



trans4num in Hungary

Nature-Based solutions in Szigetköz

Crop trials, biodiversity boosts & datadriven farming

1. THE CHALLENGE

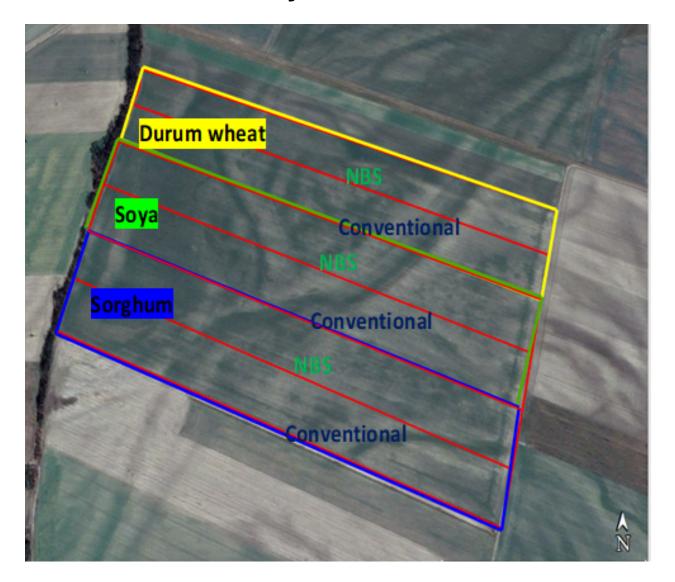
Can farming improve biodiversity and reduce emissions—without sacrificing yields?

In Hungary's Szigetköz region, trans4num is testing how nature-based solutions (NBS) can deliver better outcomes for farmers and ecosystems.



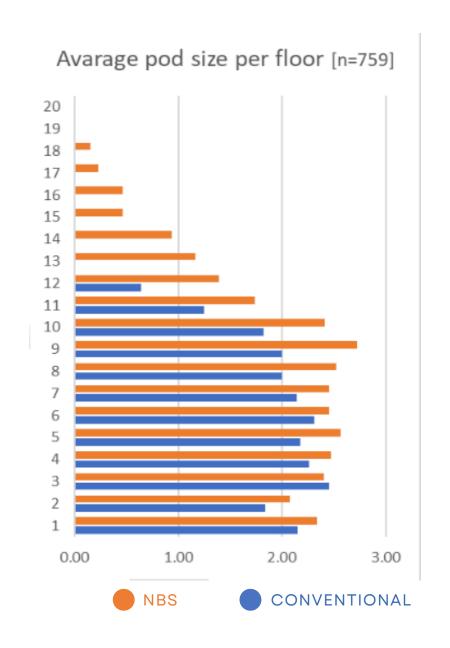
2. WHAT ARE WE TESTING?

- ~ 25 hectares of field trials in Kimle and Mecséry
 - Crops: wheat, sorghum, and soybean
 - Methods: no-till, bio-based fertilisers, cover crops
 - Goal: More sustainable, resilient farming systems



3. EARLY INSIGHTS (YEAR 1)

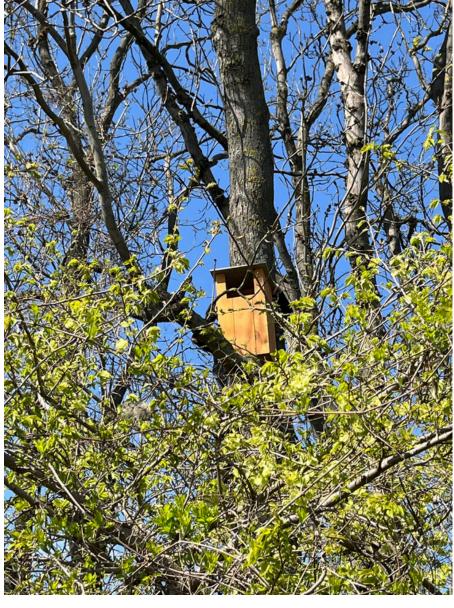
- ✓ Bigger soybean pods on NBS plots
- ♣ Lower CO₂ emissions thanks to minimal tillage
- Real-time monitoring with sensors, drones, and satellite data



4. BIODIVERSITY GAINS

- Installed bird boxes on site
- Ongoing biodiversity monitoring
- ★ Over 200 bird species recorded so far!





5. WHAT IS NEXT?

- Year 2 trials underway
- Engaging with local farmers and advisors
- Expanding data collection to track long-term impact

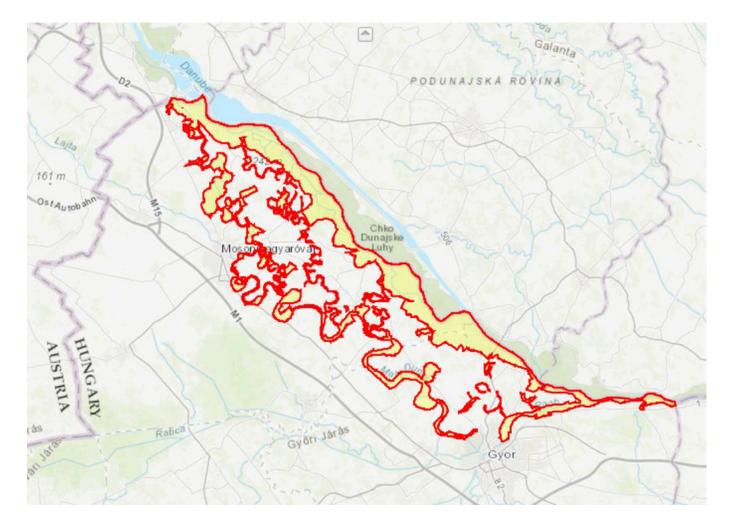






6. WHY IT MATTERS?

Szigetköz is a sensitive ecological region
NBS help balance agricultural productivity
and ecosystem health
Hungary's work feeds into a bigger EU-China
transformation



Follow



@trans4num





@trans4num

