



University of Maribor

Faculty of Agriculture
and Life Sciences



24.03.2025

Interreg Central Europe AGRI-DIGITAL GROWTH

@ FederUnacoma Associates

- Interreg Central Europe Agri-digital Growth project – *CREA* 5'
- The precision farming specialist profile *CREA* 10'
- The 5 living labs *CREA* – *MATE* – *P4A* – *JR* - *UM* 30'
- The Precision farming knowledge transfer ecosystem *UNACOMA* – 10'
- Q&A and conclusions

KEY POINTS

Strengthening skills for smart specialisation, industrial transition and entrepreneurship in central Europe

- Identify key competences for precision farming advancement
- Realize pilot courses
- Stimulate collaboration opportunities

06.2024-11-2026



PARTNERS

1. CREA, Italy
2. Josephinum Research, Austria
3. Linz Center of Mechatronics, Austria
4. EIT Digital, Belgium
5. FEDER UNACOMA, Italy
6. Fenice Foundation, Italy
7. Plan4all, Czechia
8. University of Maribor, Slovenia
9. University of Agriculture and Life Sciences, Hungary
10. University of Zagreb, Croatia
11. Regional Development Agency in Bielsko-Biała, Poland



Interreg
CENTRAL EUROPE



Co-funded by
the European Union

AGRI-DIGITAL GROWTH



CREA is the main research center in
agriculture in Italy with 12 specialisations



GENOMICA E BIOINFORMATICA



AGRICOLTURA E AMBIENTE



DIFESA E CERTIFICAZIONE



ZOOTECNIA E ACQUACOLTURA



FORESTE E LEGNO



CEREALICOLTURA E COLTURE INDUSTRIALI



INGEGNERIA E TRASFORMAZIONI
AGROALIMENTARI



ALIMENTI E NUTRIZIONE



POLITICHE E BIOECONOMIA



VITICOLTURA ED ENOLOGIA



ORTICOLTURA E FLOROVIVAISMO



OLIVICOLTURA, FRUTTICOLTURA E
AGRUMICOLTURA

Main competences:

Field experiments; Genetics,
Modelling, Data analysis, Digital twins,
Agromechanics and Digital farming

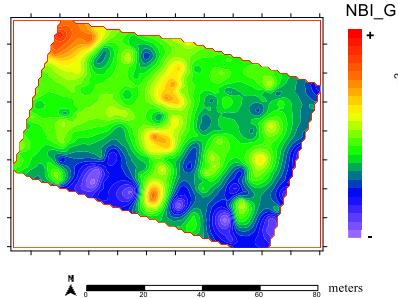
Each center is specialised in specific crops:

- Corn, wheat, other cereals etc; forestry;
- Viticulture; zootechnique
- Horticulture; olive and fruit trees

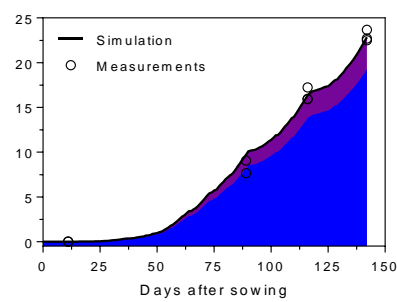
Soluzioni integrate «dai sensori ai modelli» per guidare la nutrizione e l'irrigazione delle colture attraverso DSS



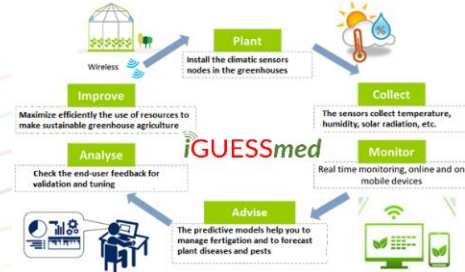
Fluorescence



NBI map for rocket N status



Modelling N absorption



DSS for irrigation/fertigation/disease management

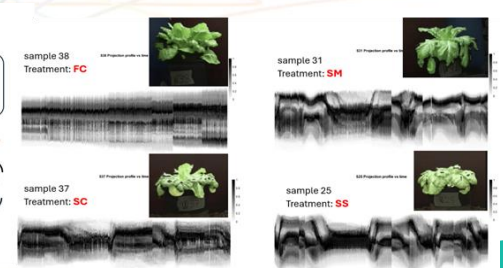
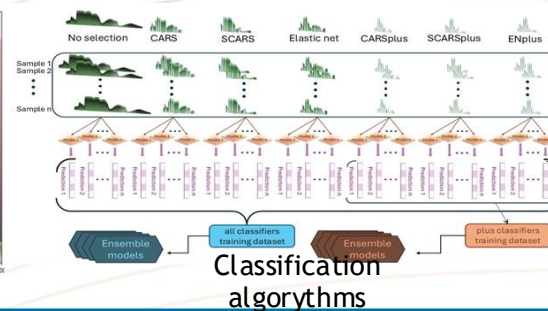
● Sensori iperspettrali non-imaging & computer vision: modelli di risposta alla nutrizione in ortaggi da foglia



Iperspettrali non-imaging

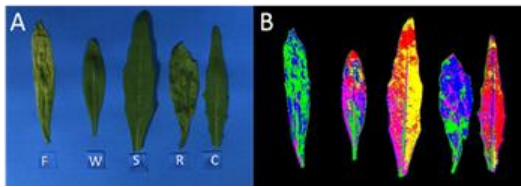


Machine vision



Imaging output

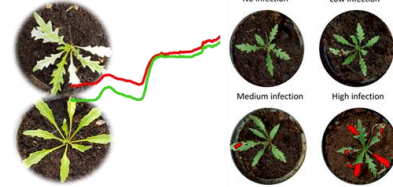
- Modelli su dati *imaging/non-imaging* per *early detection* e/o monitoraggio dei sintomi di fitopatologie



Hyperspectral imaging



Hyperspectral pointer



Modelling disease detection

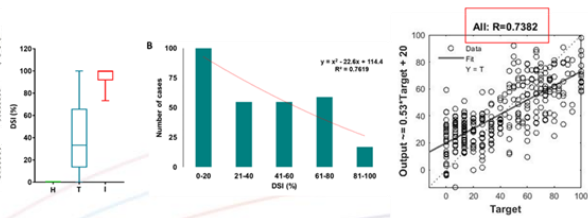


Digital phenotyping

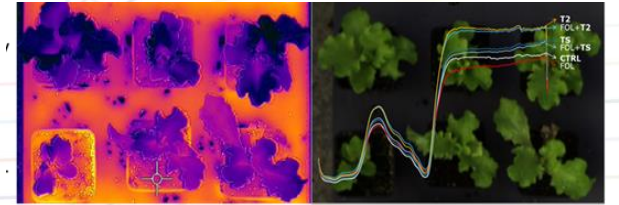
- Modelli AI per il controllo biologico di *precisione* *trichoderma*



Hyperspectral imaging

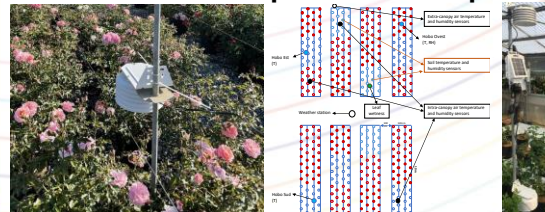


AI modelling for biocontrol efficacy

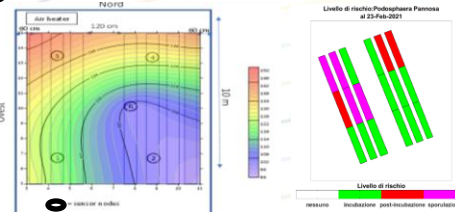


Thermal imaging

- Modellistica per *alert* fitopatologici



Microclimate sensor networks IoT



Disease risk mapping

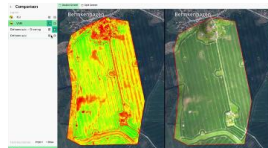


Disease risk dynamic

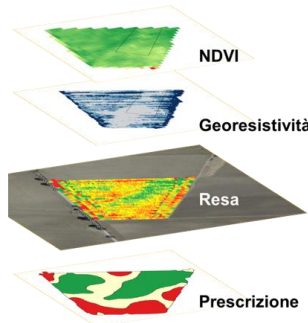
Approccio integrato all'agricoltura di precisione nella moderna azienda cerealicola pugliese



