

The stories of the MANABAS Coast Authie Bay

Mid term Assessment Story Presentations

 **MANABAS COAST**
NATURE-BASED SOLUTIONS

MANABAS
COAST

Interreg
North Sea



Co-funded by
the European Union

Context for the pilot Authie Bay

- Low lying, silt and dunes ,drifting north estuary
- 1980 : Conservatoire du littoral involvement
- The riverbed meanders into the estuary, eroding the banks, dunes and dykes.
- Shoreline management plan integrate NBS by local authorities : managed realignment
- Opposition from the local population to flexible coastal management



2020 - sand nourishment of 300 000 m³
2021 - wooden piles
2022 - creation of a setback dyke to allow dune mobility



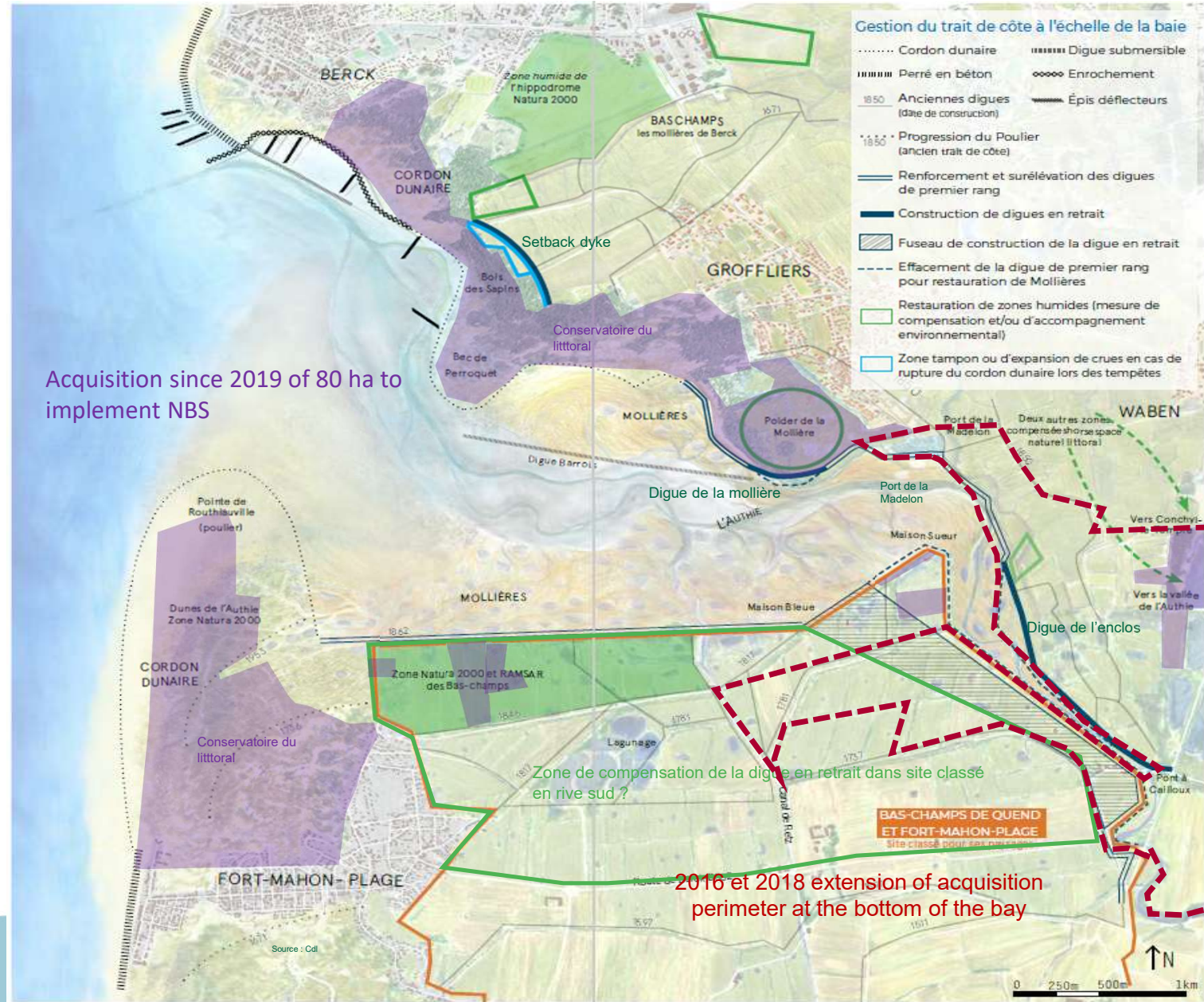
July 2025 - Erosion of the dune
Appearance of big bags placed in 2015
despite the sand nourishment of 2020



