

Decision-support Platform & Toolbox for wetland restoration

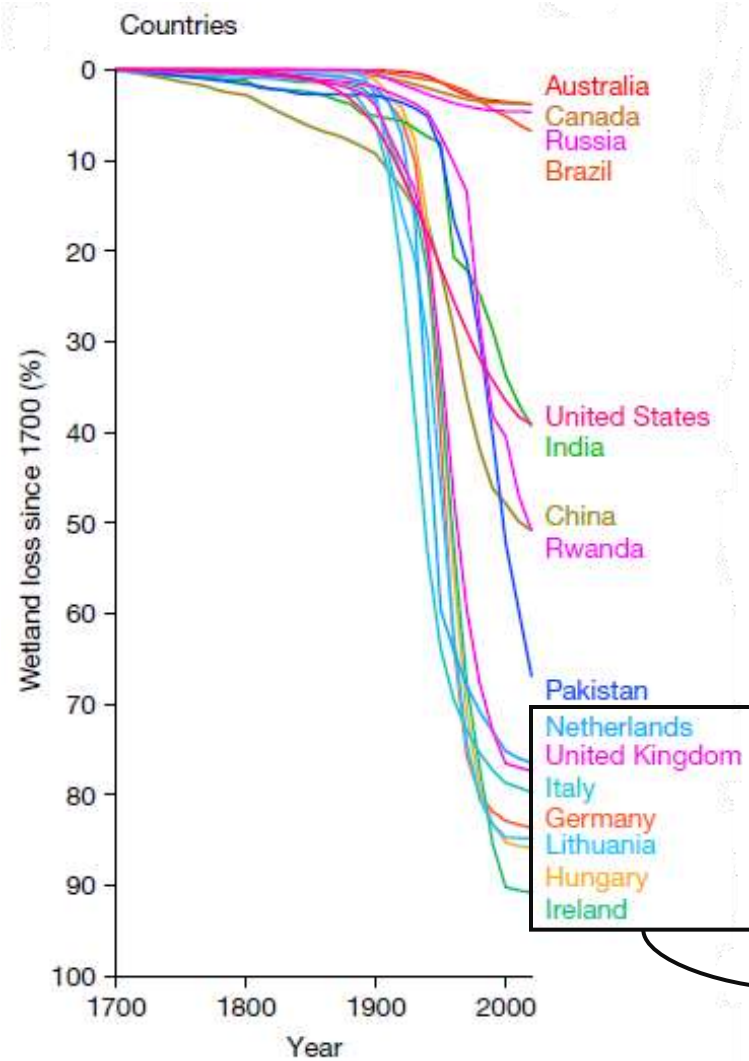
Anis Guelmami (Tour du Valat)