Azione n. 1
Coordinamento



Azione n.3
Analisi variabilità spazio-temporale



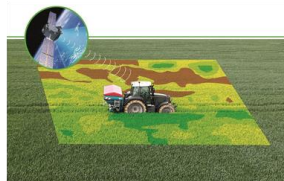
Azione n 5
Sostenibilità e analisi costi-benefici



Azione n 6
Attività divulgativa e formativa



Azione n. 2
Definizione di itinerari tecnici mediante
l'uso di DSS granoduro.net



Azione n.4
Mappe di prescrizione e
applicazione sito-specifica

Integrazione di diverse tecnologie per creare mappe più dettagliate



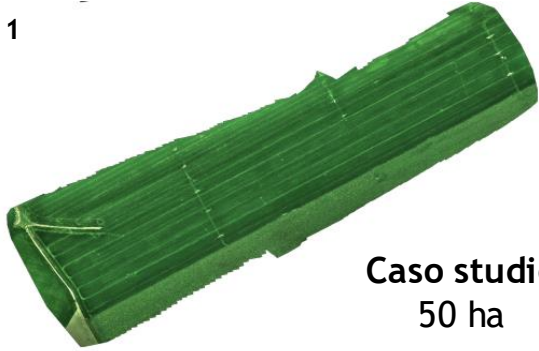
Progetto realizzato con finanziamento della
Regione Puglia - Legge regionale n. 55/2018
Servizi pubblici per la presentazione di Progetti
pilota per la promozione e lo sviluppo
dell'Agricoltura di Precisione

Partner di progetto



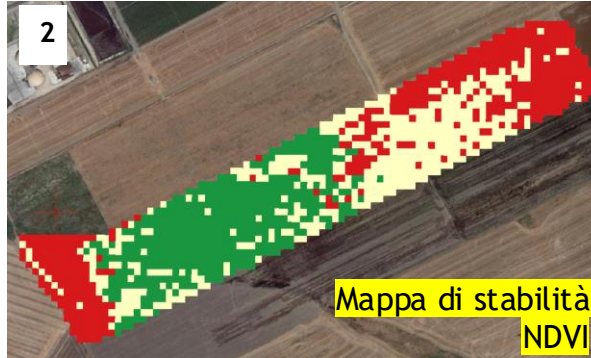
Analisi della variabilità spazio-temporale e mappa di prescrizione per la fertilizzazione azotata

1



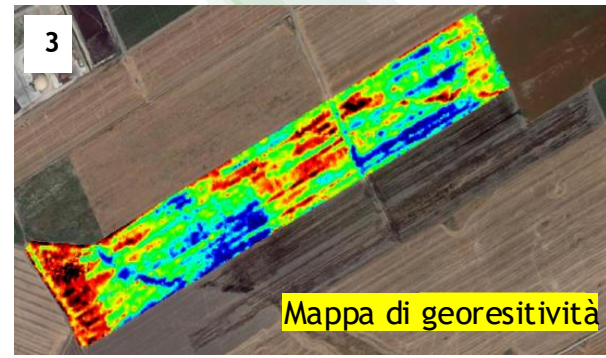
Caso studio
50 ha

2



Mappa di stabilità
NDVI

3



Mappa di georesistività

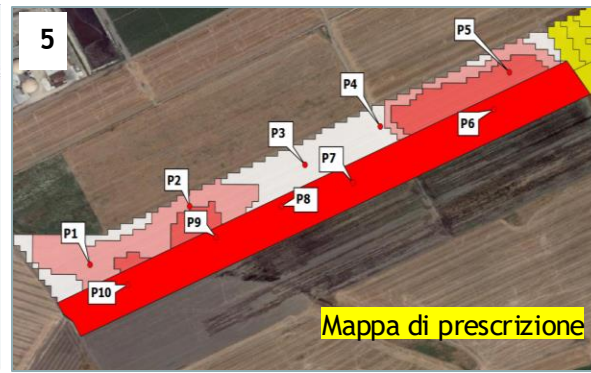
4

LoRaWAN™



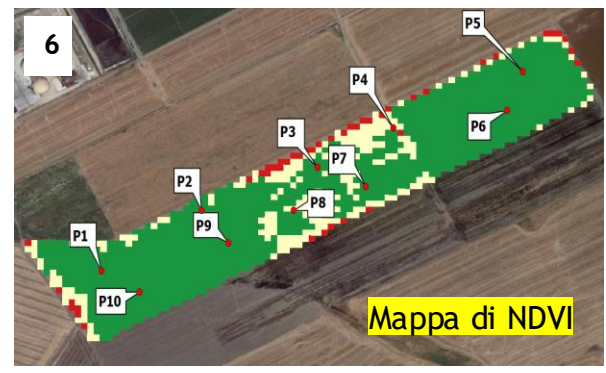
Rete di sensori
umidità del suolo

5



Mappa di prescrizione

6



Mappa di NDVI

Josephinum Research (JR)

JR focuses on developing methods and applying cutting-edge technologies in agriculture, with particular emphasis on:

- Digitization
- Precision and Smart farming
- Sensor technology
- Mechatronics and robotics



Linz Center of Mechatronics GmbH

Austrian R&D Service Provider, 110 Employees, since 2001. Transforming scientific knowledge into groundbreaking and economically successful solutions. Areas: **Electrical & Hydraulic Drives, Robotics, Modeling & Simulation, Industrial IoT**. Where "Science becomes **reality**".

Sensor Systems

- **Tailored sensor systems** for specific industry needs, e.g in harsh environments
- **Precise and reliable measurement solutions** for various applications

Key Competences

- **Comprehensive Services:** From applied research to prototype development and industrialization
- **Sustainable Solutions:** Focus on improving cost-effectiveness, climate friendliness, and suitability for the circular economy.

Communications and Data Analysis

- Development of **robust and secure communication networks** for industrial applications
- Predictive Analytics: Utilizing data analytics for **predictive maintenance and optimisation**



EIT Digital is partnership organisation. With an ecosystem of **350+ digital innovators**, most of our programs and initiatives are made in collaboration with them.

We are bringing together **academia, research and innovation**. Our aim is to build a competitive digital Europe, aligned with the UN Sustainable Development Goals.

Office on the web Frame

3500

EIT Digital Master School **graduates**

300

EIT Digital's Deep Tech **startup** portfolio

€1,3B

Total funds raised by EIT Digital supported **scaleups**

€180M+

EIT Digital-led Strategic Partnerships and collaboration for **EU projects**



Experimentation and training center that counts every year:

Over 1000 adults trained in digital and green economy topics

Over 10,000 children and young people

Plan 4 all

Non-profit association engaging in research and experimental development, with a strong emphasis on translating these results into practical applications. Umbrella organisation for more than 60 partners from 22 countries.

OPEN DATA



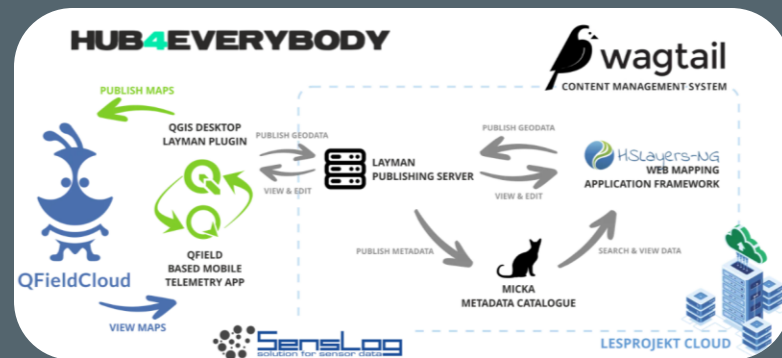
Partners in the Open Data category include eurostat, Copernicus (Europe's eyes on Earth), ÚZK, PORTAL Geo, ČESKÝ STATISTICKÝ ÚŘAD, EU Open Data Portal, and a map showing data points.

