NBRACER
Nature Based Solutions
for Atlantic Regional Climate Resilience

Coastal | Urban | Rural

Region Cávado, Portugal

Cávado Region

Climate hazards

Flooding and Heavy Rainfall

Source: O Minho, 11.10.2024

Wildfires and High Temperatures

Source: O Vilaverdense, 31.07.2025

Vision

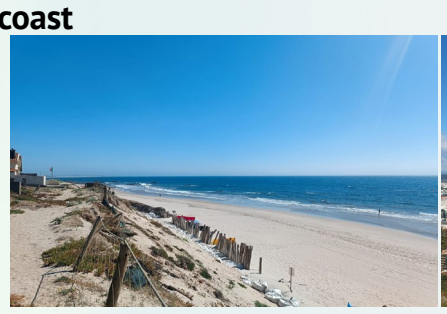
Illustration: Bertram de Rooij

Stakeholders

- Municipal technicians
- Local politicians
- Landowners
- Public enterprises
- Business associations
- Education entities
- Environmental NGOs

Landscapes

Seacoast



Urban

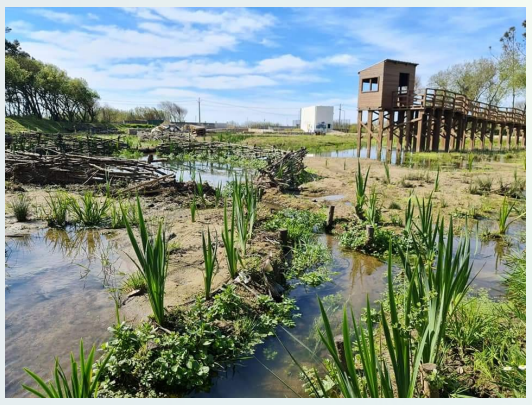
Rural

Barriers / Future

- Funding <> NbS upscaling
- Political commitment <> Awareness
- Local stakeholders <> Training and Awareness
- KPIs <> NbS monitoring
- Lack of comm materials <> Communication kit

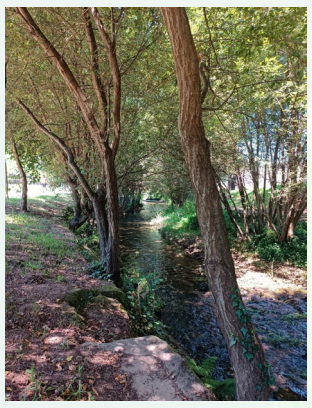
Water Interceptor Channel of Esposende

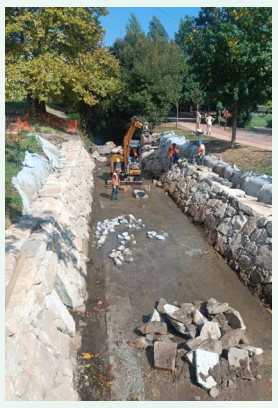
- 4.5 km of length around the urban area of Esposende (coastal city).
- More than EUR 5 million of public investment.
- Mitigate the permanent floods during the rainfall seasons.
- Zero floods since its implementation.
- New green spaces and pathways with environmental awareness.



Renaturalisation of rivers Este and Torto in Braga

- More than 3 km of length in the urban area of Braga.
- More than EUR 2.6 million of public investment.
- Mitigate the floods and impacts from high temperatures.
- Improvement of water and urban air quality and biodiversity enhancement.
- New green and healthy spaces for leisure, awareness and cultural fruition.





Past 2 years of NBRACER

- KCS and climate risk baseline of the region.
- More activities related to capacity-building and raising-awareness about NbS concepts and knowledge for municipal technicians and local politicians.
- 2 NbS regional workshops (Braga and Vila Verde).
- Local stakeholder engagement: NGOs, Municipalities and Schools.

Future 2 years of NBRACER

- Strengthen the local stakeholder engagement: landowners, parishes, politicians and enterprises.
- More activities related to sharing best practices from other European regions about cost-benefits of NbS implemented to mitigate flooding and wildfires.
- Production of a NbS communication kit (games, manuals, itinerant exhibitor).

Regional partners

- Intermunicipal Community of Cávado and its 6 Municipalities.
- University of Minho and network of local public schools.
- Cávado Forestry Association.
- Water companies: Águas de Portugal, AGERE.
- Portuguese Environmental Agency, CCDR-N.
- NGOs: Associação Rio Neiva, etc.

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