



Adapto

Ten initiatives of flexible coastal management

Conservatoire du littoral
Marion COQUET



Workshop on Implementation of
Nature-based Solutions to tackle climate
change

Marseille (France)
22-24 January 2019



Conservatoire du
littoral



Wetlands
INTERNATIONAL

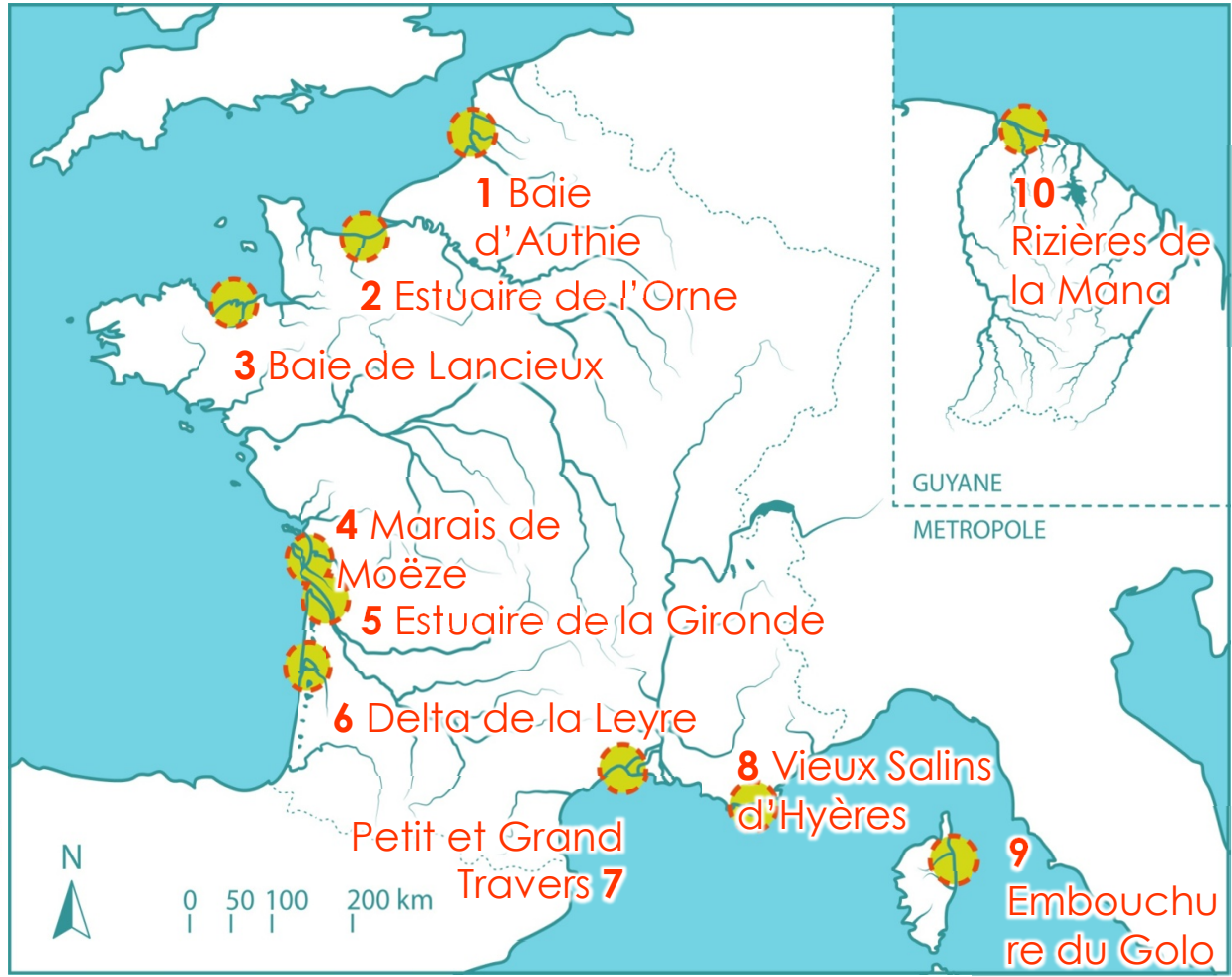


Introduction

Issue of Climate change: marine erosion and submersion

- **Type of ecosystem:** coast, estuaries, deltas, mangrove, salt marshes, saline, etc,
- **Type of NbS:** Natural dynamics and ecosystems restoration
- **Project partners:** BRGM (French geological survey), Natural History Museum, National School of Landscape Architecture, several universities
- **Calendar:** October 2017 to December 2021
- **Funding:** European commission (60%), French Water Agency, French Agency for Biodiversity, Total Foundation, Fondation de France.