Winter storm 2023-24 –pumping to evacuate freshwater

The NBS opportunity

- Water flood expansion
- Saltmarsh restoration
- Set-backs dykes protected by NbS
- Acceptation of the River meandering



Problems: barriers to mainstreaming

- **Natural system:** Loss of freshwater wetlands. Low dune mobility
- **Social system:** Social reluctancy about change, the loss of a familiar view, the loss of a routine. However change can be beneficial.
- **Governance system:** Diverging public policies



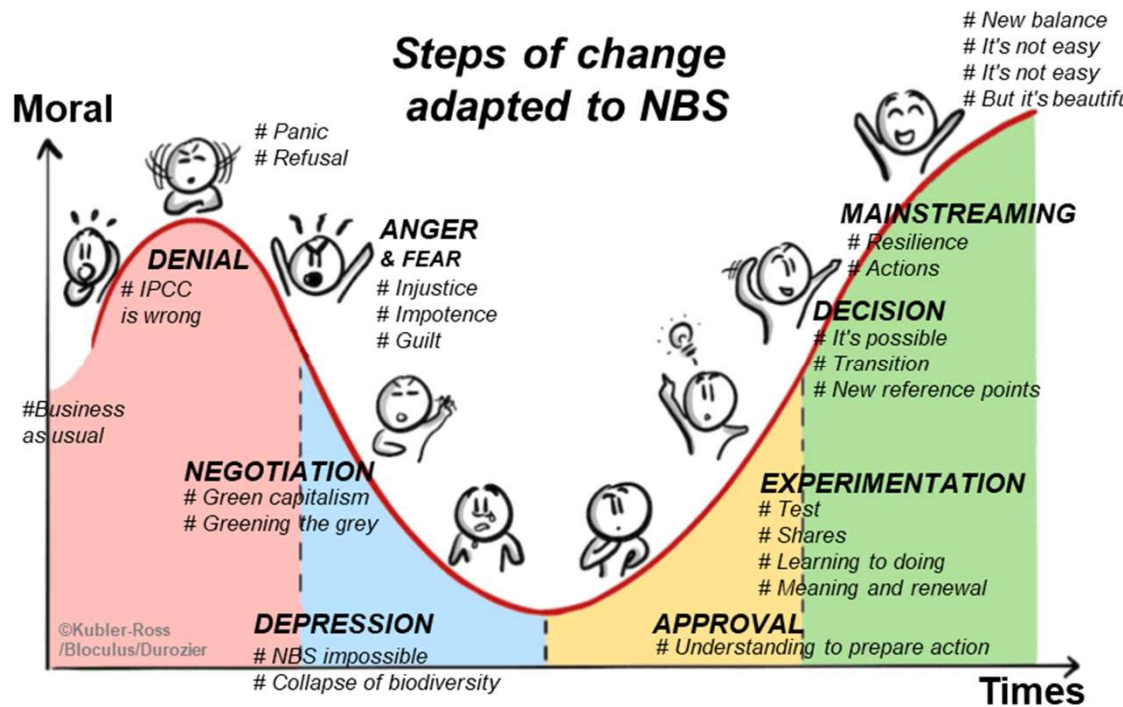
Solutions: mainstreaming actions

Understand the mindset of the region and stakeholders to :

- **Natural system:** Enabling coastal mobility (room for the bay)

- **Social system:** :
 - Prepare people's minds for alternatives to fixed shoreline agricultural study

- **Governance system:** Develop urban planning, flood control, and natural space management documents to shift from “FIGHTING AGAINST” to “LIVING WITH”