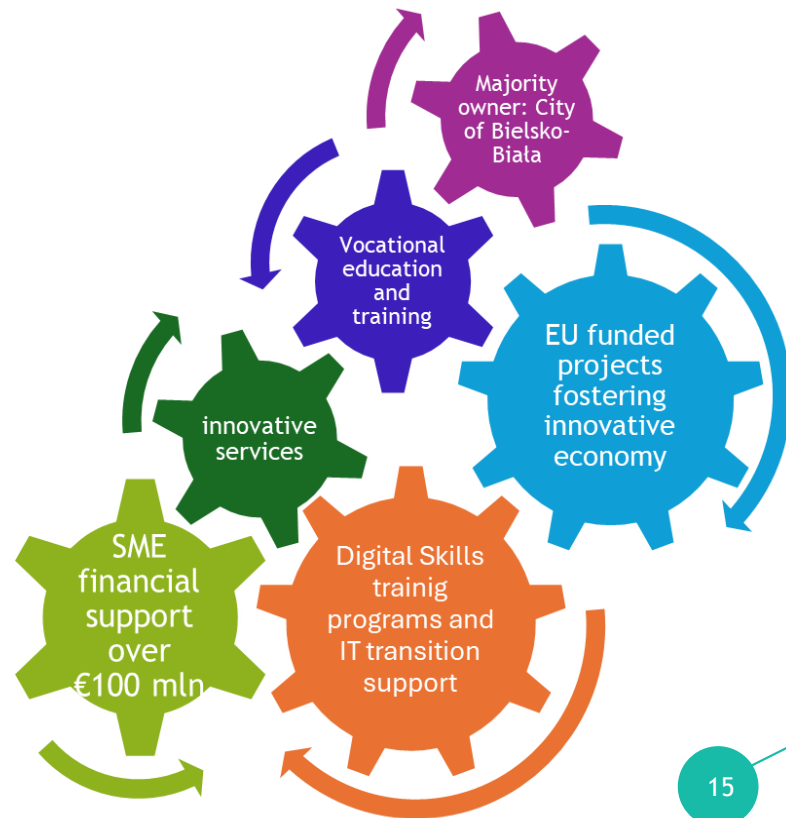
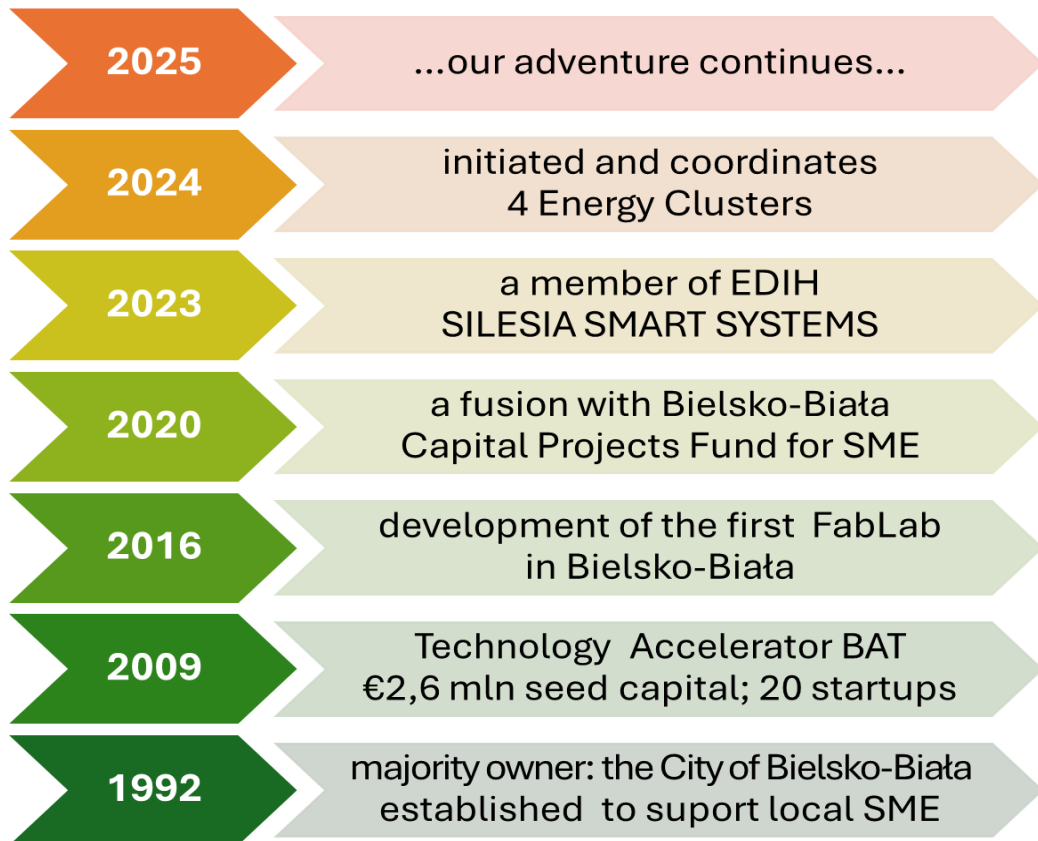
COOPERATION



Partners in the Cooperation category include GODAN (Global Open Data for Agriculture & Nutrition), OGC Member, GEO GROUP ON EARTH OBSERVATIONS, RDA (Research Data Alliance Europe), DigiKoalice, BDV i-Space SILVER, BIO EAST HUB, and Adra (The AI Data Robotics Association).

GEO APPLICATIONS





The **Faculty of Agriculture and Life Sciences** at the **University of Maribor** is a scientific and educational institution, one of 17 member faculties. It offers 8 BSc, 3 MSc, and 2 PhD programs. Located in Slovenia's key agricultural region, it blends theory with practice, **applying academic knowledge to real-world agriculture.**

Chair of Biosystems Engineering

- 8 members (PhDs & Engs in **agriculture, mechanical, electrical eng. & computer science**)
- Department focus:
 - **Smart Agriculture & Technology:** automatization, precision farming, digital image processing (yield prediction), agricultural robotics.
 - **Sustainable Energy & Engineering:** renewable energy, mechanical engineering in agriculture.
 - **Agri-Environmental Systems:** irrigation, plant protection, constructions and the environment.
 - **Data & Human-Centered Systems:** information systems and ergonomics.
- Contact: jurij.rakun@um.si

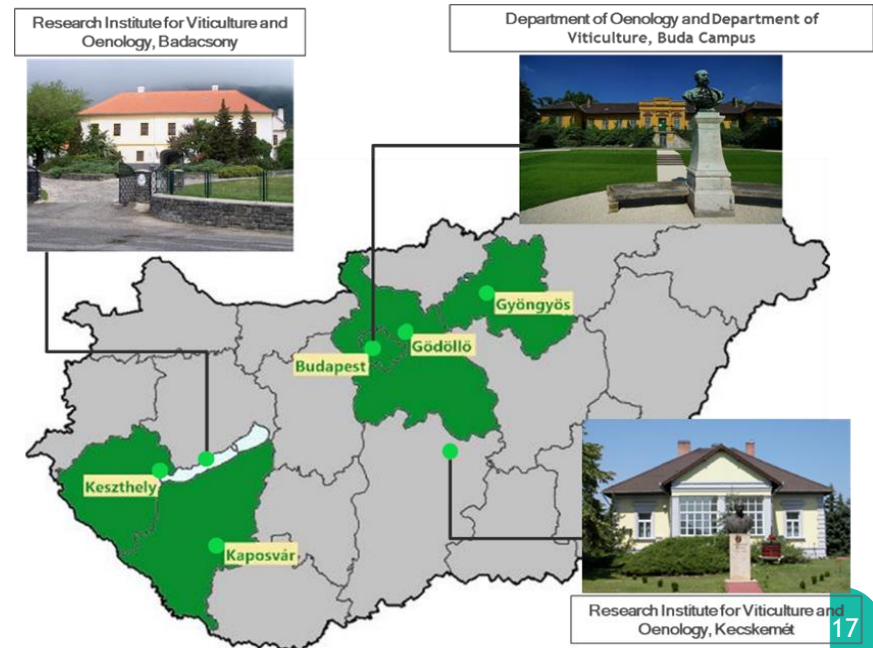


Hungarian University of Agriculture and Life Sciences (MATE) has been operating as a non-profit private higher education institution.

