



Life Blue Natura

LIFE Platform meeting on Ecosystem Services

10-12 May 2017, Tallinn, Estonia



Socios beneficiarios:

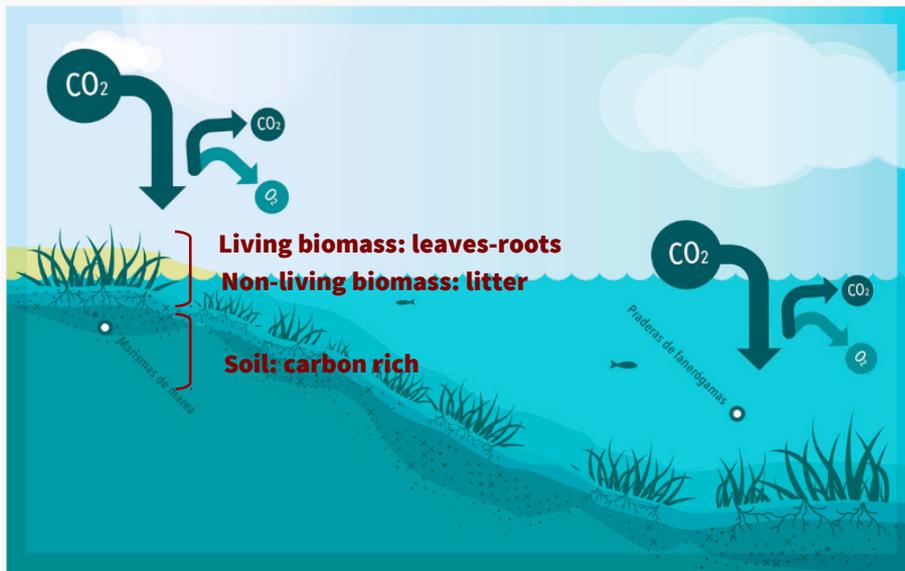
JUNTA DE ANDALUCIA
CONSEJERIA DE MEDIO AMBIENTE
Y ORDENACION DEL TERRITORIO
Agencia de Medio Ambiente y Agua



Cofinanciador:



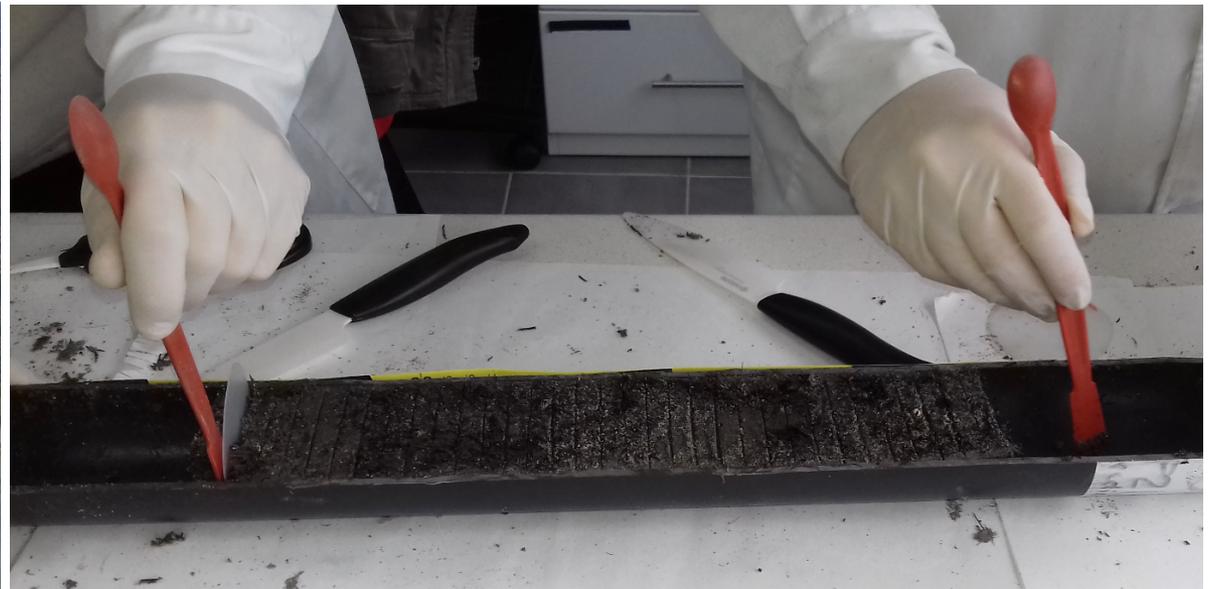
WHAT IS BLUE CARBON?



