



# NBRACER-Nbs for Atlantic Regional Climate Resilience



The NBRACER project is an European project launched in October 2023. It brings together eight European regions, including the Nouvelle-Aquitaine, in six different countries and aims to experiment with adaptation projects to climate change using Nature-based Solutions (NbS).

29 demonstrating and replicating projects, 3 landscapes: Marine and coastal, Urban and Rural during 48 months.

The Nouvelle-Aquitaine Region governmental entity coordinates the project at a regional scale, in partnership with AcclimaTerra

(Regional Scientific Committee on Climate Change), Bordeaux INP, the MEOSS company, the Marais-poitevin PNR, SMEAG and Sorbonne University. Two demonstrating projects:

- The 1<sup>st</sup>, in the Marais poitevin Regional Natural Park (PNR), aims to measure **the impact of river morphology restoration** through sediment recharge on the groundwater table. The works are carried on by the Syndicat Mixte du Bassin Versant de la Sèvre Niortaise (SMBVSN).
- The 2<sup>nd</sup>, RAMAGE (Annual Recharge and Alluvial Maintenance of the Garonne at Low Water Level) aims to **support low-water levels and provide fresh water through recharge** (carried on by SMEAG)

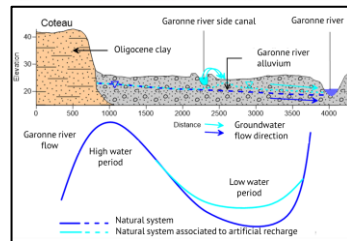
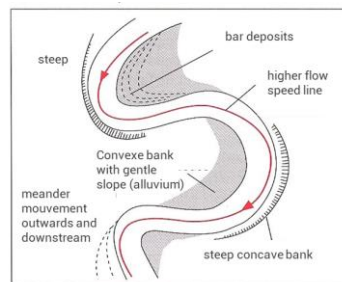
## Nbs in depth

In the PNR project several changes are being carried on:

- Installation of mineral banks to restore the ecological functions of watercourses
- Restoring river dynamics, restoring all or part of the hydrosystem's functionality (ie.: fish habitats, oxygenation...)

Within the NBRACER project, equipment will be installed, and geophysical measurements will be performed in order to establish if there is an impact on the watertable following the surface water courses modifications.

RAMAGE aims to store a fraction of the snowmelt flow (via the Garonne canal) in the water table to support low-water levels and provide fresh water during years of poor winter recharge. This will allow to preserve biodiversity under a warming river waters by having more water volume and dilute temperature.



## Environmental benefits

The river course restoration (started in Sept. 2023) introducing among others nesting zones, has allowed fish population to recolonize the area. Simple changes can easily bring biodiversity back. Several aquatic species are going to be followed. Concerning the RAMAGE project, sampling is being carried out to determine and follow the stygofauna that could be present in the aquifers.

## Social awareness

There is a good regional awareness on the biodiversity roles both in the functioning of ecosystems, but also in human societies which inhabit and exploit the natural resources of these ecosystems. The NbS portfolio foreseen in the NBRACER project could allow small territories with restrained budgets to favor NbS solutions without regrets that are easy to implement at a lower cost.



**NBRACER**  
Nature Based Solutions  
for Atlantic Regional Climate Resilience

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## Selected case studies



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