



Transformation for sustainable nutrient supply and management

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trans4num Newsletter #7

As trans4num enters its final year, the project is turning research into transformation. Across Denmark, Hungary, the Netherlands, and the UK, partners are demonstrating how Nature-Based Solutions can make nutrient management more circular, resilient, and climate-smart. From field trials to modelling and stakeholder dialogue, the consortium is now connecting local innovations with policy impact, paving the way for nutrient-smart agriculture in Europe and beyond.

Reflections from our project coordinator

trans4num blog

FROM FIELDS TO NETWORKS

trans4num's progress towards transformative nutrient management



trans4num's vision has been clear from the start: to develop and test NBS that enhance nutrient efficiency, reduce environmental pressures, and strengthen food system resilience. Across diverse agricultural contexts, from the Limfjord catchment in Denmark to the Szigetköz region in Hungary, the project has explored how sustainable practices can align with social, economic, and policy realities.

The Nature-based Solutions tested under trans4num include perennial biomass rotations, bio-based fertilisers, no-tillage and cover crops, plant-based fertilisation, and waste-derived composts. Together, these approaches demonstrate how nutrient cycles can be closed locally, how dependency on synthetic inputs can be reduced, and how environmental goals can be met without compromising productivity.

trans4num's contribution extends beyond its immediate results. It offers a model for how research, innovation, and engagement can work together to address one of Europe's central agricultural challenges: balancing productivity with environmental integrity. By connecting field-level experiments with systemic modelling and stakeholder co-design, the project is shaping a framework for nutrient-smart transitions that can inform the next generation of European agricultural policy and practice.

[Read full story](#)

trans4num NBS site updates

Over the past two years, the NBS sites have evolved from experimental plots into living laboratories that bring together farmers, advisors, researchers, industries, and policymakers. Each represents a different agricultural system, but together they tell a shared story of innovation, collaboration, and transformation.

[Read full story](#)

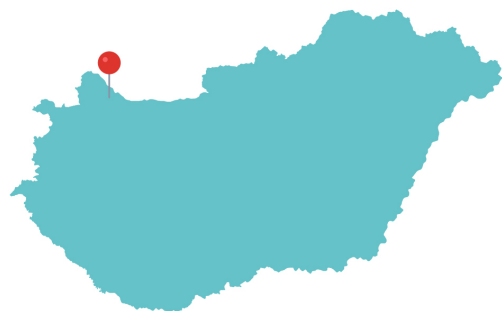
DENMARK

📍 Northern Jutland,
Limfjord catchment



HUNGARY

📍 Szigetköz Region



In Denmark, trans4num is showing how circular crop rotations and bio-based fertilisers can protect water quality, support farmers, and build a nutrient-smart future.

Year 2 Insights

NETHERLANDS

- 1. Kollumerwaard
- 2. Ebelsheerd



In the Netherlands, trans4num is testing plant-based fertilisers and green manures to close nutrient cycles and support low-input, high-performance farming.

Year 2 Insights

In Hungary's Szigetköz region, trans4num is testing crop rotations, no-tillage systems, and biofertilisers to build soils, boost biodiversity, and reduce emissions.

Year 2 Insights

UNITED KINGDOM

- 1. Harpenden
- 2. Brooms Barn
- 3. North Wyke



In the United Kingdom, at Rothamsted and North Wyke, trans4num is testing compost and recycled fertilisers to build soil health and cut emissions.

Year 2 Insights

trans4num library

The trans4num Library has been updated with fresh content, including the first set of Practice Abstracts, new project deliverables, and scientific publications. Browse the collection to explore how trans4num is advancing Nature-Based Solutions across Europe.

Go to the library

This library presents all the documented results of the trans4num project at one place.



Deliverables



Videos



Publications



Practice
abstracts



Communication
materials



Online
inventory

Discover how trans4num partners are putting Nature-Based Solutions into action. The Practice Abstracts showcase practical insights from our field sites — from circular fertilisers and crop rotations to soil health, innovation, and farmer collaboration.

Practice Abstracts

Explore the NBS Inventory, a collection of NBS tested across Europe and China. Each entry showcases real examples of how crop rotations, bio-based fertilisers, and circular farming systems are transforming nutrient management from field to region.

