

LIFE BLUE NATURA:

MORE FUNDS FOR CONSERVATION AND RESTORATION OF BLUE CARBON COASTAL HABITATS

Interdisciplinary symposium

Corte, 5-6-7 July 2017

Track: Global Change

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CEAB-CSIC





Socios beneficiarios:

JUNTA DE ANDALUCIA CONSEJERÍA DE MEDIO AMBIENTE Y ORDENACIÓN DEL TERRITORIO Agencia de Medio Ambiente y Agua





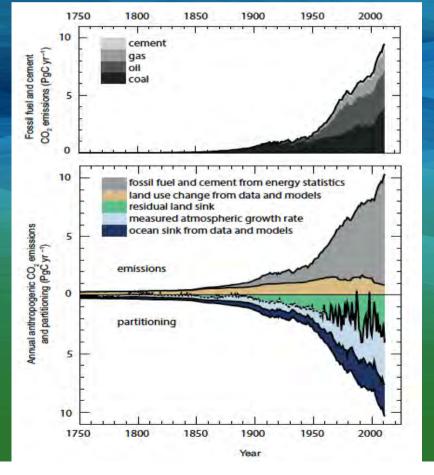


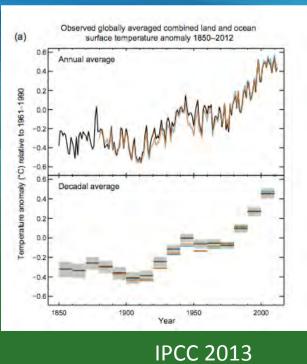




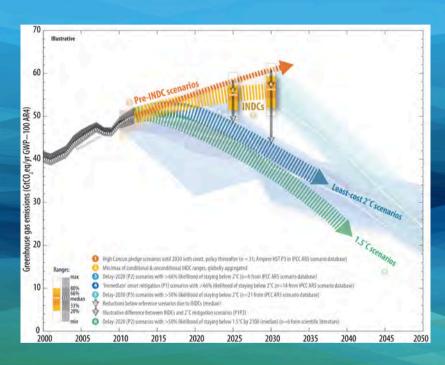
Nearly ¾ of CO2 increase in the atmosphere comes from fossil fuel burning

Around ¼ comes from LULUCF since agriculture invention









PARIS 2015: scenario with INDC still well above 2°C

We urgently need more ambitious action

3/4

Important reduction in fossil fuel burning

1/4

Widening and improvement of natural carbon sink protection and restoration

REDD+ (2009, COP16) Blue Carbon Initiative





Socios beneficiarios:

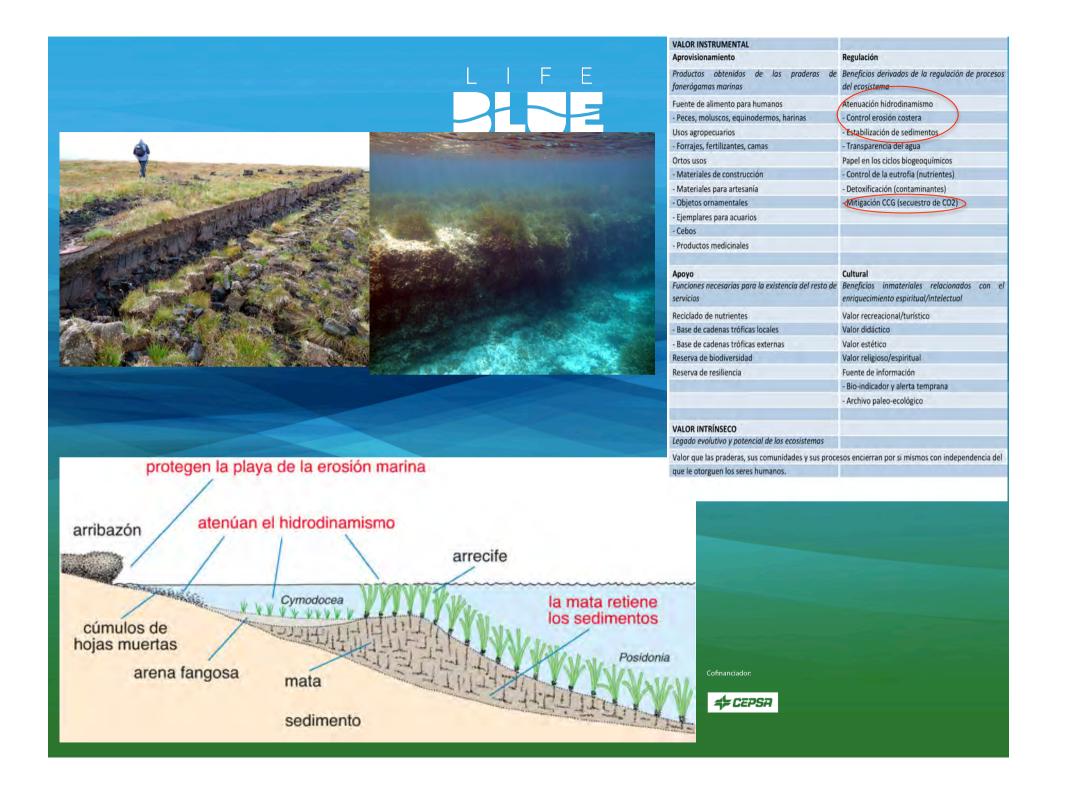
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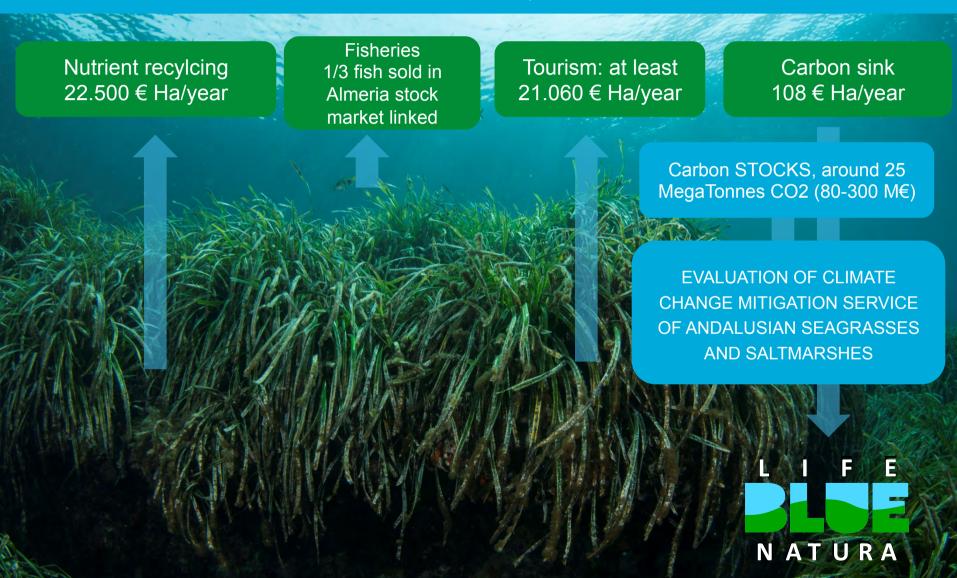