- No. of institutes: 21
- No. of students: 13.517
- No. of international students: 1879
 from 102 countries

Institute for Viticulture and Oenology:

- Traditional viticultural experiments
- Precision viticulture
- Molecular genetics
- Wine technology
- Wine microbiology



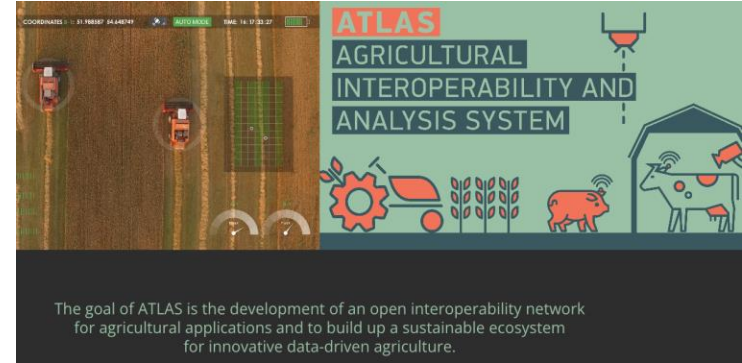
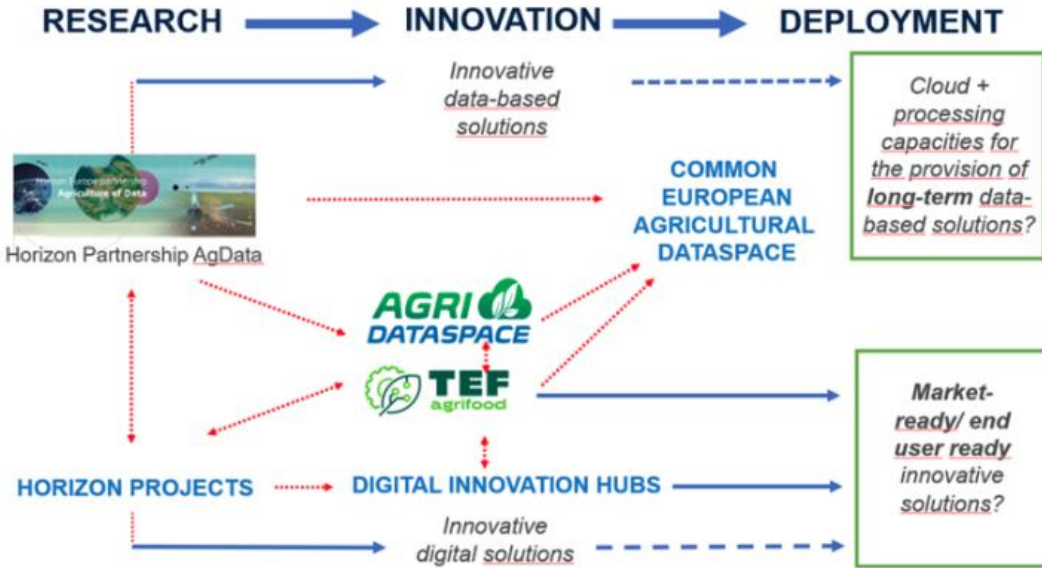
The Faculty of Mechanical Engineering and Naval Architecture (FSB) is Croatia's leading institution for education and research in mechanical, naval, and aeronautical engineering

Core competences:

- Mechanical engineering
- Naval architecture
- Aeronautical engineering
- Energy Engineering: focus on energy production, sustainable sources, and energy efficiency
- Strong industry collaboration and applied research
- Excellence in STEM education with modern labs and global recognition



Digitalisation in agriculture from research to industry and farmers

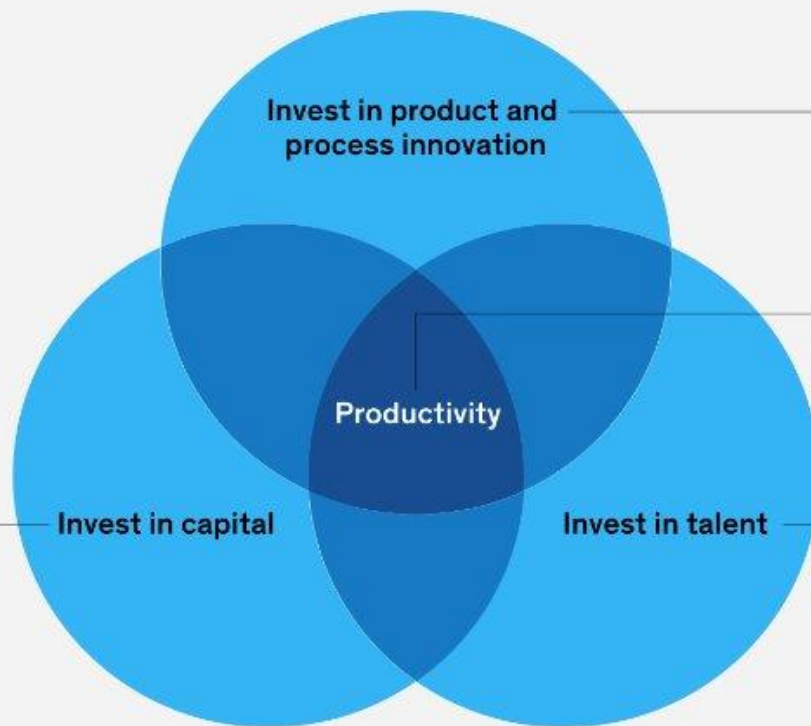


Productivity comes from coordinated action across categories of investment.

Factors to raise internal productivity

Strategy

Such as property, plant, and equipment; infrastructure; and technology and automation



Operation

Such as R&D, customer research, agile coaches, and lean processes

Growth in revenue per full-time equivalent position

Competences

Such as monetary compensation, nonmonetary rewards, physical environment, professional development, and workforce planning

Source: Ezra Greenberg, Asutosh Padhi, and Sven Smit, "2024 and beyond: Will it be economic stagnation or the advent of productivity-driven abundance?," McKinsey, Jan 12, 2024

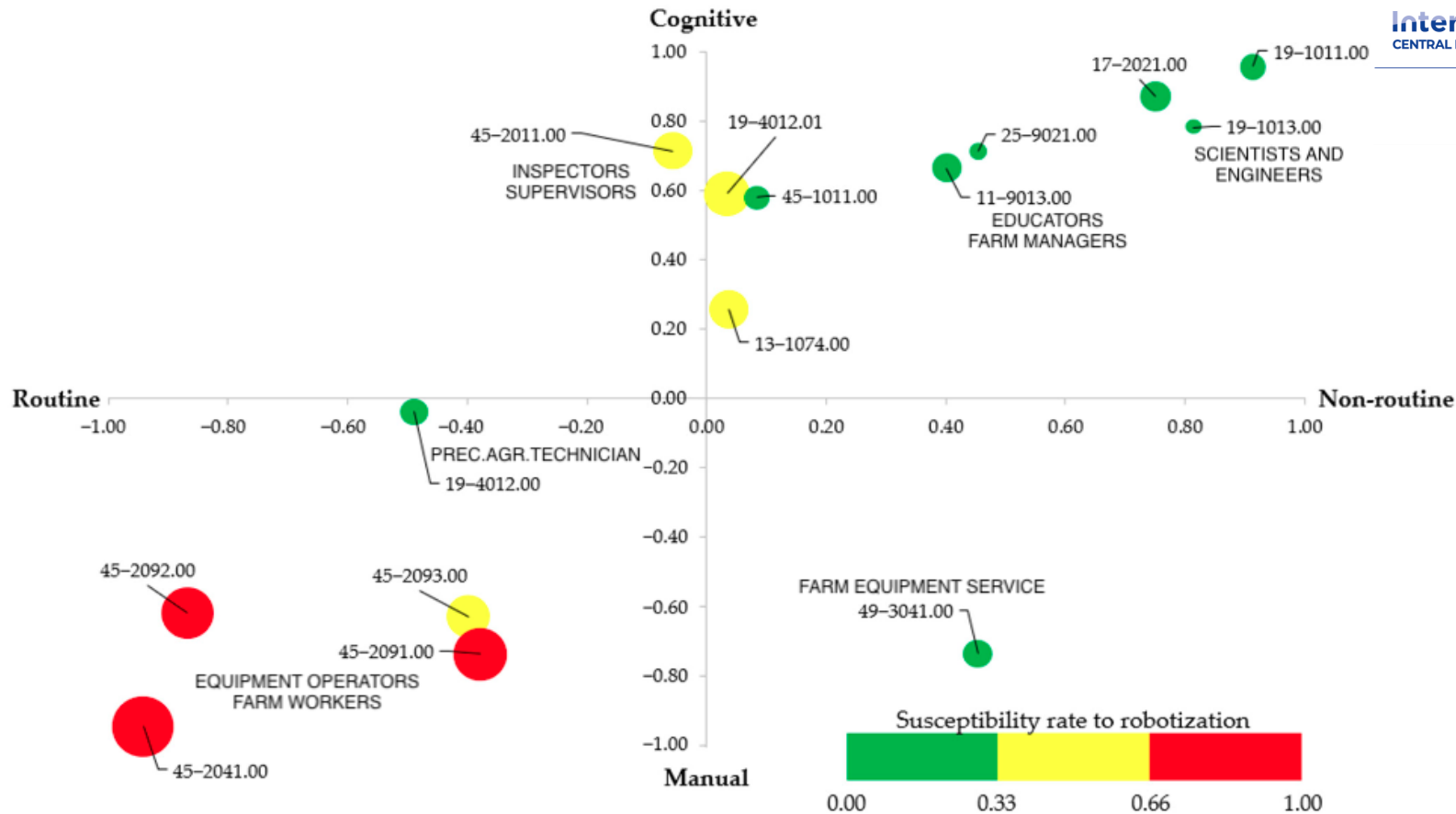


Figure 3. Mapping of the estimated cognitive/manual versus routine/non-routine levels along with the susceptibility rate to robotization of the reviewed occupations.