Blue carbon is carbon that is sequestered and stored in mangroves, salt tidal marshes and seagrass meadows



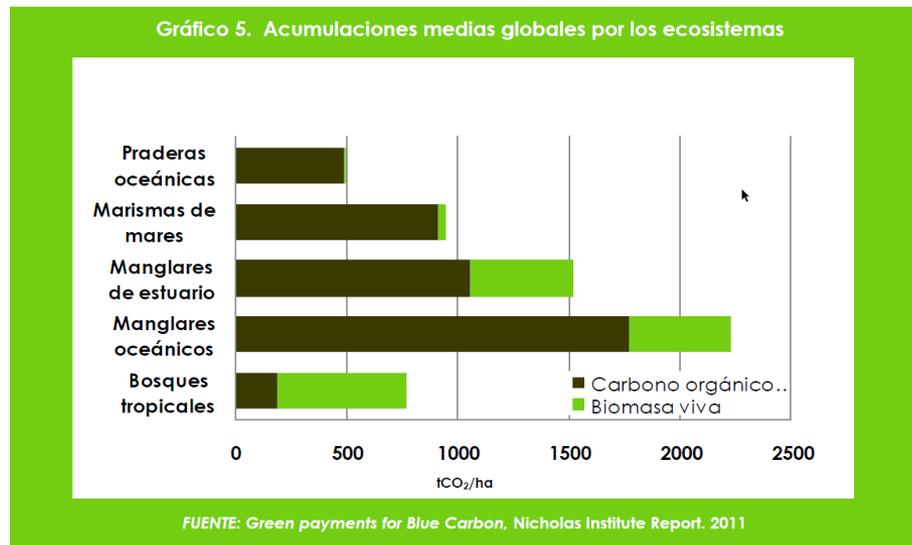
**In a blue carbon ecosystem, the soil is saturated with water keeping it in anaerobic state avoiding carbon oxidation and release back into the atmosphere
The carbon rich soil continually increase vertically at high rates resulting in continuous build up of carbon over time**



Some *Posidonia oceanica* meadows have carbon rich soils more than 10 meters thick and more than 6.000 years

