

INTERNATIONAL RESEARCH SYMPOSIUM Climate Change Adaptation in the Coastal Built Environment

> 19th - 20th June 2023 Santander (Spain)

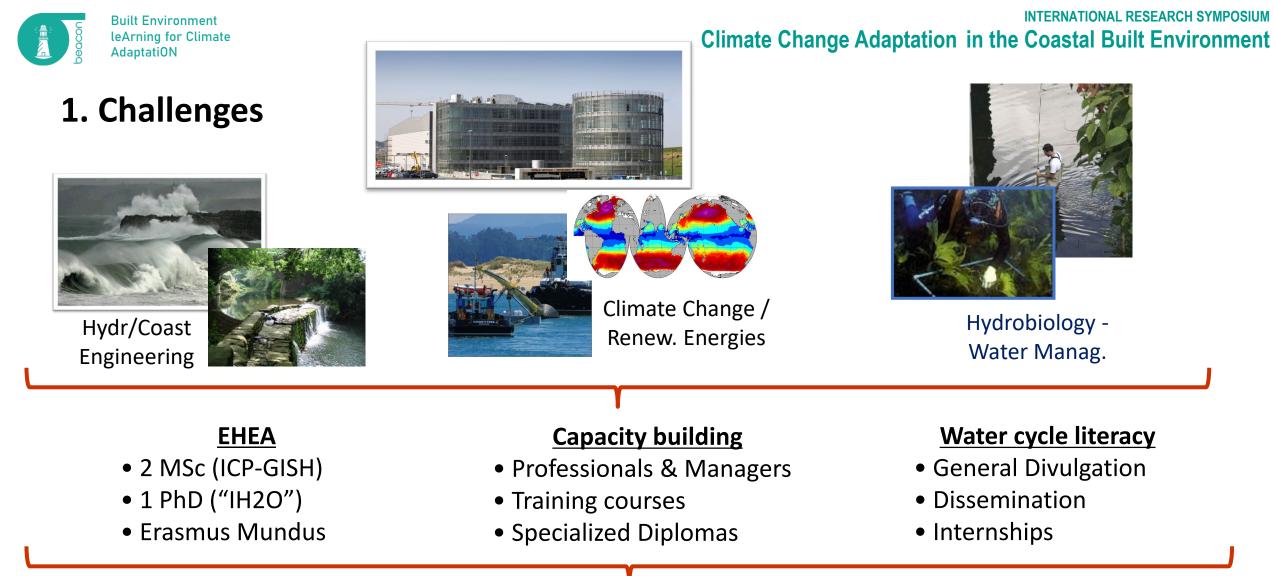
Transferring scientific knowledge about coastal ecosystems to lifelong learning initiatives

JA JUANES

IHCantabria, Education & Capacity Building Area







Coordinating and Optimizing the transference of scientific knowledge



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Built Environment leArning for Climate **AdaptatiON**

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INTERNATIONAL RESEARCH SYMPOSIUM **Climate Change Adaptation in the Coastal Built Environment**

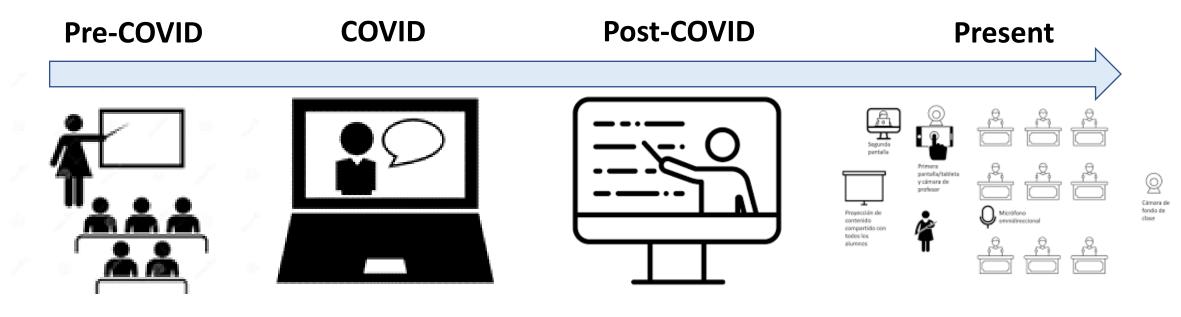
UC ΓTT UNDACIO $\Delta_{\mathcal{A}}$ Main activity **10** x A lot of experience Graduate/postgraduate degrees No specific interest for teaching • Global & specific subjets No teaching skills • External verification of contents Very specialized work • No allocated time • Scientific communicators • Very specialized courses!

