SERESTO

Habitat 1150* (Coastal lagoon) recovery
by **SE**agrass **RESTO**ration

A new strategic approach to meet HD & WFD objectives

Project coordinator

Adriano Sfriso

Università Ca' Foscari Venezia
Calle Larga Santa Marta 2137
30123 - Venezia

e-mail sfrisoad@unive.it
serestoinlife@unive.it
www.lifeseresto.eu

The project is supported by the following fish farms: Valle Dogado-Montiron, Valle Grassabò, Valle Ca' Zane e Valle Ca' da Riva.

This project is funded by European Union's LIFE+ financial instrument and contributes to the environmental recovery of a Natura 2000 site. (SIC IT3250031-Northern Venice Lagoon)

Project coordinator
Università Ca' Foscari Venezia
DAIS - Dipartimento di Scienze Ambientali, Informatica e Statistica

Università Ca'Foscari Venezia

Project partner
MAV - Magistrato alle Acque di Venezia

Magistrato alle Acque

Project partner
ISPRA - Istituto Superiore per la Protezione e la Ricerca Ambientale

ISPRA
Istituto Superiore per la Protezione e la Ricerca Ambientale

Project partner
LAGUNA VENEXIANA onlus

Laguna Venexiana ONLUS
Associazione Ambientalista
per la salvaguardia, la tutela e la valorizzazione
della Laguna veneziana, del bacino scolante e delle zone umide

SEagrass RESTOration

LIFE12 NAT/IT/000331

SERESTO

Habitat 1150* (Coastal lagoon) recovery
by SEagrass RESTOration

A new strategic approach to meet HD & WFD objectives

Università Ca'Foscari Venezia · CEMAS Centre for Estuarine and coastal MArine Sciences · Magistrato alle Acque · ISPRA Istituto Superiore per la Protezione e la Ricerca Ambientale · Laguna Venexiana ONLUS Associazione Ambientalista per la salvaguardia, la tutela e la valorizzazione della Laguna veneziana, del bacino scolante e delle zone umide

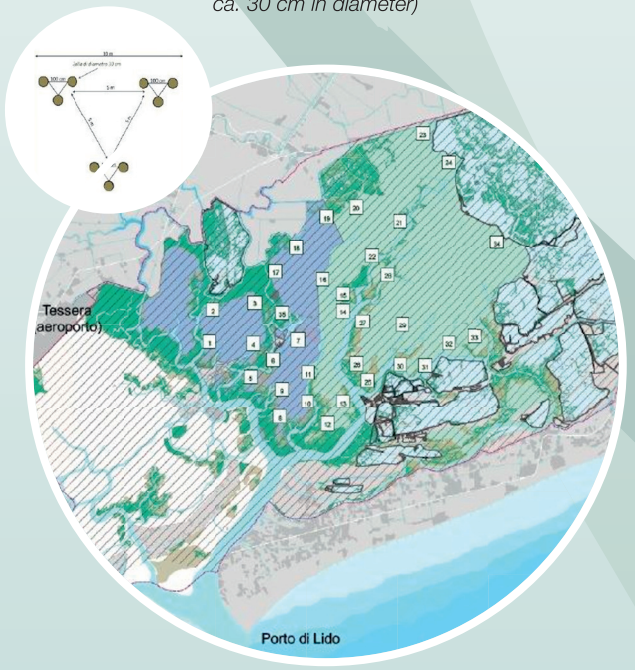
LIFE12 NAT/IT/000331 - SeResto
Start date: January 1st, 2014
End date April 30th, 2014

The project aims to trigger a process of aquatic angiosperm recolonization in SIC IT3250031 (Northern Lagoon of Venice).

Intervention strategies

The proposed intervention technique involves transplanting a small number of plants (mainly *Zostera Marina* and *Nanozostera noltii*), with advantages in terms of lower costs and impact on the donor sites. In support of the natural expansion, in the surrounding areas, direct intervention is also planned to help the seeds take root and to facilitate the growth of new rhizomes produced by the transplanted specimens.

Diagram of transplantation layout at each site (9 plant-bearing sods, each ca. 30 cm in diameter)



Map showing the approximate location of the 35 intervention sites

OBJECTIVES

- Consolidating and restoring aquatic habitat 1150* via the transplantation of submerged aquatic angiosperms;
- Contributing to the achievement of good ecological status in transitional water bodies, demonstrating the effectiveness of the proposed measures in terms of meeting the objectives set by the Water Framework Directive (Dir. 2000/60/EC Article 4);
- Quantifying and making good use of the ecosystem services provided by the lagoon environment and the aquatic angiosperms of habitat 1150* in particular.

LIST OF ACTIONS

A: Preparatory actions

A1. Identification of donor sites.
A2. Management of sod extraction.
A3 Training of operators.

C: Concrete actions

C1. Aquatic angiosperm transplantion.
C2. Action to support meadow development.

D: Monitoring actions

D1. Monitoring of submerged aquatic angiosperms.
D2. Biodiversity and ecological quality monitoring.
D3. Monitoring and quantification of ecosystem services associated with restoration of aquatic angiosperm meadows.

E: Dissemination of results

E1. Presentation of results to the general public.
E2. Presentation of results to students, technicians and Public Administrations.

F: Project management

F1. Management and monitoring of the project.
F2. Networking.
F3. After-LIFE Conservation Plan.

EXPECTED RESULTS

- Following transplantation: plant cover of transplanted sods ca. 22 m^2.
- At project end: meadow cover in an area of 35000 m^2.
- 10 years after transplantation: 9 -10 km^2 colonized by dense meadows of aquatic angiosperms.

ECOSYSTEMS SERVICES

- Increased primary production and biodiversity;
- Increased fishing productivity (commercial species);
- Filtering and regulation of water quality (increase of water transparency);
- Morphological functions (protection against erosion);
- CO_2 sequestration.

FUNDING (EURO)

Partner	Total costs	EU contribution (75%)	Beneficiary's own contribution
DAIS-UNIVE	926 281	694 710	**231 571**
LV	254 874	191 156	**63 718**
ISPRA	350 643	262 982	**87 661**
MAV	32 100	24 075	**8 025**
	1 563 898	1 172 923	**390 975**

Università Ca'Foscari Venezia
Magistrato alle Acque
ISPRA Istituto Superiore per la Protezione e la Ricerca Ambientale
Laguna Veneziana ONLUS Associazione Ambientalista per la salvaguardia, la tutela e la valorizzazione della Laguna veneziana, del bacino scolante e delle zone umide