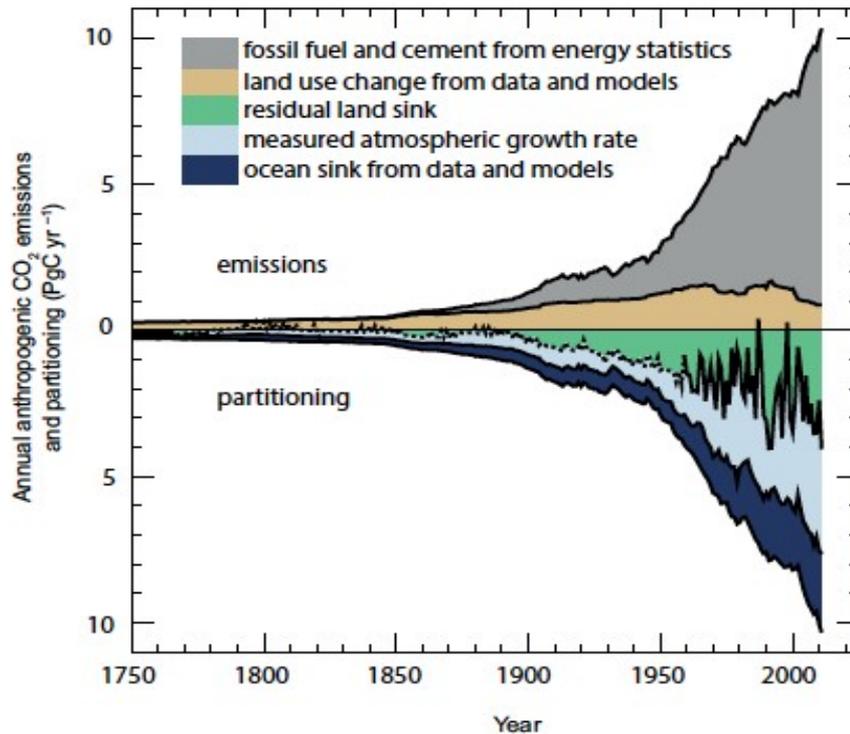
THE ECOSYSTEM SERVICE: CARBON SINK AND CLIMATE CHANGE

Although the biomass of these organisms is much lower than those responsible for green carbon, it is estimated that they absorb almost the same amount of carbon annually as terrestrial photosynthetic organisms, thus **representing an extremely efficient and effective carbon sinks.**



The **protection of these ecosystems** responsible for the formation of blue carbon sink, could have a **significant impact on climate change by mitigating the effects of the increasing CO₂ emissions**, both on a local and global scale.

AT GLOBAL SCALE: CARBON SINK AND CLIMATE CHANGE

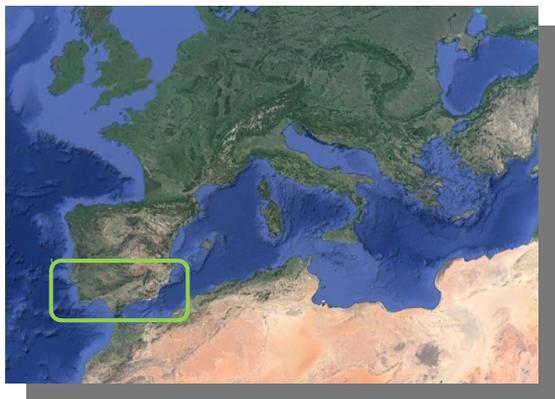


Nearly 30% of the increase in atmospheric CO₂ is due to land use changes (e.g. Deforestation), which sent back large amounts of carbon to the atmosphere and reduced the land (and sea) natural carbon sink capacity

IPCC 2013

Reducing fossil fuel burning is fundamental, but conserving and restoring natural habitats is also important to mitigate and adapt to climate change

THE PROJECT: LIFE Blue Natura



Andalucía (Southern Spain) has a significant extension of coastal marshes and seagrass meadows along the Atlantic and Mediterranean coasts.

The project will contribute:

- 1. to a better understanding of these carbon sink habitats in Andalusia, as well as to its characterization, state of conservation and evolution in the coming decades.**
- 2. to finance conservation projects and the restoration of habitats of blue carbon sinks in ANDALUSIA assisting implementation of policies for mitigation and adaptation to climate change, and carbon offsetting markets**

How will the project influence policy implementation? REGIONAL LEVEL

Andalucía: **NEW law on climate change** (draft law) is being passed

The future law will create the Andalusian Emissions Offsetting System and its Projects Catalogue, and FOR the FIRST TIME open the possibility of including Blue Carbon offsetting projects: conservation and restoration projects of blue carbon sink habitats like seagrass beds and tidal marshes

LIFE Blue Natura becomes critical for the creation of the necessary tools for the inclusion of this “marine” offsetting projects in the future catalogue, since **no tools for marine ecosystems exist**

**Quantification
of total
emissions**

**Standars for
verifying
carbon credits**

**Drafting
carbon offset
projects**

**Projects
catalogue**

MAIN BARRIERS: REGIONAL LEVEL

General Secretary of Environment and Climate Change is the
PROJECT COORDINATING BENEFICIARY

LIFE PROJECTS have a closed timetable and usually the schedule for legal and administrative procedures are uncertain in time

