



# DESERT ADAPT

PREPARING DESERTIFICATION AREAS FOR INCREASING CLIMATE CHANGE

## NEWSLETTER

LIFE16 CCA/IT/000011

| Issue 3 | Date: February 28<sup>th</sup> 2018

### MEET THE PARTNERS: L1 – Municipality of Lampedusa and Linosa



The municipality of Lampedusa e Linosa, in the province of Agrigento (Sicily, Italy), has 6.299 inhabitants and a total area of 25.83 km<sup>2</sup>.



In particular, the Lampedusa island is a low carbonatic plateau, with the highest point at 133 m a.s.l. Most of the Island is covered with garrigue and grasslands.

### CONTACTS

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### BUILD YOUR OWN DAM



The landowners started to plan their land management plan (DAM) under the direction of FSG, taking into account their objectives and the need to adapt to future climate changes.



Economic, environmental and social functions are allocated by landowners to their land choosing among 49 pre-designed functions and then are verified in the field together with technical experts



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**LIFE Desert-Adapt**



# LIFE KEY INDICATORS

To test effectiveness of land management strategies adopted by landowners partners in their land we have chosen several indicators of performance, which cover aspects related to environmental quality, social and economic status. Indicators are analyzed at the beginning of the project to assess the baseline conditions of the farm and after five years, at the end of the project, to verify how successful were the chosen strategies

Monitoring topics	Indicators
Soils	Soil samples are taken and analysed for their specific properties such as: <ul style="list-style-type: none"> <li>• Bulk Density and Porosity</li> <li>• Aggregate stability</li> <li>• Cation Exchange Capacity</li> <li>• Total Organic Carbon and total Nitrogen</li> <li>• soil pH (H<sub>2</sub>O)</li> </ul>
Plant root and Mycorrhizae	<ul style="list-style-type: none"> <li>• colonization of mycorrhizae</li> </ul>
Hydrology	<ul style="list-style-type: none"> <li>• Water retention capacity</li> <li>• Avoided soil run-off by improved land use</li> <li>• Water infiltration capacity</li> </ul>
Biodiversity	<ul style="list-style-type: none"> <li>• Presence of indicator species</li> <li>• Soil functional biodiversity</li> <li>• Presence of key plants for bees, butterflies and other pollinizing species.</li> </ul>
Biomass and Carbon balance	Carbon sequestered in current vegetation, soil organic content and CO <sub>2</sub> equivalent emissions
Growing aids	Monitoring of plant mortality and plant growth/development with growing aids, compared to plants without them.
Social Impact Economic Performance, Market Uptake, Replication	<ul style="list-style-type: none"> <li>• Employment</li> <li>• Replication / Transfer</li> <li>• Market uptake</li> <li>• Financials</li> </ul>

An important aspect for our project is the involvement of other interested landowners to test our land management approach based on the successful example of our project sites. There will be “open days” to give the opportunity to stakeholder to visit our sites and discuss with us opportunities. Please get in touch with us if you want more information on how to get involved.

To learn more on the project visit the “Projects” section at <http://www.desert-adapt.it/index.php/en/the-project>



## ANNOUNCEMENTS

- **Desert-Adapt 1st Steering Committee Meeting**  
12<sup>th</sup> April 2018 in Mertola (PT)
- **Course of drone technologies and application to field analysis**  
13<sup>th</sup> April 2018 in Mertola (PT)
- **Course on climate modelling and meteorological monitoring**  
13<sup>th</sup> April 2018 in Mertola (PT)
- **LIFE Platform Meeting on Climate Change Adaptation in Agriculture and Forestry in the Mediterranean Region** Madrid, 13-14 March 2018