

Coppice utilization and products

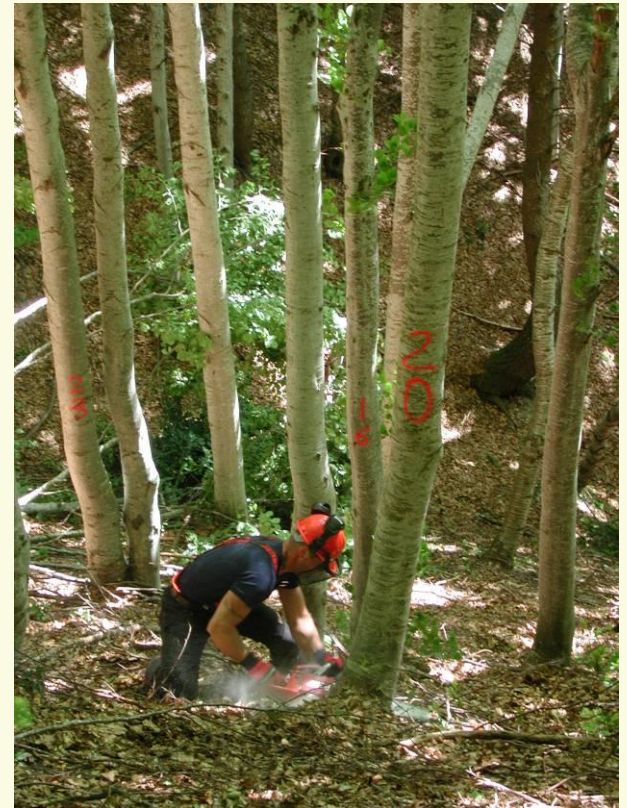


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Innovative management and multi-functional utilization of traditional coppice forests
Cost Action FP1301 - Florence, 26 Feb 2014