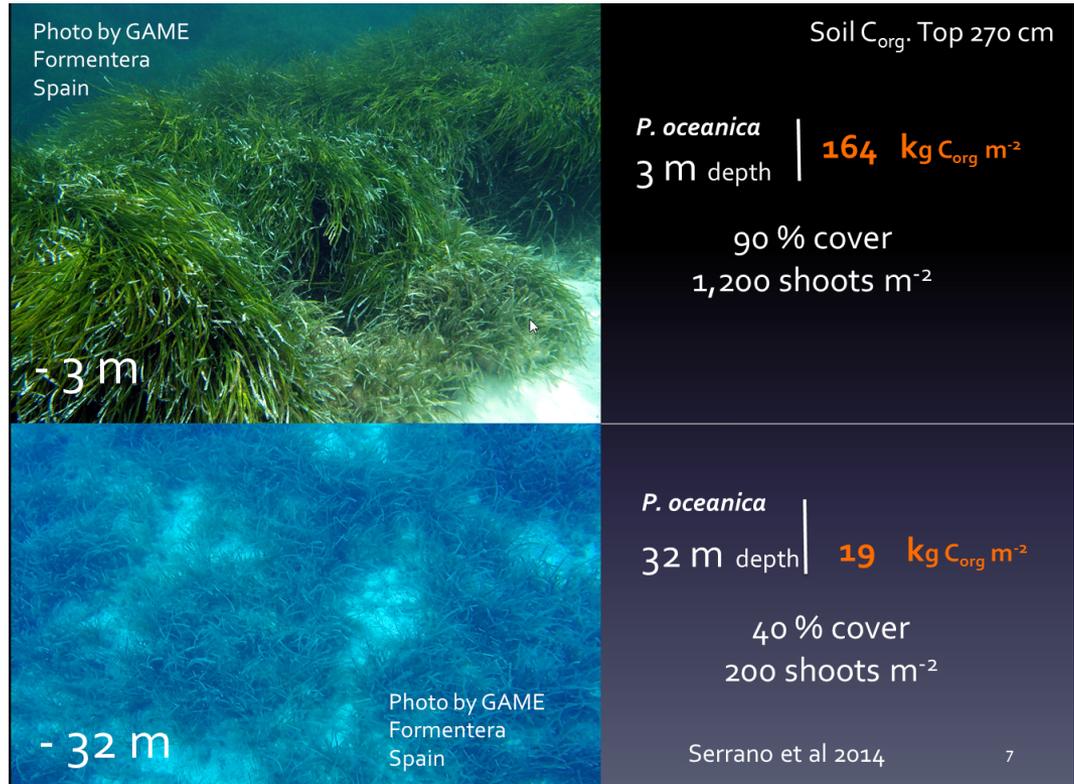
	2015				2016				2017				2018				2019			
	I	II	III	IV																
Overall project Schedule			S				P				P				M					F
PROJECT TIMETABLE																				
PROGRESS																				



BLUE CARBON SINK IN ANDALUCÍA

EXTREME NATURAL VARIABILITY

Are we going to achieve
 viable projects to be
 offered in the Andalusian
 Carbon offsetting market?



INFLUENCE TO IMPLEMENT POLICY: EU/NATIONAL LEVEL

Development of National accountability of coastal GEI and absorptions and its modification for anthropogenic reasons should set the basis first.

At a National level, with our Advisory Group we are **WORKING WITH** the “**Spanish Climate change office**” enhancing understanding and the roadmap for future inclusion of Blue Carbon into these National Inventories

The Paris Agreement opens the door to cooperative contributions with existing or new mechanisms, but the road on this, still needs to be made
And the EU obligations on other habitats, make it at the National level the integration of BC a long term plan

At present, International Volunteer markets and the Andalusia’s market are our opportunities

JOIN BLUE NATURA AND COMBAT CLIMATE CHANGE



- The Life project bioDEHESA aims to promote the sustainable and integrated management of dehesas