NBS inventory

Explore the trans4num Publications, featuring scientific articles from our partners in Europe and China. These papers present the research behind trans4num's NBS, from soil carbon and nutrient modelling to circular farming systems and climate-smart innovations.

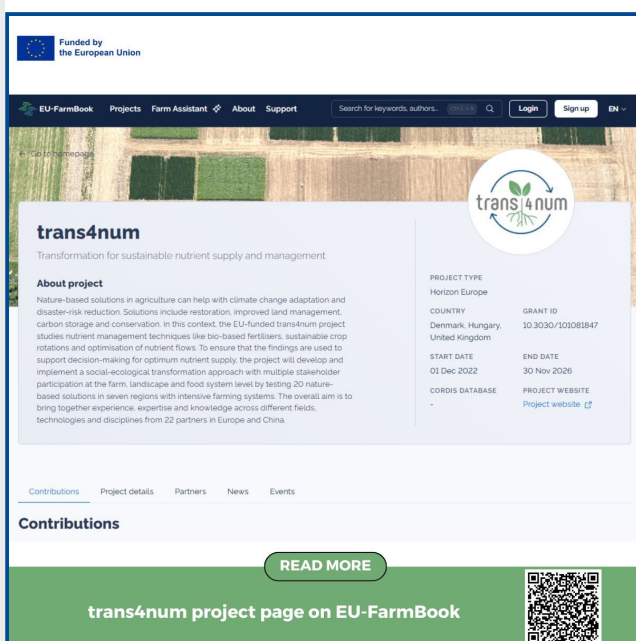
Publications

The trans4num project Deliverables present the project's key output, showcasing how research turns into results. Each document captures progress toward integrating Nature-Based Solutions into nutrient management, modelling, and policy innovation.

Deliverables

trans4num network

In this new section, we **highlight projects, platforms, and initiatives** connected to Nature-Based Solutions (NBS) from across Europe and beyond. Our aim is to showcase synergies, spark collaboration, and amplify shared impact.



We're pleased to share that trans4num has a dedicated project page on [EU-FarmBook](#), the European platform connecting practical knowledge with those who need it most: farmers and advisors.

This marks an important step in our mission to bridge science and practice, ensuring that results from our work on Nature-Based Solutions are made:

- ✓ Farmer-focused
- ✓ Accessible
- ✓ Practical

trans4num news and events

In this section, we share **news and events organised by trans4num** or featuring **trans4num's active participation**, highlighting our collaboration, impact, and engagement across Europe and beyond.

[Go to news page](#)

Denmark launches a regulatory sandbox for green biorefining!

Klimafonden Skive, has been appointed by the Danish Ministry for the Green Tripartite Agreement as the national anchor for Denmark's first regulatory sandbox on green biorefining.

[Read more](#)

China-EU Symposium on Sustainable Agricultural Development, 3-7 November 2025

Hosted by the Henan Academy of Agricultural Sciences, the Chinese Academy of Agricultural Sciences, and European partners of trans4num, the symposium will explore Nature-Based Solutions (NBS), nutrient circularity, and climate-smart farming practices.

[Read more](#)

40th Óvár Scientific Day International Conference on 12 November 2025

The conference brings together leading experts, policymakers, and practitioners to discuss how the EU Green Deal is reshaping agriculture, exploring how sustainability goals can go hand



in hand with competitiveness, innovation, and rural development.

[Read more](#)

Discover the power of Organic Amendments

Rothamsted Research is organising an in-person event dedicated to farmers, agronomists and land managers. A one-day event packed with expert talks, field visits and practical insights into building healthy soils and more resilient farming systems.



[Register for event](#)

In **trans4num**, we believe that real change happens through collaboration. Whether you are a farmer, researcher, policymaker, or sustainability advocate, your engagement helps drive the transformation toward more resilient and nature-friendly farming systems.

How can you support trans4num?

- Share this newsletter with colleagues, farmers, and networks interested in sustainable agriculture & nutrient management.
- Follow us on LinkedIn to stay updated on the latest research, fieldwork, and farmer-focused events.
- Engage with us! Comment on our posts, share your insights, and let us know how Nature-Based Solutions are working in your region.
- Join our upcoming events — whether it's a webinar, a workshop, or a field demonstration, we'd love to see you there!



Follow us on social media!



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