INITIATIVES IN MITIGATING CLIMATE CHANGE

LIFE11 ENV ES 535



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

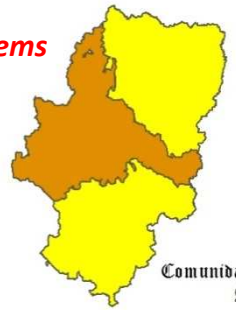




SITES B and C:
Agroforestry systems



Comunidad Autónoma de
Castilla y León



Comunidad Autónoma de
Aragón

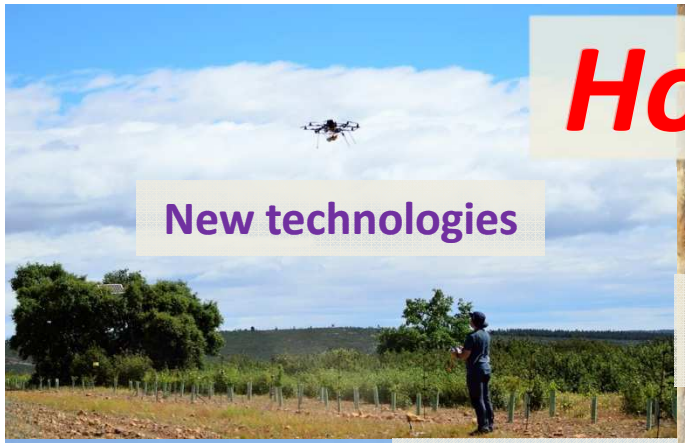


Provincia de Zamora



Provincia de Zaragoza

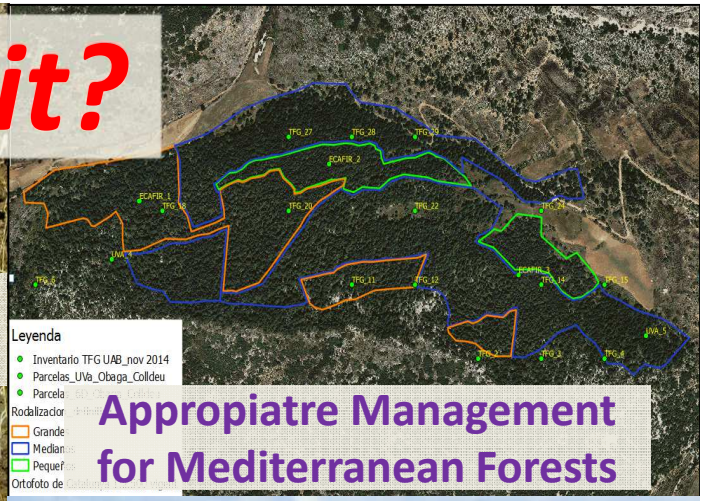
How we did it?



