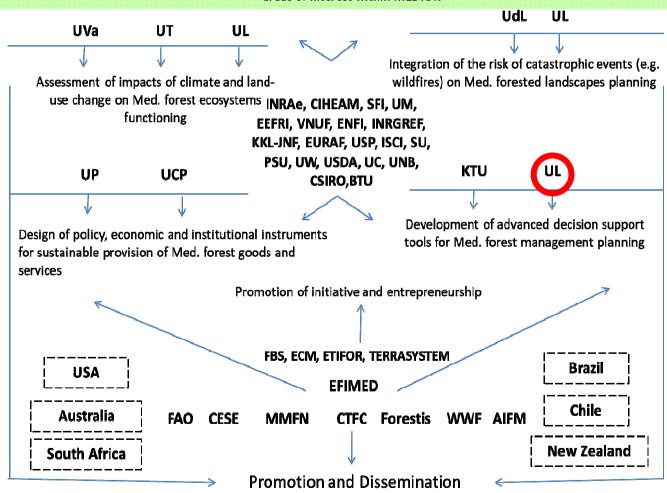
Multiple criteria decision support systems for Mediterranean forest management planning



Where does it fit within the MEDfOR Programme?

Consortium complementary roles in providing and disseminating knowledge in the core specialization areas of interest within MEDfOR



ULisbon; UdLeida; UPadua; UTuscia; UValladolid, KTUniversity; UCPortuguese

What are the learning outcomes and skills?

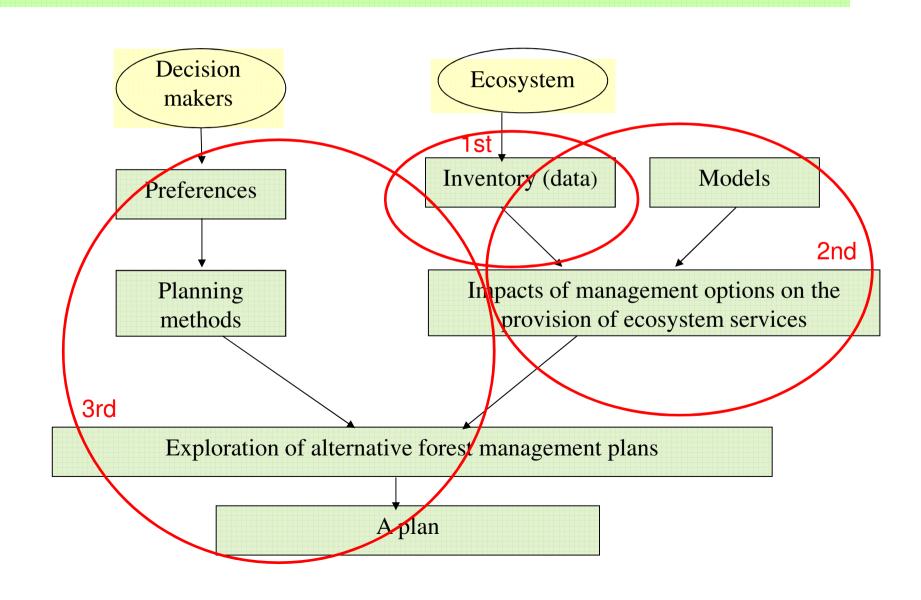
- ✓ The question you will be asked in your professional life:
- ✓ How should I manage my forest holding, landscape, park?
 - ✓ To get revenues
 - To decrease vulnerability to wildfires and/or erosion
 - ✓ To sequester carbon
 - **√** ...
 - ✓ In a context of environmental, budget,... constraints

- ✓ The specialization will provide you with the learning outcomes and skills to answer this question – how to develop:
 - An adequate schedule / plan of management options to implement in the holding, landscape, park
 - ✓ Information about tradeoffs between revenues and ecosystem services
 - Sensitivity of the plan you propose to uncertain parameters (climate change, prices,...)

Knowledge and skills needed to answer the question

- ✓ In order for you to be able to answer the question being asked by a forest owner, by a forest industry, by a park administration, by a community, by a forest or a nature conservation agency,...:
 - ✓ 1st requirement: You need to know the forest/inventory data
 - ✓ 2nd requirement: You need to know the impacts of management options on the provision of ecosystem services – models (else how may you explain why you propose a specific management option?)
 - ✓ 3rd requirement: You need to know how to compare management alternatives and make a selection according to the objectives of the entity that asked you the question – planning methods and decision support systems

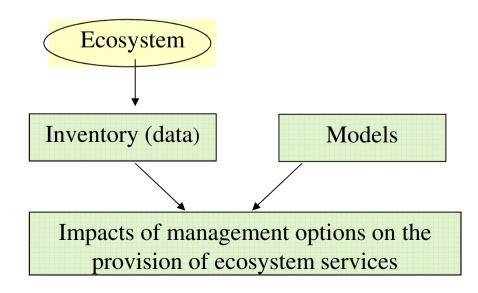
Knowledge and skills needed to answer the question



How are the learning outcomes and skills conveyed?

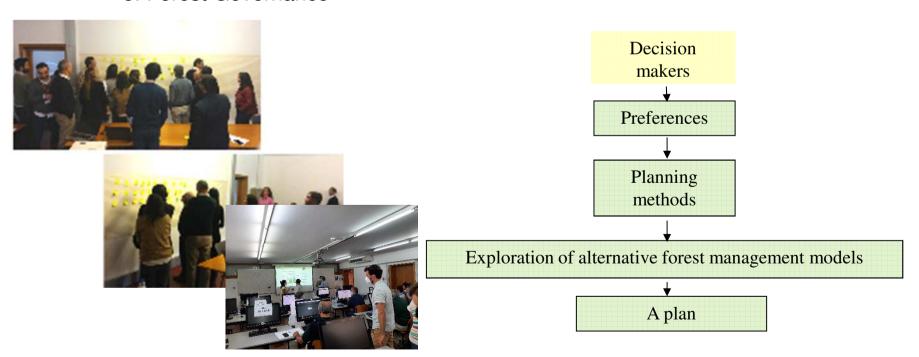
- ✓ Courses (1st and 2nd knowledge required to answer the question):
 - 1. Remote Sensing and Image Analysis
 - ✓ 2. Forest Models
 - 3. Wildfires: assessing and managing risk from prevention to restoration





How are the learning outcomes and skills conveyed?

- ✓ Courses (3rd knowledge required to answer the question):
 - ✓ 4. Natural Resources Management
 - ✓ 5. Forest Governance



Who conveys the learning outcomes and skills? - Key Faculty -



✓ Margarida Tomé Expert on Forest Models https://www.researchgate.net/profile/Margarida Tome3



✓ Emin
Baskent
Expert on Forest
Management
Planning
https://www.resear
chgate.net/profile/E
min-Baskent-2



✓ José M. C.
Pereira
Expert on Fire
Ecology and
Management
https://www.researchgate.net/profile/Jose
Pereira21



https://medforest.net/2021/03/18/terra-awarded-the-label-of-associate-laboratory-for-land-use-sustainability-and-ecosystem-services/?utm campaign=campaign code &utm content=category&utm medium=em ail&utm source=efi newsletter

✓ Research and project leaders in management boards of international organizations — European Forest Institute (EFIMED, IEFC), European Agroforestry Federation, International Union of Forest Research Organizations, International Savanna Fire Management Initiative,...

Who conveys the learning outcomes and skills?

- Regular participation of international scholars from MEDfOR Consultation Panel -



✓ Marc E
McDill
PSU, USA
https://www.resear
chgate.net/profile/
Marc McDill



✓ Keith M.
Reynolds
USFS PNW
https://www.resear
chgate.net/profile/K
eith Reynolds2



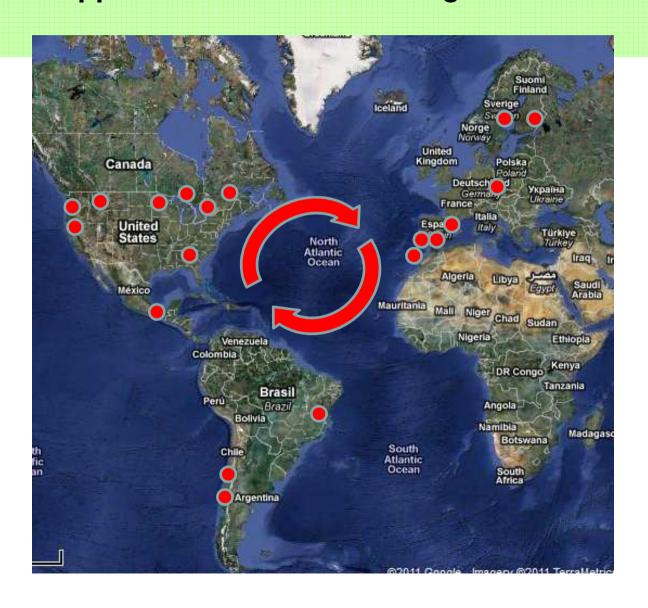
✓ Sándor Tóth UW, USA https://www.rese archgate.net/prof ile/Sandor Toth3



✓ Luiz Carlos
Estraviz R
S. Paulo, Brazil
https://www.researchgate.net/profile/Luiz Carlos Rodriguez2

Who conveys the learning outcomes and skills?

- More opportunities for networking and internships -



Recent graduates from ISA



Methods for ecosystem services auctions, project scholarship in 2020-2021 at ISA, currently developing a PhD program at the Tech University of Munich





Ecological-economic planning in agroforest landscapes, currently Head of Department at the University of Gondar, Ethiopia, starting a PhD scholarship at ISA



- Dagm Abate, Ethiopia
- Ecosystem management planning, project scholarship at ISA in 2020-2021, starting a PhD program at the Norwegian University of Life Sciences
- Olha Nahorna, Ukraine

Discussion

Course objectives and contents

- Ongoing projects the specialization may link too
 - ✓ Internship opportunities
 - Dissertation topics

Contacts at: <u>joseborges@isa.ulisboa.pt</u>, <u>vanessaborges@isa.ulisboa.pt</u>