in warmer and drier landscapes
- increasing risk of extreme weather events: summer heat, drought, forest fire
- diverse forest types with high potential to adapt to climate change
- coppice forests are a significant element in sustainable landscapes



Italy, southern Tuscany



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Modern use: biomass for bioenergy

Po plain, northern Italy



Czech Republic

Short-rotation willow coppice for biomass production



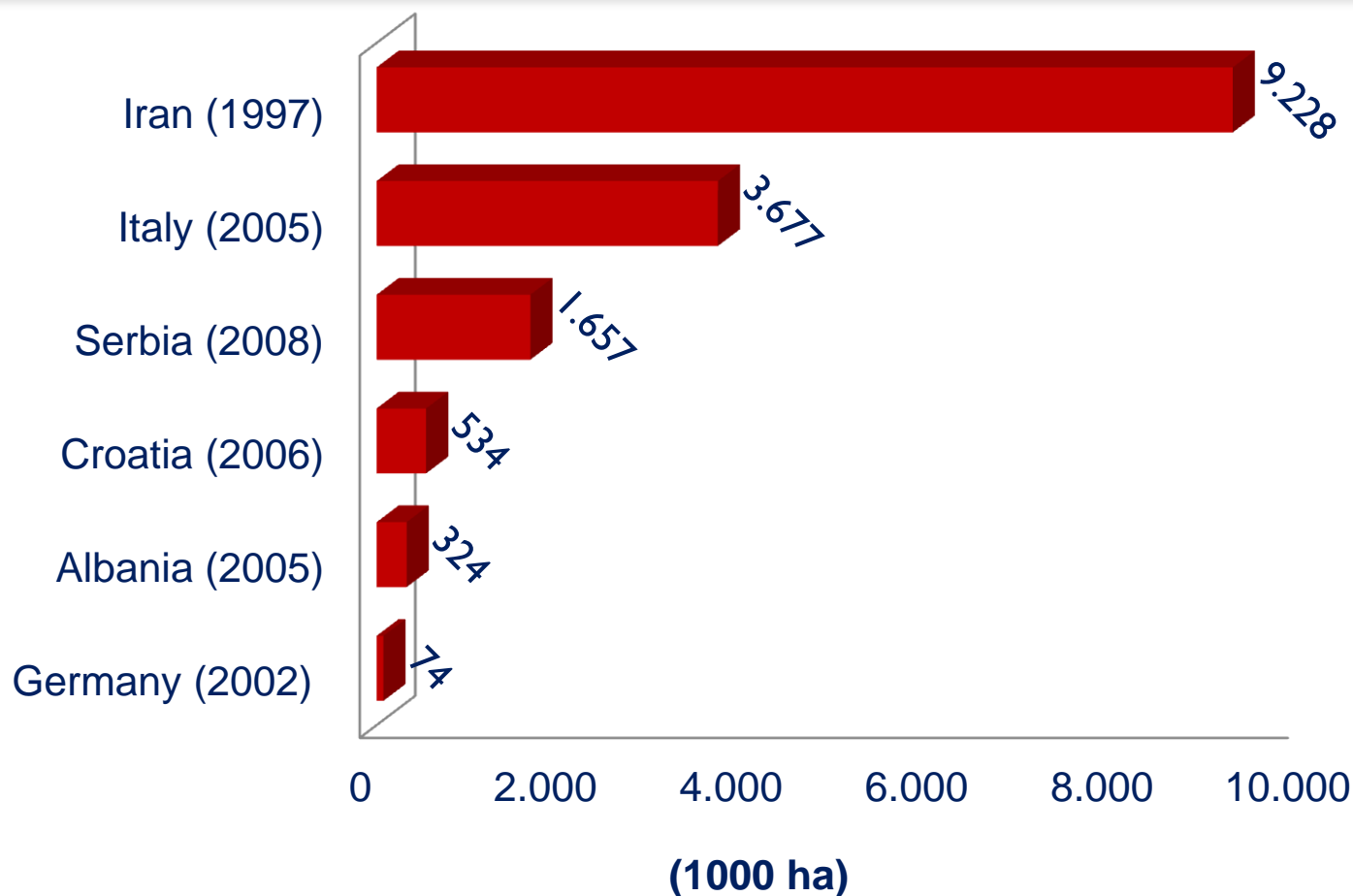
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Coppice forest : the unknown ecosystem

- extent and classification of coppice forests ?
- modern silvicultural and management techniques ?
- forest policy goals ?
- individual goals of forest owners ?



