

AvH Kolleg 2018
"Sustainable Development and Climate Change:
Connecting Research, Education, Policy and Practice"

# Marketing ecosystem services: from business ideas to the real market

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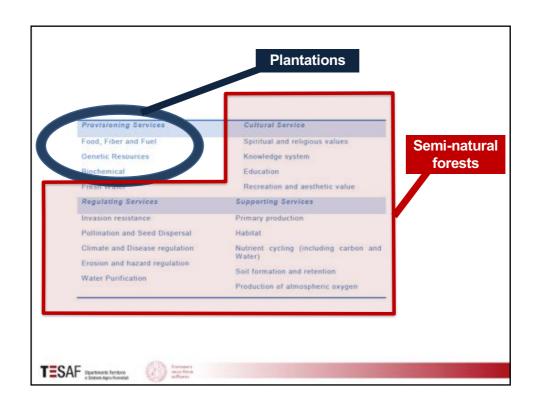
### **Outline**

- Background: new patterns in the demand of forest products and services
- 2. Some examples
- 3. How to support nature-based entrepreneurship
- 4. Final remarks



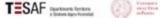






## **Role of plantations in some European COUNTRIES** (Martinez de Arano et al., 2018 and Pra, 2018)

- 75% of Portuguese and Spanish industrial roundwood production
- 42% of the total French softwood production
- In Italy: 50-70% of industrial roundwood production is coming from 60-80,000 ha of poplar plantations (50-30% from the 11,8 million ha of semi-natural forests)





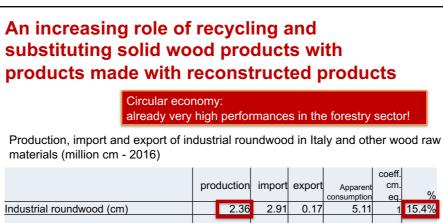
# Forest products and services: new demand patterns in an affluent society

Provisioning services: slowly increasing final demand of wood + recycling and substituting



TESAF Illustration furthers and furthers and

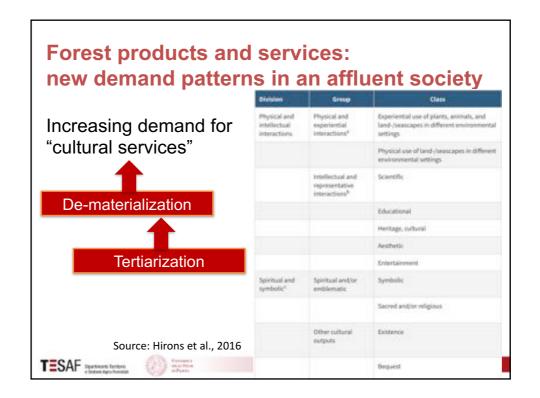


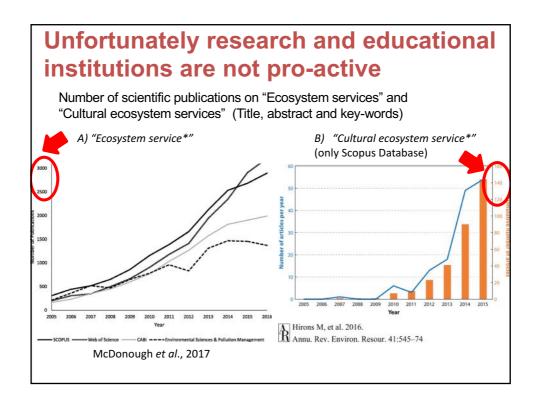


15.4% 3.1% Chips, particles, wood waste (cm eq.)\* 1.06 0.18 0.19 Recovered fibres from pulp and paper 2.16 25.5% production (cm eq.) 8.45 8.46 1.32 7.37 18.57 3.8 56.0% Waste paper and paperboard (cm eq.) 24.62 Total wood raw material for industrial use 4.42 7.74 33.17 100%





