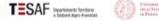
INTERNATIONAL CONGRESS ON CORK OAK TREES AND WOODLANDS Sassari, 26 May 2017

### Cork oak certification in the Mediterranean basin: state of the art and market trends

Davide Pettenella, University of Padova Ilaria Dalla Vecchia, FSC® Italia

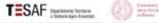




#### **Outline**

- Introduction
- Global view (from STARTREE project)
- Marketing issues
- The case of FSC®
- Conclusion

Slides can be download from the web: search "pettenella"





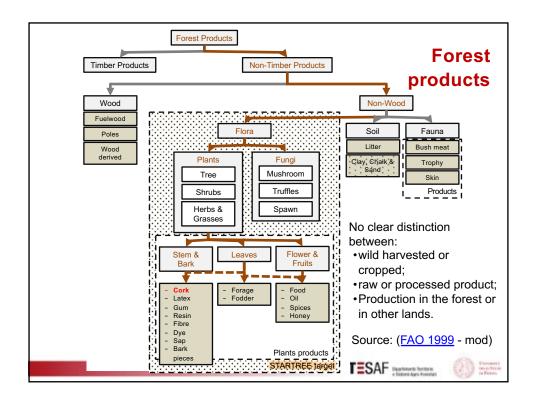
### **Outline**

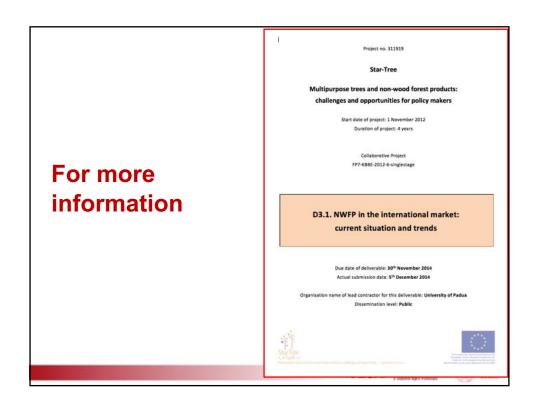
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#### **Cork production and productivity**

Country	Forest Areaª (1000 ha)	%	Alternative data (1000 ha)	Production (1,000 tons) <sup>c</sup>	%	Alternative data (1,0000 ton)	Productivity (ton/ha)
Portugal	737,000	34%		99,600	49.6%	187,000 <sup>d</sup>	0.14
Spain	574,000	27%		61,300	30.5%		0.11
Morocco	383,000	18%		11,700	5.8%		0.03
Algeria	230,000	11%		9,800	4.9%		0.04
Tunisia	86,000	4%		7,000	3.5%		0.08
France	65,000	3%		6,200	3.1%		0.10
Italy	65,000	3%	160,000b	5,200	2.6%		0.08
TOTAL	2,119,000	100%		201,000	100%	340,000 <sup>d</sup>	0.09

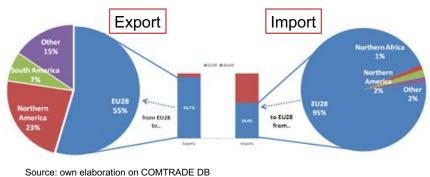
- Sources:
  a: Cork Quality Council <a href="https://www.corkqc.com/pages/industry-statistics">https://www.corkqc.com/pages/industry-statistics</a>
  b: IMFC 2015
  c. APCOR <a href="https://www.apcor.pt">www.apcor.pt</a>
  d. Amorin web site <a href="http://www.amorim.com/en/why-cork/cork-oak-forest-area/">http://www.amorim.com/en/why-cork/cork-oak-forest-area/</a>





## Imports and exports' partners for stoppers with respect to global trade

Cork stopper is the most valuable cork product exported from EU28. It accounts for the 94.7% of the global export of the cork in which **55% is traded within EU** (2011).

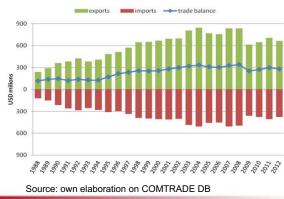


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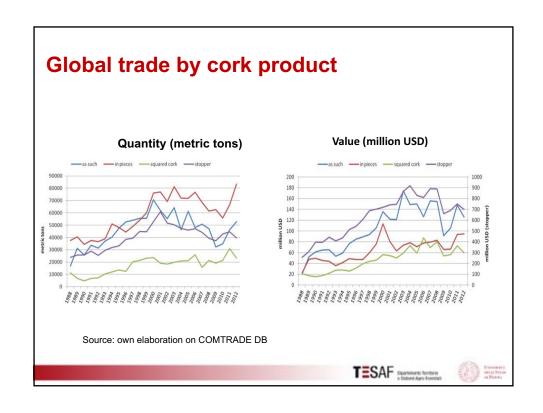
#### EU28 total imports, exports and trade balance for stoppers (million USD)

