

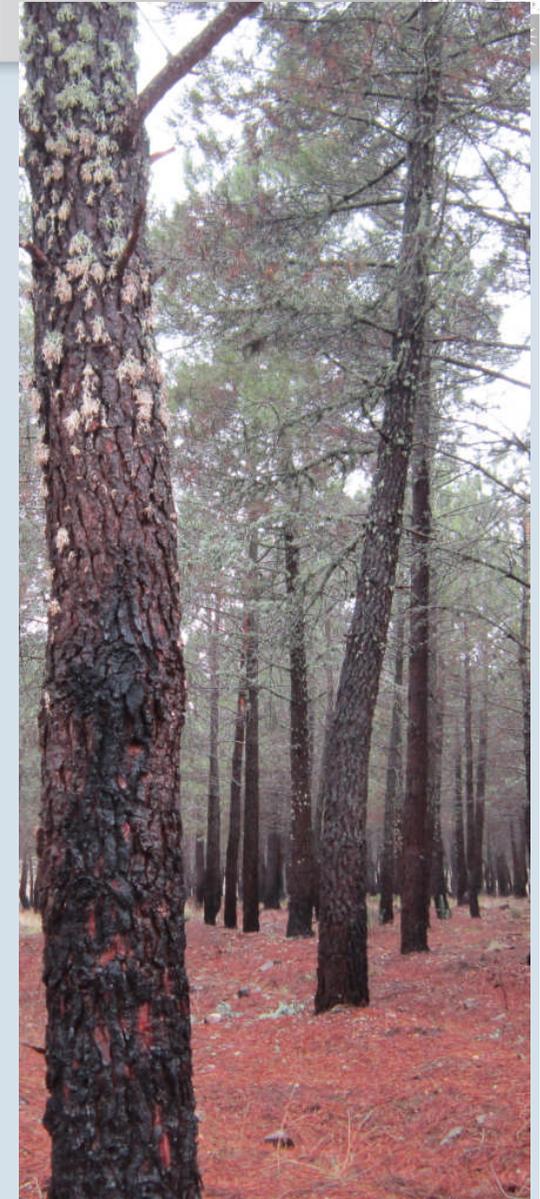
The project:

Towards a Silviculture for Enhancing Multifunctionality and Biodiversity of Planted Forests

- Focus: Millions of hectares of planted forests in low productivity and vulnerable sites are currently threatened by management abandonment and global change in Mediterranean Europe
- Opportunity: Planted forests host an enormous capacity to boost landscape restoration, to mitigate CC through C stocks and fluxes management, to improve value of forest goods and services and to contribute to sustainable rural development.
- Objective: Analysis of the effects of silvicultural treatments (thinning, underplanting and innovating regeneration treatments) in planted stands,
 - To accelerate forest diversification dynamics
 - To improve and diversify goods and services production and multifunctionality of forest stands
- Results/Impacts:
 - Assessment forest dynamics + good practices recommendations
 - Development of SFM indicators (e.g. C footprint) to incorporate to forest products value

The group experience:

- Ecophysiology of plant establishment and techniques to improve seedlings establishment success
- Measurement and monitoring carbon stocks and greenhouse gases fluxes, specially in soil C contents with assessment of soil organic matter stabilisation
- Expertise in multifunctional forest management and research in Mediterranean áreas: *Pinus* and *Quercus* genus.
- Carbon footprint calculation and management in value chain of forest products
- On going experimental sites on diverse species and forest sites



*On going experiences
in Spain:*

<http://blogs.upm.es/foradmit>

Potencial research collaborator requirements:

- Our current experimental site (central Mediterranean Spain) can be used for comparative purposes with other groups working in **different environments and management objectives**.
- We try to **extend our ecological range of study**, working in other geographical regions, in planted forests where experimental silviculture is being developed to transform the original plantation structure in more complex forests for a multifunctional management (goods productions, CC mitigation, biodiversity improvement, erosion prevention, forest water production...)
- We would like to further assess the use of silvicultural treatments **to improve and diversify the ecosystem services** production of planted forests; we would welcome the cooperation with experts on other ESs production
- We would like to cooperate with experts on a wider **ecological indicators** to incorporate SFM values to forest products markets.

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