

**SEArica Intergroup**

# **Turning the tide: How to drive climate resilience in coastal and maritime infrastructure**

## **The example of the Map Viewer for Scenarios and Impacts of the Region of Valencia**

**Brussels**

**21st February 2024**



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**Climate emergency**



**Development of a Map Viewer  
for adapting the Valencian  
coast to climate change**



**Actions + regulations**



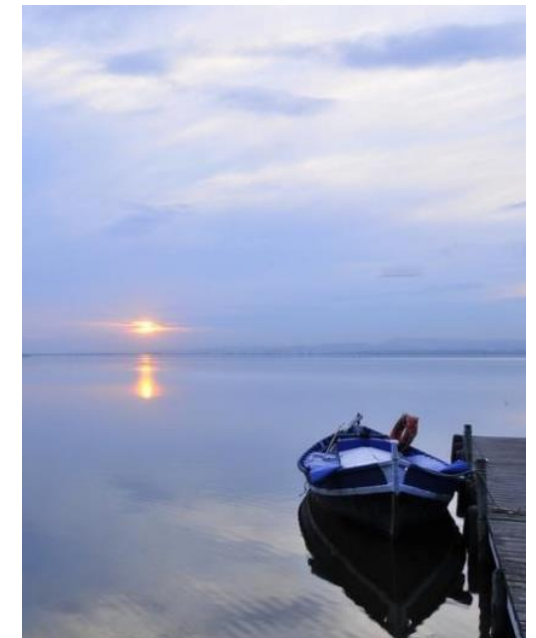
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# THE VALENCIAN COAST

- 474 km
- Myriad an ecosystems and landscapes.
- Much of our economy depends on the coast and the sea: fishing, tourism or maritime transport, among others.
- The economic models of recent decades is a threat to the coast: intensive use and vulnerability.
- Climate change: sea level and temperature rise, increase in temperature, acidification, changes in water dynamics,...



# MAP VIEWER:

<https://geoadaptacostes.gva.es/>

## Projections

- 2050 and 2100

## Modelling

- Floodability models
- Erosion models

## Risks

# Visor per a l'adaptació al canvi climàtic de la costa

Perillositat

Impactes

Riscos



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# MODELLING VIEWER FOR ADAPTING TO CLIMATE CHANGE ON THE VALENCIAN COAST

## THREATS

- Based on historical marine dynamics and mid-century and end-of-century projections: sea level, heavy swell, meteorological tides and superficial temperature sea rise.

## IMPACTS

- Floods and acceleration of beach erosion



# ACTIONS TO THE CLIMATE EMERGENCY ON THE COAST

## PROTECTION

- Regeneration of dune systems
- Protection of marine meadows
- Restoration of wetlands
- Creation of a network of protected marine areas



## ADAPTATION

- Reduce Vulnerability: early alert systems, evacuation protocols...
- Specific regulations for the construction of infrastructures and buildings.



## WITHDRAWAL

- Planned evacuation of the areas that maybe impacted by climate change

# REGULATION FOR THE CLIMATE EMERGENCY

1

Valencian Strategy for Climate Change and Energy 2030

2

Regional plan for adapting to climate change for maritime-terrestrial public domain lands assigned to the Region of Valencia

3

Law on Climate Change and Ecological Transition of the Region of Valencia

4

Valencia Integrated Energy and Climate Plan



# Thank you!

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