Coauthors: Christoph Schröder, Gabriel Martorell, Antonio Sanchez, Michael Ronse

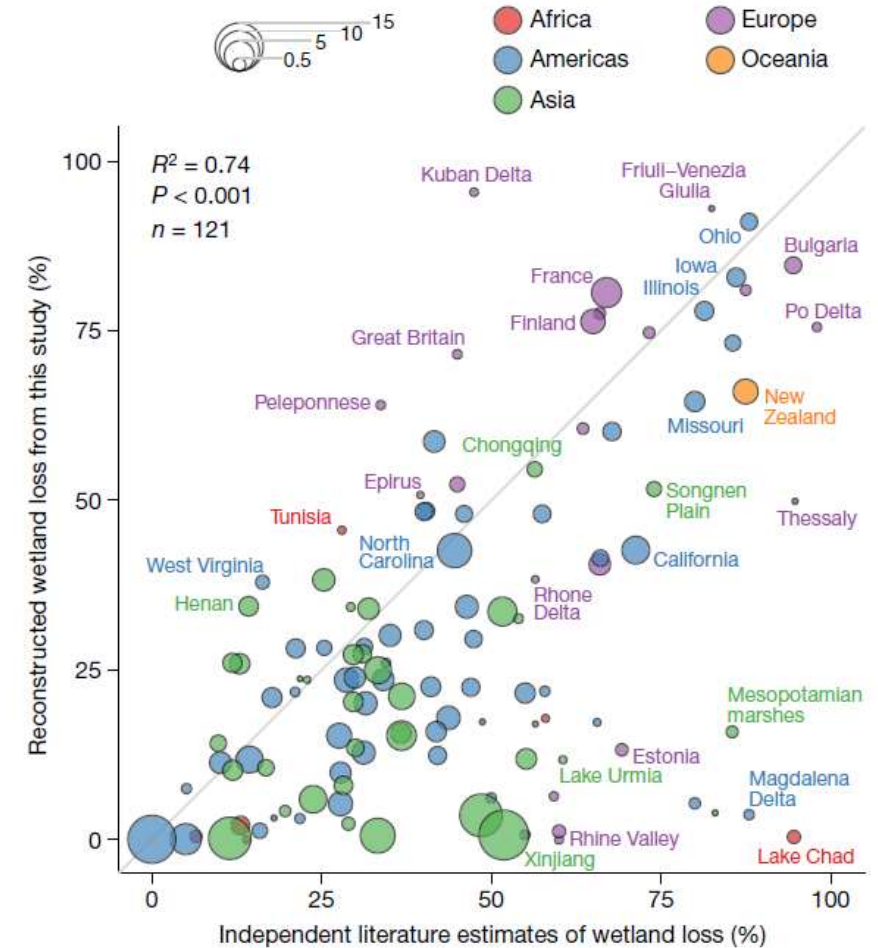


Estimated loss of natural wetlands in **Europe** over the last 300 years

-50%



European countries





Decision-support Platform & Toolbox

- **Wetland restoration under the spotlight**
- **Increasing social and political demand**
- **Nature Restoration Law**
→ *Restore at least 20% of ecosystems in EU by 2030*
- **Increasing financial resources** available



So...

let's massively restore wetlands?



NOT THAT SIMPLE

Multiple **challenges** in practice before achieving this result

Before having « **ready-to-restore** » wetland sites, we need to assess:

- ✓ Spatial identification / delimitation
- ✓ Reversibility of the transformation
- ✓ Ecological and conservation relevance
- ✓ Local governance (i.e. land ownership)
- ✓ Political support
- ✓ Social acceptability
- ✓ Technical feasibility and expertise
- ✓ ...