New technologies



Rhizotron experiments



Appropiatre Management for Mediterranean Forests

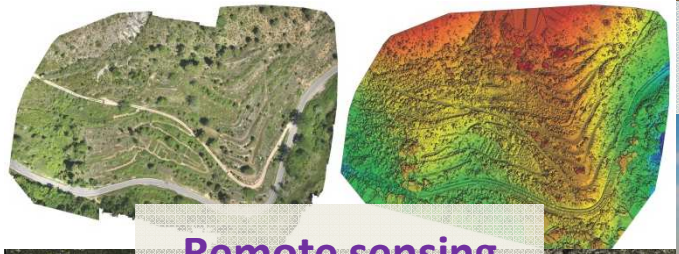


Monitoring and Researching

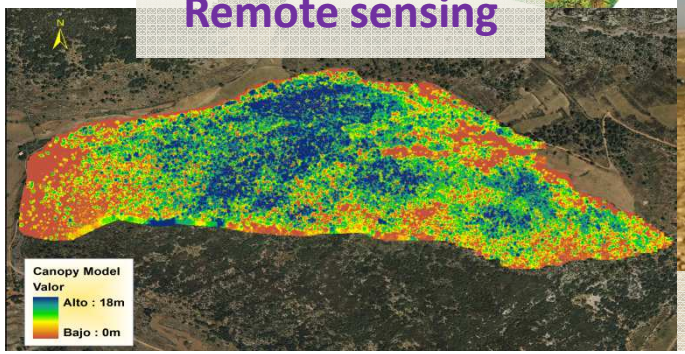




Crops + Trees Farming



Remote sensing



Sustainable agro-sylviculture



Biofertilizers: mycorrhyzas



Waterboxx: water reservoir LIFE09 *The Green Deserts*

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

Conclusions - Lessons Learned

OPERACIÓN CO_2

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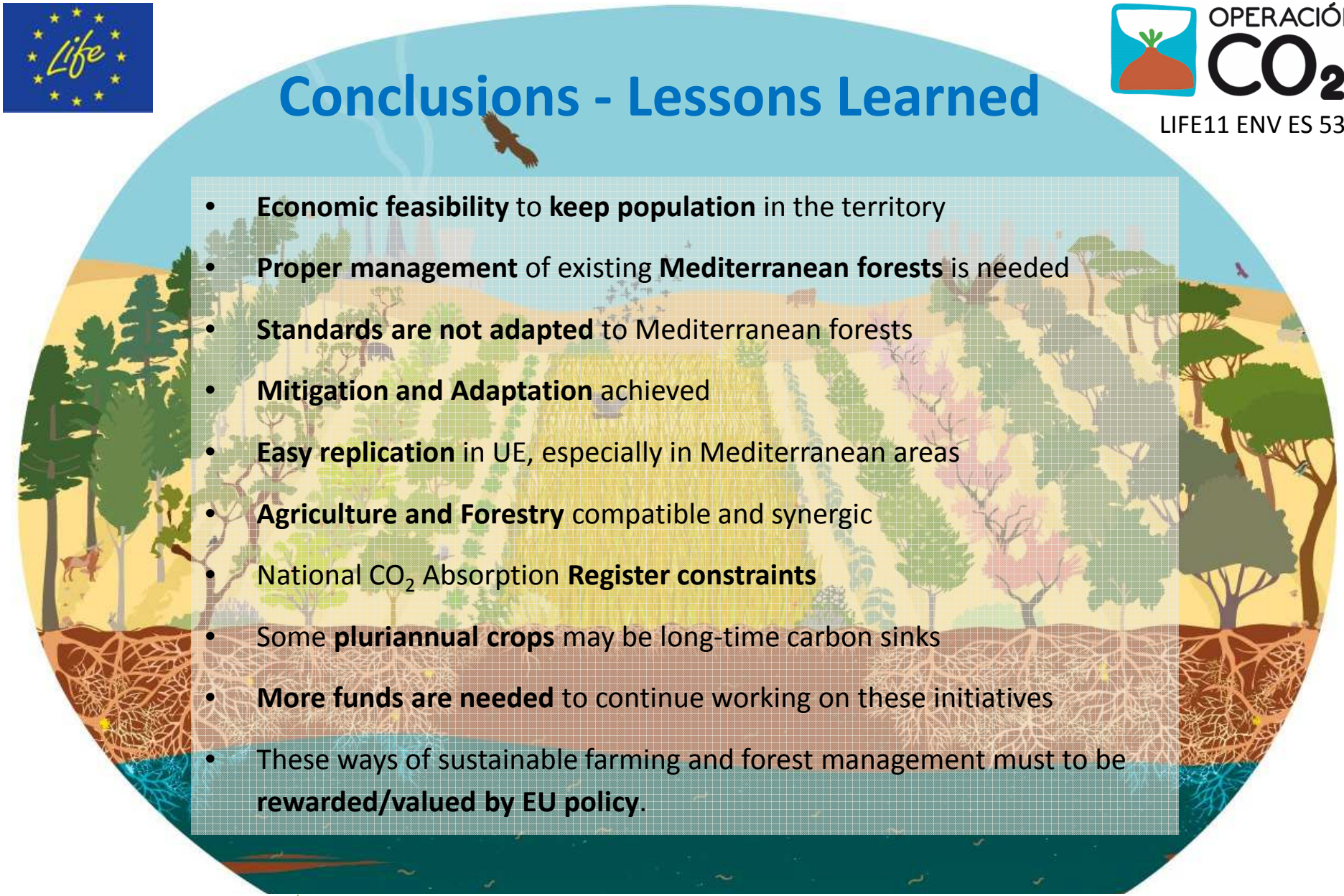

- **Economic feasibility** to **keep population** in the territory
- **Proper management** of existing **Mediterranean forests** is needed
- **Standards are not adapted** to Mediterranean forests
- **Mitigation and Adaptation** achieved
- **Easy replication** in UE, especially in Mediterranean areas
- **Agriculture and Forestry** compatible and synergic
- National CO_2 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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