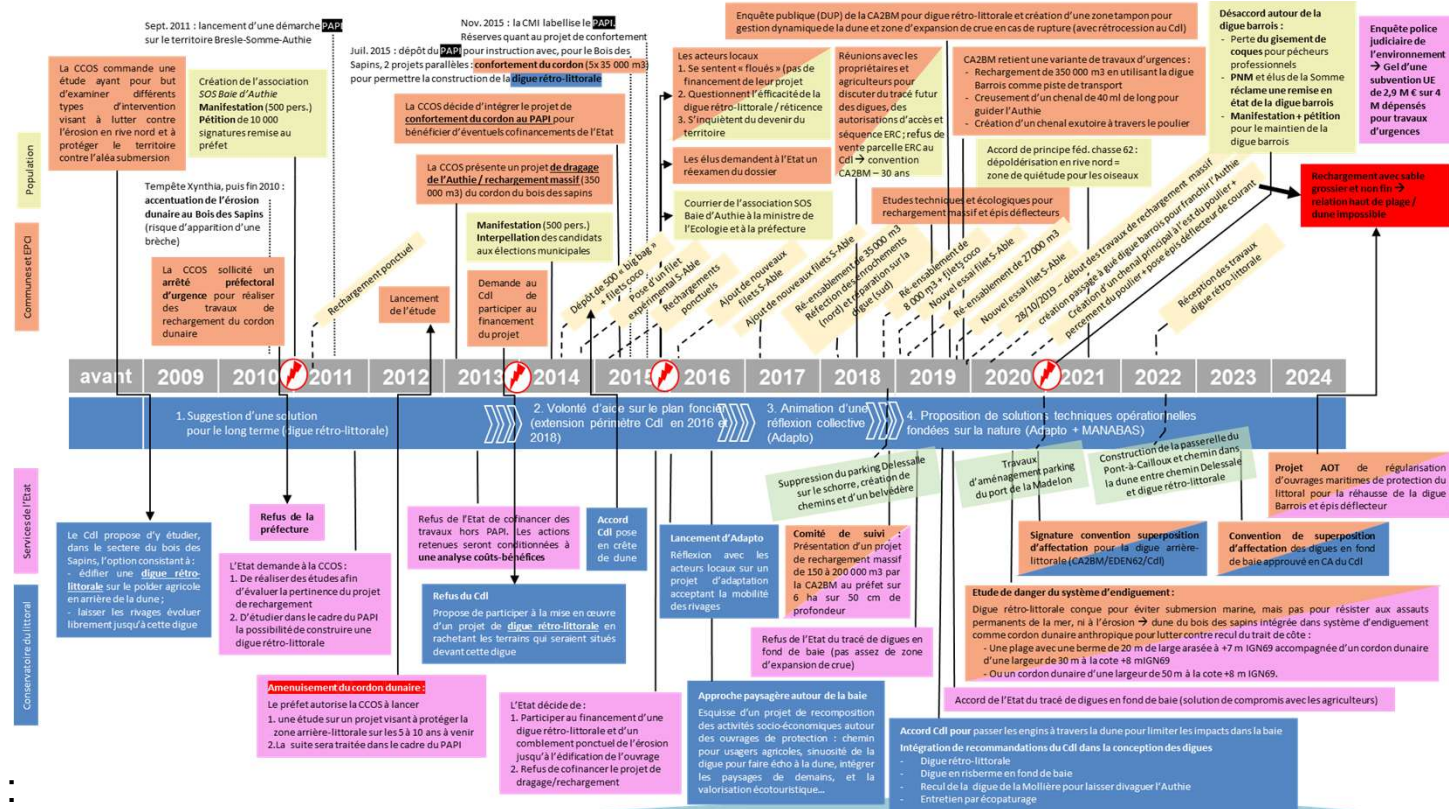
Progress to date (mid term)

• **Natural system:** limited realignment in the north (Port de la Madelon, Bois des Sapins, la Mollière). Hydraulic studies

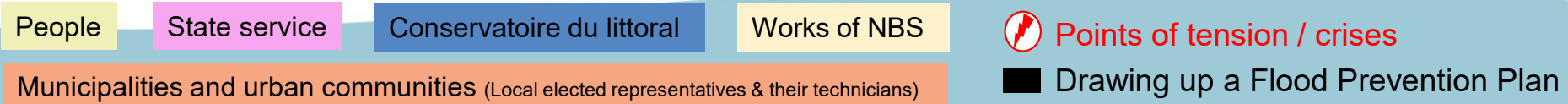
• **Social system:** Still going but encouraging work (agricultural, aquaculture, leisure)

