NBRACER
Nature Based Solutions
for Atlantic Regional Climate Resilience

Urban

Rural

Western Denmark

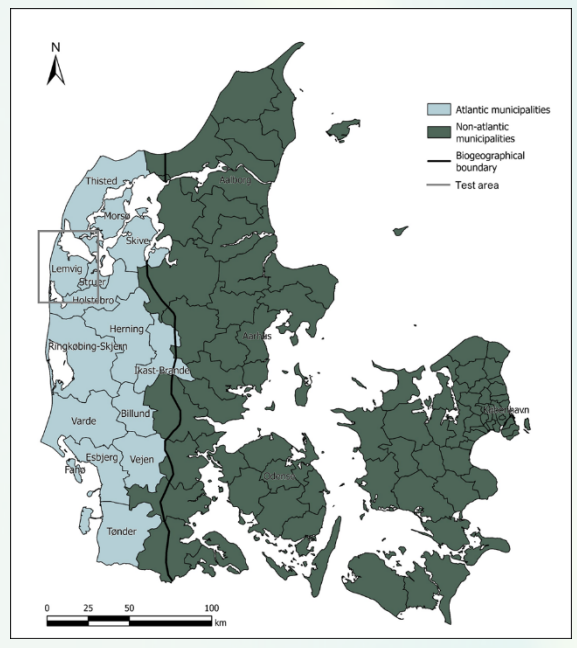
About the Region:

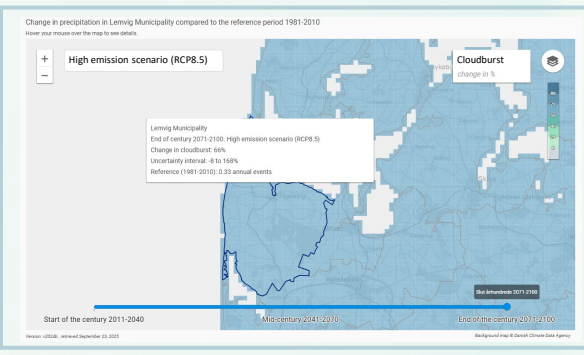
The Danish part of the Atlantic biogeographic region follows the ridge of Jutland and consists of 15 municipalities located along the western part of the Jutland peninsula. The municipalities, located in administrative regions of Southern, Central, and Northern Denmark, cover a total of almost 12,000 km^2 and have about 667,000 inhabitants, making it a mostly rural area with only two small cities over 50,000 (**Esbjerg**: 71,554; and **Herning**: 51,782), and two towns of more than 20,000 (**Holstebro**: 37,487; and **Skive**: 20,090). Four of the 15 municipalities are landlocked, the other 11, one of which is an island, have coastline at the North Sea and/or the Limfjord.

The geology of Western Denmark is characterized by Weichselian deposits in the hilly north and Saalian deposits and Weichselian outwash plain in the flat south.

The main climate hazards are associated with sea level rise and changes in precipitation (frequency and intensity) leading to increased risks from fluvial and pluvial flooding, coastal erosion, and droughts. This requires additional focus on especially storm surges, heavy rain events (such as cloudbursts), and prolonged periods of daily rain.

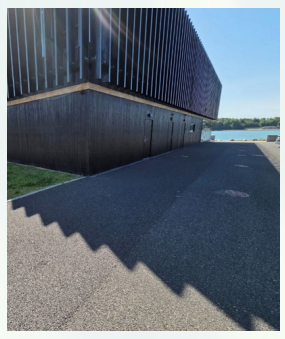
Solving these issues, however, also present many opportunities for utilising nature-based solutions such as urban greening, storm water reuse, de-centralized water management, and place regeneration. In respect the latter, four local green tri-partites for conversion of agricultural land are located in the area (Limfjorden, Nissum Fjord, Ringkøbing Fjord, and Vadehavet) presenting opportunities for synergies between mitigation, adaptation, environmental protection of water bodies, and biodiversity protection.



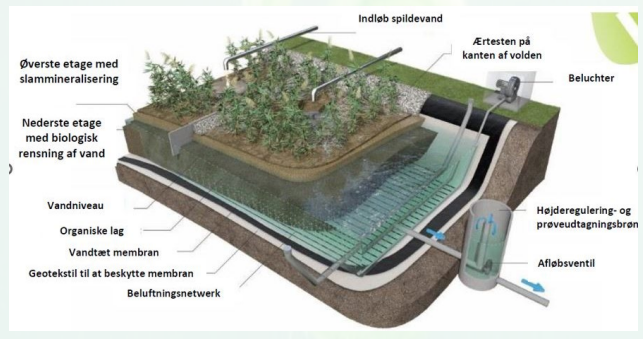


Demonstrators:

The Climate Road demonstrator focuses on Sustainable urban drainage of road surfaces using permeable asphalt pavements (PAP). The project thus focus on connecting PAP and NbS.



The **Nr. Nissum** demonstrator focus on using aerated filter plants for depositing and cleaning polluted rainwater in local rural areas, as a supplement to existing grey infrastructure.



Past 2 years vs. Future 2 years:

- During the first two years, the project has focused on establishing a baseline, documenting and reaching the "right" stakeholders, understanding the potential solutions, and developing the demonstration cases. The largest issue in West Denmark has been communication and collaboration with other NBRACER regions, as well as overcoming local engagement 'tiredness' due to many competing (but interesting) projects, e.g. Realdania's **DK2020** on local climate action for all 98 Danish municipalities.
- The next two years we will work on communication and collaboration within the project, as well as enhancing our stakeholder engagement and initiate the construction of and monitoring of our demonstrators. We will also focus on understanding the pathways that West Denmark municipalities have charted and are starting on in respect climate action, especially how nature-based solutions feature in this regard.

Regional Partners:

Klimatorium
The International Climate Centre of Denmark

DEPARTMENT OF SUSTAINABILITY AND PLANNING
AALBORG UNIVERSITY

Associated Partners:

- Lemvig Vand
- Lemvig Municipality

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WWW.NBRACER.EU
@NBRACER
contact@nbracer.eu