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Living Labs

Czech Living Lab at Plan4all
Advancing Smart and Sustainable Agriculture

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Karel Charvát • Plan4all

EIMA International 2026

The Czech programme of work

Skills and qualifications	Identify employer and farmer needs and define four precision farming roles.
Innovation and talent	Set a crop-monitoring challenge, mentor finalists and continue the work through an internship.
Exchange between regions	Run workshops, host a study visit and compare adoption barriers with European partners.
Agricultural data and GeoAI	Test JackDaw with users and use LPIS reports and the Data4Food2030 Atlas as teaching examples.
Training and uptake	Develop the European Data Processing and AI course and launch Czech data technician training.

Who contributes and how we work together

Farmers and advisers	Small-farmer representatives and agricultural SMEs identify needs through interviews, surveys and workshops.
Czech coordination	Plan4all convenes activities. WirelessInfo helps design training and reviews tools with practitioners.
Technology and field sites	CCSS demonstrates JackDaw. Lesprojekt-služby contributes technical expertise. Úhlava hosts regional exchange.
Vocational education	Mendel University in Brno and the Agricultural Union of the Czech Republic work with WirelessInfo on training and professional competences.
European partners	Fondazione Fenice and Josephinum Research collaborate on skills profiles. EIT Digital supports the Call for Talent.

How farmers shaped the training agenda

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From finding an image to explaining a decision

February 2025 · Discussions with small farmers and their committee.

August 2025 · More than 20 stakeholders at Země živitelka discussed the planned courses.



The Call for Talent

Can satellite, weather and sensor data support crop monitoring and forecasting?

Three finalists took part in the Czech challenge.

After the February 2025 hackathon, winner Dante Cometti continued working with Plan4all through a paid internship.



Knowledge exchange in South Moravia

Dolní Dunajovice and Novosedly • November 2025

Pavel Gnip introduced Czech precision farming practice.

An international roundtable and a visit to Bio-Vinařství Marcinčák connected skills needs with organic vineyard management.



The Klatovy workshop

Úhlava • 3 March 2026

Participants examined field sensors, Info4Agro and JackDaw alongside new vocational qualifications.

Farmers discussed where the tools could inform everyday decisions.



Which part of the field needs inspection?

A farmer has one afternoon and two contrasting areas on a satellite image.

Check the field boundary and observation date.

Compare with earlier imagery and the farmer's field history.



JackDaw enters the Living Lab

The Czech Center for Science and Society introduced JackDaw through PoliRuralPlus.

Agri-Digital Growth brought farmers and advisers into the discussion about its use in agricultural work.



How JackDaw handles a follow-up question

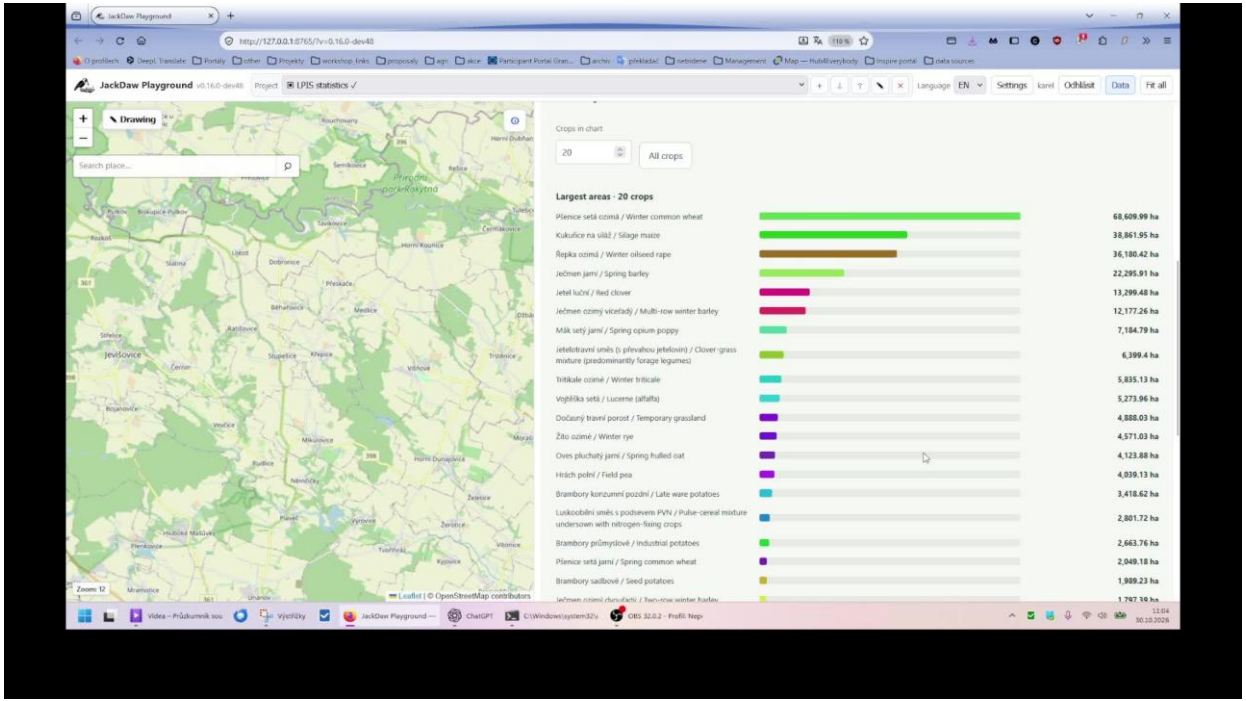
“Was the same pattern visible last month?”