Precision Farming Specialist profile

Key principles:

- De-contextualisation, based on EQF and NQF
- Professional area of practice
- Competences defined by outputs

Next steps Implementation and validation

- **Engage stakeholders**
- **Validation and piloting**

Precision Farming Specialist (Manufacturer):

Skills

- Developing and automating materials, equipment and tools for the assembly of mechanical and electronic systems
- Knowledge
- Elements of design and development for the automation of mechanical parts: parts and assemblies, signs, symbols, scales and methods of representation
- Main digital tools, equipment and working tools and their methods of use

Abilities

Developing project diagrams and layouts, bills of materials and technical documentation for automated systems with IOT, Bus, GPS, electro-electronic control and power components for machines and/or plants. Identify technologies, communication languages, equipment, timing and work sequences according to the characteristics of the system and the type of automation work to be performed.

Indicators

- Reading diagrams and plant layouts
- Selection of IOT components
- Knowledge of communication languages (BUS)
- Verification of functionality of automated devices and equipment
- Setting the work plan for product automation

Result

Development and automation of machinery, equipment and services for the agricultural world adequately prepared according to the technical project documentation and prescribed procedural standards.

Precision farming specialist profile: Identify key competences with the players of the sector

1. **Lifelong learning:** extending over formal education with everyday engagement;
2. **System perspective:** understand complexity of diverse agricultural systems;
3. **Knowledge integration:** combining interdisciplinary knowledge from both scientific and practical farmer experience to bridge theoretical and empirical gaps;
4. **Subject-specific technical knowledge:** updated technical expertise is required to meet the demand for efficiency, safety, and sustainability in agriculture;
5. **Building and maintaining networks:** engaging in learning communities and networks to share knowledge, foster new ideas, and include diverse perspectives.

Precision Farming Specialist (Farm):

Skills

- Analysing the regulatory framework of the reference market
- Analysing the supply chain and requirements
- Analysing the main IT and statistical tools functional to the management
- business organisation and the implementation of innovative management models
- (precision farming, DSS - Decision Support System)
- Set up a service for the transfer of skills
- Design studies and research
- Set up a company Precision Farming Management System
- Set up a Precision Farming supply chain plan
- Manage the technical and operational documentation of equipment
- and machinery and raw materials
- Set up a company Big Data system and indicators for reading data

Result

Development and automation of machinery, equipment and services for the agricultural world adequately prepared according to the technical project documentation and prescribed procedural standards.

Abilities

- Apply procedures and techniques to detect contextual information and legislation
- Assess contextual elements influencing the demand for precision agriculture
- Apply techniques for analysing demand and market trends
- Elements of chemistry, physics, biology
- Elements of botany and sector specificities, etc.
- Knowledge of machinery, equipment, professional profiles and technologies in the sector
- Elements of business organisation and agricultural enterprise work
- Production process programming techniques
- Elements of cost accounting
- Basic computer elements

Indicators

- Reading diagrams and plant layouts
- Selection of IOT components
- Knowledge of communication languages (BUS)
- Verification of functionality of automated devices and equipment
- Setting the work plan for product automation

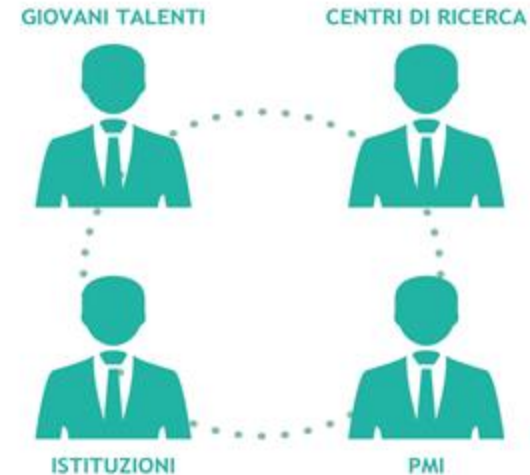
Call 4 Talent & Pilot courses

Connecting competences, people and organisations

The CE call for talent aims to create a database of young talents for matching digital competencies with the agricultural sector's needs. Participants will complete tasks within PF topics, decided collaboratively by SMEs and PPs, ensuring relevance. This initiative seeks to identify talent, foster innovation, and drive progress in agriculture.

5 challenges 1 for each living lab:

- Proximal sensing (Crea - Mate)
- Robotics (UM - JR)
- AI (P4A)



Understand the needs of the SMEs for creating valuable synergies



Please compile the questionnaire

Answers will be used for:

- developing pilot courses,
- proposing collaboration opportunities within the ecosystem

<https://forms.gle/LDL4J4Nn5EN9ovwk7>

5 Living labs: from theory to practice

Collaboration across the ecosystem R&D + talents + SMEs

Identify a field of knowledge and activate crossborder collaboration to design, test, validate, promote innovation in the field of precision farming

5 Living labs: from theory to practice

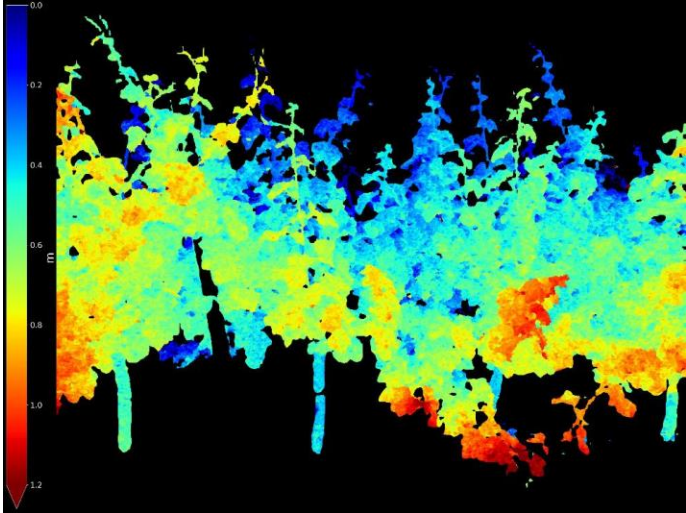
Collaboration across the ecosystem
R&D + talents + SMEs

AGRI-DIGITAL GROWTH

Sensoristica in vigneto

Software, elaborazione dati

Supporto alle decisioni/Automazione



Living Lab Italy

AI-Powered Irrigation and Proximity Sensors

Partners: CREA and CET Electronics



crea

Consiglio per la ricerca in agricoltura
e l'analisi dell'economia agraria



Centre for Viticulture and Enology Conegliano (TV) - Italy

Research Group: **Physiological Ecology of Grapevine**

Main Research topics

- Investigations on the complex relationships between environmental factors and production quality in viticulture with particular **focus on water availability**
- Studies about the most suitable management practices of the vineyards under the ongoing **climate change** scenario
- Studies about the best practices in viticulture suitable to balance the environmental sustainability with the profitability for growers
- Studies about **Precision Viticulture**, data processing and IA technologies as a framework for **Decision Support Systems (DSS)**
- Analyses of the viticultural national terroirs and their delimitation in accordance with their potential to produce wine with peculiar quality and typical features

Instruments

Services, devices and software for Industry and Agriculture

Air temperature and relative humidity probes



Weather stations



Capacitive leaf wetness sensors



High performance soil and substrates moisture sensors



Services

Developing and automating materials, equipment and tools for the assembly of mechanical and electronic systems. Providing the main digital instruments and their methods of use.

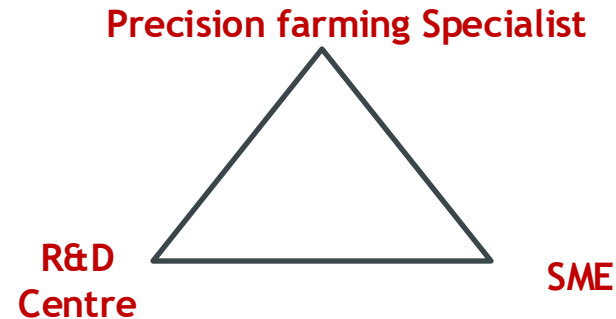
And much more....