C1: ANÁLISIS ECONÓMICO Y SOCIAL DE LAS AGUAS EN LAS QUE HABITAN LAS PRADERAS DE POSIDONIA: COSTE QUE ENTRAÑA SU DEGRADACIÓN





LIFE 2014

Sub-program: Climate change

Area: Mitigation

Sector: Greenhouse gas accounting /reporting

2.513.792 € 1.508.275 € EU COORDINATOR PARTNER: CMAOT (Andalusian Regional Governent)

4 PARTNERS: AMAYA, CSIC, UICN, HYT

1 CO-FINANCING PARTNER: CEPSA

	2015				2016				2017				2018				2019			
	I	Ш	Ш	IV	ı	Ш	Ш	IV	I	Ш	Ш	IV	I	Ш	Ш	IV	ı	Ш	Ш	IV
Overall project Schedule			S				Р			Р					М					F
PROJECT TIMETABLE																				
PROGRESS																				



5 OBJECTIVES

TO CUANTIFY SEAGRASS
AND SALTMARSH CARBON
SINKS AND STOCKS IN
ANDALUCIA, AND ESTIMATE
THEIR TENDENCIES IN THE
NEXT DECADES

TO EVALUATE
ECONOMICALLY THESE
CLIMATE MITIGATION
SERVICES

TO DESIGN AND FOSTER
BLUE CARNON
CONSERVATION AND
RESTORATION PROJECTS,
CANDIDATES TO CLIMATE
MITIGATION FUNDING

FINANCIAL INSTRUMENTS: CARBON CREDIT STANDARD

NEW REGIONAL EMISSIONS COMPENSATION SYSTEM (COMPULSORY + VOLUNTARY) DISSEMINATION, TRAINING, NETWORKING, DIALOG

New Andalusian Climate change law



Possible strategies for monetizing blue carbon sink environmental habitats to protect them:

- Regulated and voluntary carbon markets: compensating for emissions in excess

The normal compensation carbon credit (1mT CO₂eq) is now too cheap

- Increasing the cost of carbon emissions permissions, and using the money for carbon sink conservation (ETS 50% to 100% in 2024)

- Including coastal habitats (seagrasses, saltmarshes, mangroves...) in national inventories of emissions and sinks





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ipcc

2013 Supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands

Methodological Guidance on Lands with Wet and Drained Soils, and Constructed Wetlands for Wastewater Treatment

Edited by Takahiko Hiraishi, Thelma Krug, Kiyoto Tanabe, Nalin Srivastava, Baasansuren Jamsranjav, Maya Fukuda and Tiffany Troxler



Task Force on National Greenhouse Gas Inventories









Around 7.000 ha

Posidonia oceanica
and other seagrasses
(Cymodocea nodosa,
Zostera noltei)