- **Dehesa Ecosystem Services Assessment in Life bioDehesa**



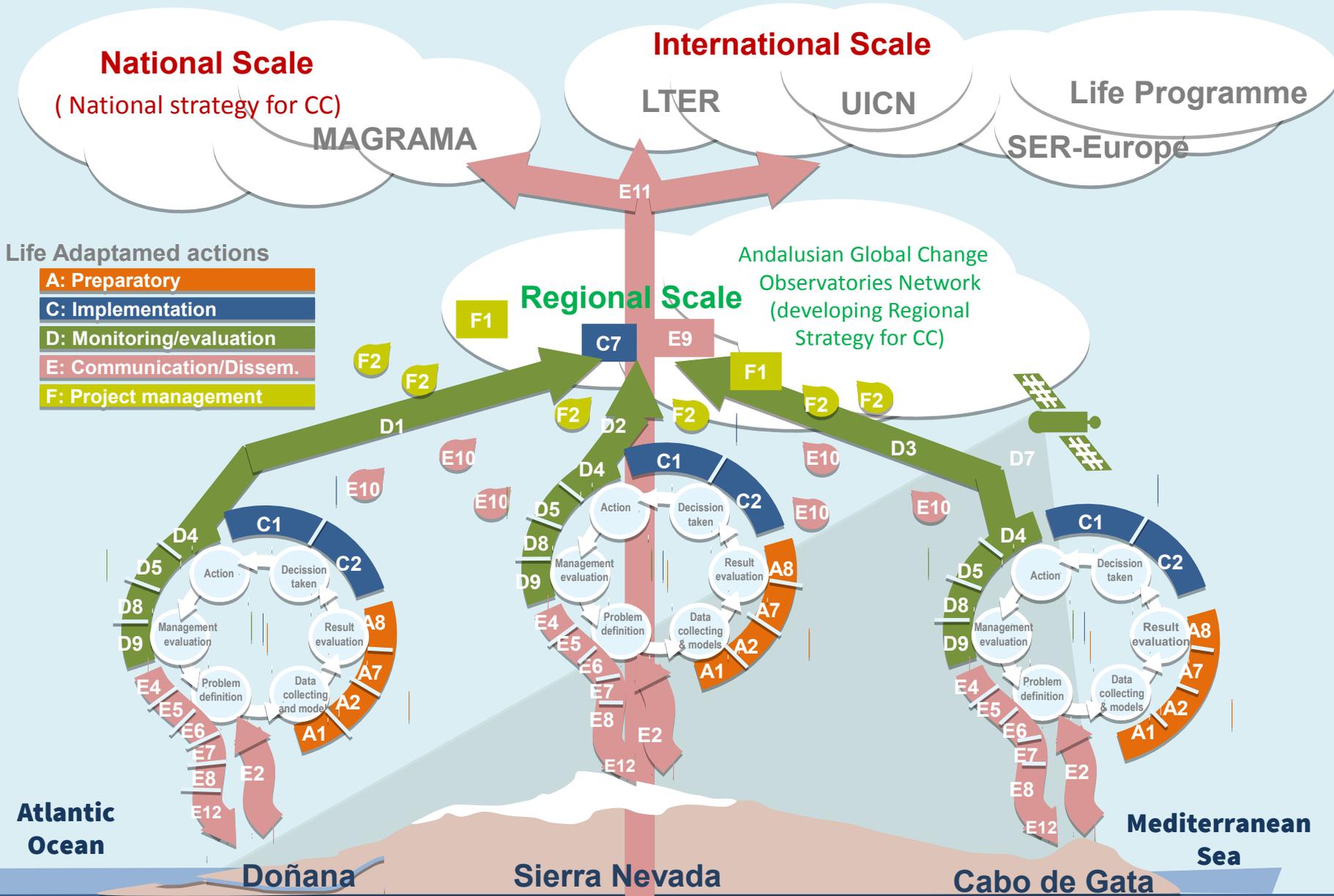
- Establish a baseline on the state and trend of de Dehesas Ecosystem Services in Andalusia and its relationship with the drivers of change 7/2010

- Support the Andalusian government decision-making process to conserve and prevent the degradation of our dehesas and the developing of the **Andalusian Dehesa Law 7/2010**



LIFE ADAPTAMED:

Protection of key ecosystem services by adaptive management of Climate Change endangered Mediterranean socioecosystems



An aerial photograph of a coastal wetland area. The foreground shows a town with buildings and a harbor with several boats. A river flows through the middle ground, surrounded by green and brown wetland terrain. In the background, the sea is visible with some structures on the horizon.

WEBPAGE : www.life-bluenatura.eu

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L I F E BLUE NATURA

JOIN BLUE NATURA AND COMBAT CLIMATE CHANGE

(LIFE2014/CCM/ES000957)

Blue Carbon in Andalusia
and its role in the mitigation of climate change

www.life-blunatura.eu

Facebook/Twitter/Instagram/YouTube: @lifeblunatura



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CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS



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Cofinanciador:

