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BEPROACT

Innovative data-driven infrastructure management

Imagine a world where vital infrastructures could predict and proactively report their health status, identifying repair needs before potential failures occur.

BEPROACT transforms infrastructure management through data-driven techniques to predict and prevent asset failures, ensuring efficient and sustainable maintenance. Transnational cooperation enables authorities to extend asset lifespans, reduce costs, and enhance infrastructure resilience in Europe.

Lead partner:

Ministry of Infrastructure and
Water management (NL)



beproact.nweurope.eu

Photo ©: BEPROACT



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Better-Calf

Grass-based dairy calf production for resilient rural communities

Picture a small cattle farm in North-West Europe. Like many others, it faces challenges including low incomes, environmental pressures, and negative societal perceptions.

Better-Calf helps farmers raise calves born from dairy cows in grass-based systems. These systems offer clear advantages: increased soil carbon storage, improved water quality, and local, high-quality food production. By encouraging adoption of these grass-based systems, we empower farmers and strengthen the resilience of rural communities.

Lead partner:

Teagasc – Agriculture and Food
Development Authority (IE)



better-calf.nweurope.eu

Photo ©: Teagasc



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BiDebA

Where innovation takes flight: a step towards biobased debondable adhesives

A technician stands on an aircraft, applying a biobased debondable adhesive to a patch with quiet confidence. The temporary repair holds firm, yet promises easy removal, protecting the original structure and saving time for the composite expert when making the permanent repair. It's a smart, low-impact solution to a high-stakes challenge to keep planes flying and people safe.

The BiDebA project didn't just prove a concept, it sparked conversations, inspired companies, and opened doors to future collaborations with debondable adhesives.

Lead partner:

Flanders Make (BE)



bideba.nweurope.eu

Photo ©: BiDebA



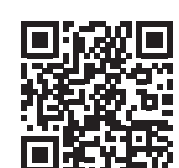
A transnational approach to herbarium digitisation

Biodiversity is declining worldwide. To address this challenge, we need to secure knowledge from both large and small herbaria. DigiHerb gives smaller herbaria access to high-speed imaging technology and a unified digital portal to catalogue their valuable plant specimens.

This transformation improves connectivity and cohesion between regional herbaria and promotes accessibility of data to the public and academia, creating new opportunities for biodiversity protection and research.

Lead partner:

National Botanic Gardens (IE)



digiherb.nweurope.eu

Photo ©: DigiHerb



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DODILog

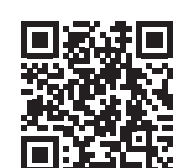
Improving the storage and logistics of cereals and potatoes in ports

Can there still be innovation in something as common as potatoes and grains? These crops are at the heart of our food chain, yet they are fragile and prone to rot and disease.

The DODILog project brings together multidisciplinary partners to test new and cost-effective technologies that support the early detection of insects and diseases. These innovations help extend post-harvest life and strengthen the key role of regions and ports in the production and organisation of the supply chain through smart agro-logistics.

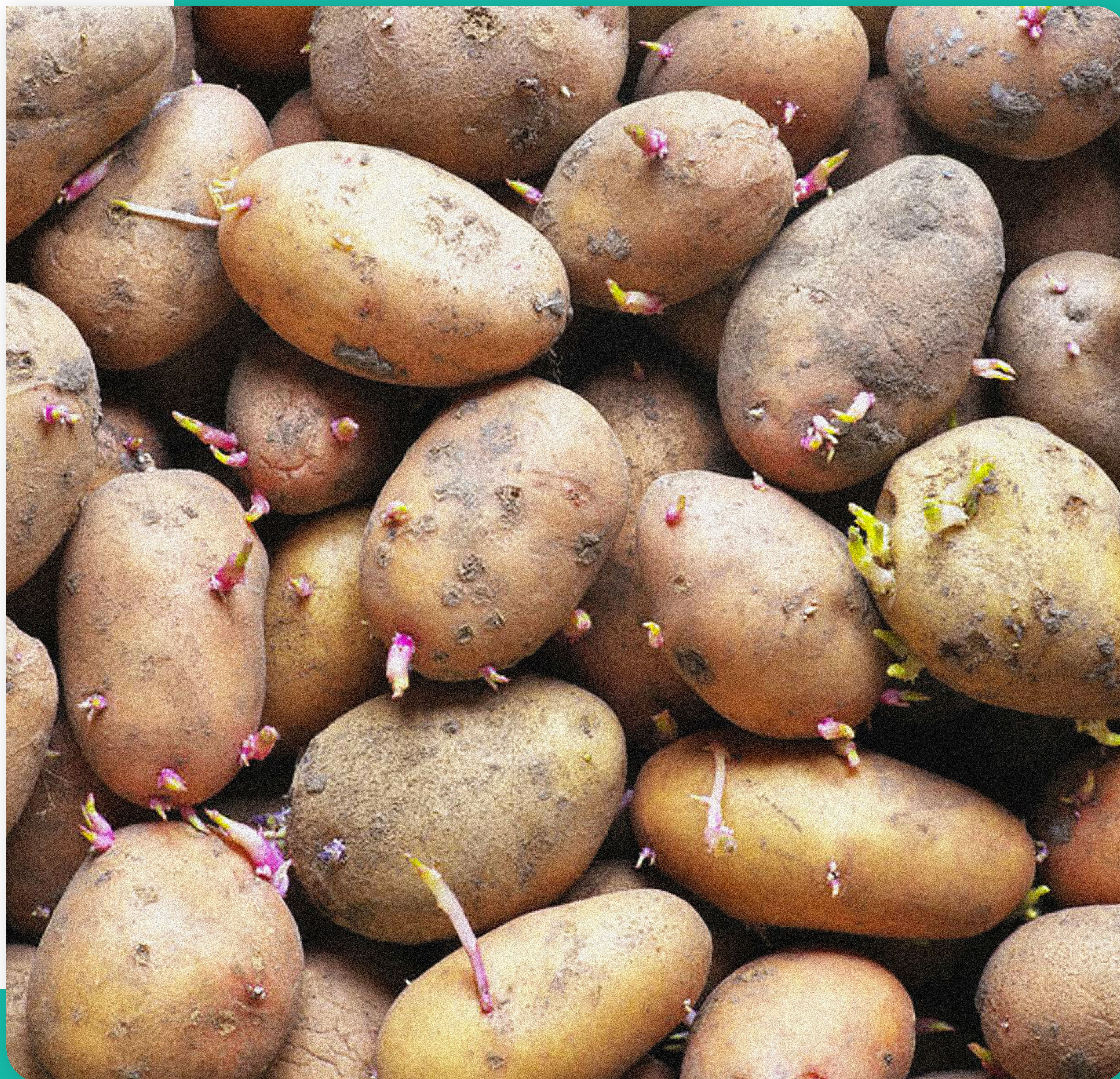
Lead partner:

