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**BONSAI**

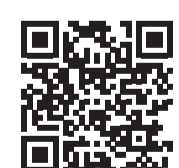
## Empowering future water professionals to face climate challenges

BONSAI prepares students and young professionals to protect North-West Europe from rising seas and climate change. Through summer schools, participants step onto real dikes and flood defenses, guided by experts who bridge the gap between theory and practice.

Armed with hands-on skills, expanded knowledge, confidence, and a strong network, this future generation steps forward as water leaders, ready to shape a safer, more resilient tomorrow.

### Lead partner:

Foundation for Applied  
Water Research (NL)



**[bonsai.nweurope.eu](https://bonsai.nweurope.eu)**

Photo ©: BONSAI



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**BUFFER+**

## **Sustainable business models for peatlands**

Extensive grazing in a peatland area is one of the several sustainable business models studied by the BUFFER+ project, alongside paludiculture, payments for ecosystem services, and peat-free potting soil.

In this study, the project highlights real-world barriers as well as solutions to support farmers and landowners seeking climate-resilient income, thereby paving the way for sustainable land use.

**Lead partner:**

Province of Groningen (NL)



**bufferplus.nweurope.eu**

Photo ©: BUFFER+



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**ClimASed**

## **Developing climate resilient sediment solutions for rivers and communities**

Rivers are strategic natural assets facing major challenges: sediment loads, increased soil erosion and reduced water quality. Climate change, with increased rainfall, droughts and sea level rise, will worsen these issues.

ClimASed uses monitoring and modelling techniques at sites across the Scheldt, Rhine and Shannon catchments. The project builds river managers' capacity and promotes climate-resilient sediment solutions, ensuring communities in North-West Europe can live in a safe, high-quality environment.

**Lead partner:**

Munster Technological University (IE)



**[climased.nweurope.eu](https://climased.nweurope.eu)**

Photo ©: ClimASed



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## Cool Neighbourhoods

### Engaging residents to create a cool and vibrant neighbourhood

The residents of Edelstenenbuurt, a diverse community facing social challenges, are often hard to reach. Barriers such as limited mobility, time, and language make it difficult to involve them in projects to improve neighbourhood liveability, especially with increasing heat stress.

To overcome this, Cool Neighbourhoods organised a waste collection and co-creation day. Through the use of images and offering a plant in return, the project successfully reached many residents and sparked meaningful engagement.

#### Lead partner:

Municipality Middelburg (NL)



[coolneighbourhoods.nweurope.eu](https://coolneighbourhoods.nweurope.eu)

Photo ©: Cool Neighbourhoods



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## **FlashFloodBreaker**

### **Strengthening resilience to flash flood events**

Katharina is from Germany, Annemieke from the Netherlands and François from Belgium. They all live in areas prone to flash floods. None of them can avoid that, but they can share their experience and help raise awareness among residents about how to protect their houses and how to act in case of extreme flash floods.

Together they reinforce connections among partners of the affected areas and strengthen local action plans. On a transnational level, they develop a community of practice on emergency management to support each other.

#### **Lead partner:**

Waterboard Emscherгенossenschaft (DE)



**flashfloodbreaker.nweurope.eu**

Photo ©: Samina Verhoeven Belgorage



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**GreenDense**

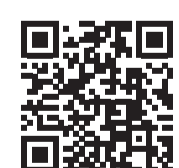
## Small spaces, big impact: citizen-led urban greening

Mechelen schoolchildren take part in the “Flemish Championship of Tile Removal” to promote ‘depaving’ – replacing concrete with living soil and greenery to make more room for nature in our cities.

This demonstrates the mission of the GreenDense project: co-creating small “mosaic sites” in urban environments to increase green connectivity across cities. Through co-creation, we empower communities to reclaim city spaces for healthier, greener urban living where it’s needed most.

**Lead partner:**

Municipality of Dordrecht (NL)



**greendense.nweurope.eu**

Photo ©: City of Mechelen



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**HydroSoilWise**

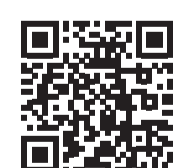
## **Soil guardians: building climate resilience from the ground up**

Farmlands in North-West Europe once held water like sponges, feeding crops through dry summers and absorbing rains in wet seasons. But years of intensive farming stripped away soil organic matter. With climate change, we now face more runoffs, droughts, and floods.