Introduction

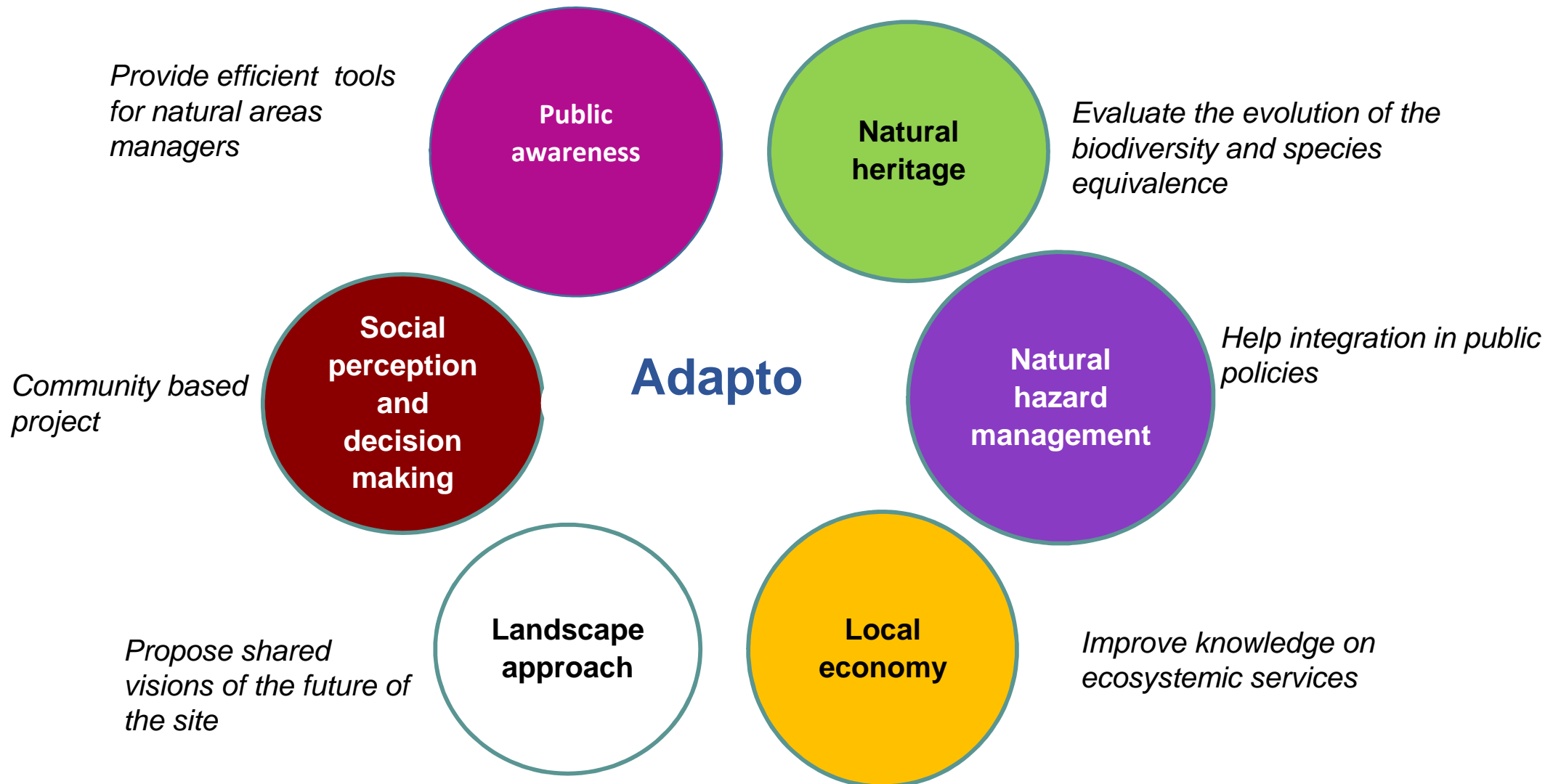


Objective :
 Proving that the integration of ecosystems and natural habitats in a flexible coastal management can be a solution to the adaptation to the climate change of non-urbanised coastal areas



Objectives

Adapto : Interdisciplinary approach





Vieux Salins d'Hyères



- Old saline
- Production until 1995
- 350 ha
- Property of Conservatoire du Littoral since 2001
- Posidonia reef