Need to better match funding opportunities with real needs



Funded by
the European Union

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Submit data

Home

Coastal Wetlands Restoration Decision-support Platform

Toolbox
TdV
Map viewer / dashboard

Catalogue and metadata
UNILE / LW ERIC
Catalogue based on GeoNetwork

Map viewer
UMA
Visualise and access / download data

Coastal Wetlands Restoration Prioritisation Toolbox

≡ Indicators

Wetland extent

Existing wetlands

Potential wetlands

Wetland conservation status

Wetland conditions

Pressures

Ecological status

Hydrological conditions

Protection level

Ownership

Wetland restorability

Ecosystem Service

Biodiversity Support

Regulation

Provisioning

Cultural

≡ Actions prioritization

Prioritization focus

☐ Conservation ☐ Restoration

Target

☐ Climate

☐ Biodiversity

☐ Water

Benefits

☐ Socio-economic

☐ Environmental

☐ Socio-cultural

≡ Future scenarios

☐ Baseline LULC

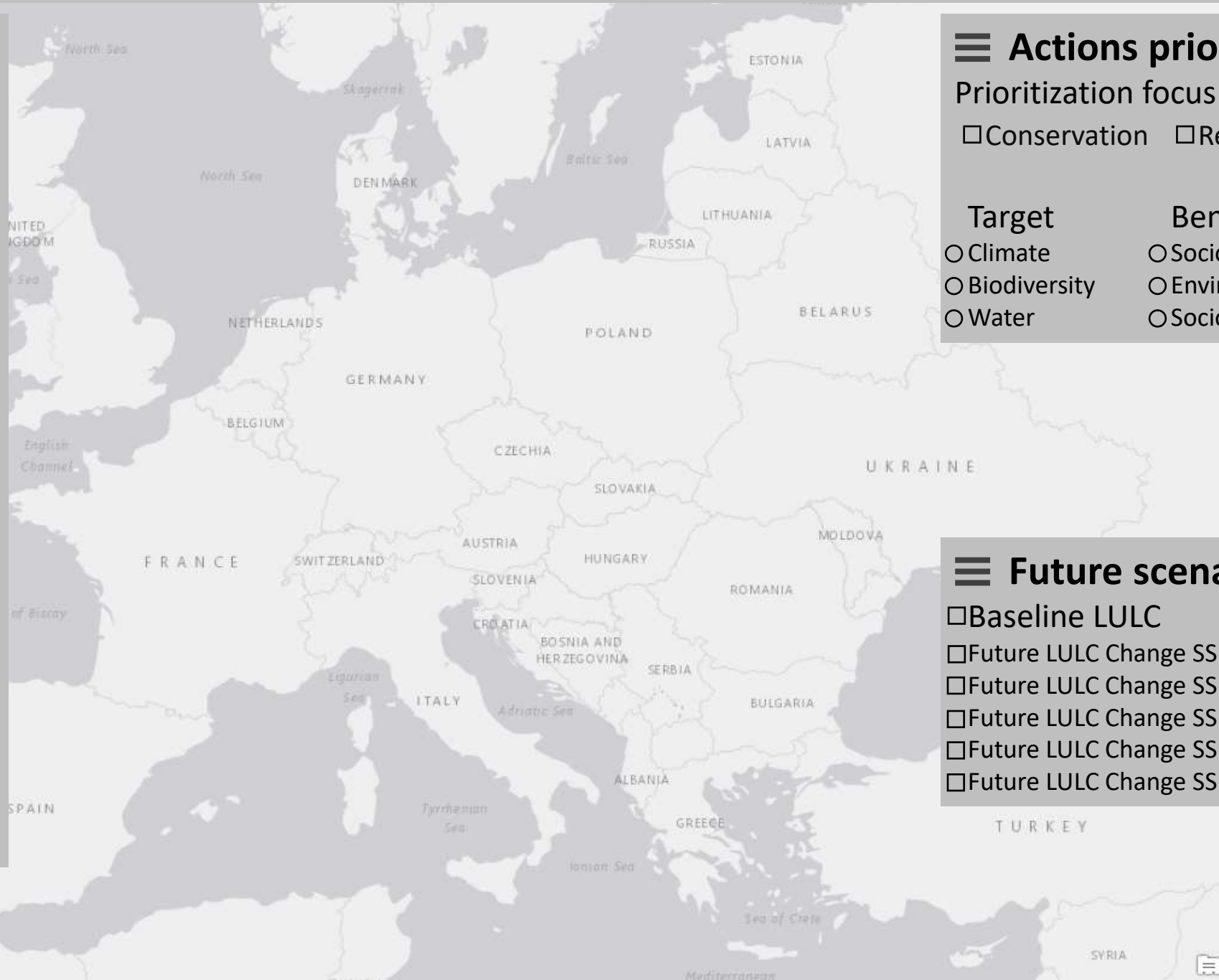
☐ Future LULC Change SSP1

☐ Future LULC Change SSP2

☐ Future LULC Change SSP3