Port of Zwolle (NL)



dodilog.nweurope.eu

Photo ©: DODILog



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HoliCow

Let's keep our farms alive! **HoliCow, a holistic approach** **to dairy farm resilience**

Across Europe, small and medium-sized dairy farms are disappearing due to limited access to technology and increasing agribashing. HoliCow is changing that story.

We empower farmers with an intuitive digital tool that simplifies daily farm management and strengthens resilience. But our work doesn't stop at the farm gate. Through a broad communication campaign in schools, cities, and villages across North-West Europe, we raise public awareness and promote a positive narrative around dairy farming.

Lead partner:

Elevéo (BE)



holicow.nweurope.eu

Photo ©: HoliCow



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MSD-CARE

Reducing strain, improving care: technologies for caregivers' wellbeing

Imagine having to repeatedly bend, twist, and hold unusual positions throughout your workday. This is the daily reality for nurses and caregivers. Enter passive exoskeletons, wearable support devices that can help reduce physical strain and prevent injury. Despite their benefits, these devices remain uncommon in healthcare settings.

MSD-CARE is changing this by breaking down adoption barriers, ensuring caregivers can maintain their own health while delivering better patient care.

Lead partner:

HAWK - University for applied
science and arts (DE)



msd-care.nweurope.eu

Photo ©: MSD-CARE



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MultiRoofs

Sky(line) is the limit: transforming rooftops for urban resilience

Mrs Martin is the owner of a building in Brussels who faced rising maintenance costs from a deteriorating roof, while her tenants struggled with heating and electricity bills. Like many rooftops in big European cities, hers lay wasted, draining money instead of creating value.

With MultiRoofs' 3D tool, she unlocked its potential, added solar panels and created a green space. The result: higher property value, lower running costs, and happier tenants. The rooftop became a sustainable asset.

Lead partner:

City of Rotterdam (NL)



multiroofs.nweurope.eu

Photo ©: MultiRoofs



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OFFSHORE PROOF

Connecting Europe's offshore test sites to accelerate innovation

OFFSHORE PROOF provides real-sea testing for technologies such as wave, tidal, floating solar, offshore storage, supported by measurement buoys.

Through the project, we connect sites across North-West Europe into a single network, making it easier for innovators to validate solutions, reduce costs, and deliver offshore renewable energy that benefits communities throughout the region and beyond.

Lead partner:

Campus@Sea (NL)



offshoreproof.nweurope.eu

Photo ©: SolarDuck



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OMELETTE

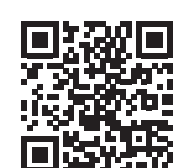
In-ovo sexing for a future-proof egg production in Europe

Klaus, Henrik, and Sophia run hatcheries in different European countries. Klaus has adopted in-ovo sexing due to German regulation, while Henrik lacks financial incentives and Sophia worries about hatchability.

Through the OMELETTE project, we identify these barriers and encourage wider adoption, by providing scientific data for Sophia and influencing policy to design financial support for Henrik. The project enables solutions that improve welfare, sustainability, and efficiency while ensuring a future-proof and resilient egg production system.

