



Decision-support Platform & Toolbox for wetland restoration

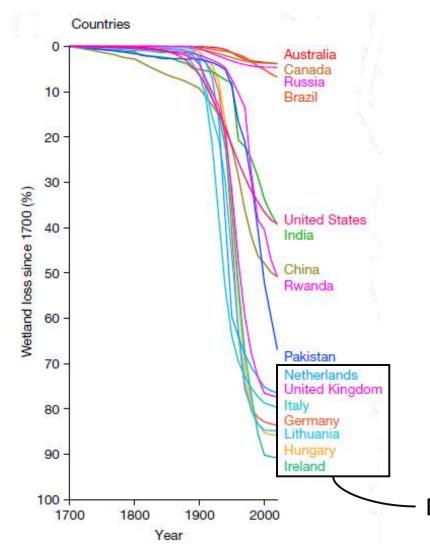
Anis Guelmami (Tour du Valat)

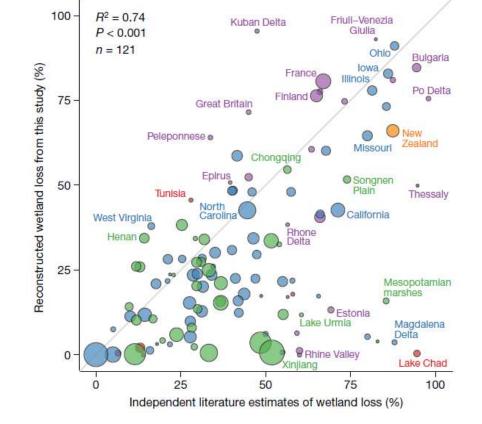
Coauthors: Christoph Schröder, Gabriel Martorell, Antonio Sanchez, Michael Ronse



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







European countries

Europe

Oceania

Americas

Asia





- 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





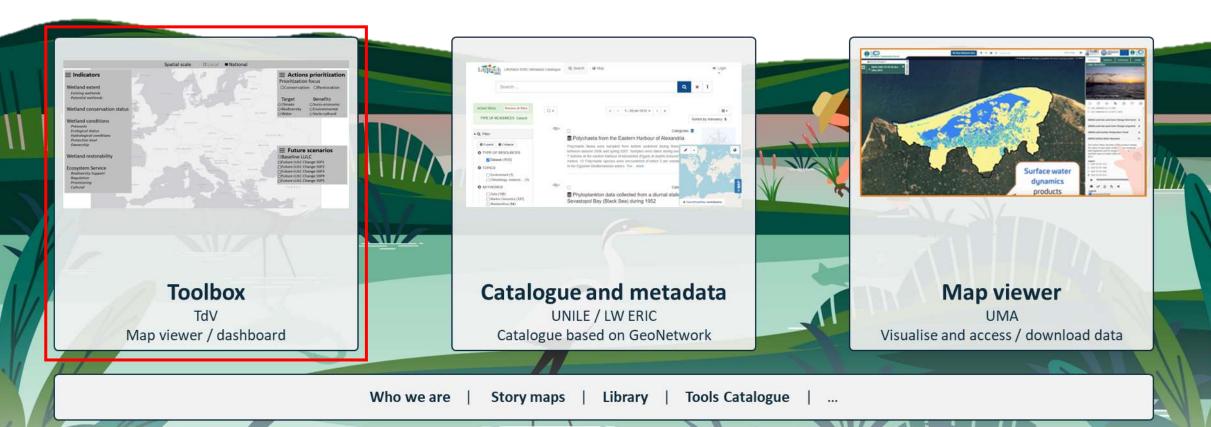


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Coastal Wetlands Restoration Decision-support Platform