☐ Future LULC Change SSP4

☐ Future LULC Change SSP5



Coastal Wetlands Restoration Priorisation Toolbox

≡ Indicators

Wetland extent

Existing wetlands

Potential wetlands

Wetland conservation status

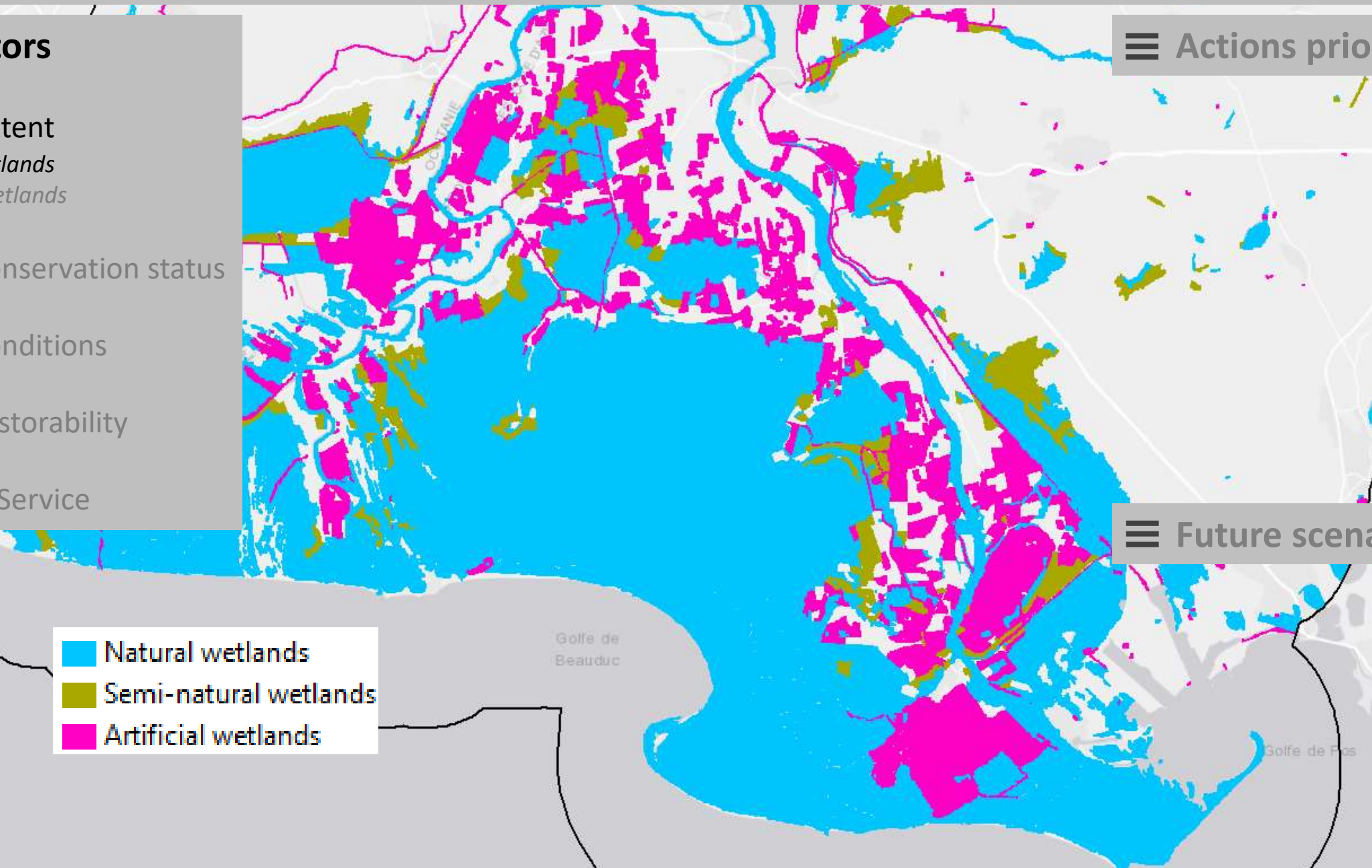



Wetland conditions

Wetland restorability

Ecosystem Service

≡ Actions prioritization

≡ Future scenarios

- 
- The map displays a coastal area with various wetland types. A legend in the bottom-left corner identifies three categories: Natural wetlands (blue), Semi-natural wetlands (olive green), and Artificial wetlands (magenta). The map shows a large body of water, the Gulf of Beauduc, and a smaller inlet, the Gulf of Fos. The coastline is irregular, with many small islands and peninsulas. The wetland areas are concentrated along the coast and in the interior of the landmass. The map is overlaid with a grid of white lines, likely representing administrative boundaries or a coordinate system. The background is a light gray, and the water is a darker gray.
-  Natural wetlands
 -  Semi-natural wetlands
 -  Artificial wetlands