Keep the selected field in view.

Change the observation period.

Distinguish evidence from imagery, a sensor reading and the farmer’s own observations.

Czech LPIS reports in JackDaw Playground



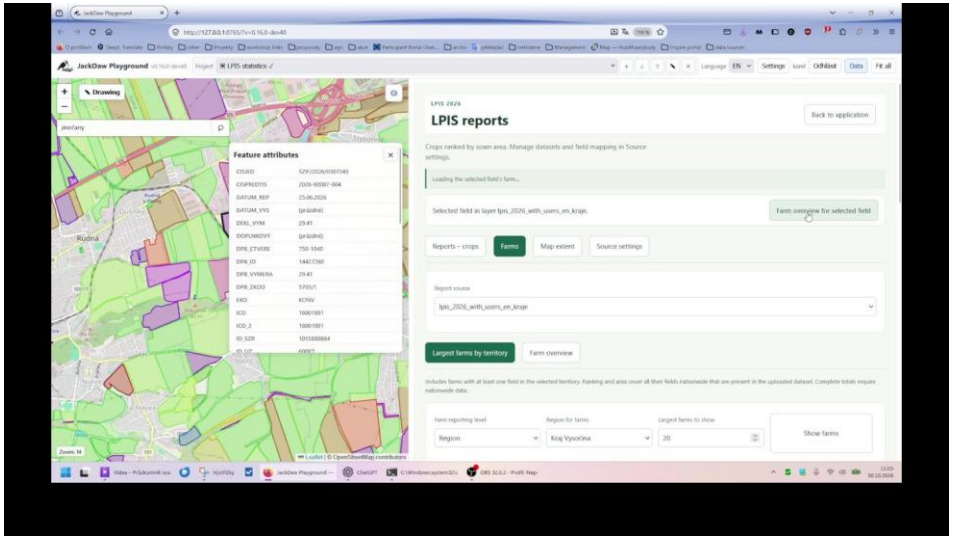
81-second demonstration • Czech LPIS 2025

What changes when the user selects a farm?

274,909 ha · Vysočina regional report

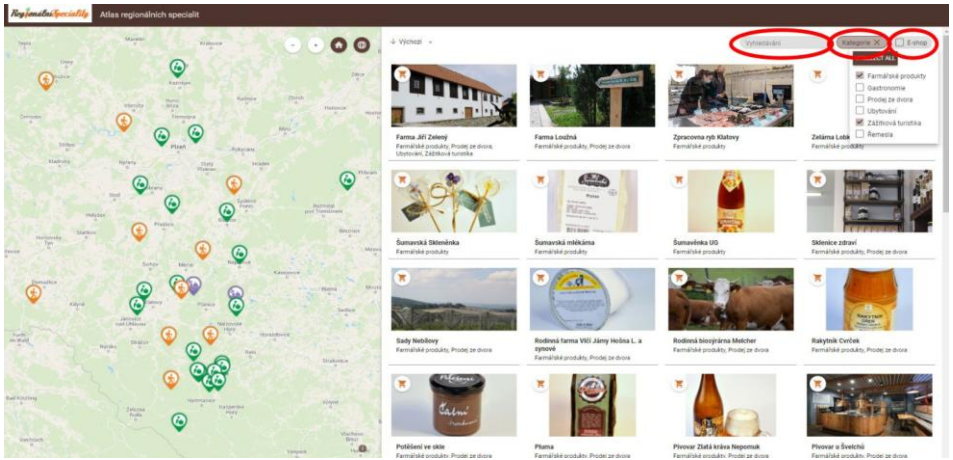
7,347 ha · AGRO-Měřín holding report

Both values describe declared or mapped area. Selecting a parcel reveals the attributes of that feature.