■ Indicators

Wetland extent

Existing wetlands
Potential wetlands

Wetland conservation status

Wetland conditions

Pressures
Ecological status
Hydrological conditions
Protection level
Ownership

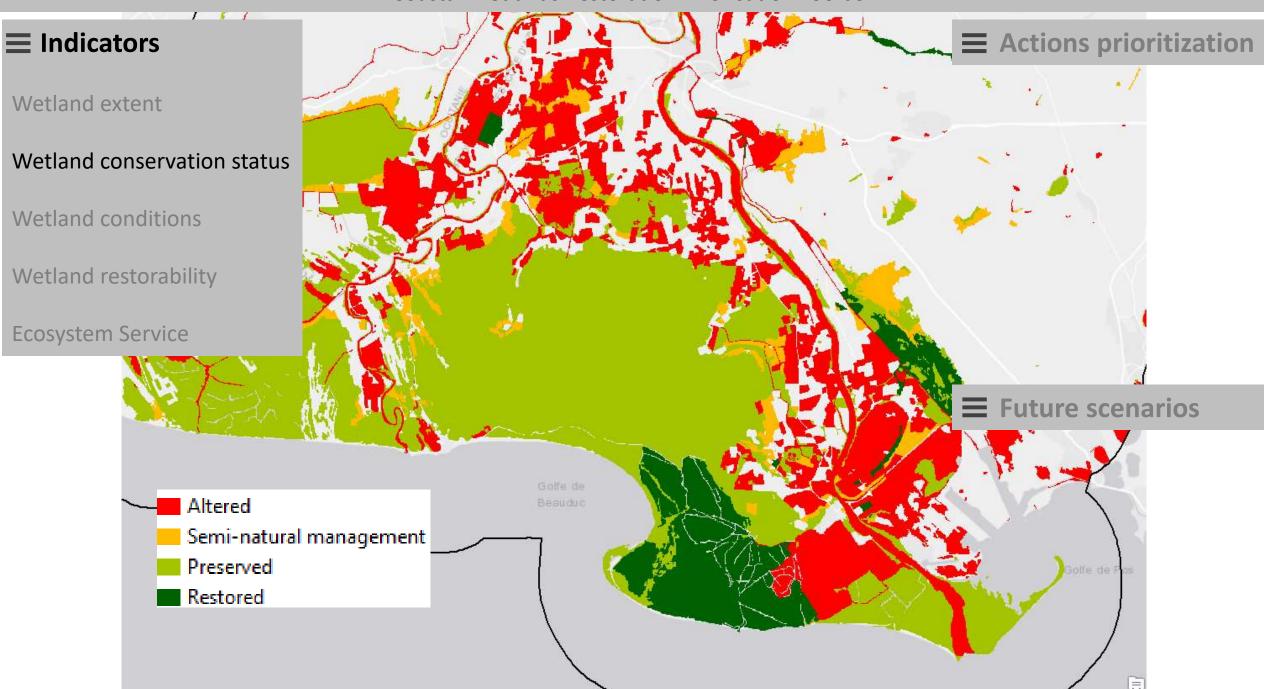
Wetland restorability

Ecosystem Service

Biodiversity Support Regulation Provisioning Cultural



Coastal Wetlands Restoration Priorisation Toolbox 1 1 **Indicators ■** Actions prioritization Wetland extent Existing wetlands Potential wetlands Wetland conservation status Wetland conditions Wetland restorability **Ecosystem Service =** Future scenarios Natural wetlands Semi-natural wetlands Artificial wetlands