Coastal Wetlands Restoration Priorisation Toolbox

≡ Indicators

Wetland extent

Wetland conservation status

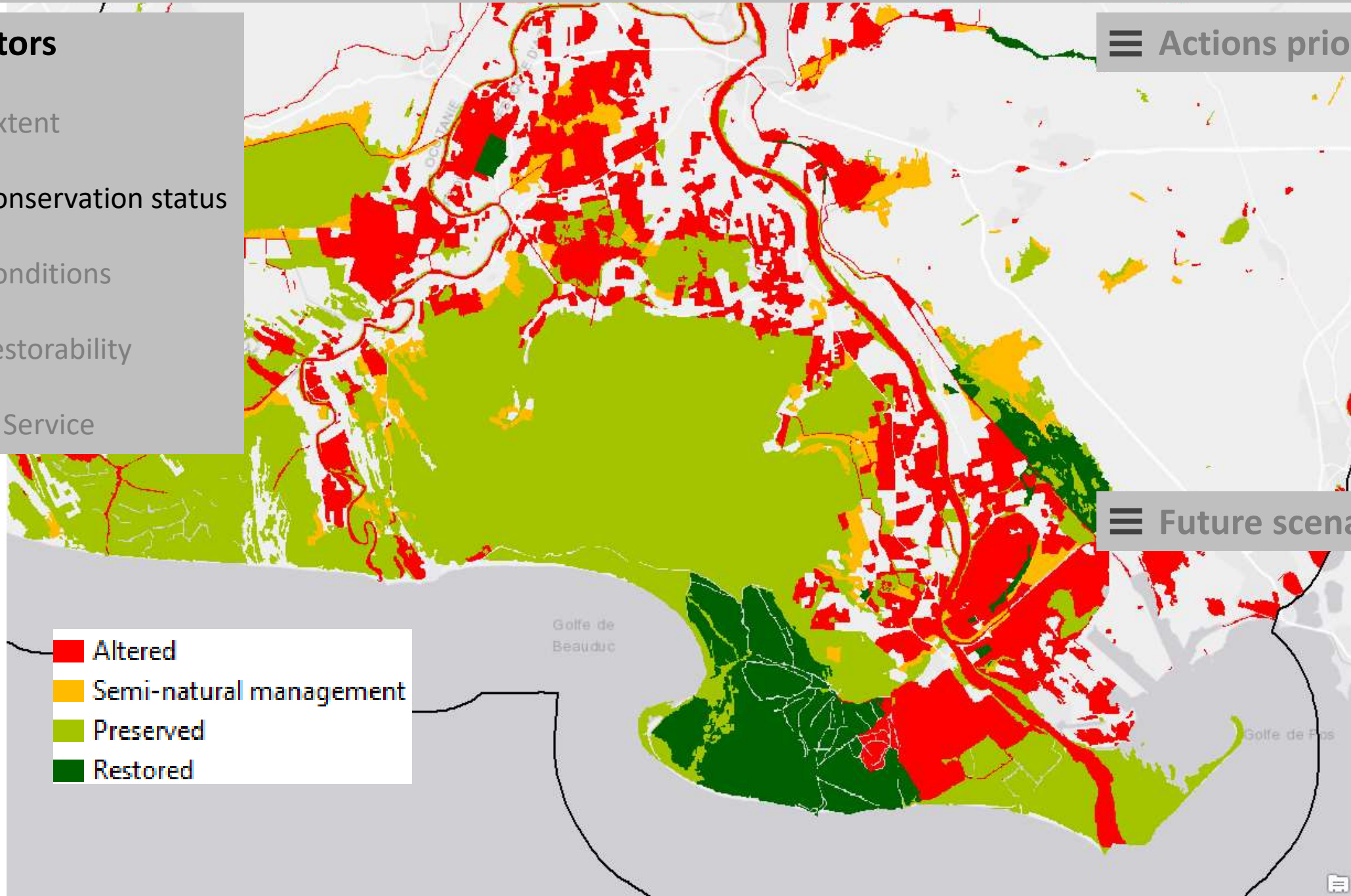
Wetland conditions

Wetland restorability

Ecosystem Service

≡ Actions prioritization

≡ Future scenarios



Coastal Wetlands Restoration Prioritisation Toolbox

≡ Indicators

Wetland extent

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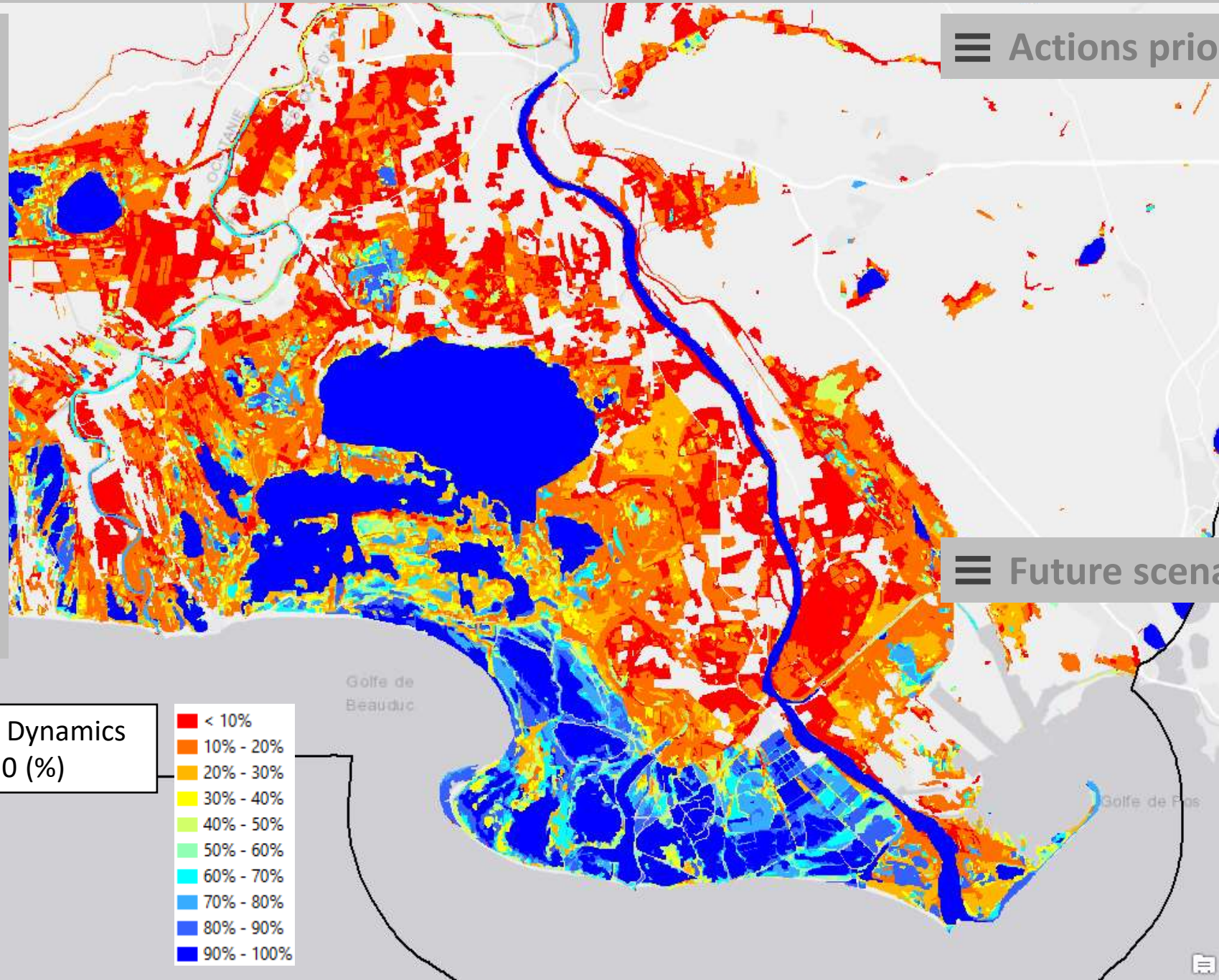
Ownership

Wetland restorability

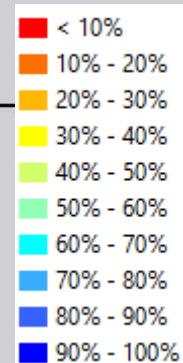
Ecosystem Service

≡ Actions prioritization

≡ Future scenarios



Surface Water Dynamics
2016-2020 (%)