Lead partner:

Experimental Poultry Centre (BE)



omelette.nweurope.eu

Photo ©: Vencomatic Group



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ORESA

Supporting renewable energy innovators for a sustainable blue economy

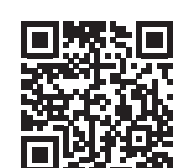
Offshore renewable energy is essential for Europe's climate goals and energy independence. Yet innovators face market uncertainty and a lack of clear policy frameworks.

ORES

A helps them overcome these challenges by fostering collaboration, strengthening networks and sharing knowledge with SMEs and across the sector. By building an accelerator addressing nature-inclusive design, profitability, policy and circularity, we improve the resilience needed for a thriving and competitive offshore renewable energy industry.

Lead partner:

Dutch Marine Energy Centre (NL)



oresa.nweurope.eu

Photo ©: Marek Okon on Unsplash



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SHINES

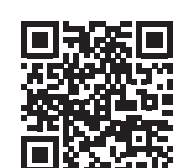
Turning tides and rivers into tomorrow's energy

At Paimpol-Bréhat (FR), the SHINES project demonstrates how hydrokinetic energy, derived from the movement of water, can be a key driver of the energy transition.

The project is testing three different technologies across three pilot sites but is also going a step further – assessing site potential, tackling technical, economic, and regulatory barriers, and engaging local communities to turn rivers and tides into clean, predictable, sustainable energy for Europe.

Lead partner:

OPEN-C Foundation (FR)



shines.nweurope.eu

Photo ©: Energie de la lune ULHN



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SIMONE

From exchange to action: speeding up agroecology

The SIMONE project focuses on 3 key topics: weed management, crop nutrition, and crop establishment. Through five regional living labs, the project is testing a combination of agroecological practices in real contexts using On Farm Experimentation at territorial scale.

This open innovative approach facilitates knowledge sharing and the development of smart solutions to improve territorial resilience and promote the agroecological transition across Europe.

Lead partner:
ARVALIS (FR)



simone.nweurope.eu

Photo ©: SIMONE



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Smart Carbon Farming

Supporting sustainable carbon farming practices

Farmers are battling eroding soils, extreme weather and rising pressure to cut emissions. Smart Carbon Farming works with them directly, testing practices which boost carbon storage on 15 pilot farms across North-West Europe.

By measuring what works in real fields, the project helps farmers rebuild healthy soils, store more carbon and earn new income. With 50 farmers trained, it shows climate-friendly farming can also be productive and profitable.

Lead partner:

Multitel Innovation Centre (BE)



smartcarbonfarming.nweurope.eu

Photo ©: Maksym-Belchenko



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STEP4NAMs

From frustration to innovation: a 2035 vision to reduce animal testing

Imagine it is year 2035. Drug safety and medical device development no longer rely on animal use. It all began years ago, when a young life science team grew frustrated with the necessity of animal testing.

Through STEP4NAMs, they gained access to networks, training and validation tools. Today, advanced human-relevant models, such as 3D-printed heart tissue, replace many types of animal testing and enable faster and safer testing. Patients benefit from quicker access to treatments, while Europe moves closer to a future without animal suffering.

Lead partner:

BioRegio STERN Management (DE)



step4nams.nweurope.eu

Photo ©: 3R-Center Tübingen



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T4R

More inclusive, resilient cities with the help of local digital twins

For years, urban planners worked with separate datasets in different formats. Every new project meant hours of piecing together information before they could even start thinking about the design of the city.

With a Local Digital Twin, this changes. At a single glance, they can explore all the relevant data and immediately see how different scenarios would shape the city. And it's not just the planners who benefit: citizens and other stakeholders can engage with the same insights, making planning more transparent, democratic, and future-proof.

Lead partner:

City of Utrecht (NL)



t4r.nweurope.eu

Photo ©: Twin4Resilience



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Upcycling Trust

Upcycling Trust – for a fair renovation

In the Saint-Gilles district of Brussels, Yolande nearly lost her home for not being able to afford necessary renovations. Through Upcycling Trust, she found a solution that transformed her situation.

The project helps homeowners like Yolande upgrade their home for energy efficiency while ensuring home affordability. Through an environmentally conscious model, Upcycling Trust is addressing the social need for housing, creating success stories one home at a time.

Lead partner:

City of Lille (FR)



upcyclingtrust.nweurope.eu

Photo ©: Upcycling Trust



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W4S

From prototype to production: wind power driving green shipping

What looks like a giant fin is in fact a wingsail prototype for greener shipping. In the W4S project, partners from four NWE regions work on Wind Assisted Ship Propulsion (WASP), a technology that saves 20% of fossil fuel and up to 40% for scaled-up rotors and wings.

By implementing four pilots to test and showcase wingsail production, the project aims to upscale production and promote its commercial viability. Together, partners combine theory and practice to shape a greener future for European shipping.

Lead partner:

Province of Fryslan (NL)



w4s.nweurope.eu

Photo ©: Wind4Shipping