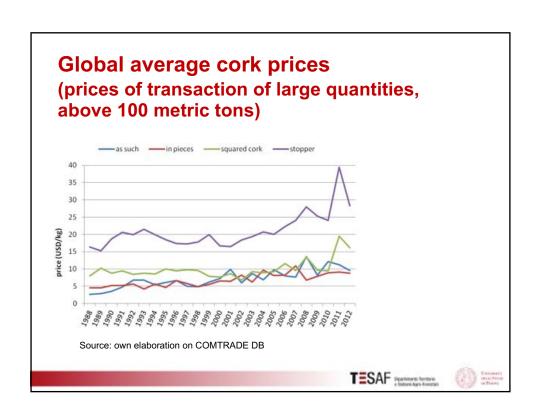
The EU28 trade balance accounts for 300 M US\$, a value quite stable over time



TESAF Dipartments formula







#### **Bottle stoppers** (>70% of the value of total production)

Since 2003 cork market prices have declined 30% due to the economic crisis

A comparison of the different segments of the cork industry based on Portuguese estimated revenue in 2015

	Value (M €)	%
Wine stoppers	€ 644	72%
Building materials	€ 228	25%
Raw materials	€9	1%
Other products	€ 18	2%
TOTAL	€ 899	100%

Source: Cork Quality Council https://www.corkgc.com/pages/industry-statistics





# 

#### Global export and import top 5 countries of cork stoppers

Portugal is the main exporter, followed by Spain, France and Italy, though Italy disappeared from the top 5, due to the internal demand of cost stoppers for the expanding wine sector. The main importers are France and US.

#### **Export** (million of USD)

2000	0	2005		2010	)	201:	2
Portugal	502	Portugal	592,1	Portugal	483,1	Portugal	524,0
Spain	58,6	Spain	79	Spain	81,6	Spain	87,7
France	53,7	France	38	France	33,2	France	27,9
Italy	28,5	Italy	29,3	Italy	29,1	USA	17,5
Germany	16,2	Germany	18,9	USA	13,5	Germany	9,4

#### **Import** (million of USD)

2	000		2005		2010	)	201:	2
Fra	nce	192,7	France	205,3	France	189,5	France	181,3
ι	JSA	115,6	USA	146,1	USA	137,4	USA	150,1
Austr	alia	58,8	Spain	73,1	Spain	49,7	Spain	47,0
Sp	oain	55,4	Australia	55,5	Italy	46,3	Italy	44,8
Germ	any	52,1	Italy	45,1	Chile	30	Portugal	38,0

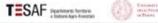
Source: own elaboration on COMTRADE DB





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### **Marketing issues**

- A territorial concentration (duopoly): P and SP (61.2% of the cork oak forests; 85.6% of the production; **98.5%** of stopper production – CE Liege)
- A regional specialization: Alentejo,
- (P), Andalusia, Extremadura, Catalonia (SP) [Sardinia (I)] Cork oaks were planted in California, Chile, China, RSA and Australia but plantations in all these countries failed so far to produce cork of good quality
- In the **processing industry**, an even stronger concentration





### Marketing issues: a strongly competitive market

External competition (plastic and metal stoppers), frequently based on ambiguous arguments (sustainability)







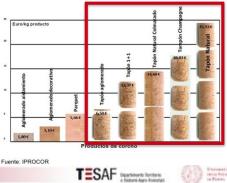


# Marketing issues: a strongly competitive market

 External competition (plastic and metal stoppers), frequently based on ambiguous arguments (sustainability)

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Internal competition



A "stopper-dependent sector" (Maria Carolina Varela et al., 2107)

Marketing issues: a strongly competitive market

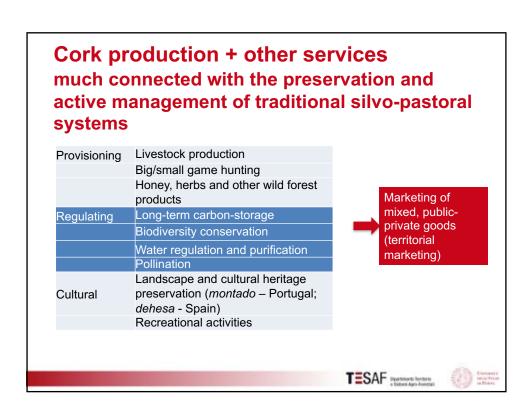
- External competition (plastic and metal stoppers), frequently based on ambiguous arguments (sustainability)
- Internal competition
- Impressive product innovation patterns

(quite rare in other sectors of the rural economy)