"Teachers"



leArning for Climate

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Volatility	Inflation of training activities in online format
Uncertainty	Changing required skills and competences
Complexity	Flexibility for implementation of certified learning patways
Ambiguity	Need for quality assurance and interaction with students



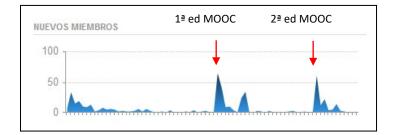
2. Background

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			16 enero 2015		
	José Antonio Juanes de la Aina García C		🛞 Con este cu	rso puedes cons	eguir

- 2014-2019 → 8 editions
- 9000 enrolled students \rightarrow 2000 certified
- 45% increase of visits to the IHC web page

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• Linkedin group \rightarrow 48% new members (800)

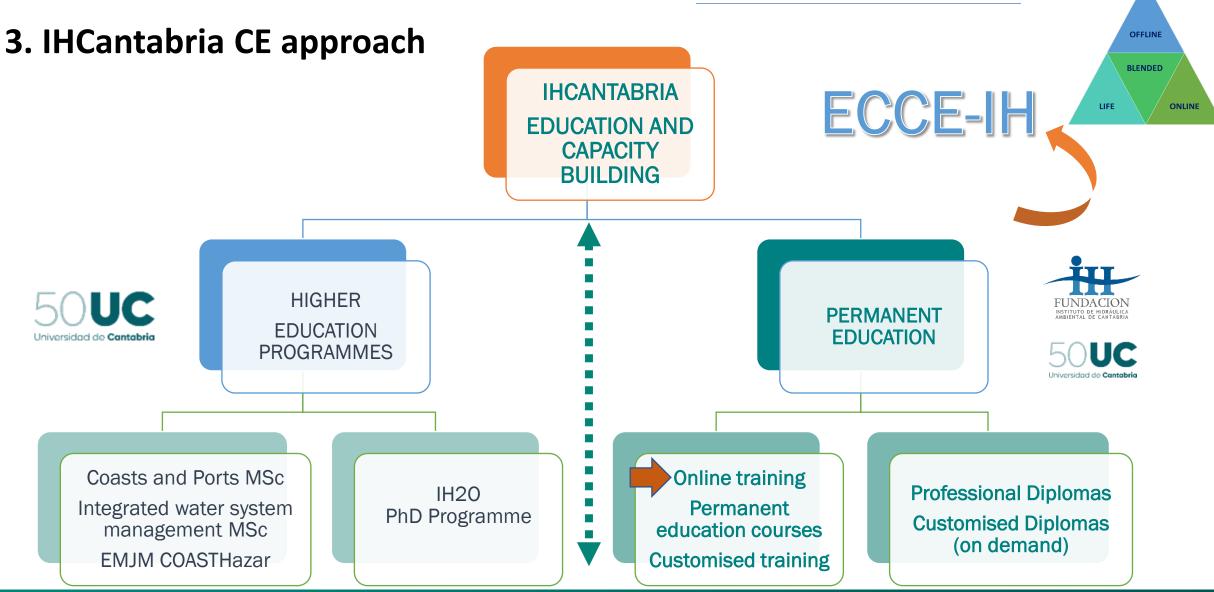








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4. First steps: MOOCs \rightarrow Learning itinerary. 2 Approaches

"Specialized TRaining on Applied tools for Sustainable MARine EcosystemS" TRASMARES EU ERASMUS+ . KA203: Strategic Partnerships for HE

General objective

To consolidate an **innovative, open, online and officially certified education**, by means of a **micro-credential** integrated by different thematic MOOCs on "Sustainable Marine Ecosystems".