Carte des paysages
Cartographie L. VELAY ; ortho2014 IGN



Vieux Salins d'Hyères



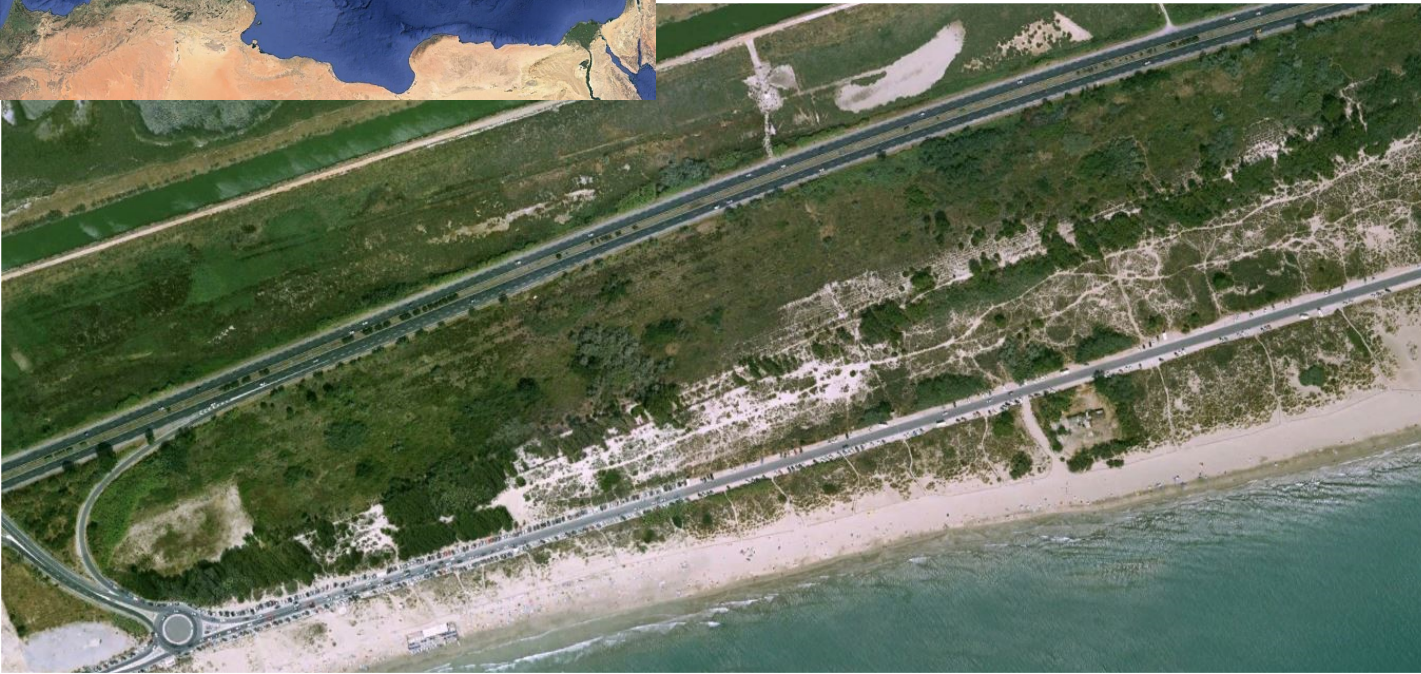
3 planning scenarios to adapt to climate change:

- **Do nothing**
- **Resist:** maintain the breakwater
- **Adapt with NbS**

Suppression of the breakwater to allow natural dynamics restoration
Dune rehabilitation



Lido du Petit et Grand Travers



Adaptation to erosion based on **managed retreat** (from 2013) after a decade of concertation:

- Road suppression to restore natural sand exchanges between the beach and the dune system
- Creation of parking areas and organisation of pedestrian paths
- Dune rehabilitation with sand nourishment plantation and protection with fences



Implementation challenges and best practices

Develop methodological tools to initiate, monitor and evaluate adaptation solutions for coastal areas based on the ecosystems

- Multicriteria analysis
- Landscape approach
- Sociological studies

Develop the understanding of those solutions and their acknowledgment at local, national and transnational levels:

- Nature dynamics knowledge
- Pedagogy and communication
- Long term concertation
- Management and financial partnership

Experiment

- Solution from a shared vision of the site
- Monitor the effects of the solution
- Re-adjust



Thank you

For more information :

www.lifeadapto.eu

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