Wetland extent

Wetland conservation status

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Wetland conditions

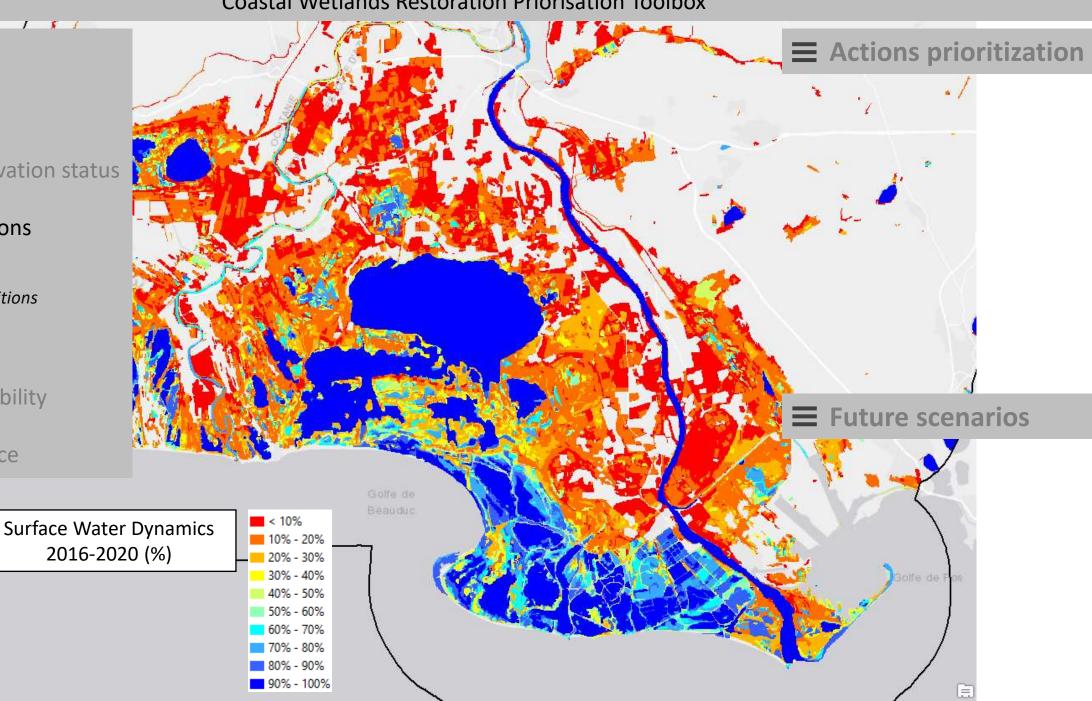
Pressures Ecological status

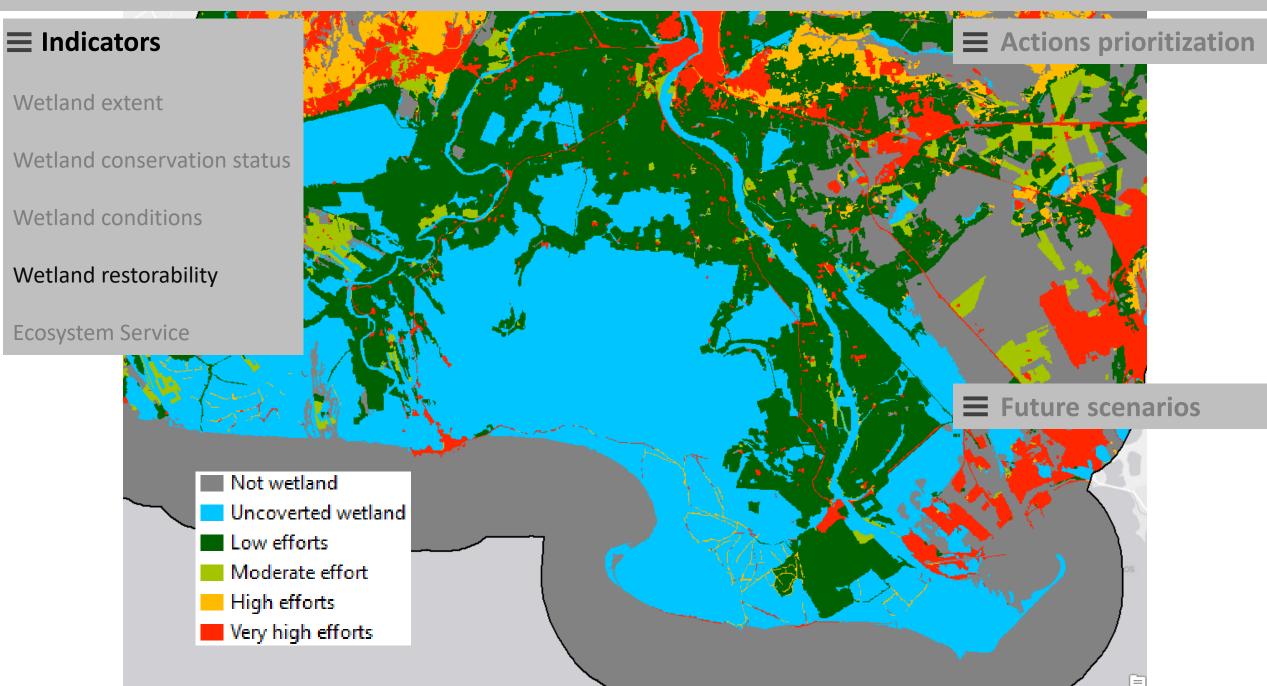
Hydrological conditions

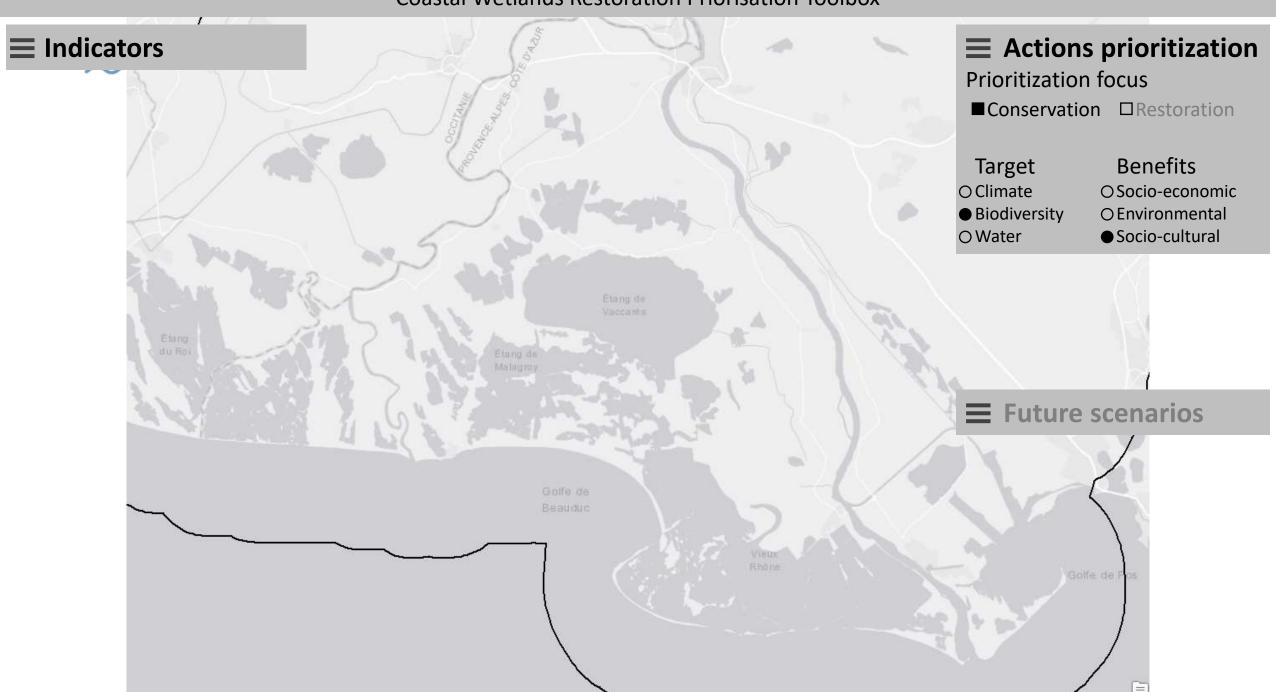
Protection level Ownership

Wetland restorability

