



Life Anillo Verde - Green Belt of Bay of Santander: connecting nature and city

LIFE14 NAT/ES/000699



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#### Project description:

##### Background

The Bay of Santander is the largest estuary on the north coast of Spain extending over 41 675 ha. Due to the influence of the city of Santander and its metropolitan area, nearly half the region's population is situated around the bay area. Despite its relative shallowness, the bay serves as the city's main seaport and has consequently undergone dramatic changes. A significant part of the original marsh was drained to build industrial areas, highways and meadows, for instance, and one runway of Parayas Airport extends into the bay. Today, 38% of the estuary is still a natural environment of great ecological value. However, continual pressures threaten biodiversity and ecosystem services in the bay.

##### Objectives

The main LIFE Anillo Verde project objective is to contribute to nature conservation in seven municipalities of the Bay of Santander, by improving and restoring ecosystems and habitats, and enabling the population recovery of species. It will also aim to halt the loss of biodiversity, to sustain ecosystem services, and to restore, insofar as possible, estuarine and bay ecosystems by creating a green and blue infrastructure: the 'Green Belt of Bay of Santander'.

Further to these aims, the project will:

- Design the 'Green Belt Bay of Santander' as a permanent and long-term

sustainable infrastructure, and develop appropriate management tools and funding;

- Restore characteristic ecosystems of the bay, including the removal of invasive alien species;
- Improve the connectivity of natural areas of the bay from ecological and sustainable mobility perspectives;
- Raise public awareness of the natural, cultural, and social values of the bay through the green belt , and promote the territory as a sustainable tourist destination; and
- Foster the expansion of the bay’s green belt, through land stewardship agreements with owners of public and private properties.

Expected results: The project’s expected results are:

- The creation of a green and blue infrastructure, the ‘Green Belt of the Bay of Santander’, and the design of basic tools for its sustainable long-term management;
- Reduced territorial fragmentation through improved ecological connectivity within and between nature reserves, and by promoting sustainable mobility through trails and other paths to improve the public use of natural areas;
- An evaluation of ecosystem services in the bay and the increase in these achieved after the implementation of the project;
- The enhancement and restoration of 95 ha of degraded habitats (e.g. coastal wetlands, inland wetlands, relict oaks, and islands);
- The removal of 150 ha of invasive fauna and flora (e.g. *Cortaderia selloana*, *Baccharis halimifolia* and *Reynoutria japonica*);
- A reduction in the number of fires by up to 80% around the Bay of Santander (helped by the removal of *C. selloana*);
- The removal of illegal landfill and the prevention of uncontrolled waste dumping within all reserves;
- Increased environmental awareness among the local population on the green belt, and the use of green and blue infrastructure to provide jobs, ecosystem services and to improve quality of life. Activities will include guided tours, schools involvement, and voluntary work;
- The creation of a business lobby to support the green belt in the medium and long term;
- The implementation of at least one ecotourism initiative leveraging the green belt as a tourist resource; and
- Regarding the improvement of ecosystem services, improved quality of soils to increase grassland quality and meat prices from green belt areas, increased capture of CO<sub>2</sub>, and improved ecological status of the islands.

Results

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Environmental issues addressed:

Themes

Biodiversity issues - Urban biodiversity  
Biodiversity issues - Ecological coherence

Keywords

urban planning, restoration measure

Target EU Legislation

- Nature protection and Biodiversity
- Directive 92/43 - Conservation of natural habitats and of wild fauna and flora- Habitats Directiv ...
- COM(2011) 244 final "Our life insurance, our natural capital: an EU biodiversity strategy to 2020 ...
- COM(2013) 249 final "Communication from the Commission on Green Infrastructure (GI) - Enhancing E ...

Target species

*Ardeola ralloides* *Botaurus stellaris* *Burhinus oedicnemus* *Egretta garzetta*  
*Limosa lapponica* *Lucanus cervus* *Lutra lutra* *Platalea leucorodia* *Salmo salar* *Woodwardia radicans*

Target Habitat types

- 1330 - Atlantic salt meadows (*Glauco-Puccinellietalia maritimae*)
- 1410 - Mediterranean salt meadows (*Juncetalia maritimi*)
- 1420 - Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruticosi*)
- 2110 - Embryonic shifting dunes
- 2130 - Fixed coastal dunes with herbaceous vegetation ("grey dunes")
- 3240 - Alpine rivers and their ligneous vegetation with *Salix elaeagnos*
- 7140 - Transition mires and quaking bogs
- 7150 - Depressions on peat substrates of the *Rhynchosporion*
- 9120 - Atlantic acidophilous beech forests with *Ilex* and sometimes also *Taxus* in the shrublayer (*Quercion robori-petraeae* or *Ilici-Fagenion*)
- 91E0 - "Alluvial forests with *Alnus glutinosa* and *Fraxinus excelsior* (*Alno-Padion*, *Alnion incanae*, *Salicion albae*)"
- 92A0 - *Salix alba* and *Populus alba* galleries
- 9340 - *Quercus ilex* and *Quercus rotundifolia* forests

Natura 2000 sites

Not applicable

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Beneficiaries:

Coordinator	Fundación Naturaleza y Hombre
Type of organisation	NGO-Foundation
Description	Fundación Naturaleza y Hombre is a nature conservation NGO involved with ecosystems restoration, the recovery of flora and fauna and environmental education. Its headquarters are in El Astillero (Cantabria), with branch offices in Salamanca and the Asturias. Its volunteering network is the 'Friends of the Foundation'.
Partners	MARE(Medio Ambiente, Residuos y Energía), Spain

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Administrative data:

Project reference	LIFE14 NAT/ES/000699
Duration	01-OCT-2015 to 30-SEP -2019
Total budget	2,568,132.00 €
EU contribution	1,540,887.00 €
Project location	Cantabria(España)

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