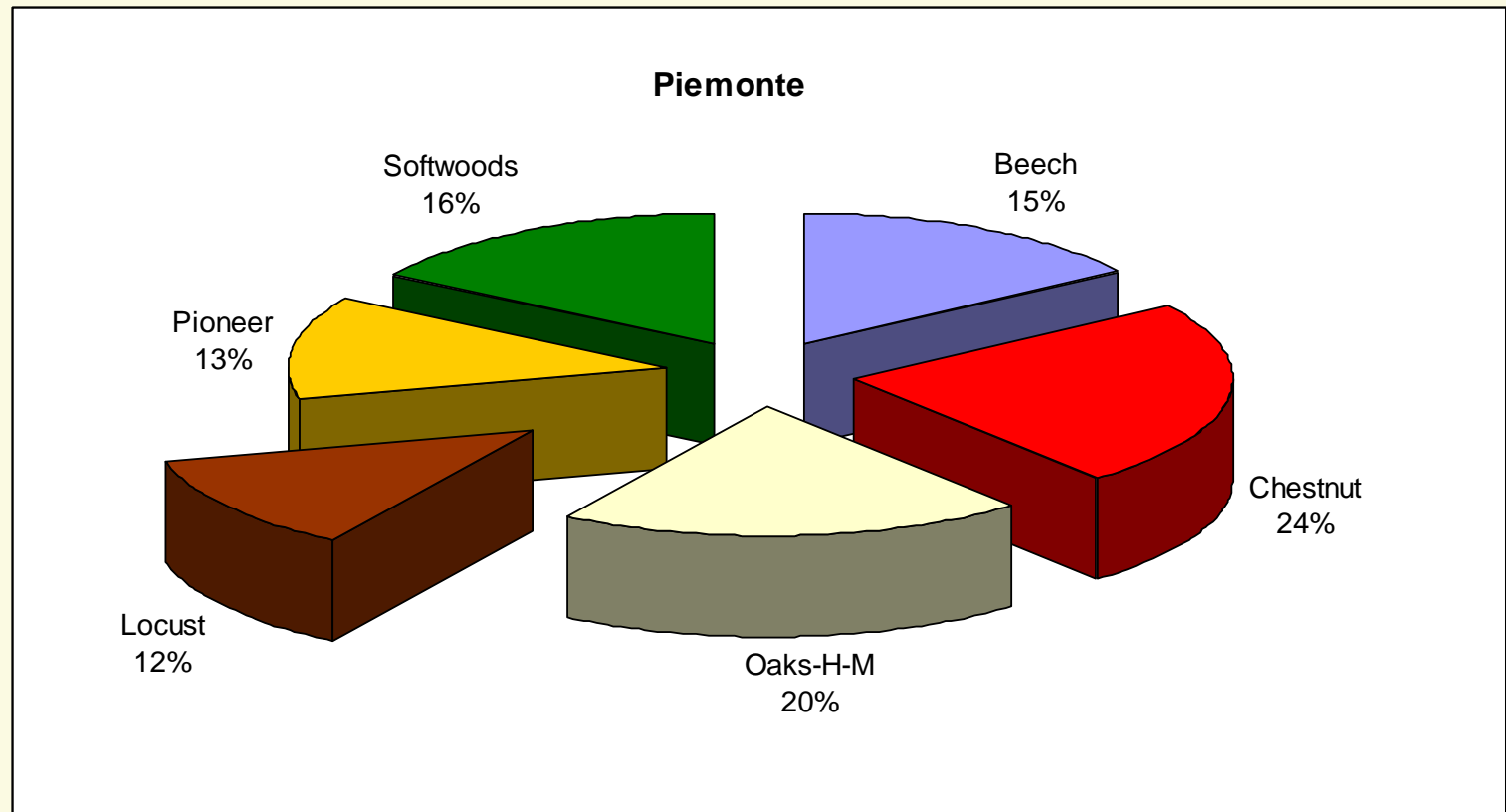
Traditional coppice

- 📄 Oak, Chestnut, Beech etc.
- 📄 15 to 40 years rotations
- 📄 12-30 cm DBH
- 📄 70-250 m³/ha