• **Governance system:**

Scheme of complexity of acting in Authie Bay



Local geopolitics / Interaction between :



Proof: results (successes) so far

- **Natural system: Soon !**
- **Social system:** No frontal opposition from stakeholders. Hunter agreement. New path and walks with the new setback dyke
- **Governance system: Local authorities support. Change among farmers supported by local authorities, saltwort harvesters, and private landowners.**

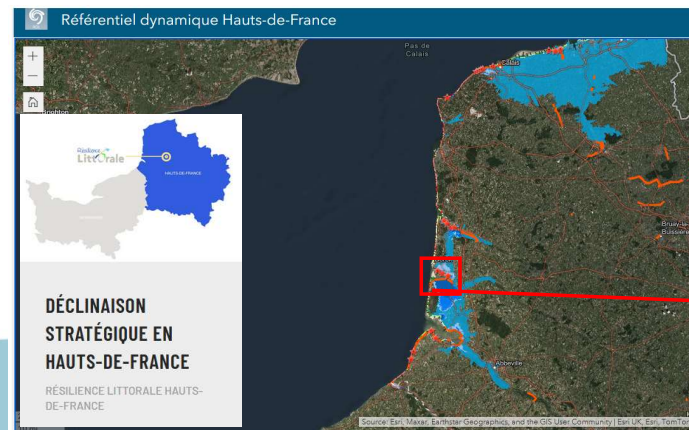


Impact: mainstreaming objective

Mainstreaming NBS on the coast based on natural dynamics, combining the reconnection of polders to the sea and the relocation of activities.

Haut-de-France Region adopted a regional strategy, **to help local authorities draw up local strategies for sustainable management of the coastal strip**, involving the local population and socio-economic players, and working on the right geographical (coherent longshore drift) and temporal (2050 and 2100) scale.

Hauts de France



Régional strategy under development



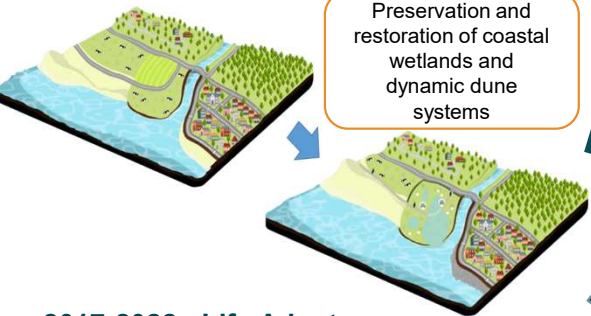
Local strategy of Authie Bay set out in the flood risk prevention plan

Integrate NBS into national and local strategic documents for a vision to 2050 and 2120

2011-14 : *Interreg project LiCCo (Living with Changing Coast)* - Coastal adaptation project initiated by the Cdl at 5 pilot sites in Normandy (including the Orne estuary), based on the English Shoreline Management Plan.

2013 : *Cdl Board of Directors adopts principles of action for adaptation to climate change*

- Support rather than oppose natural coastal movements
- Experimenting with flexible management principles on a real scale



2017-2022 : Life Adapto
2022-2027 : MANABAS Coast

National flood risk management strategy

National climate change adaptation plan

National strategy for integrated coastline management (2012 updated in 2017)

National Biodiversity Strategy 2030

National strategy for protected areas

Loi « Climat et Résilience » du 22 août 2021

French law on “**spatial redevelopment linked to the coastline**”:

- the right of pre-emption enables local authorities to buy back exposed property, with **the aim of moving people away from risk areas and restoring the natural environment;**
- Mobilization of public land establishments (EPF) and the **Conservatoire du littoral** : players to support local authorities in **developing a land strategy (acquisition, renaturation and strategic retreat).**

2015-2050 intégration climate change in long term strategy of Cdl

Regional facade strategy :
- Normandie
- Hauts de France
- Bretagne (approved or pending approval)

Development of a territory project : territorial strategy shared by coherent longshore drift

Multiplying, generalizing works of NBS on the coast based on natural dynamics, combining the reconnection of polders to the sea, the restoration of dune and the redevelopment of coastal strips

2024-2029 Life Adapto+