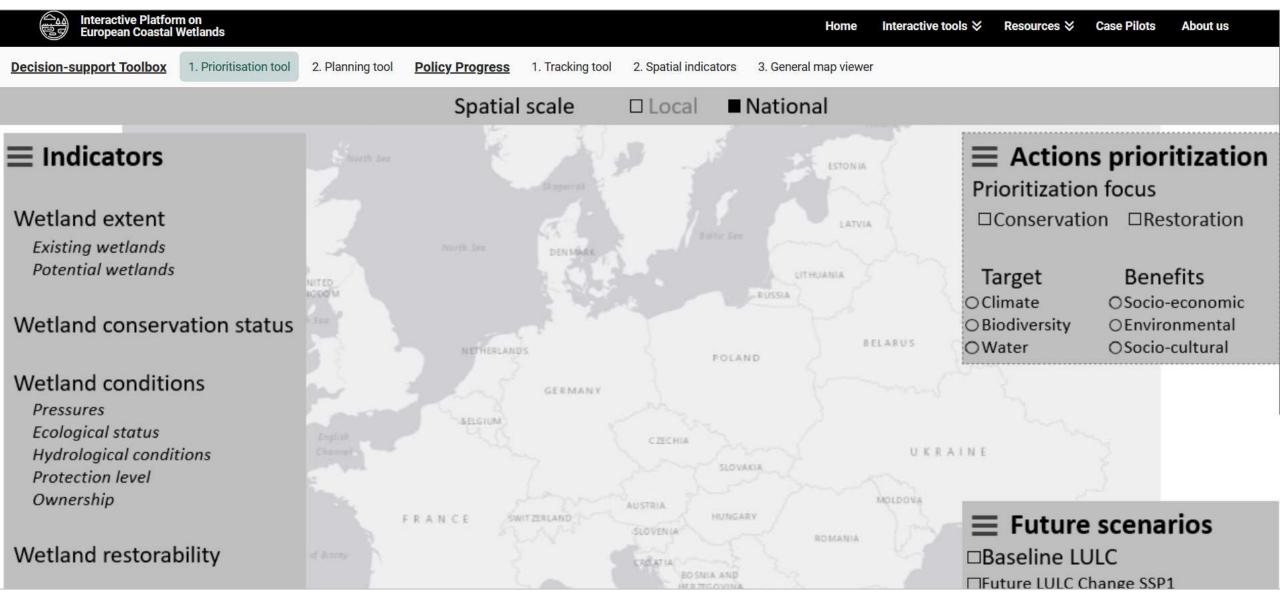
Ecosystem Service















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Decision-support Toolbox

1. Prioritisation tool

2. Planning tool

Policy Progress

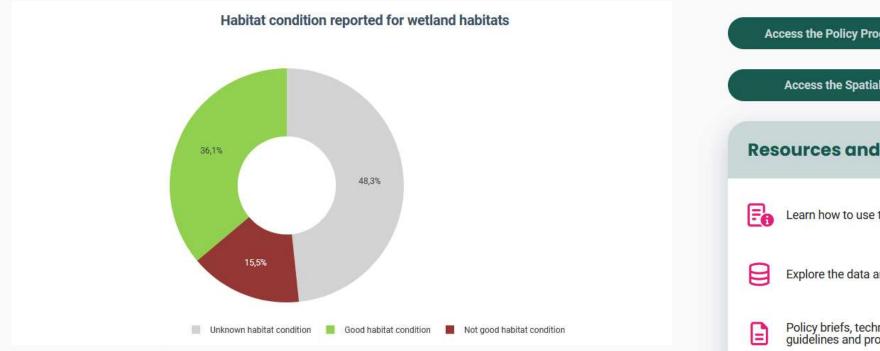
1. Tracking tool

2. Spatial indicators

3. General map viewer

/ INDICATORS

