Field visit information

Tuesday 29 April 2025

As part of the EU CAP Network brokerage event 'Partnering for innovation with impact in agriculture and rural areas', four parallel field visits will be organised in the afternoon of Tuesday 29 April 2025. The field visits are organised in collaboration with the Czech University of Life Sciences Prague (CZU).

Field visit 1: Digital and data technologies

The field visit on digital and data technologies will be held at the Amalie pilot farm of CZU. Amalie is a unique demonstration site covering 500 hectares, operating in real-life conditions, where proper use of digital and data technologies is crucial. The guide will provide an in-depth tour showcasing the use of state-of-the-art, in situ environmental monitoring and other digital technologies - used for sustainable and precision agriculture, and for smart water and landscape management. The guide will explain how big data, acquired from the Amalie demo site, are managed.

More details about the Amalie pilot farm at the end of this document.

Field visit 2: Sustainable, healthy and resilient crop and livestock production

A second visit, focusing on sustainable, healthy and resilient crop and livestock production, will take place on the CZU campus. The guide will first lead you to the Tropical Faculty, where you will explore the sustainability, productivity and resilience of smallholder farming systems in tropical and subtropical regions, with an emphasis on increasing plant resource diversity. You will learn more on how farmers can enhance sustainable crop and livestock production while managing landscapes responsibly.

Next, you will head to the Forestry Faculty to discover the numerous benefits of agroforestry for farms, the environment, and society. Finally, the tour will take you to the Faculty of Agrobiology, Food, and Natural Resources, where you will learn about resilient crop and livestock production at the faculty's test fields and farms.

Field visit 3: New business models and value chains

The visit zooming in on new business models and value chains will take place at the CZU campus. The tour will begin at the Food Processing Training Centre, where you will learn about efforts to improve logistics, shorten supply chains, and raise awareness of local food production. Various platforms that were designed to facilitate experience-sharing among food producers, consumers, entrepreneurs, and policymakers will be presented.

Following this, you will visit the Pavilion of Environmental Studies, a hub of innovation in environmental sciences. The tour will then continue to the high-tech buildings of the Forestry Faculty, where you will explore business economics and management within the forestry and wood-processing sector. Finally, the visit will conclude at the Tropical Faculty, where you will learn about inclusive and sustainable value chains with a focus on tropical and subtropical regions.

Field visit 4: Circular water management and soil health

The field visit on circular water management and soil health will take place at the Amalie pilot farm of CZU. A guided tour will highlight pioneering strategies for enhancing landscape adaptation, ecosystem stability, and biodiversity while providing all ecosystem services.

The visit will showcase innovative water management solutions that optimise water use and soil conservation techniques, including various nature-based solutions, deployed in a unique demonstration site covering 500 hectares, operating in real-life conditions.

More details about the Amalie pilot farm at the end of this document.

More information: Amalie pilot farm

At the Amalie pilot farm, an innovative project is transforming the landscape for a more sustainable future. The initiative was developed within the 'Smart Landscape' concept of the Czech University of Life Sciences Prague (CZU). It is dedicated to implementing forward-thinking solutions that enhance biodiversity and support resilient ecosystems.

At Amalie, the focus lies on restoring and protecting the cultural landscape, which has been impacted by agriculture and other human activities. Measures are taken to reduce soil erosion, improve water management in the face of climate change, and integrate trees into agricultural landscapes, both for ecological benefits and productive agroforestry systems. These efforts can help create a healthier, more adaptable environment both for nature and for communities.

A key aspect of the project involves improving drainage systems to mitigate ecosystem degradation and biodiversity loss. Expanding the innovative measures that are already in place at the Amalie pilot farm could create solutions that can be replicated across the Czech Republic and throughout Europe.

The initiative includes five pioneering measures designed to enhance landscape adaptation, ecosystem stability, and biodiversity growth:

1. a decision support system (DSS) to guide sustainable landscape management
2. innovative water management solutions that utilise drainage water effectively
3. the establishment of agroforestry systems, integrating trees into agriculture
4. soil conservation techniques to maintain land fertility and prevent erosion
5. measures that promote biodiversity, including wetland restoration and a solar-powered water pumping system

Welcome to Amalie - a place where innovation meets sustainability! Join us in shaping a future where agriculture and nature thrive together.