The Regional Atlas follows food beyond the farm

Data4Food2030 • Czech ISDaaS pilot



213 producers • 334 points of sale

665 recorded producer–outlet links

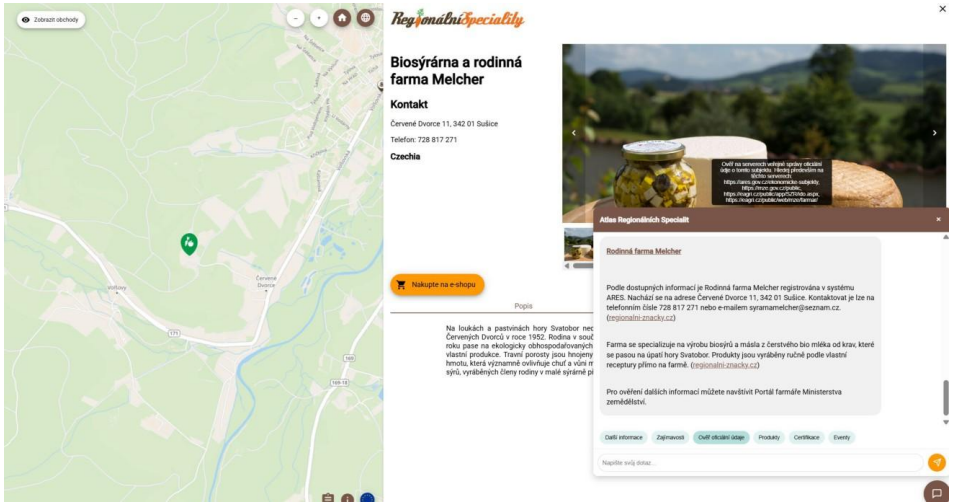
Network snapshot, August 2026. Each link records a sales relationship.

Where can a visitor buy this farm’s products?

The Atlas connects a producer, a product and a place.

Demonstrated: AI-assisted producer descriptions.

Proposed: retrieve linked outlet records and explain them in the visitor’s language. A seller can confirm current stock.

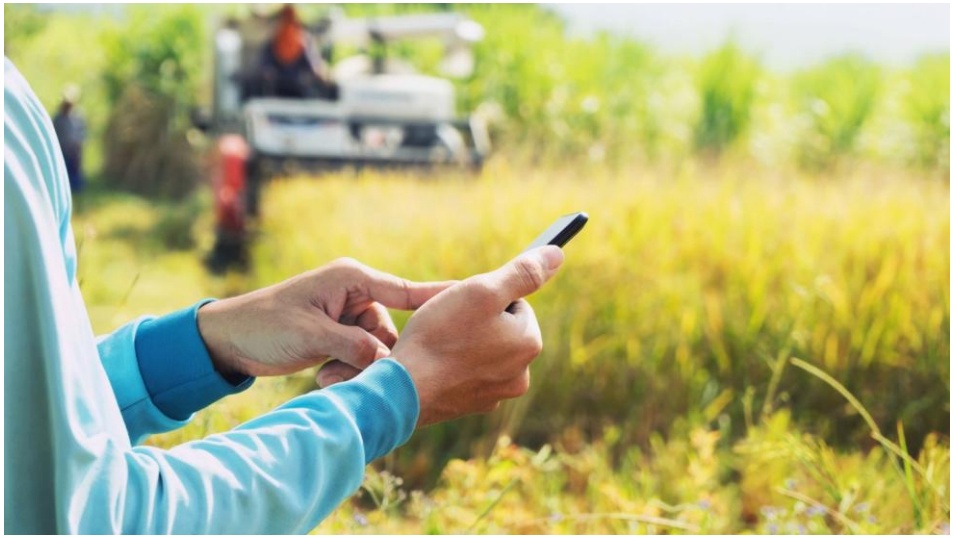


What does a precision farming specialist do?

Manufacturers, farms and advisers use the same data for different tasks.

