



## About the Project

The Soil4Nature project focuses on supporting regenerative agriculture and soil protection in the Pannonian Basin.

The goal is to gather, test, apply, and disseminate sustainable practices that improve soil quality and biodiversity.

## Project partners:

- **Bioeconomy Cluster (Lead Partner, Slovakia)** – project coordination, research activities, and awareness-raising initiatives on sustainable soil management
- **Discovery Center (Hungary)** – research activities, soil monitoring, and preparation of a digital farm
- **PD Krakovany-Stráže (Slovakia)** – experimental fields and sharing of years-long experience in regenerative agriculture
- **Agro-Mark (Hungary)** – experimental fields and testing of agricultural methods during the transition to regenerative agriculture



Bioeconomy  
Cluster



DISCOVERY  
CENTER



AGRO  
MARK  
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## First Partner Meeting

During the first in-person partner meeting, we discussed the project's activity plan. The main topics included:

- Preparation and implementation of experiments to monitor the impact of different cover crops under various soil management practices.
- Selection of fields for long-term soil monitoring using soil sensors.
- Experiments will take place on the fields of PD Krakovany-Stráže and Agro-Mark, with selected sites representing different soil types.
- Current activities include setting up the experiments and installing soil sensors.

**Date: 25.10.2024**

**Location: PD Krakovany-Stráže, Slovakia**

## What Will the Experiments Look Like?

Different types of cover crops will be applied on selected fields, tested in combination with various soil management systems:

- Conventional tillage – traditional plowing and soil preparation.
- Minimum till – reduced tillage with minimal soil disturbance.
- Strip till – tilling only narrow strips of soil where the main crop will be sown.
- No-till – no mechanical soil tillage, direct seeding into covered soil.

Throughout the experiments, soil samples will be taken regularly to analyze organic matter content, nutrient levels, soil structure, and moisture. The results will be compared under different conditions and compiled into methodological recommendations for farmers.

## Work on the Knowledge Database

Project partners are developing a Knowledge Database, which will include:

- An overview of the current state of regenerative agriculture in the EU, Slovakia, and Hungary.
- A list of literature and expert sources on soil management.
- Examples of best practices in regenerative agriculture from Slovakia and Hungary.
- The database will be available on partners' websites and will serve as an information resource for farmers and researchers.