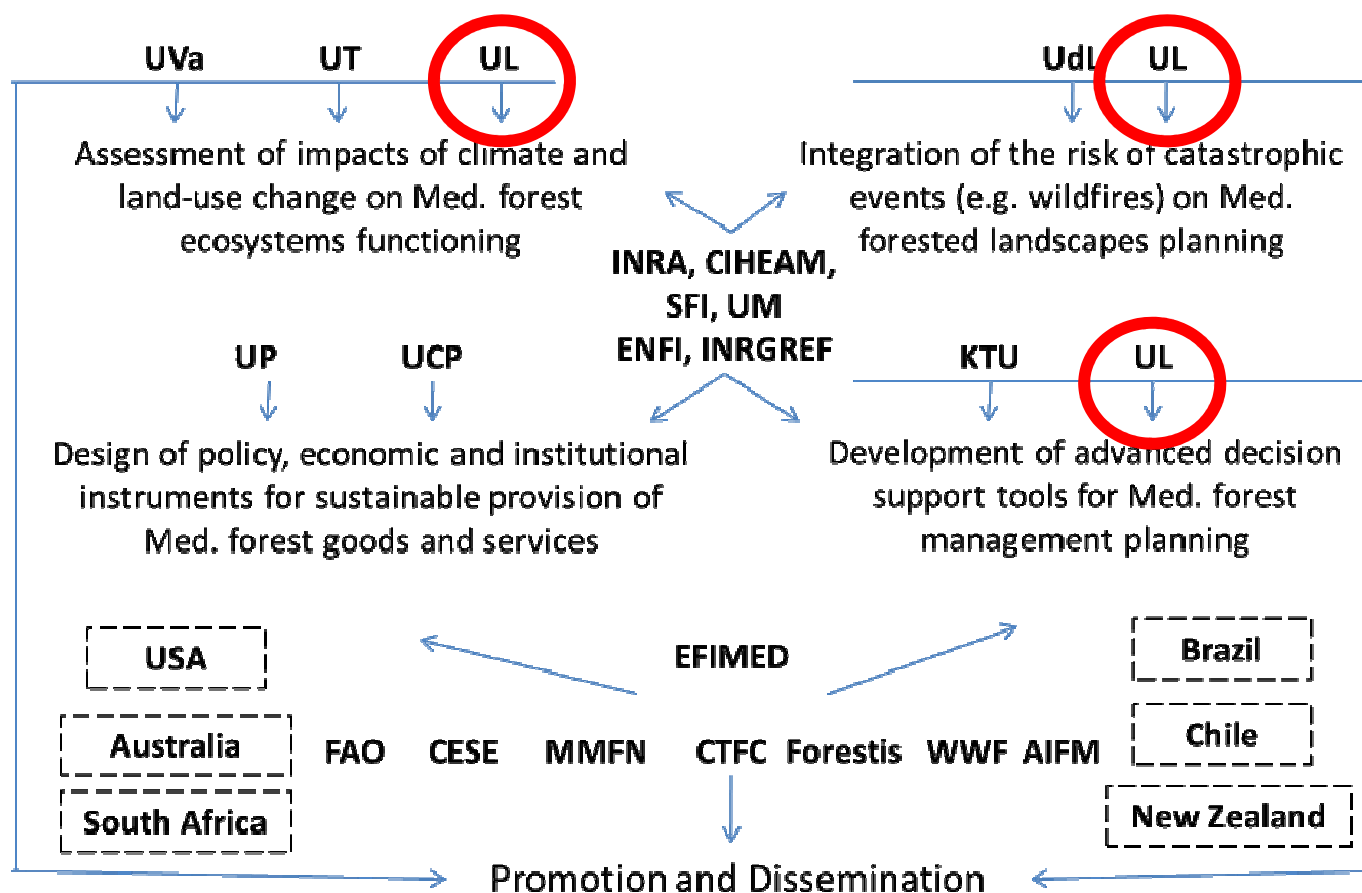


Multiple criteria decision support systems for Mediterranean forest management planning



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?

