



Interreg NSR Building with Nature



<Name>, <organisation>, <country>





Agenda

- + What is Building with Nature?
- + Interreg NSR Building with Nature





What is Building with Nature?

- + Design philosophy
- + Natural processes
- + Protection against flooding
- + Opportunities





Interreg NSR Building with Nature

- + Aim
- + Project indicators
- + Living laboratories
- + Upscaling
- + Partners



Interreg NSR Building with Nature

Aim of the project

Application of Building with Nature-measures to make coasts, estuaries and catchments more resilient to climate change

Instruments

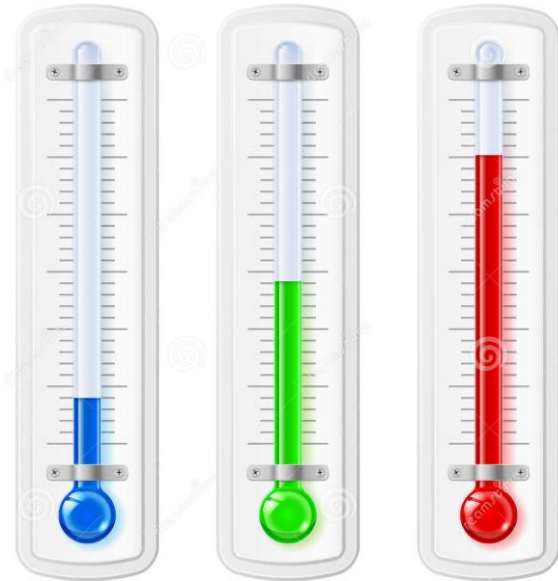
- + Evidence base
- + Framework
- + Dissemination



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3 Project indicators

- + 700 km of new coastline plans based on Building with Nature principles.
- + 550 km of new catchment areas managed based on Building with Nature principles.
- + Climate change resilience increase at target sites 10%



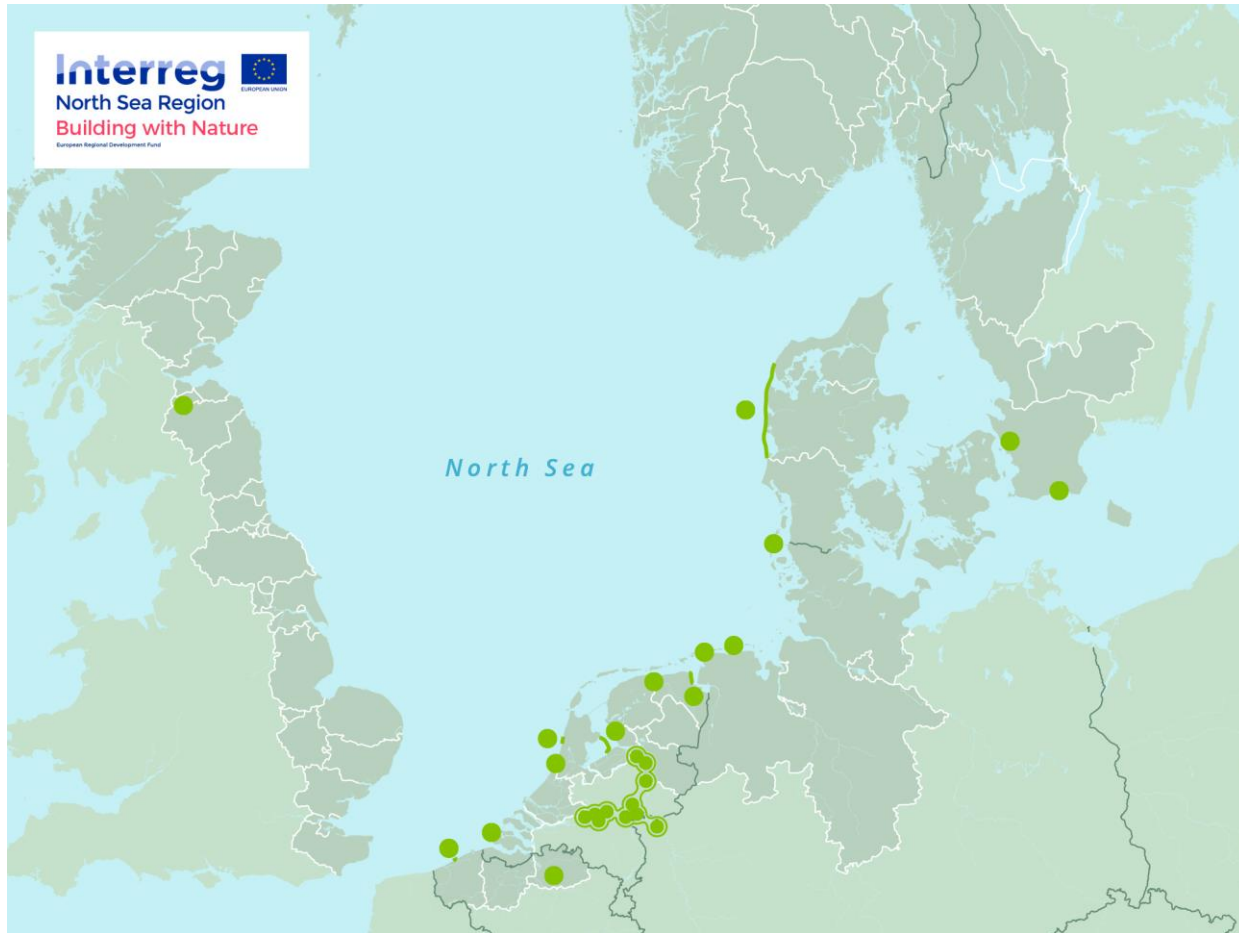


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Living laboratories

- + 7 coastal sites
- + 6 catchment sites







Living laboratories

Eddleston river (Scotland)

- + re-meandering the river
- + set back embankments
- + floodplain forest
- + create ponds, wetlands
- + engineered log jams





Eddelston river (Scotland)

Results

- + Created 22 new ponds in upper catchment – increases temporary storage capacity.
- + Large wood flow restrictors in the upper catchment has been found empirically to be associated with a delay in time to peak of 30-60 minutes.
- + Planted c 200,000 trees. Model landscape change impacts showing up to 20% reduction peak flow.



Living laboratories

Kleine Nete (Belgium)

- + River restoration
- + Fish Passage
- + Swamp area
- + Dike replacement
- + Creating ecological flooding zones



VLAAMSE
MILIEUMAATSCHAPPIJ



Living laboratories

Room for the river
(The Netherlands)

- + **34 projects**
- + **Cooperation**
- + **Budget: € 2,3 billion**
- + **Total area: 24,000 ha**
- + **Earth moving: 20 million m³**
- + **Relocation: 150 houses**



Rijkswaterstaat
*Ministry of Infrastructure and the
Environment*



Room for the river (The Netherlands)

Types of measures (toolkit)

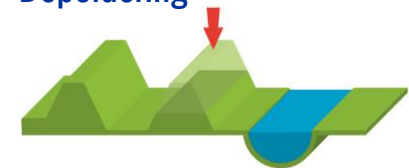
Strengthening dikes



Dyke relocation



Depoldering



Lowering of floodplains



Lowering groynes



Deepening summer bed



High-water channel



Removing obstacles



Water storage





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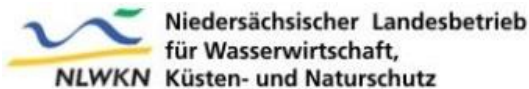
Upscaling

- + **Framework**
- + **Opportunity Maps**
- + **Business case generation**
- + **Policy learning**
- + **Stakeholder engagement**





Partners in Interreg NSR Building with Nature





Questions?