Coastal Wetlands Restoration Prioritisation Toolbox

≡ Indicators

Wetland extent

Wetland conservation status

Wetland conditions

Wetland restorability

Ecosystem Service

≡ Actions prioritization

≡ Future scenarios



Coastal Wetlands Restoration Prioritisation Toolbox

≡ Indicators

≡ Actions prioritization

Prioritization focus

■ Conservation □ Restoration

Target

○ Climate

● Biodiversity

○ Water

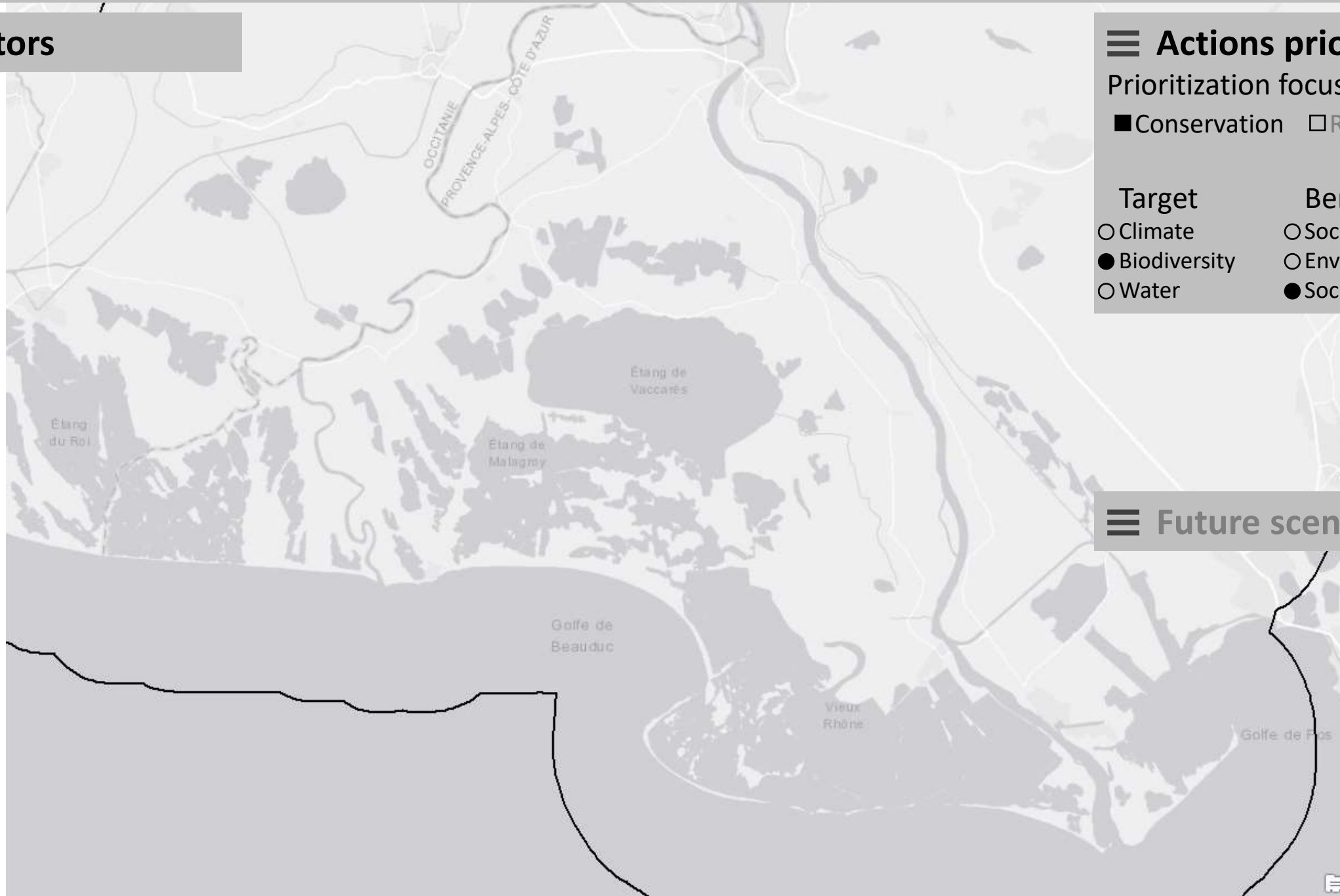
Benefits

○ Socio-economic

○ Environmental

● Socio-cultural

≡ Future scenarios





Decision-support Platform



Interactive Platform on
European Coastal Wetlands

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Spatial scale

☐ Local☒ National

≡ Indicators