Saltmarshes: Around 24.400 Ha

Just around Cadiz bay and Odiel

rivermouth





FIRST: IMPROVING CARTOGRAPHY AND BLUE CARBON HABITAT CHARACTERIZATION, IN ORDER TO IMPROVE RESOLUTION ON THEIR EXTENSION, ESTIMATE POTENTIAL AREA AND TEMPORAL TENDENCIES 2015-2017



(LIFE2014/CCM/ES000957) El Carbono Azul en Andalucía La importancia de su conservación para alcanzar los objetivos de mitigación del cambio climático. www.life-bluenafftura.eu



JORNADA DE VOLUNTARIADO

SIMED ANDALUCÍA 2016

8 y 9 de Octubre. Roquetas de mar - Aguadulce (Almería)

Inicio de la campaña Posimed- Andalucía 2016: la red de seguimiento del estado de consevación de Posidonia oceanica en Andalucía, en la que participan buceadores voluntarios.





Informate en: www.life-bluenatura.eu info@life-bluenatura.eu





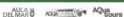
















Cartografía Blue Natura 2016 Cartografía Blue Natura 2017 Cartografía Life Posidonia 2011-2015



SECOND: ESTIMATE CARBON SINK AND STOCKS ASSOCIATED TO THESE HABITATS, THEIR POTENTIAL AND TENDENCIES

2016-2018



1st campaign in October 2016

Capture natural and anthropogenic variability









IN 2017 AND 2018



LAB ANALYSES:

OM, CaCO₃, bulk density

¹³C, ¹⁵N isotopic signals

 C_{org} , N_{org} , granulometry

¹⁴C and ²¹⁰Pb, lepidochronology



Actions to help defining a blue carbon financing strategy and to design blue carbon mitigation projects and communication have also started.

2015-2019



RESULTS EXPECTED: 2016-2019

Carbon stocks and fluxes to the seagrass and saltmarsh habitats in Andalucía

Effects of degradation and restoration

End 2018

Itinerant campaign:

schools (Aldea),

municipalities...

2017-2018

2 conferences scientific publications Monograph (2016-2019)

Workshops:

- Managers
- Journalists
- Politicians
- Enterprises

2018 - 2019

Andalusian certification standard: carbon credits generated by conservation and restoration projects on seagrasses and saltmarshes: end 2019

Handbook for financing EU blue carbon conservation and restoration projects:

mid 2019

End 2019: At least 2 restoration projects
with carbon credits calculated for the

SACE (Andalusian Emissions

Compensation System): mandatory and

voluntary compensation systems

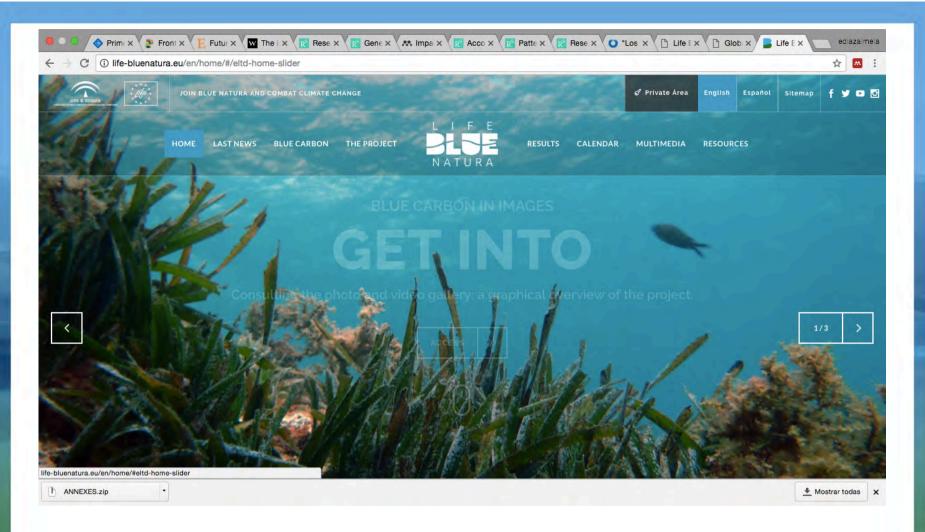


LAW IN PROJECT: ANDALUSIAN CLIMATE CHANGE ACT, DEVELOPING THE ANDALUSIAN SYSTEM FOR CARBON EMISSIONS COMPENSATION (SACE)

Artlicle 31: contemplates emissions compensation projects increasing carbon sink capacity through actions on marshes and marine areas

Article 41: Andalusians System for emissions compensation (SACE), managed by the Regional Environmental Council, **including a compulsory and a voluntary regime and a certification system** of UDAs (Units of Absorption) through the standards produced.

The SACE will include blue carbon projects in their catalogue offered to entities willing or having to compensate.



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#bluenatura

#carbonoazul



(LIFE2014/CCM/ES000957)

El Carbono Azul en Andalucía

y su papel para la mitigación del cambio climático

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Cofinanciado