✓ To get revenues

✓ To decrease vulnerability to wildfires

✓ 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 – your answer will include:**

✓ An adequate schedule / plan of management options to implement in the holding

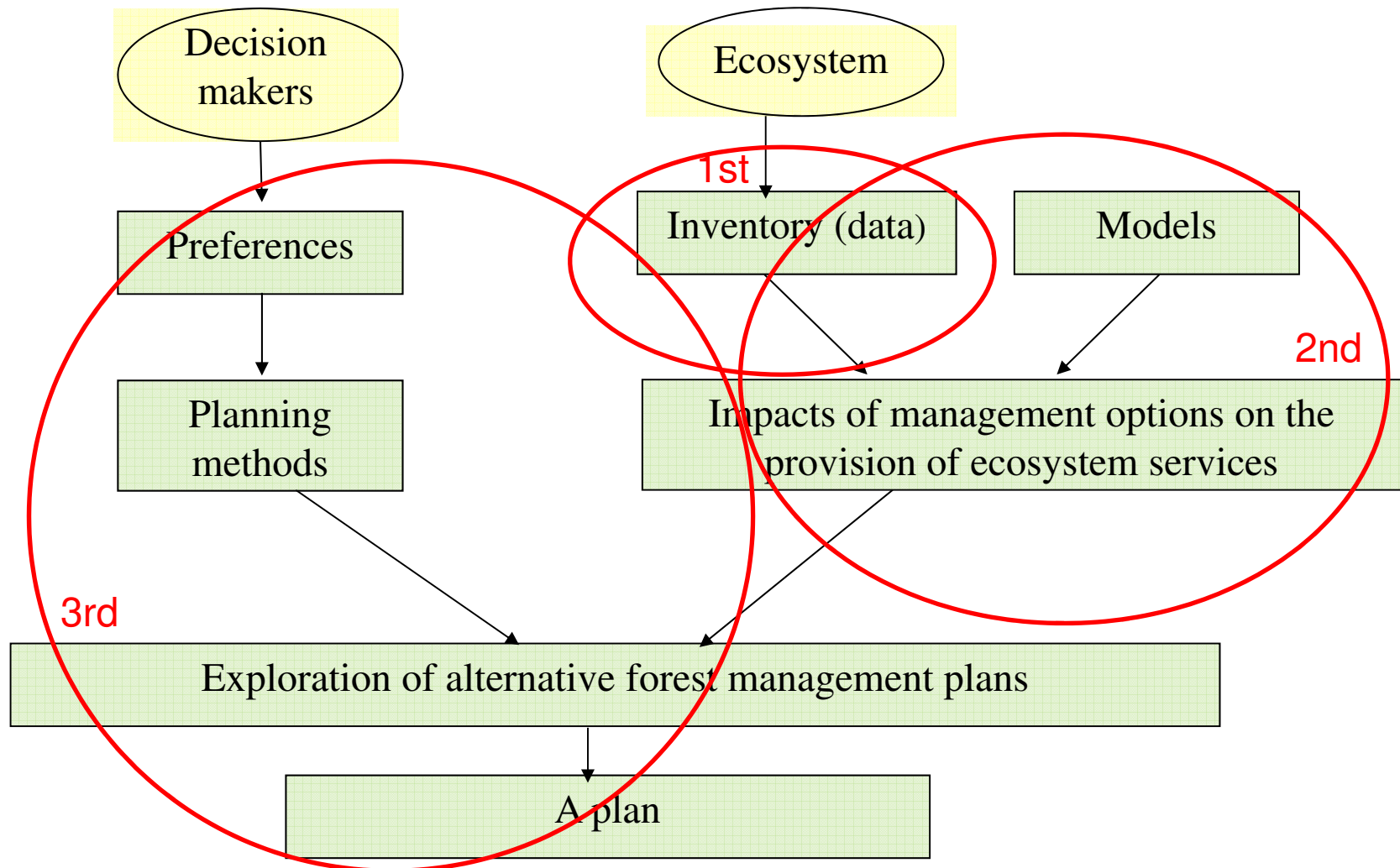
✓ Information about tradeoffs between revenues and ecosystem services

✓ 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 knowledge required: You need to know the forest/inventory – data
 - ✓ 2nd knowledge required: 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 knowledge required: 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



✓ Wood,
Biodiversity



✓ Water



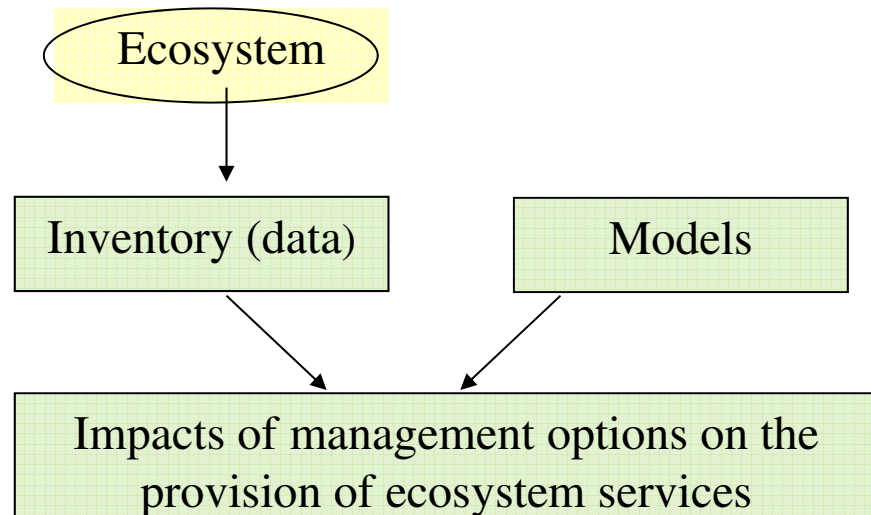
✓ Carbon



✓ Cultural



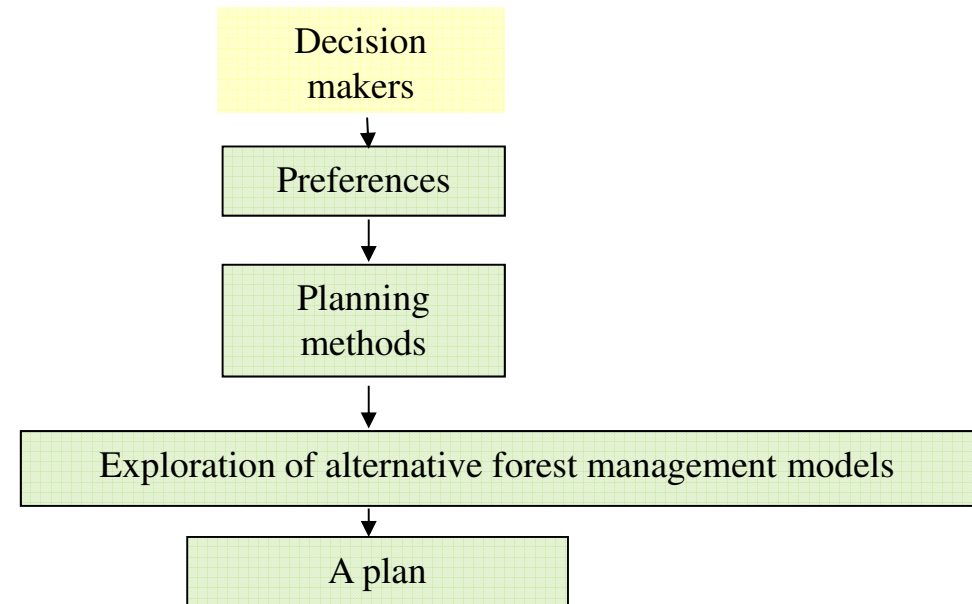
✓ Regulatory



How are the learning outcomes and skills conveyed?

✓ Courses (3rd knowledge required to answer the question):

- ✓ 4. Natural Resources Management
- ✓ 5. Forest Governance



How are the learning outcomes and skills conveyed?

✓ Courses

- ✓ 6. Mediterranean forest management planning research problems and case studies

Independent studies class that may be linked to the dissertation.

You select a management planning problem of interest to you (e.g., a question by a forest owner, an industry, a community, a park administration, a forest or a nature conservation agency) and explore and discuss methods to help answer it with the guidance of the instructor



Who conveys the learning outcomes and skills?

- Key Faculty –
- Key stakeholders engagement -



✓ Margarida Tomé
Expert on Forest Models
https://www.researchgate.net/profile/Margarida_Tome3



✓ José G. Borges
Expert on Forest Management Planning
https://www.researchgate.net/profile/José_G_Borges



✓ José M. C. Pereira
Expert on Fire Ecology and Management
https://www.researchgate.net/profile/José_Pereira21



✓ Tiago Oliveira
Stakeholder expert on Wildfires and Risk Analysis
https://www.researchgate.net/profile/Tiago_Oliveira17

✓ Research and project leaders

✓ Opportunities for networking and internships

Who conveys the learning outcomes and skills?

- Regular participation of international scholars –



✓ Marc E
McDill
PSU, USA
https://www.researchgate.net/profile/Marc_McDill



✓ Keith M.
Reynolds
USFS PNW
https://www.researchgate.net/profile/Keith_Reynolds2



✓ Sándor
Tóth
UW, USA
https://www.researchgate.net/profile/Sandor_Toth3



✓ Luiz Carlos
Estraviz R
S. Paulo, Brazil
https://www.researchgate.net/profile/Luiz_Carlos_Rodriguez2

✓ **More opportunities for networking and internships**

Need clarification?

- ✓ Course objectives and contents?
- ✓ Ongoing projects and
 - ✓ Internship opportunities?
 - ✓ Dissertation topics

Contact at: joseborges@isa.ulisboa.pt