Reported areas of coppice forest

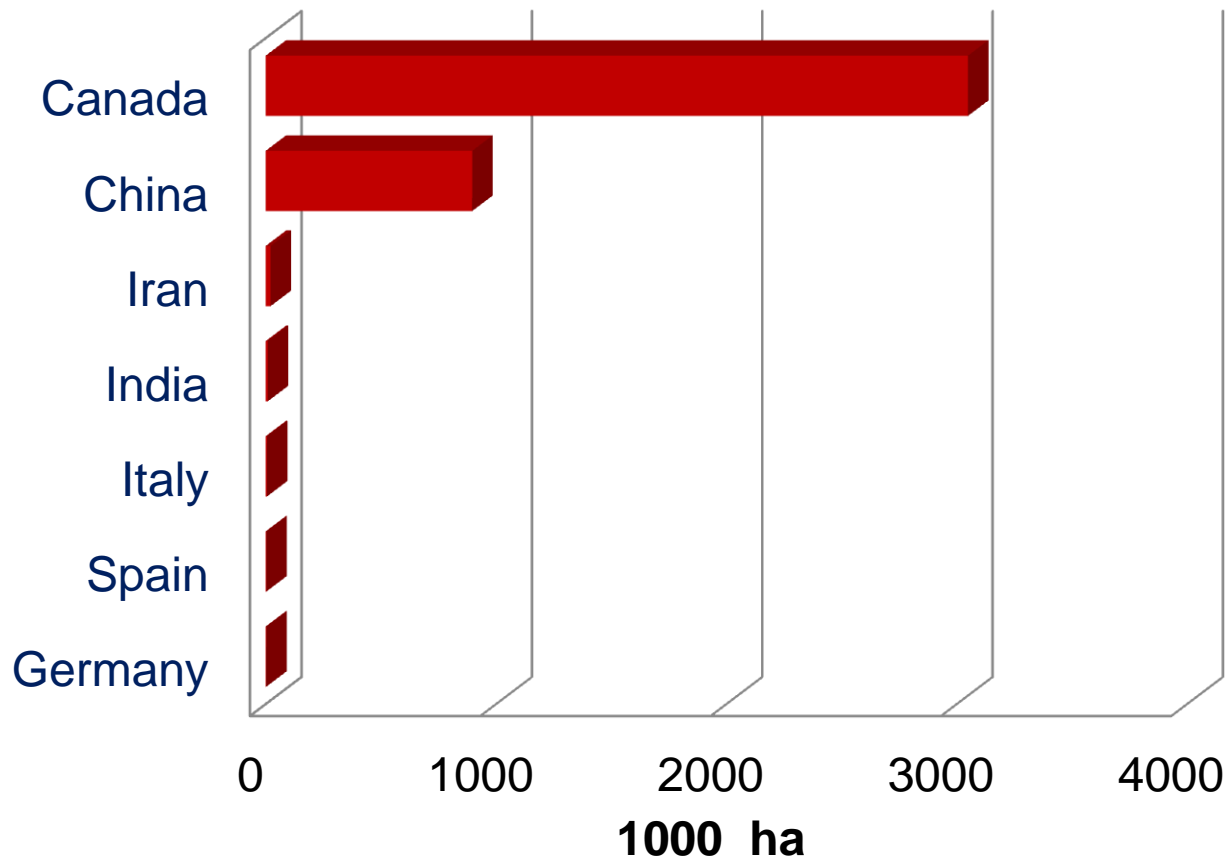


Source: Country reports for FRA 2010; Germany: Bundeswaldinventur 2, incl. coppice and coppice-with-standards forest



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Poplar for fuelwood/biomass in short rotation coppice (SRC)



Source: International Poplar Commission 2012
<http://www.fao.org/forestry/ipc/69946@186073/en/>



Classification of coppice forest

Frequent types

1. Oak/hornbeam
(*Q. petraea*, *C. betulus*, *Sorbus* spp.)
2. Chestnut (*Castanea sativa*)
3. Beech (*Fagus silvatica*)
4. Poplar and willow
(*Populus* & *Salix* clones)





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Classification of coppice forest

Special types



5. Alder (*Alnus glutinosa*) on riverine sites



6. Maple/ash/elm/linden (*Acer*/*Fraxinus*/*Ulmus*/*Tilia*) at fertile/high altitude sites



7. Hazle nut (*Coryllus avellana*) as commercial plantations



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Management challenges

- Coppicing = harvesting & regeneration
- Small, isolated areas; steep slopes or riverine zones with difficult access
- Protective status → restricted management input
- Low DBH, small unit volumes, harvest loss-making
- Damage by browsing
- Sustainability on sites with poor nutrient supply ?



Conclusions – coppice forests

- First community owned forests
- Environmental and economic products
- Significant, enriching element of multifunctional forest management
- In times of climate change they contribute to risk diversification and sustainable landscape functions
- Positive attributes are good arguments for high public acceptance
- Knowledge on areas, forest types, management and forest policy insufficient



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Thank you for your attention !



FAO, Rome