



**SIMBIOTIC PROJECT KICK-OFF MEETING
UNIVERSITY OF MALTA, MSIDA, MALTA
26/05/2011 – 27/05/2011**

Day 1

**WP4 Improved protected area management
and pilot habitat restoration**

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Ministry for Gozo



Italia-Malta Programme - Cohesion Policy 2007-2013
A sea of opportunities for the future

This project is part-financed by the European Union
European Regional Development Fund (ERDF)
Co-financing rate: 85% EU Funds; 15% National Funds



Investing in your future

WP4 IMPROVED PROTECTED AREA MANAGEMENT AND PILOT HABITAT RESTORATION ACTIVITIES

WP4. Improved protected area management and pilot habitat restoration

1. Evaluate management effectiveness of selected protected areas

Field work, data collection, reports

2. Implement relevant pilot ecological restoration actions in natural marshes of SE Sicily

Seed collection and cleaning, viability evaluation, germination tests, seedlings for in situ restoration, long term storage



WP4 IMPROVED PROTECTED AREA MANAGEMENT
AND PILOT HABITAT RESTORATION
OUTPUT INDICATORS

- 1. Synthetic report on protected area management (Sicily)* **1**
- 2. Progress report in Sicilian selected marshes* **3**



WP4 IMPROVED PROTECTED AREA MANAGEMENT AND PILOT HABITAT RESTORATION

○ **Equipment**

Off-road vehicles

Equipments for seed collection and storage

Equipments for floristic collection, *exsiccata*

Equipments for vegetation relevés and data archive

Computers, plotter, inkjet and laser printer, software and GIS

Digital photo cameras

GPS



WP4 IMPROVED PROTECTED AREA MANAGEMENT AND PILOT HABITAT RESTORATION

○ **Infrastructure**

Floristic lab

Herbarium

Seed bank

Sicilian garden



WP4 IMPROVED PROTECTED AREA MANAGEMENT AND PILOT HABITAT RESTORATION

○ **Team of Department of Biology**

Contact person: Anna Guglielmo

Senior lecturer → Scientific coordination

Botanist → Flora and vegetation studies

GIS Specialist → Cartography, diacronic analysis

Research assistant → Seed collection and conservation , Plant propagation

Ornithologist → Birds checklist and monitoring

Geo-pedologist → Pedological and hydro-geological analyses

Ecologist → Planning for environmental restoration



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- **Methods to be deployed *insitu* and *exsitu***

In situ

Habitat restoration, through target species reintroduction

Ex situ

Seed conservation (short and long term) in the seed bank

Seedlings production and transplanting in the Sicilian Garden



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- **Plan and process**

Planning of in field data collection (flora, vegetation, habitat, birds)

Planning of seed collection of target species according to their phenology

Planning of ex situ multiplication activities

Planning of restoration and management activities



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○ **Results**

1. reintroduction of plant species,
2. habitat restoration aiming to increase connectivity and birds presence,
3. supporting migration processes,
4. increasing collaboration among public authorities, research institutions, people and local stakeholders



WP4 IMPROVED PROTECTED AREA MANAGEMENT AND PILOT HABITAT RESTORATION

○ **Indicators and deliverables**

Number of monitored marshes (9)

Agreements with owners

Cooperation between local authorities and stakeholders
(environmental and cultural associations, farmers and producers
association)