AGRI-DIGITAL GROWTH PROJECT

AGRI-DIGITAL GROWTH

Living Lab and pilote study programs (from theory to practice!)

Expected result: training of a young generation in Precision Farming



Living Lab Ratio



The **Stem Water Potential** (ψ_s) measures the water tension (negative pressure) within the plant and represents an index of water stress

ψ_s is measured by the Scholander chamber, and it reflects the water status of plants. Stomatal conductance to water vapour is measured by porometers or InfraRed Gas Analysers (IRGA) and represents a parameter to infer the transpiration rate of leaves

however

The **Transpiration Rate** represents the amount of water released from leaves of plants into the environment following the atmospheric demand for water



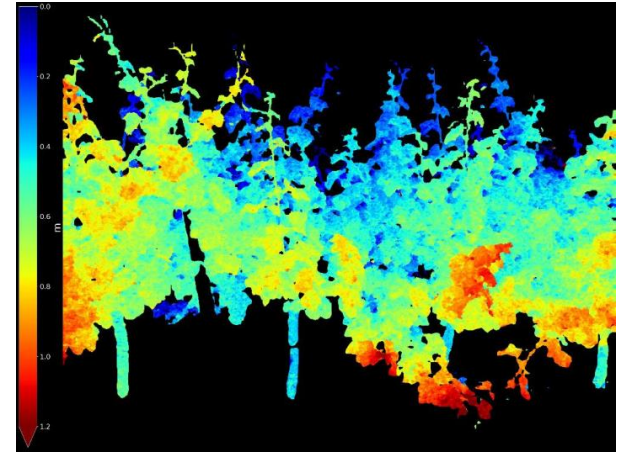
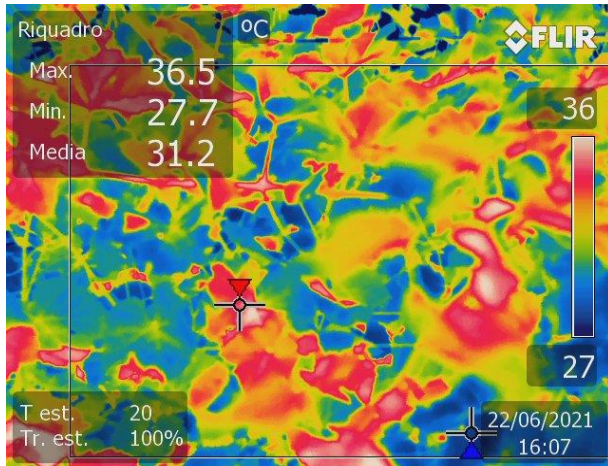
the techniques are **time-consuming and labour-intensive** since they need to be performed punctually by personnel, whereas plants need to be monitored continuously in an automatic system. Moreover, the IRGA instruments need to be constantly calibrated

then

finding reliable **methods capable of detecting constantly the water stress of plants** with automatic systems is crucial in viticulture

Living Lab Subject -1

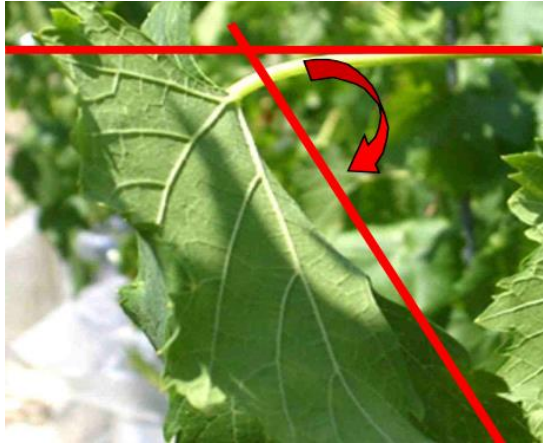
The **Infrared Thermal Imagery** offers a fast and reliable opportunity to detect and quantify biotic and abiotic stress in plants. Canopy temperature is considered as an indicator of plant water stress and can also be used as a **tool for irrigation scheduling**



Crop Water Stress Index (CWSI) and **Stomatal Conductance Index (IG)**, thermal-derived indices based on canopy temperature measurement, can be calculated to assess the water deficit for several species, including grapevine

Living Lab Subject -2

Leaf inclination on petiole is as a key indicator of water stress in plants since it changes according to the turgor pressure driven by the inward diffusion of water into cells. Its variation can reduce the thermo-radiative load on leaf affecting its temperature, conductance and transpiration contributing to water storage



Nevertheless, leaf angle it is not yet a common parameter in irrigation management, because of practical difficulties in handling leaves and measurements



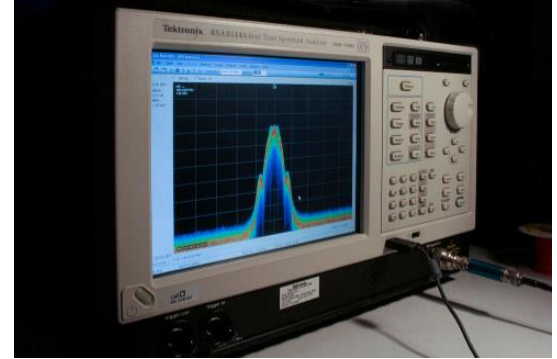
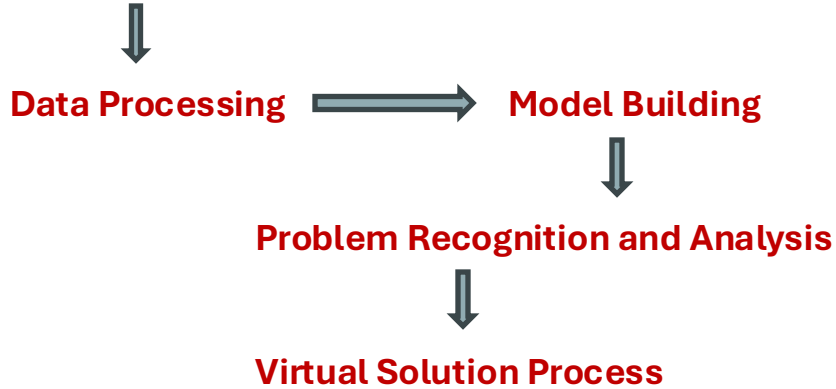
however

It can be calculated through a multi-view stereo 3D reconstruction method using multi-view images taken by a stereo camera. The results can be used for **smart management irrigation**

Living Lab Subject -3



Combining information obtained from weather stations and measures on plants



Implementation of a **Decision Support System (DSS)** based on **Big Data** collected, explained by **Data Analytics algorithms** and **Artificial Intelligence**, with **Machine Learning (ML)** approaches, in order to obtain simple and clear information for growers to predict the optimal timing and amount of water to be provided in irrigation management



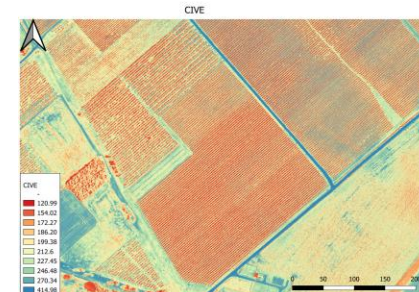
Canopy Morphology Monitoring

Color and architecture provide valuable information about the plant status for:

- Nutrient supply
- Plant protection
- Evaluation of missing plants
- Plant physiology



"Traditional" remote sensing is widely applied.



Exploring Canopy Morphology

Vineyard canopy build up by individual leaves that differ in:

- age
- size
- physiological state

Aim: develop a system that can obtain data from multiple sections of the canopy.