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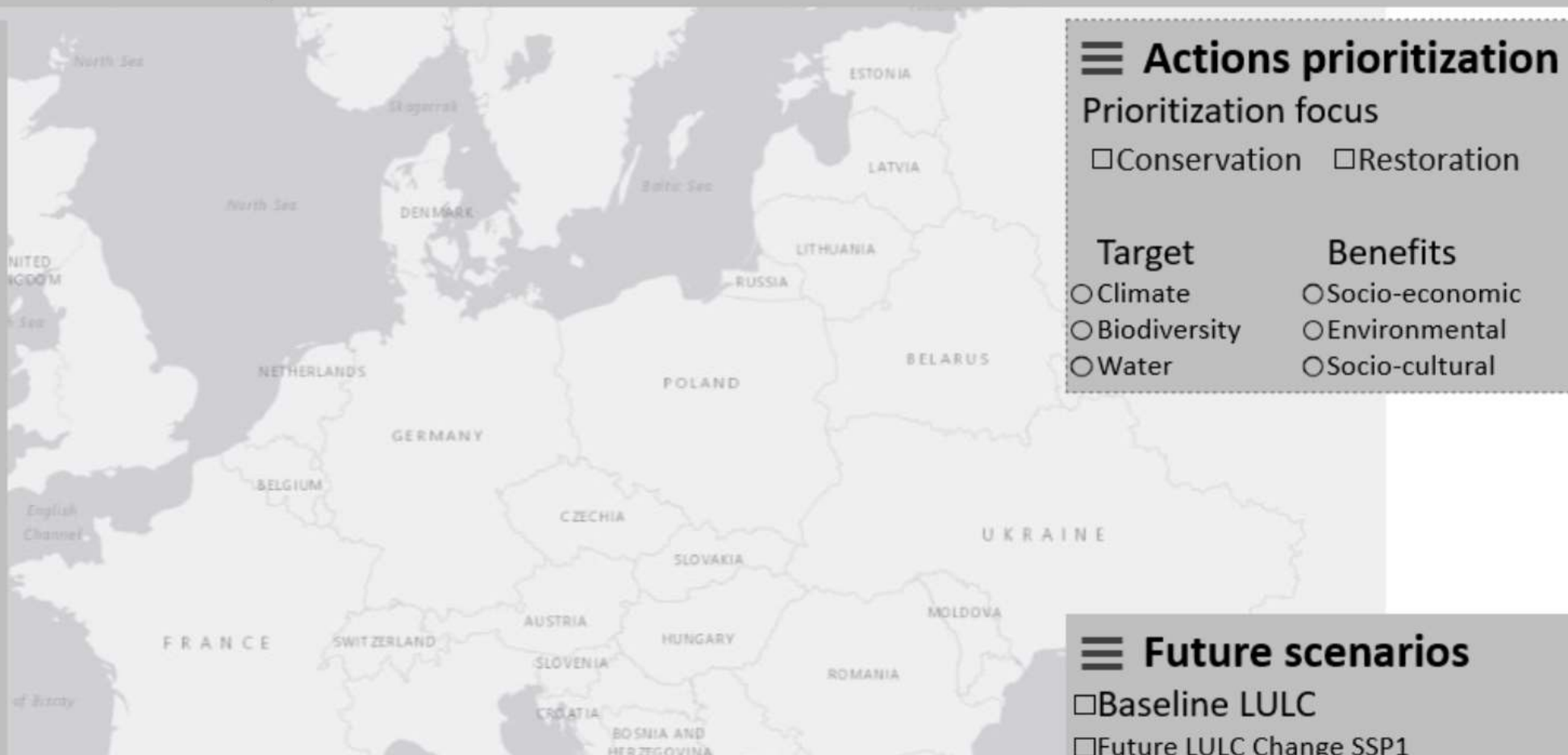
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≡ Actions prioritization

Prioritization focus

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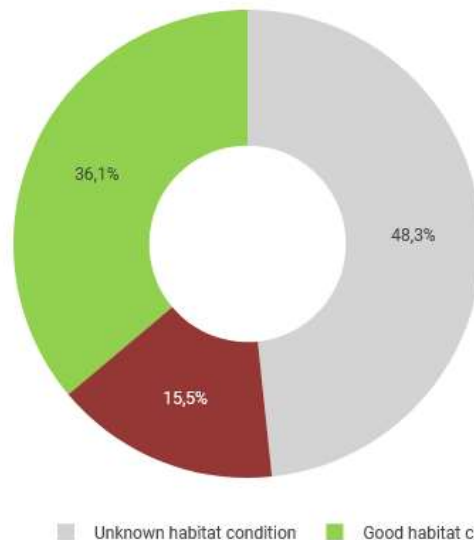
- ☐ Baseline LULC
- ☐ Future LULC Change SSP1



/ INDICATORS

Tools for tracking policy progress indicators and visualising spatial indicators

Habitat condition reported for wetland habitats



[Access the Policy Progress Tracking tool](#)

[Access the Spatial Indicators tool](#)

Resources and information



[Learn how to use the interactive tool](#)



[Explore the data and metadata](#)



[Policy briefs, technical reports, guidelines and protocols](#)



