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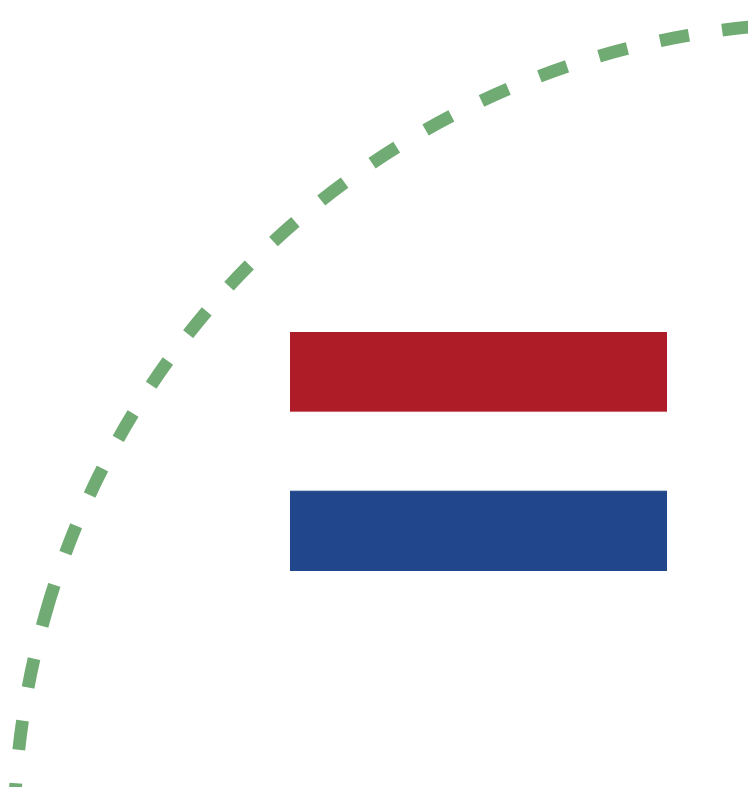
trans4num in the Netherlands

Regenerative Field Trials in Practice

Comparing cropping systems, compost and strip farming



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1. THE CHALLENGE

How can regenerative systems compete with conventional yields?

At SPNA in Northern Netherlands, trans4num is testing side-by-side cropping systems with and without compost.

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2. WHAT ARE WE TESTING?

🧪 The trials focus on seed potatoes, legumes, and winter wheat, exploring how different fertiliser inputs and management practices affect soil health, crop yield, and nutrient efficiency.

📏 Soil is monitored at two depths for physical, chemical, and microbiological parameters.

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3. EARLY INSIGHTS (YEAR 1)

⚙️ Adjusted planting strategies based on 2022–2023 results

🧪 Measuring soil microbiome, physical & chemical properties

📊 Monitoring yields across all systems

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4. WHAT IS NEXT?

📈 Comparing nutrient use efficiency and long-term soil health

📷 Tracking results through imagery and on-site sensors

🔁 Sharing insights with local farmers and advisors

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5. WHY IT MATTERS?

🌾 Dutch agriculture faces growing pressure to reduce environmental impacts while maintaining productivity.
🌱 These field trials help identify how low-input, compost-based systems perform compared to conventional setups
📍 The findings will support evidence-based transitions to more regenerative and circular farming models across Europe.

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