

**Tutelare la biodiversità nei siti della Rete Natura 2000
in Sicilia e a Malta
attraverso le Banche del germoplasma
e il rafforzamento di popolazioni**

**Protecting biodiversity in Sicily-Malta Natura 2000 sites
through Seed Banks and population reinforcement**

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SiMaSeed Project



Thematic Objective
Protection of the
Environment

Axis 3

Protecting the environment and promoting an efficient use of resources

Priority Investment

Protecting and restoring biodiversity and soils; promoting services for ecosystems, even through Natura 2000 and green infrastructure

Specific Objective 3.1

To contribute towards the arrest of the loss of terrestrial and marine biodiversity in the area, maintain and reactivate the ecosystem and the protected area



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Partners



**LP - Università degli Studi di Catania
Dip. di Scienze Biologiche, Geologiche e Ambientali
Sez. di Biologia vegetale (DSBGA)**

**PP2 - University of Malta
Argotti Botanic Gardens and Resource Centre (UoM)**

**PP3 - Regione Siciliana - Assessorato regionale
dell'Agricoltura, dello Sviluppo Rurale e della Pesca
Mediterranea Dipartimento Regionale Sviluppo Rurale e
Territoriale (DRSRT)**

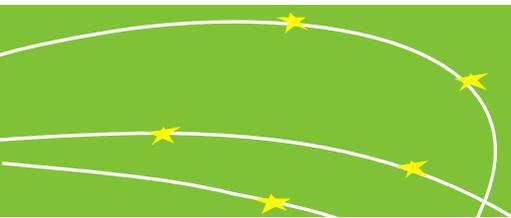
**PP4 - Ministry for Gozo
EcoGozo Regional Development Directorate (MGOZ)**



SiMaSeed Project

Start date 01.03.2018 - End date 28.02.2021

Anni - year	Year 1 - 2018												Year 2 - 2019												Year 3 - 2020												2021	
	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	01	02		
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SiMaSeed Project

Project management team



Lead Partner

Steering Committee
Lead Partner and one delegate for each partner

Project and Communication Manager

Financial Manager



SiMaSeed Project

Work packages

WP1: Project management

WP2: Communication activities

WP3: Seed collection and conservation and bank enhancing

WP4: Propagation of targeted species in Sicily and Malta

WP5: Pilot activities to protect biodiversity in Natura 2000 sites



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Activities per work packages

WP3: Seed collection and conservation and bank enhancing

Activity 3.1 - Technical meeting to define criteria for species selection

Activity 3.2 - Seed collections from habitats of Natura 2000 sites

Activity 3.3 - Seed Banks activities

Activity 3.4 - Germination tests for protocols definition

Activity 3.5 - Seed Banks enhancement and new creation

Activity 3.6 - Seed Banks Management Plan

Responsible partner: LP - Involved partners: UoM and MGOZ





natural habitats of Community interest





natural habitats of Community interest

2250* : Dune costiere con *Juniperus* spp.



6220* - Percorsi substeppici di graminacee e piante annue dei *Thero-Brachypodietea*



natural habitats of Community interest
92C0: Boschi ripariali a dominanza di *Platanus*



3170*: Stagni temporanei mediterranei





Habitats and species of Community interest



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Activities per work packages



WP4: Propagation of targeted species in Sicily and Malta

Activity 4.1 - Sowing and seedlings production in nursery

Activity 4.2 - Asymbiotic micropropagation in vitro

Activity 4.3 - Specimen identification by DNA barcoding

Responsible partner: UoM - Involved partners: DRSRT and LP



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Activities per work packages

WP5: Pilot activities to protect biodiversity in Natura 2000 sites

Attività 5.1 - Translocation and plantation

Attività 5.2 - Plants/Habitat monitoring and evaluation

Attività 5.3 - Technical workshops

Responsible partner: DRSRT - Involved partners: UoM, MGOZ and LP



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Outputs

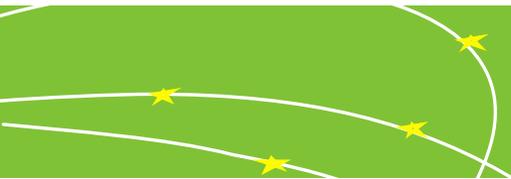
Project specific objective	Project main output title	Project main output quantification
<p>1. Enhancing and upgrading Seed Banks and short- and long-term storage of seeds of plants from Natura 2000 sites</p>	<p>Upgraded and new created Seed Banks</p> <p>Seed storage</p> <p>Germination protocols</p>	<p>3 Seed Banks</p> <p>400 seed accessions stored</p> <p>20 germination protocols</p>
<p>2. Plant production to reinforce/restore populations in habitats of Natura 2000 sites</p>	<p>Production of native species</p> <p>Production of wild orchids</p> <p>Plant species identification through DNA barcoding</p>	<p>40.000 plantlets</p> <p>12.000 wild orchid plantlets</p> <p>20 DNA barcoded species</p>



SiMaSeed Project

Outputs

Project specific objective	Project main output title	Project main output quantification
3. Strengthen capacity for students/young workers/plant nurserymen and for stakeholders, public institution to protect natural heritage	Areas of Natura 2000 habitats restocked	4 skm
	Monitoring	4 skm
	Skilled technicians	40
	Awareness campaigns	20 graduate students
	Awareness campaigns	700 middle-level students 16 units involved in sharing experiences 5000 view on web





germination test



production of native species



Seed, protocorm with rhizoids and green seedlings of wild orchids



restocking populations