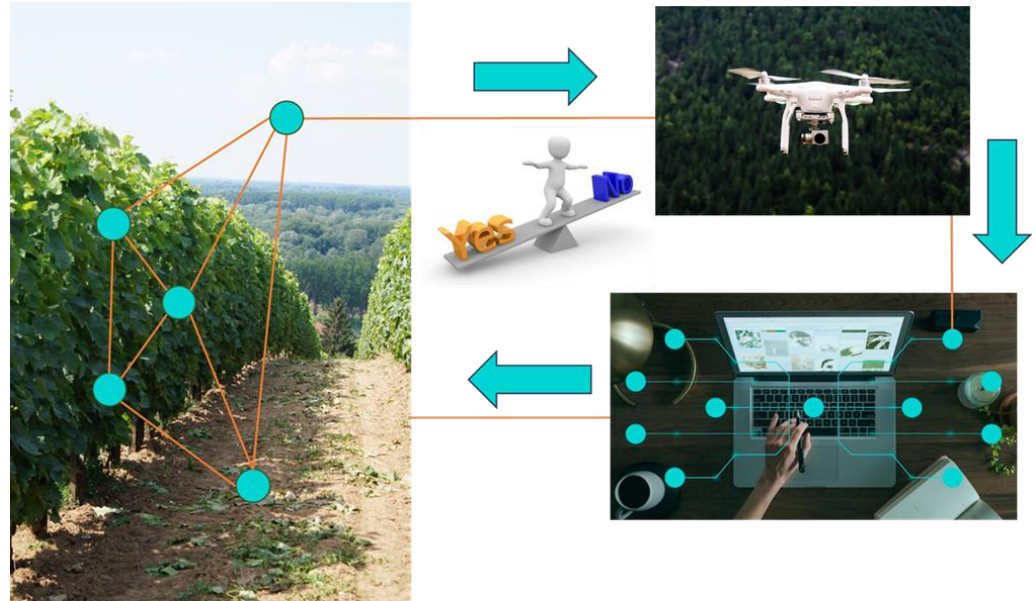


MATE AND LCM

Living Lab in a Vineyard

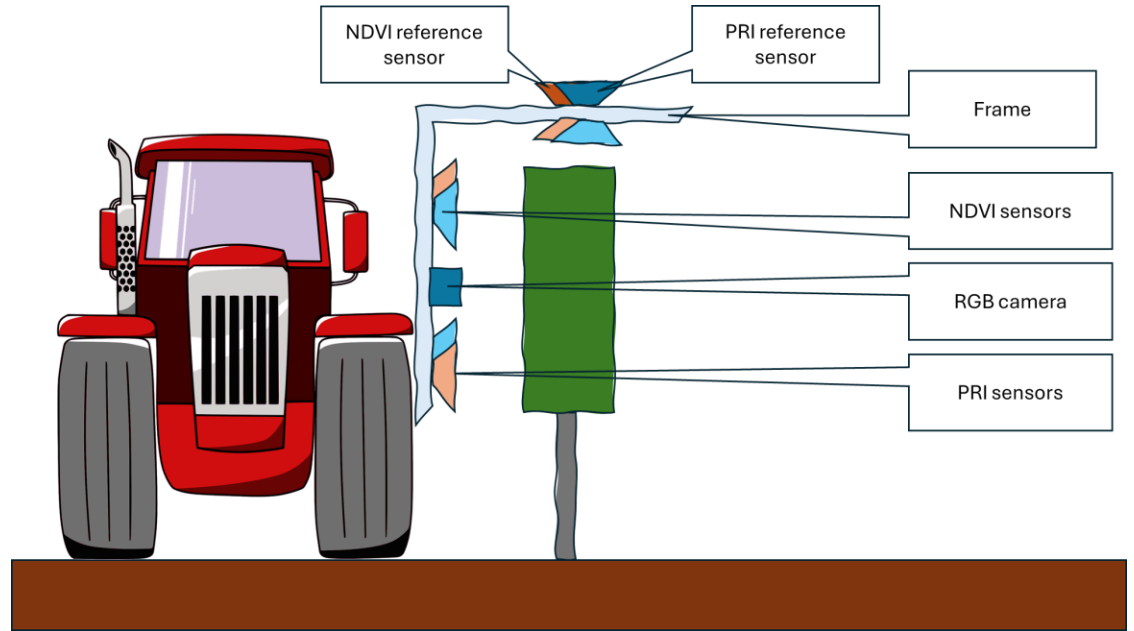
Sensing Methods

- Drone system
- Mobile data acquisition system on a tractor ("DisDAQ")



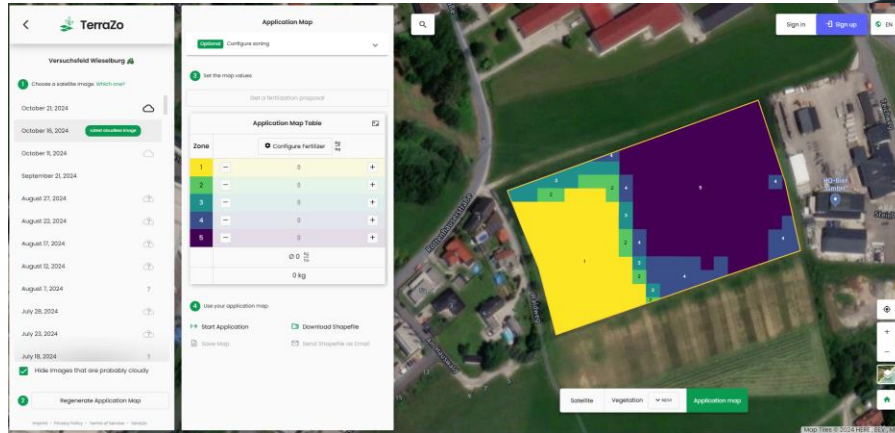
MATE AND LCM

Living Lab System Setup



JR Living lab in Austria: from theory to practice

Collaboration across the ecosystem R&D + talents + SMEs

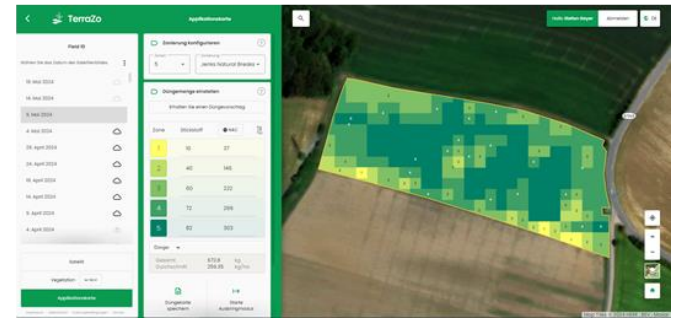
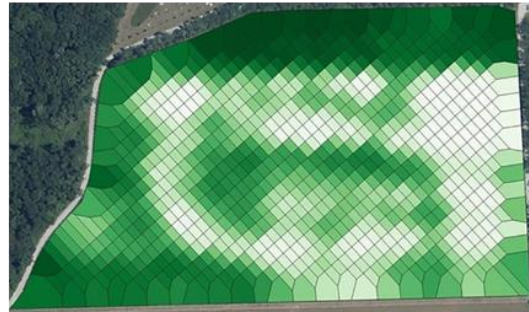
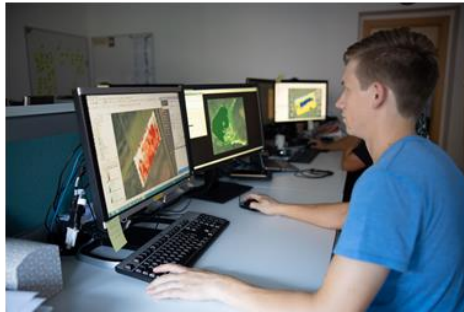


optimizing fertilization and improving input efficiency using multispectral drones, geospatial data, soil and biomass sampling, and algorithm development

JOSEPHINUM RESEARCH (JR)

Site-specific management in agriculture

- ✓ Improved Resource Use
- ✓ Increased Yields
- ✓ Reduced Environmental impact



JOSEPHINUM RESEARCH (JR)