Plan4all brought four Czech occupational profiles into the European skills review.

SMEs and public authorities helped identify training needs.

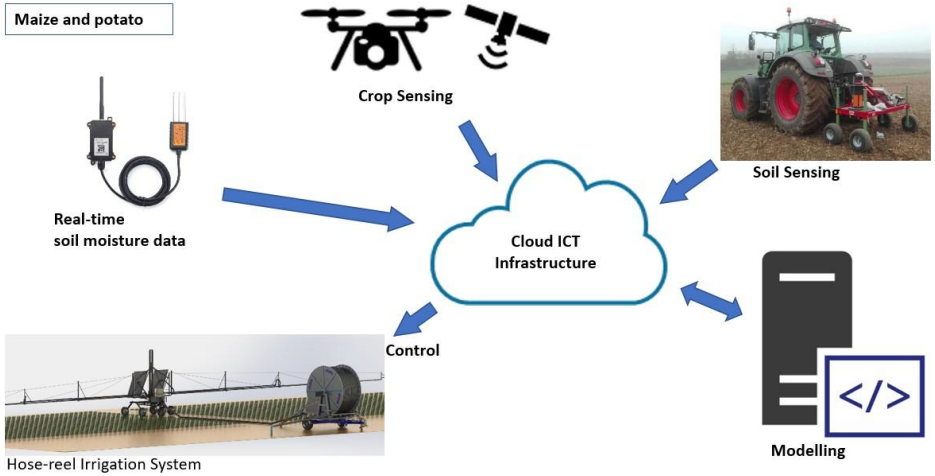


Teaching data processing and AI

Plan4all developed Pilot Course 4 in a European programme of five courses.

Approximately ten hours cover data collection, GIS, Earth observation, AI and interpretation.

Exercises can ask learners to reproduce an LPIS figure or verify an Atlas sales link.



Four roles in Czech vocational training

Mechanisation specialist • Agronomist

Data technician • Agricultural adviser

The first national course for the Data Technician for Precision Farming profile launched through AgriHub.cz.



From a field observation to an informed decision

Which decision on your farm would test both the tool and the training?

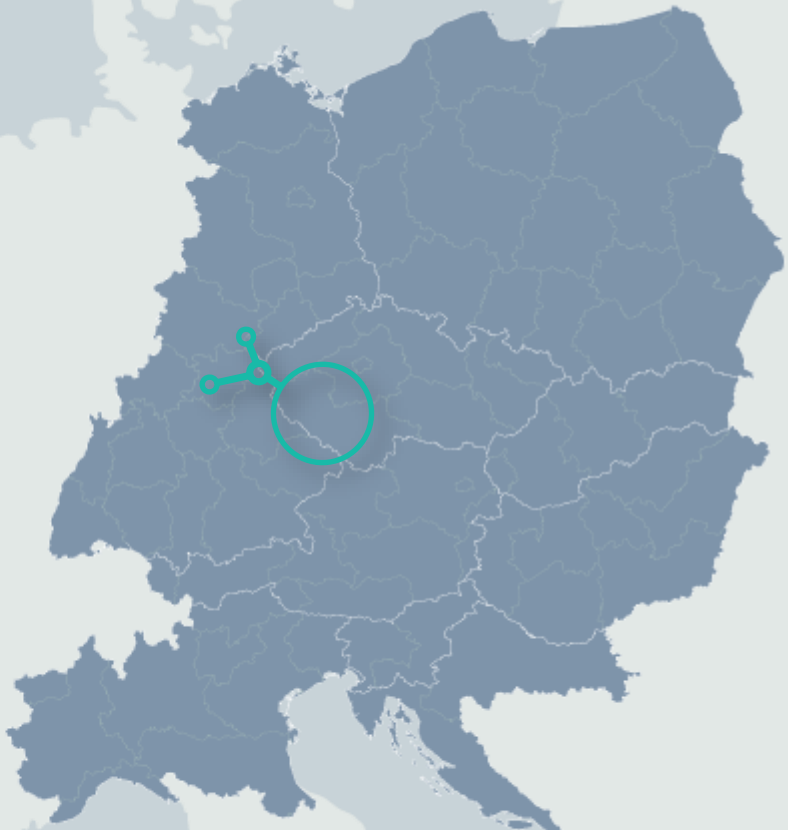
A register identifies the parcel. An image guides inspection. The farmer helps explain the pattern.

The same discipline applies to a verified sales link in the Regional Atlas.

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