

# Rewilding European Shorelines and Beyond



We promote the adaptation of the innovative conservation approach of 'rewilding' as a nature-based solution to restore Europe's intertidal areas, addressing the biodiversity and climate crisis.



## THE CURRENT STATUS

Higher greenhouse gas concentration, urbanisation, pollution, etc.

### Climate change and biodiversity challenges



## THE PROBLEM

Pollution, fragmentation and loss of **seascapes** and their **key habitats**.



## THE EFFECTS OF THE PROBLEM

Seascapes provide **ecosystem services** that can help us fight the biodiversity-climate crisis

Ecosystem services represent the various benefits human gain from the natural environment and the functioning of ecosystems



## ONE WAY TO SOLVE THE PROBLEM



REWRITE's goal is to design scenarios of **rewilding intertidal soft sediment seascapes** to deliver high **co-benefits for society and nature**.

## WHAT REWRITE NEEDS TO DO TO REACH ITS GOAL



Reduce the **uncertainty** of future trajectories of intertidal soft sediment seascapes



Assess the **cascading effect** from local to global environmental change



Assess **how society engages** to agree upon and / or overcome the trade-offs of rewilding, considering environmental and societal benefits and costs

## THE REWRITE METHODOLOGY

**Remote sensing and stakeholder engagement are used to map ecosystem services from local to global scale.**

### Stakeholder engagement



People are engaged at both local and European level.



Thanks to the biophysical knowledge gained from REWRITE, they will be able to see seascapes in the past, present and future.



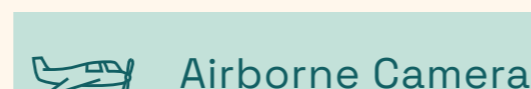
REWRITE will allow them to see the societal benefits supplied by seascapes.

### Remote Sensing

#### Observation techniques



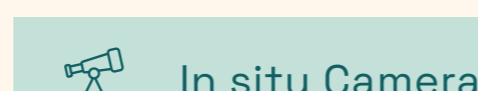
Satellite



Airborne Camera



Drone Camera



In situ Camera



Lab Camera

#### Spatial

Global

100 km<sup>2</sup>

km<sup>2</sup>

m<sup>2</sup>

cm<sup>2</sup>

mm<sup>2</sup>

### Calibration, validation and projection

3D visualisation

Numerical modelling (projecting)

Field campaigns  
Lab experiments  
User interviews

**Bringing research closer to society**

## WHERE AND WHO?

REWRITE is an interdisciplinary consortium of 24 partners from the academic and private sectors, representing 8 European tidal coastal states as well as the UK, Canada and the USA.