Specific objectives

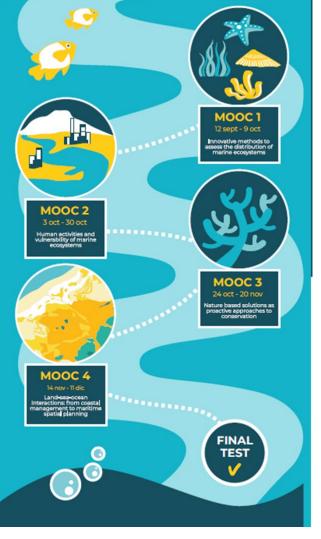
- > Develop a flexible, digital and dynamic **specialized capacity building**.
- Facilitate an open, online, flexible and **lifelong learning**.
- Promote the digital transformation.
- Reinforce the internationalization.



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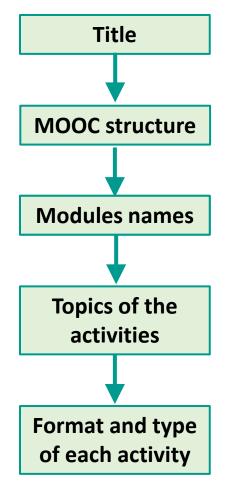
Pilot edition: 2022 → Next 3 courses: September – December (2023-2025)

Itinerary (<u>https://miriadax.net/curso/itinerario-specialized-training-on-applied-tools-for-sustainable-marine-ecosystems/</u>)





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MODULE	ACTIVITY	ТҮРЕ	FORMAT
Introduction to the course	Presentation of the course	Introduction	Talking head
	Marine ecosystems: types and definitions	Master class	Talking head+images
	Saltmarshes	Concept	Talking head+videos
Introduction to marine ecosystems	Seagrass meadows	Concept	Talking head+videos
		Concept	Talking head+videos
	EVALUATION: Module 1	Evaluation	Test
	Introduction to Module 2	Introduction	Talking head
	Approaches to biodiversity characterization	Master class	Talking head
		Concept	Talking head+videos
	EVALUATION: Differences between species and functional		
Marine ecosystems characterization	diversity	Evaluation	Practical exercise
	Biogeographical patterns	Master class	Talking head
	Vertical zonation of marine species at local scales	Concept	Animation
	Temporal scale in species distribution: Phenology	Concept	Talking head
	EVALUATION: Module 2	Evaluation	Practical exercise
	Introduction to Module 3	Master class	Talking head
	Starting point: the UN Millennium Declaration	Interview	
	Do we know what are the mearine ecosystem services in		
Functions, services and benefits of	our surroundings?	Survey	
marine ecosystems	Biophysical quantification of ecosystem services	Concept	Animation
	Monetary valuation of ecosystem services	Concept	Animation
	Cultural services	Interview	
	EVALUATION: Module 3	Evaluation	Test



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PROGRAM LIFE- ADAPTATION TO CLIMATE CHANGE.

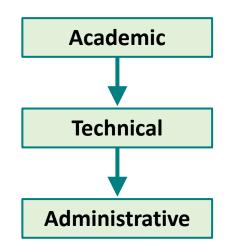


- A different way to engaging scientists & funding Continuous Education activities.
- An opportunity for R&D Groups to disseminate results and "capacities".
- A preliminary requirement to apply to advanced/specialized education courses.
- A perfect approach to implement the EU Strategies on Permanent Education









- Poor digital skills of teachers and researchers
- Difficulty in synthesizing scientific knowledge
- Need for learning objectives based on "real experiences" (*learning by doing*)
- Interesting experience for R&D Institutes
- Engagement of Mass media Social media professionals
- Planning of Recording and Editing activities
- Need of an e-learning platform: Contents' layout / Students' access
- MOOC's homogeneity assurance & quality control: Structure / Videos
- Official recognition of acquired competences (ECTS, credits, diplomas...)
- Importance of funding schemes (LIFE, ERASMUS+) for new capacity building actions



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