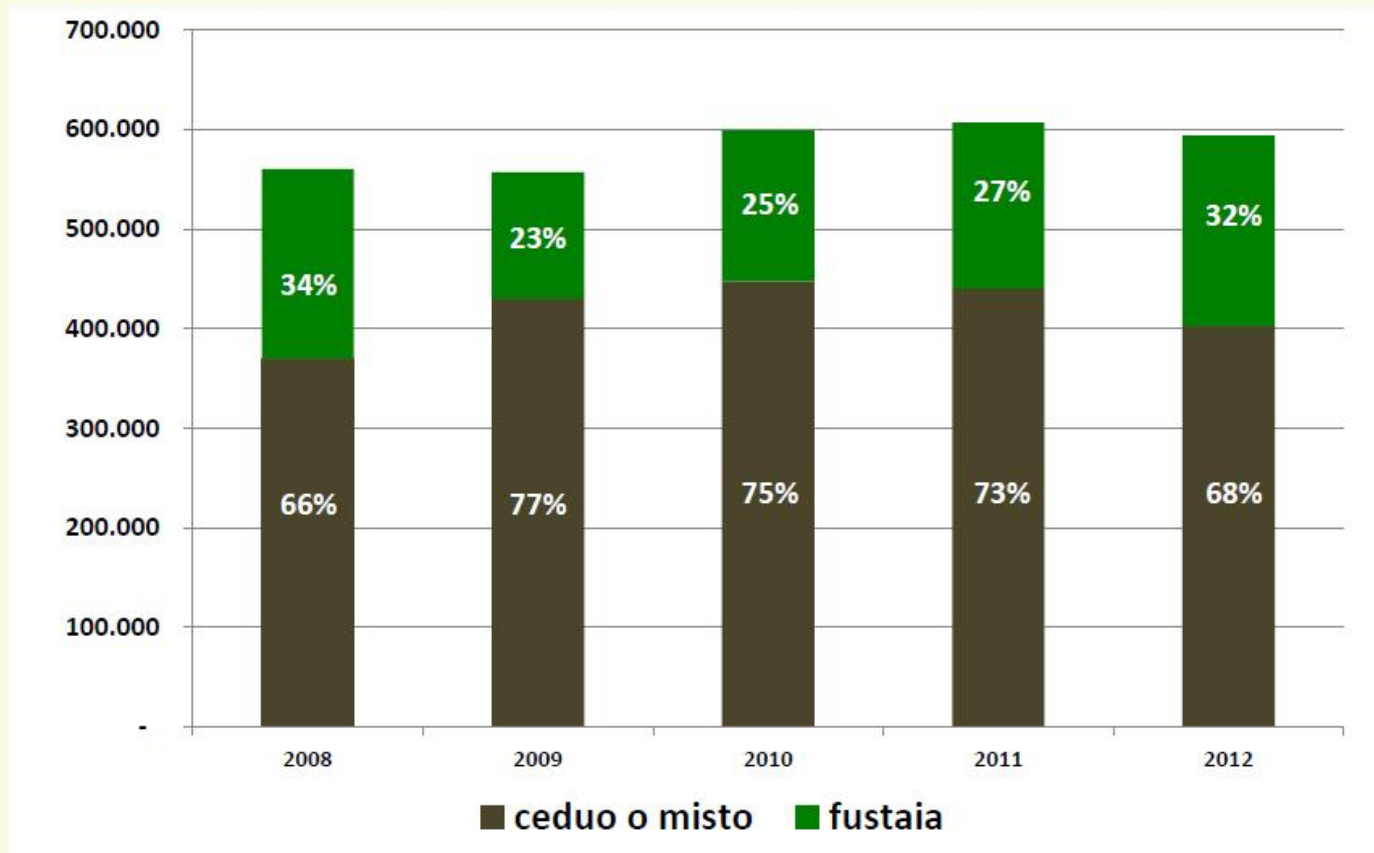
A most widespread forest type

 In Northern Italy, Alps



An important economic role

📄 In Northern Italy, Alps (Lombardia)



Many possible products



Product choice

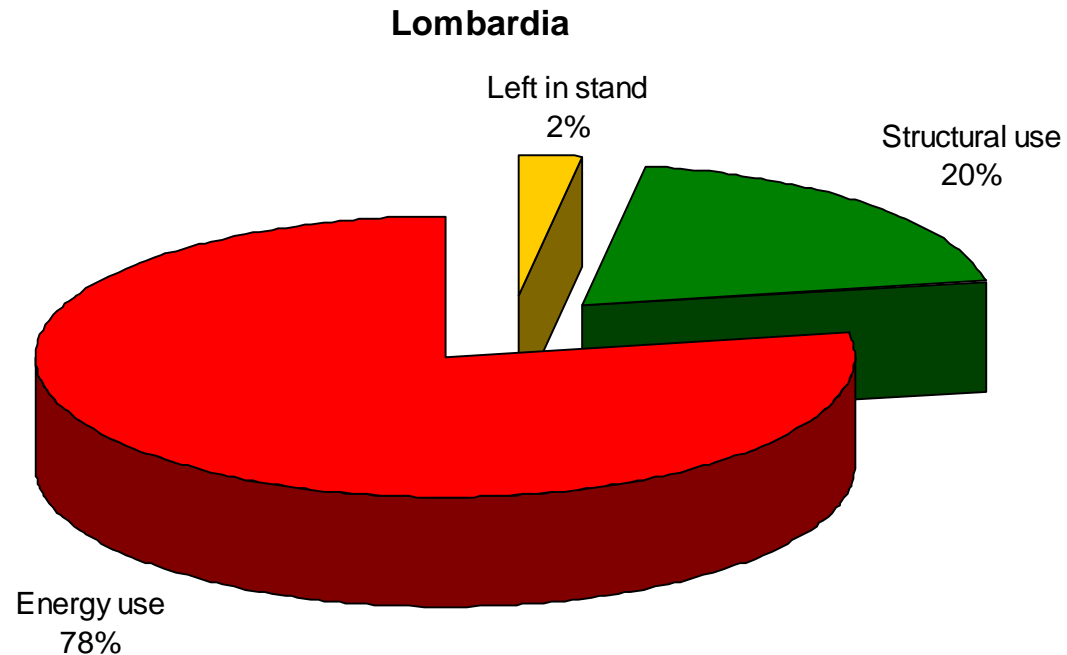
- 📄 Price - Conditions
- 📄 Absorbed volumes
- 📄 Distance to market



