



INITIATIVES IN MITIGATING CLIMATE CHANGE

Integrated Agroforestry Practices and Nature Conservation against Climate Change

Workshop on “Climate Action in Agriculture and Forestry”,
Brussels, 1st June 2017

SITE A:
Afforestation, Revegetation, Restoration
Forestry Management



Área A:
Municipio de Alinyà
Provincia de Lérida
Cataluña

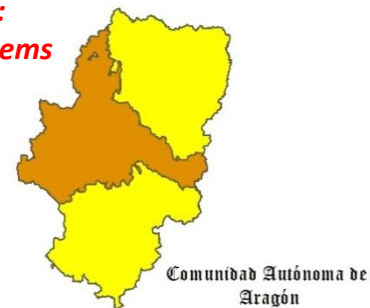
SITE A: Forestry



SITES B and C: Agroforestry



SITES B and C:
Agroforestry systems



How we did it?

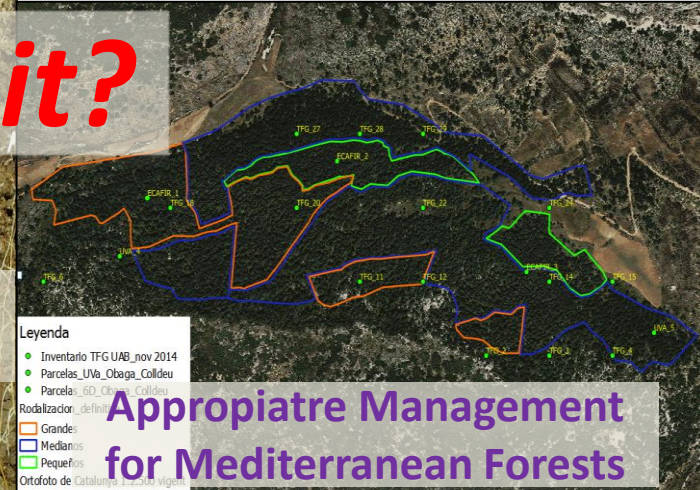
New technologies



Monitoring
and
Researching



Rhizotron experiments



Appropriate Management
for Mediterranean Forests

Crops + Trees
Farming



Sustainable
agro-silviculture

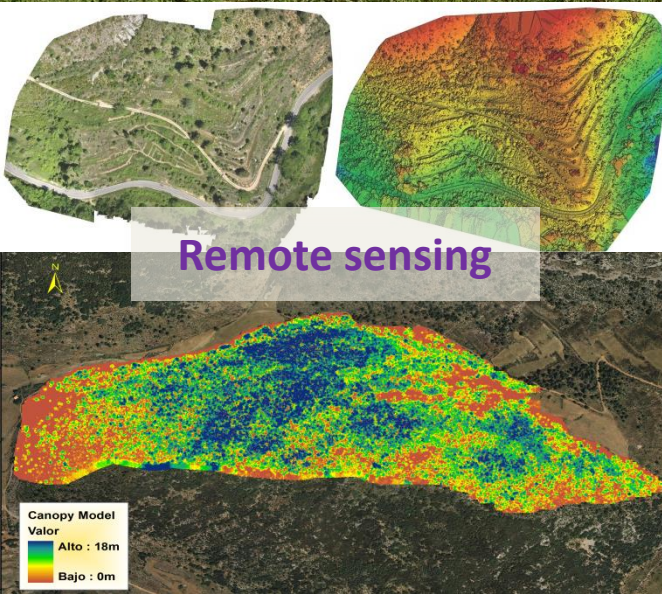


Biofertilizers: mycorrhizas



Waterboxx: water reservoir
LIFE09 The Green Deserts

Remote sensing



Results

- Increment of Carbon sequestration: trees, soil and pluriannual crops (alfalfa)
- Restoration of degraded lands in arid zones and transformation into productive farming lands
- Average Tree survival: 90%
- Reversion and prevention of soil erosion and loss
- Increment of Soil Organic Matter
- Increment of Biodiversity
- Accurate measurements of carbon content
- Economic and Environmental feasibility
- Climate Change Mitigation
- Climate Change Adaptation
- Certification of carbon credits (voluntary market): technically viable but not possible (double accountability)
- Registered as Absorption project in Spanish National Register
- Registered as Organic production lands (CCPAE) to generate jobs
- Dissemination: scientific papers, seminars, meetings and congress



OPERACIÓN
CO₂

LIFE11 ENV ES 535

Conclusions - Lessons Learned

- **Economic feasibility to keep population** in the territory
- **Proper management of existing Mediterranean forests** is needed
- **Standards are not adapted** to Mediterranean forests
- **Mitigation and Adaptation** achieved
- **Easy replication** in UE, especially in Mediterranean areas
- **Agriculture and Forestry** compatible and synergic
- **National CO₂ Absorption Register constraints**
- Some **pluriannual crops** may be long-time carbon sinks
- **More funds are needed** to continue working on these initiatives
- These ways of sustainable farming and forest management must to be **rewarded/valued by EU policy**.



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Thanks so much

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