HydroSoilWise empowers farmers to rebuild soil's natural sponge capacity by restoring organic matter, preventing erosion, and managing water wisely, ultimately securing climate-resilient agricultural landscapes for the future.

**Lead partner:**

Viaverda (BE)



**hydrosoilwise.nweurope.eu**



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**IB-Green**

## **Business parks: from concrete jungle to green-blue refuge**

Highly-sealed surfaces in industrial and business parks (IBPs) remain widespread across North-West Europe, although the potential to implement green-blue infrastructure (GBI) in these areas – such as trees providing shade – is huge.

During a site visit organised by the IB-Green project to a business park in Groß-Gerau (DE), companies and municipalities could see for themselves how green-blue infrastructure is essential for the well-being of people working and living in IBPs.

### **Lead partner:**

Climate Alliance of European Cities with  
Indigenous Rainforest Peoples (DE)



**ib-green.nweurope.eu**

Photo ©: IB-Green



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**MigFoRest**

## **Preparing forests for future generations**

Manu is a forest owner, worried about the impact of climate change, like thousands of foresters. He is showing us dead and declining oaks because of hydric stress. This is a more and more frequent observation, not only in the Condroz (BE) where he lives, but also in most of North-West Europe. Manu needs to do something to prepare forests for future generations.

Thanks to MigFoRest, he will deploy the assisted migration of tree species and provenances as one of the ways to make forests more diverse and resilient.

**Lead partner:**

Royal Forestry Society of Belgium (BE)



**[migforest.nweurope.eu](https://migforest.nweurope.eu)**

Photo ©: MigFoRest



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**PolliConnect**

## **Creating a buzz: spreading connected habitat for pollinators**

In the PolliConnect project, living labs help reverse the decline of pollinators. Each living lab compares two pilot sites: one where conventional management is maintained and another testing pollinator-friendly practices.

In this field, flowering host plants were sown, and mowing regimes were adjusted. These changes resulted in an increase in visits from wild pollinators, and the farmer, who shared the tested measures with neighbours, provided positive feedback.

**Lead partner:**

Flemish Land Agency (BE)



**polliconnect.nweurope.eu**

Photo ©: PolliConnect



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**PREWAPHARM**

## Rewriting the future of pharmaceutical residues in water

Tom is chronically ill and takes his daily beta blockers without thinking where it ends up. He learns that improper disposal and drug residues can harm rivers and wildlife, affecting the nature he loves to spend time in. At his local pharmacy, he discovers how to safely return unused medicines and that water treatment plants are reducing residues too.

By acting together, Tom, pharmacists, and water experts protect both community health and the environment.

### Lead partner:

TCNN Innovation Support (NL)



**prewapharm.nweurope.eu**

Photo ©: PREWAPHARM



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**ResiRiver**

## **Nature-based solutions: where engineering meets ecology**

For decades, industrialisation and pollution have left their mark on our waterways. But at Bunker Bay in Germany, change is happening through nature-based solutions.

At Bunker Bay, ResiRiver implements protective measures like fascine boxes and anchored trees to protect the stone revetment from hydraulic pressure while enhancing biodiversity in the bay. Local residents and shipping traffic both benefit as river systems grow more resilient to climate change.

### **Lead partner:**

Ministry of Infrastructure and  
Water Management (NL)



**resiriver.nweurope.eu**

Photo ©: ResiRiver



## Rural\_Roadwater\_Rescue

### Restoring local water balances with runoff road water

Considering roads not only as transport routes but also as a source of water opens new insights to make them more robust and have them contribute to mitigate local droughts. As climate change brings more extreme weather events, providing water surplus as well as water shortage, this approach is becoming increasingly relevant.

The Rural\_Roadwater\_Rescue project has developed a participatory strategy to make treated roadwater available for local end users. This innovative approach is embraced by road authorities around Kerpen (DE), Antwerp (BE) and Eindhoven (NL).

#### Lead partner:

Ministry of Infrastructure and  
Water Management (NL)



[rural-roadwater-rescue.nweurope.eu](https://rural-roadwater-rescue.nweurope.eu)

Photo ©: Rural\_Roadwater\_Rescue

## ROADMAP WATERBALANS RONDOM A58

### Roadmap Waterbalance around Highway A58