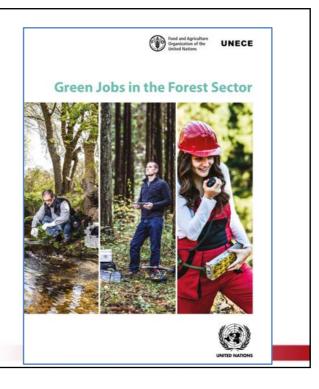






A raising awareness by international organizations

TESAF Equation fundors of Basic Agric Foods and Test States of Tes



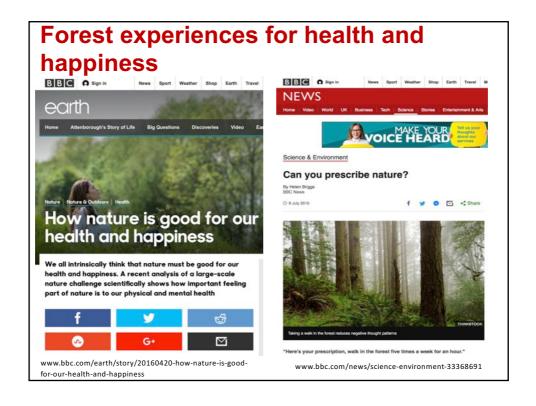








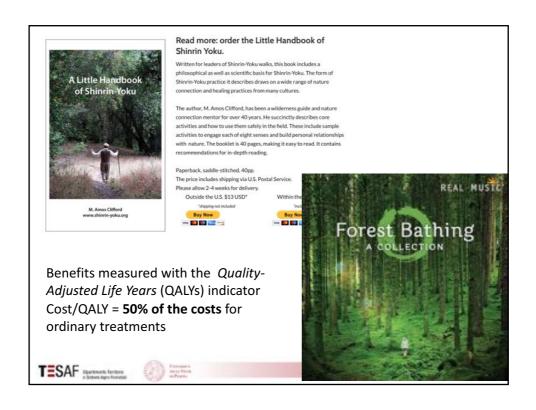




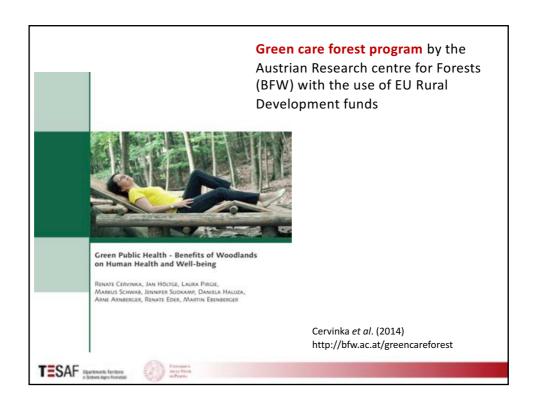




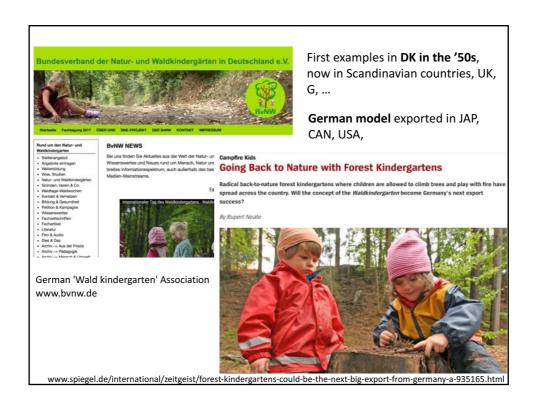


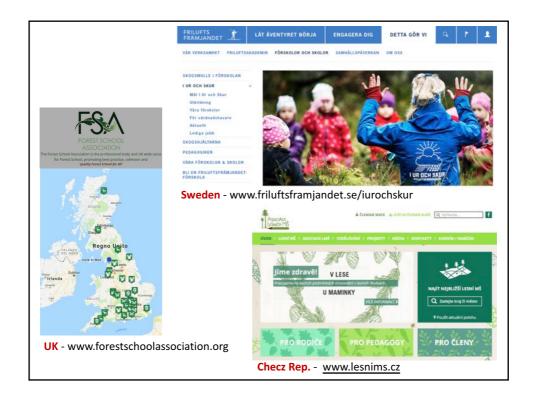




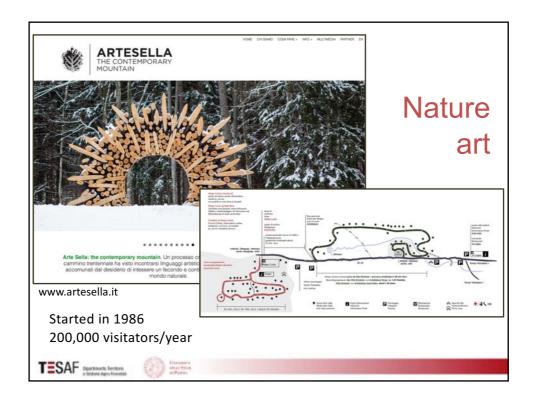




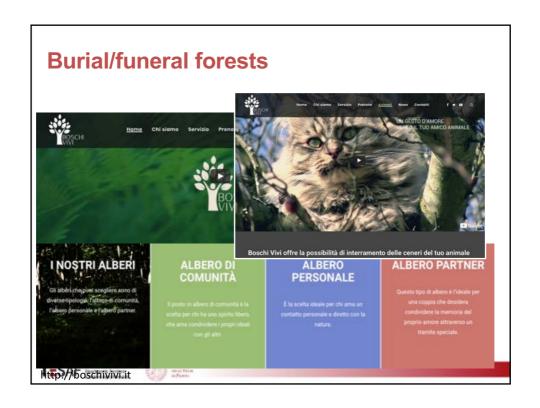




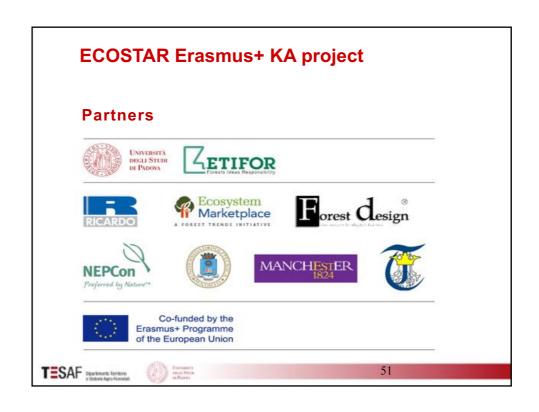












# 1st step **Training Needs Assessment in EU**

Entrepreneurship gaps in 14 forestry departments:

- Evaluation of university commitment to entrepreneurship education: medium-low
- 80% of respondents consider that entrepreneurship could be a useful field of study within their university curriculum
- 27% with specific courses made available by their university (12% within their faculty/school)

More info at: www.ecostarhub.com/reports/





### 2<sup>nd</sup> step: an e-course

aimed at guiding students and professionals to acquire high level entrepreneurial skills by working with private sector, to convert innovative ideas into successful business plans for impact investments, in the field of **ECOSTAR** natural resources



### **ECOSYSTEM SERVICES AND PRODUCTS:** FROM IDEAS TO BUSINESS

The first international course that helps you value nature!

An online course providing continuous interaction with top international professors, experts and company directors specialized in the fields of forestry and ecosystem services and products.