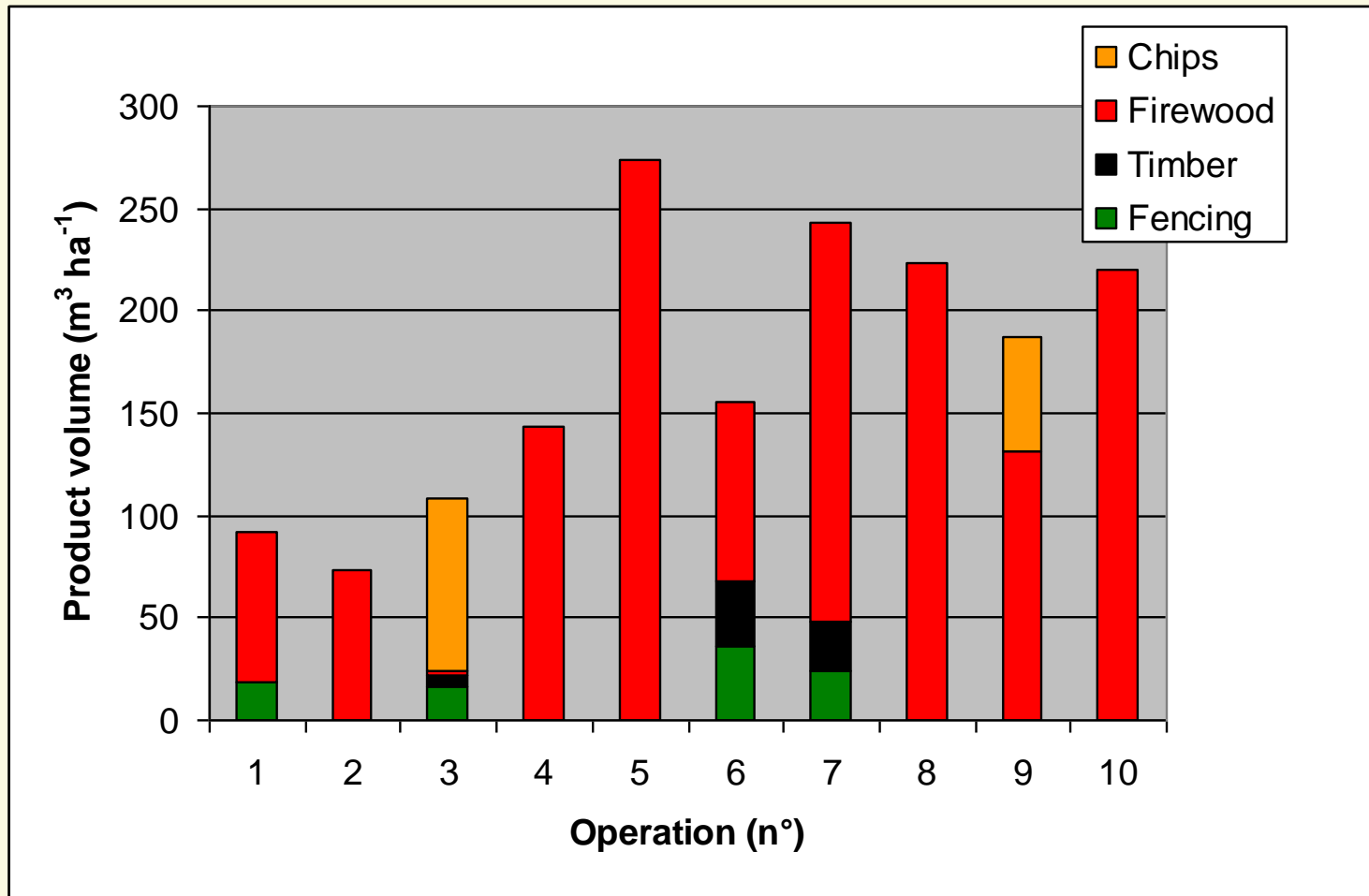
The winner is...




In Italy, at least



In more detail...



Prices & Demand

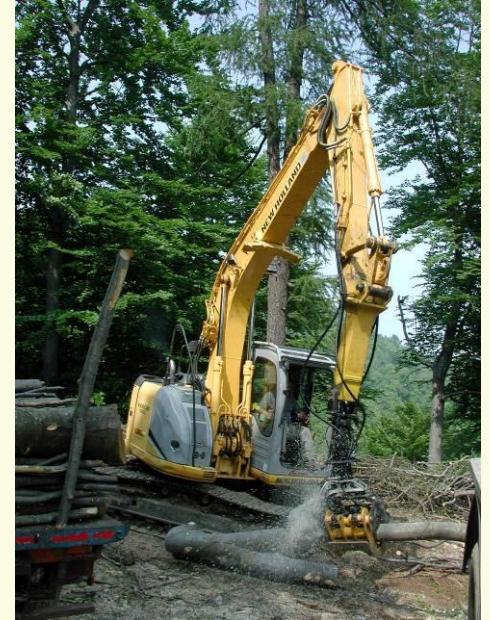
 18M t firewood, 3M t chips (Italy)