Decision-support Toolbox

[1. Prioritisation tool](#)
[2. Planning tool](#)

Policy Progress

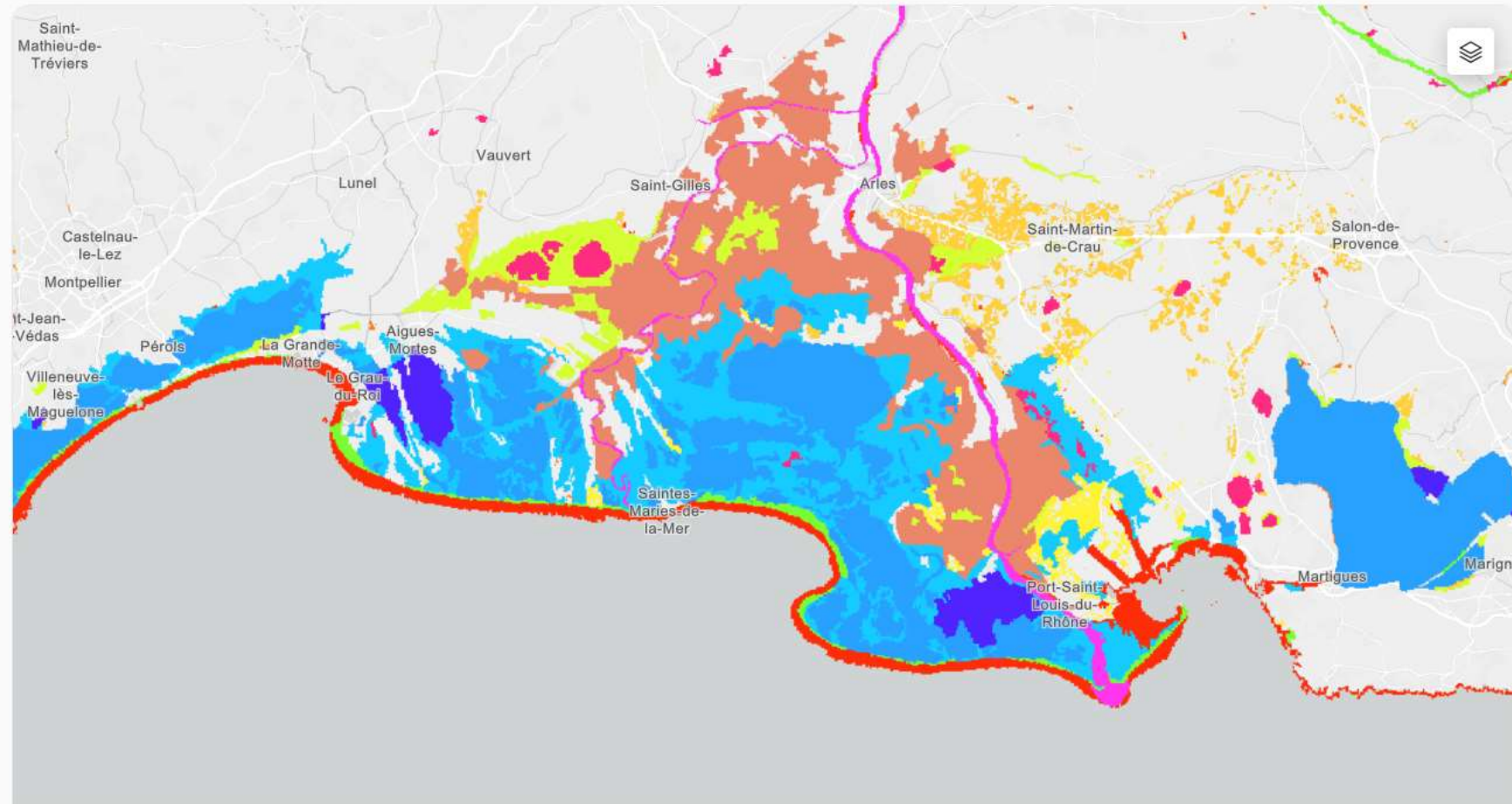
[1. Tracking tool](#)
[2. Spatial indicators](#)
[3. General map viewer](#)

Coastal Wetland Restoration Rate

	AAA	BBB	CCC
111
222



Extension of Coastal Wetlands Protected and Strictly Protected





Open issues and next steps

- **Prioritization Toolbox:** Additional layers and data are needed for a better prioritization of wetlands to restore
 - Biodiversity relevance (KBAs, PAs, wetland conditions...)
 - Improvement of ecological corridors
 - Wetland GHG profiles
 - Urban and regional planning tools / priority uses
 - Land status and ownership
- **Online Platform:** A few technical development issues still need to be solved
 - Integration of different tools and modules (Toolbox, Map Viewer, Metadata catalogues...)
- **Next steps:**
 - Final data gathering for at the EU scale
 - Integration of all indicators
 - Finalizing the integration of all tools and modules into the Platform



Thank you