Tools for tracking policy progress indicators and visualising spatial indicators



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





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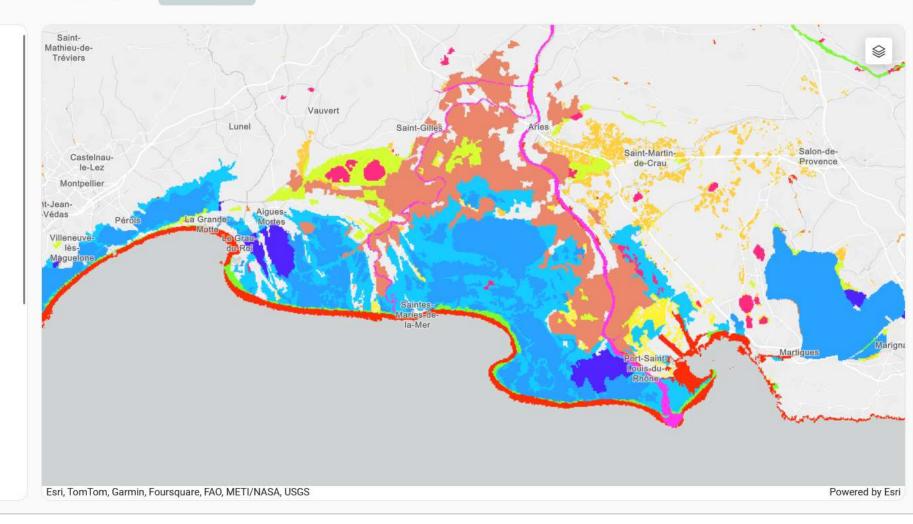
3. General map viewer

Coastal Wetland Restoration Rate

	AAA	BBB	CCC
111	•••		555
222		ea.	441



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