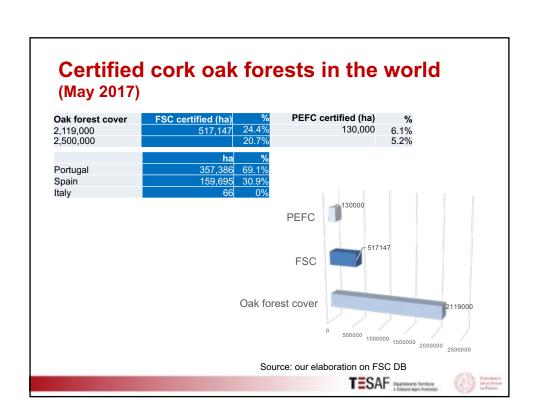


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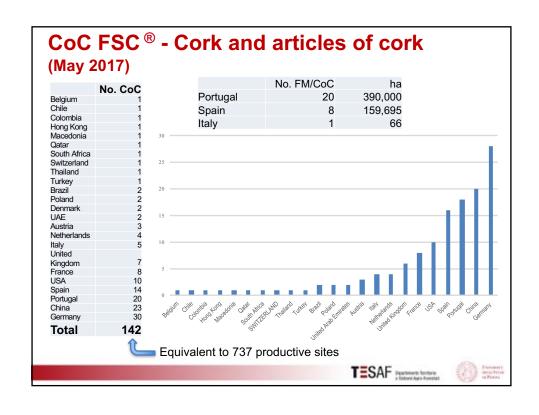


### Main threats from the experience of FSC® certified cork forests

- Over-grazing
- Intensive shrub clearing to reduce wildfire risk (with the use of heavy machinery)
- Wildfires
- Shrub encroachment
- Expansion of exotic grasses
- Over-collection of acorns for human and animal consumption
- Cohorts of trees reaching age limits (ageing)
- Inadequate management practices







#### **New interesting marketing developments**

#### 3 case studies:

- Cork certification and collective action: the case study of ADEHFCO in Spain
- Cork certification and PES: The WWF Green Heart of Cork project in Portugal
- Cork certification: from premium to mass markets: The case of Amorin and Freschello in Italy
- Cork certification: from one initiative to a structured and holistic approach to CSR The case of Salcheto in Italy



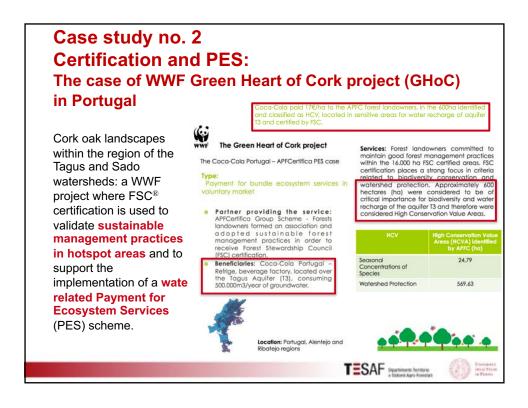


#### Case study no. 1 **Certification and collective action:** the case study of ADEHFCO in Spain

Asociación de Dehesas Ecológicas (ADEHECO): 120,000 ha, 425 members in the provinces of Huelva, Sevilla, Cádiz, Córdoba and Málaga.

FSC certification of cork oak forest is reinforcing the tourist immage of the area: "Los que se dedican al turismo rural lo ven fundamental pues el turista extranjero valora mucho esta certificación. Para ellos, más que algo interesante es una necesidad" as well as the sales of meat product (the ADEHFCO secretary)







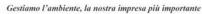
#### Case study no. 4

Certification: from one initiative to a structured and holistic approach to CSR

The case of Salcheto in Italy

Certified FSC® products: stoppers, packaging, labels, folders, business cards, paper. SOSTENIBILITÀ





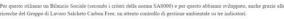






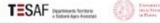




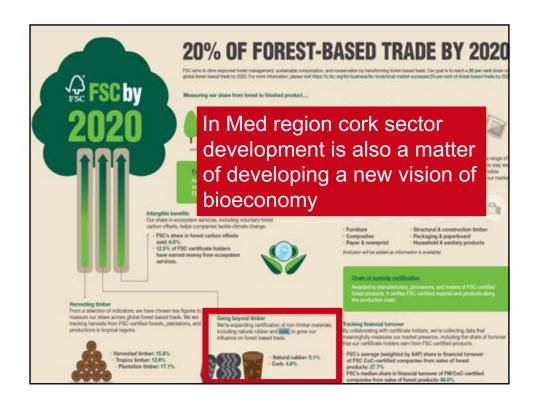


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	n in bioeconomy	<b>,</b>
	Technological approach	Social approach
Focus on	Technological innovations, large scale investments	Social innovations, small scale, high added value P&S (→ low risk)
Vertical vs. horizontal relations	value chain perspective; sectoral development; vertical integration	network economy, inter-sectoral development; horizontal integration
Diversification output and inputs	Industrial products as the main goal of production; diversification in outputs	Diversification in the use of inputs (wood, but also NWFP, ES,) and not only of the outputs
Market power	Increased market power of the industrial companies controlling the advanced technologies (→ high risks connected to the companies consolidation trends)	Balanced market power among the various diversified operators (→ reduced risk due to diversification)
Model regions	UK, Scandinavian countries	Mediterranean countries, mountain regions
Examples	Innovation assessment approach by the EU Eco Innovation Observatory (http://www.eco- innovation.eu/)	Local Action Groups (Leader+ approach - http://enrd.ec.europa.eu/enrd-static/leader/en/leader_en.html)
Drivers	Patented (private) R&D initiatives, with public support	Public-private initiatives in education, training and non-patented innovations