Operation	Fencing	Timber	Firewood	Chips	Stand
1	70	-	67	-	Chestnut
2	-	-	73	-	Chestnut
3	55	100	65	75	Chestnut
4	-	-	77	-	Beech
5	-	-	80	-	Beech
6	65	-	73	-	Chestnut
7	80	98	59	-	Chestnut
8	-	-	80	-	Beech
9	-	-	80	55	Beech
10	-	-	48	-	Chestnut

Harvesting: traditional



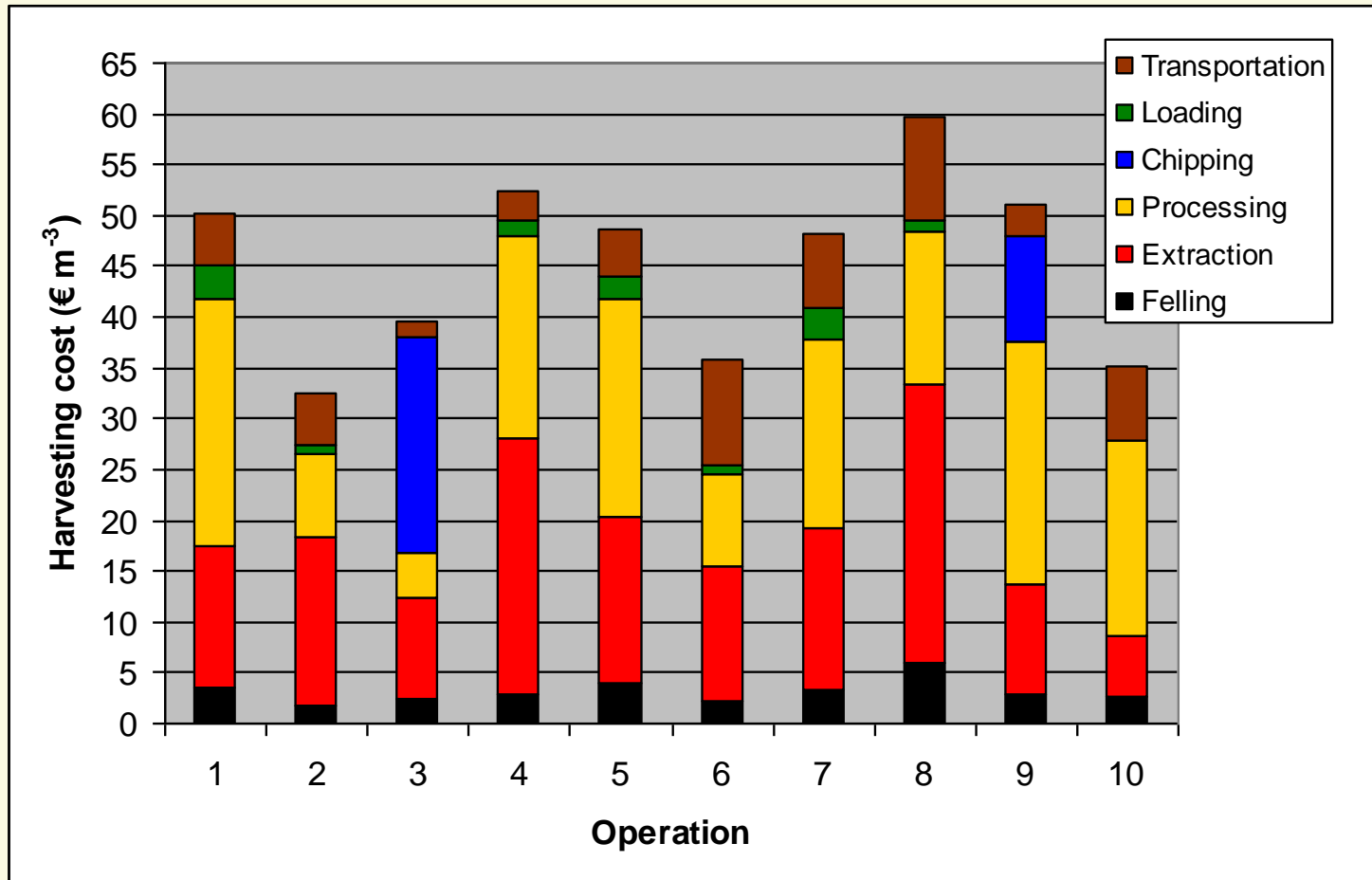
Harvesting: today



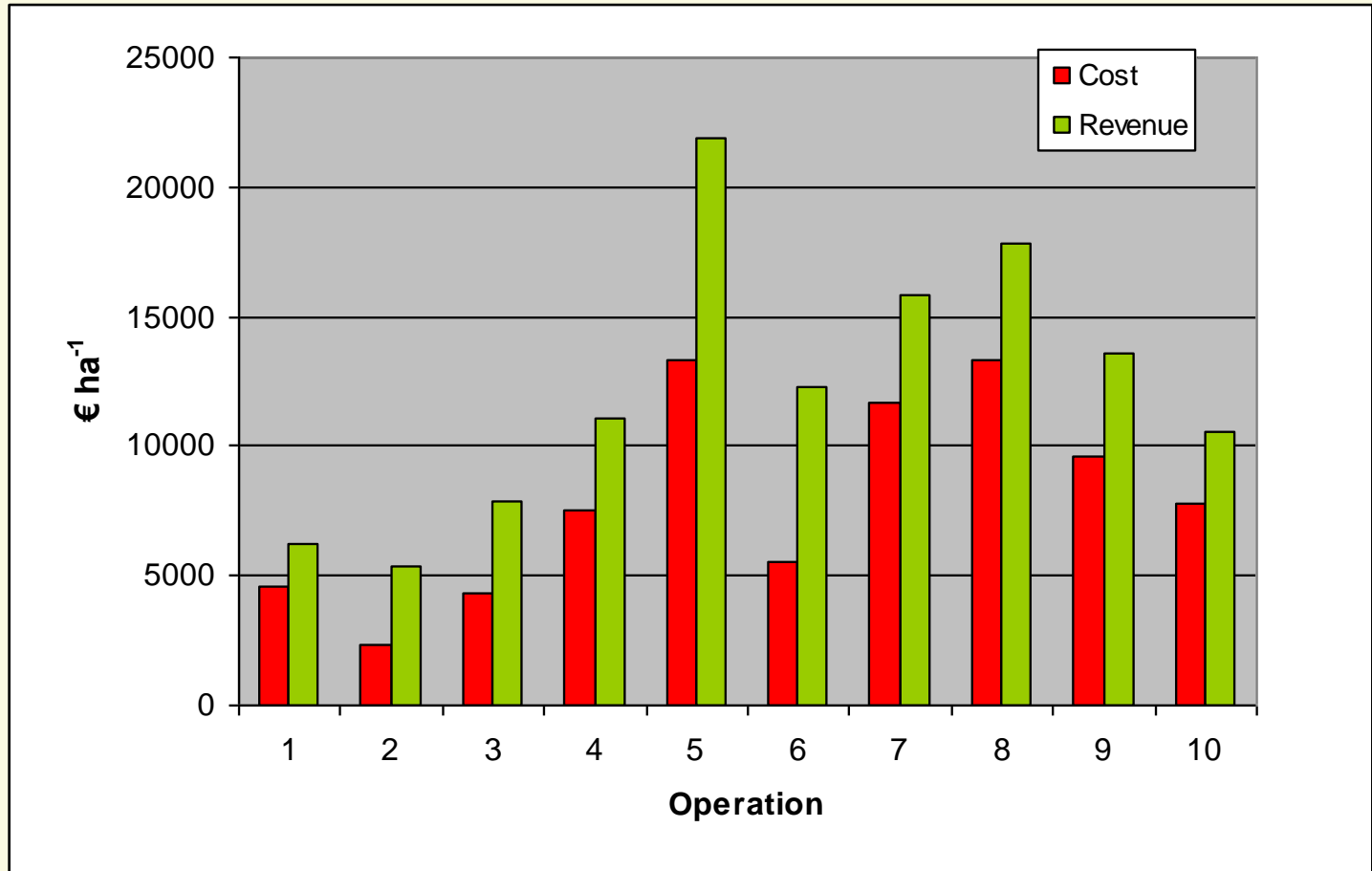
Small-scale options



Harvesting cost



Economically-viable operations



Increase economic reach

- Operations develop along roads (Lombardy 2012)
- The problem is most severe with beech (altitude)
- ⇒ Build roads



Technical challenges

 Mechanized processing?



Real technical challenge



Real technical challenge



The best bet?



Conclusions

- ❏ Large economic potential
- ❏ Maxime value recovery
- ❏ Reduce cost
- ❏ Mechanization, biomass
- ❏ Firewood