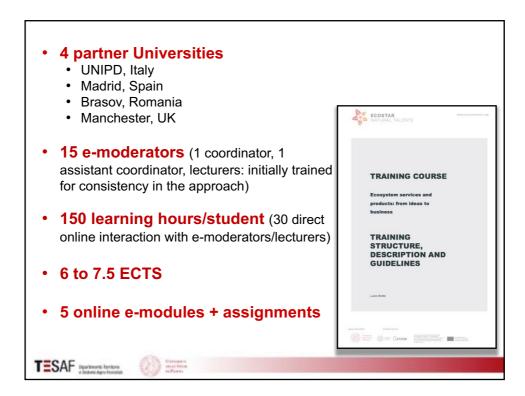
The course guides you to create innovative business ideas in the following sectors:

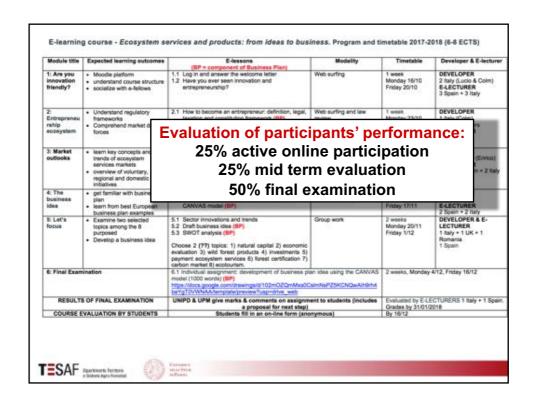
https://www.ecostarhub.com/

- natural capital economic evaluation
- sustainable investments
   wild forest products
- payment for ecosystem services
   forest certification
   carbon market
   ecotourism

TESAF Electronic fortices







### **Participants:**

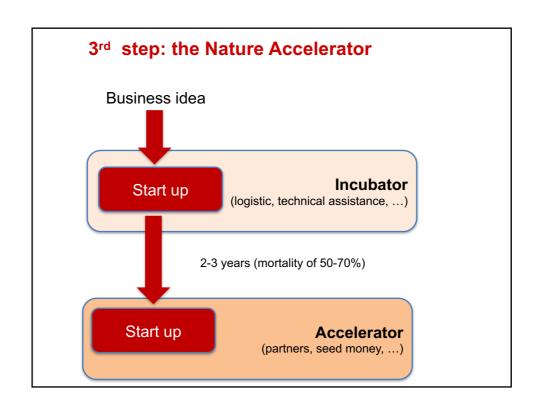
- 171 involved participants & lecturers
- · 156 enrolled participants
  - 67% students formally enrolled in a University (BS, MSc and PhD)
  - 33% non students (e.g., entrepreneurs)
- 135 active participants
- 69 participants who completed the e-course (51.1 %)
- 26 nationalities (9 EU countries)

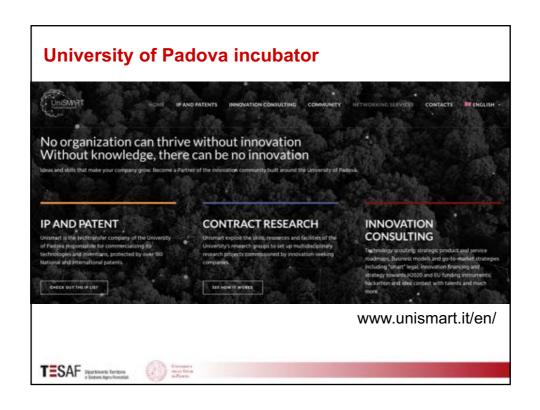
#### Level of satisfaction (anonymous evaluation form):

- 93% of participants are satisfied, the e-course met their expectations
- 78% of participants think there is not much duplication/repetition of contents with other courses













- Still great emphasis on provisioning and regulating/supporting services by policy makers, academia and forest institutions
- Several examples of niche, very innovative cultural services, rarely the outcomes of formal educational programs run by the forest schools
- To promote these services we need to integrate our curricula with topics related to entrepreneurship creation → a new role of public institutions as partners, facilitators, promoters, ... with a set of new tools that can create jobs and smart opportunities for the sustainable development of forest resources...