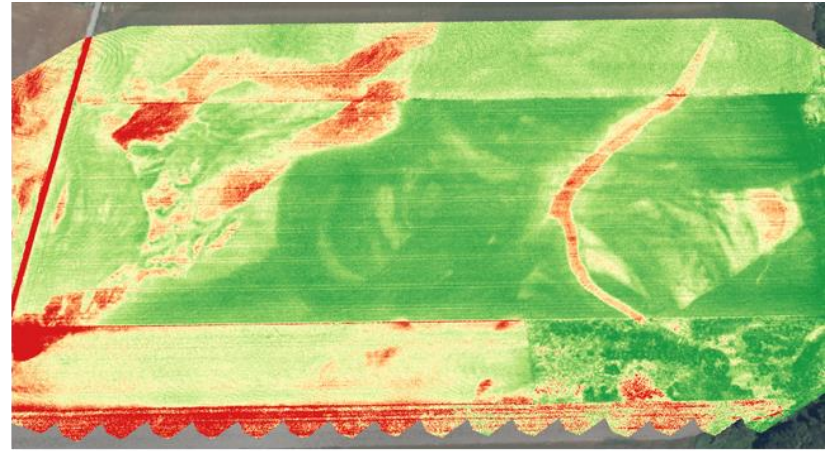
Technology Integration

Multispectral Drones

- Capturing real-time and detailed data in high resolution

Geospatial Data & Sensors

- Satellite Data
- ESA - Sentinel 2

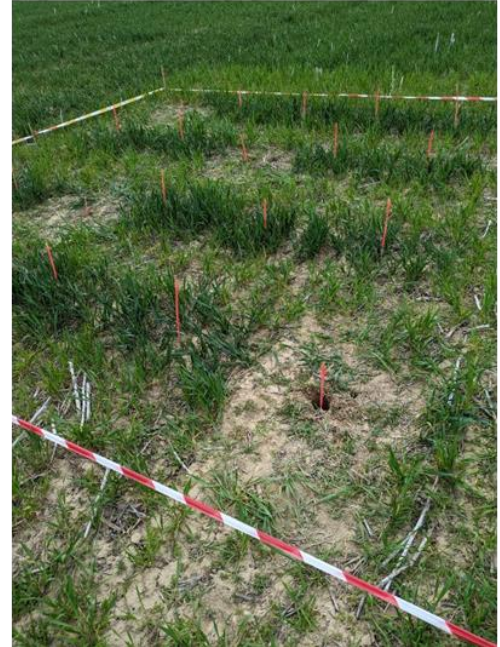


JOSEPHINUM RESEARCH (JR)

Technology Integration

Sampling:

- Soil
- Biomass
- Harvest



JOSEPHINUM RESEARCH (JR)

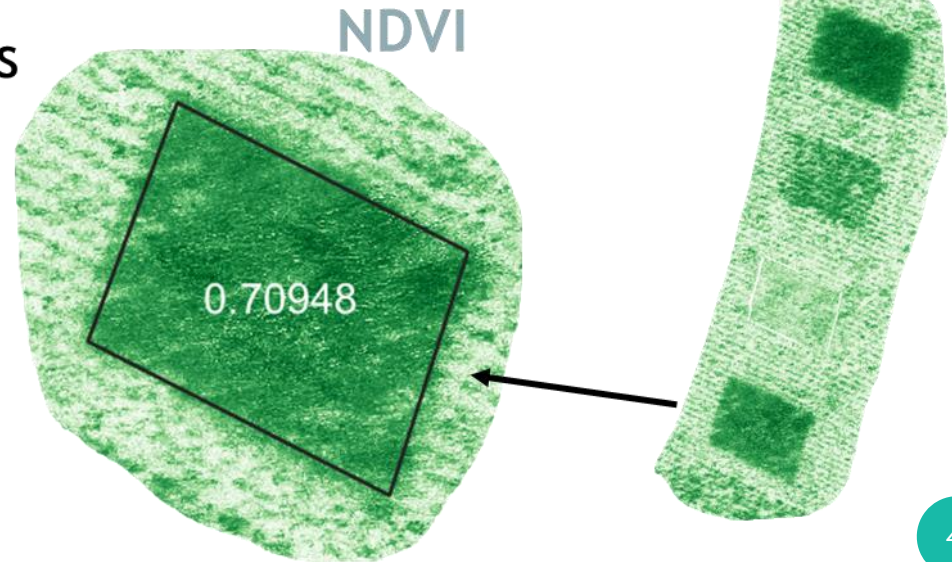
Data processing and Visualization

Index Calculations

- Drone and satellite data to compute vegetation indices

Geospatial Mapping

- GIS software
- Integration of data layers
- Identification of patterns



UM - educational activities

- Biosystems engineering study program
- Summer school on ICT in precision agriculture (ipa.um.si)
- Extra-curriculum work with students (student projects, Field Robot Event)
- Micro-credentials on smart & precision farming



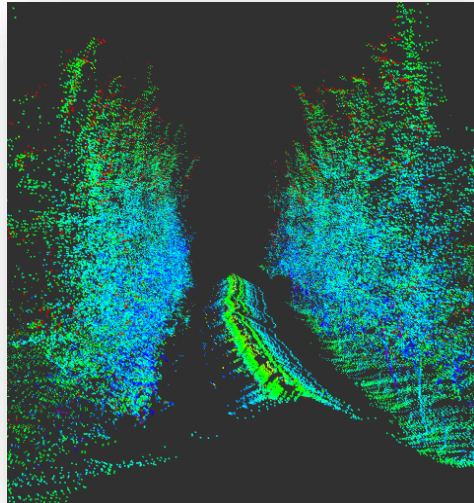
UM - research activities - robotics

- Student robots:
 - CornStar, FarmBeast
- Vineyard robots:
 - Rovitis, Rovitis 4.0, ADAM
- UAV



UM - research activities - smart sens & dev

- Smart sensors
 - Multispectral, IoT
- Smart spraying systems
 - SLAM supported, LiDAR enabled
- Digital twins



UM - Living Lab



Enhance autonomous spraying to protect agricultural workers from exposure to hazardous chemicals

Email: jurij.rakun@um.si



AI-Driven Innovation for Sustainable Precision Agriculture: Czech Republic

From theory to praxis: A hub for innovation in Precision Agriculture

Purpose:

A collaborative space for testing and validating technical solutions

Key Elements:

Digital infrastructure for precision farming
Integration of pilot courses and educational resources
AI-driven approaches for crop monitoring and weather forecasting
Stakeholder-driven innovation and real-world experimentation





Plan4all

AgriHub.cz as the Core Platform: Enabling Digital Agriculture

Role in the Living Lab:

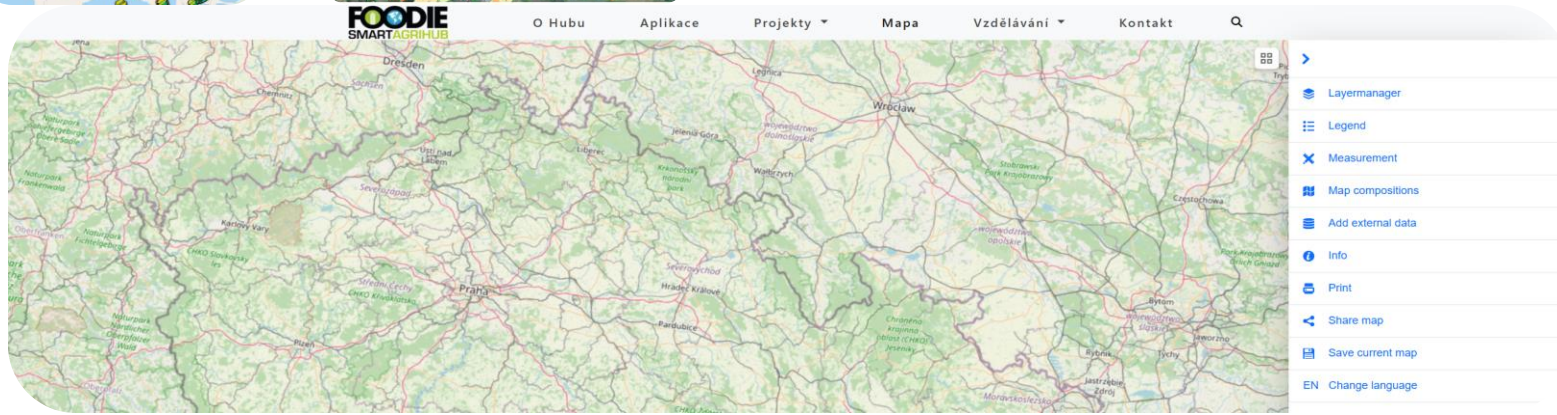
Central hub for users to access, test, and refine precision agriculture solutions

Supports data sharing, sensor integration, and AI-based analytics

User Engagement:

Farmers, agronomists, advisors, and researchers can collaborate

Real-world feedback loop for continuous improvement





Plan 4 all

Educational System & Courses: Agriculture training for all levels

Four courses tailored for different users:

- **Mechanics** - Equipment maintenance and sensor installation
- **Agronomists** - Crop management using digital tools

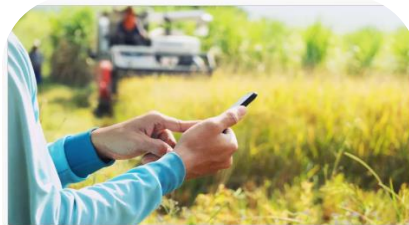
- **Data Specialists** - Analyzing and interpreting precision agriculture data
- **Advisors** - Supporting farmers in decision-making with digital solutions

Delivery: Pilot courses in Czech integrated into AgriHub.cz



Mechanizátor/mechanizátorka precizního zemědělství v rostlinné výrobě

Mechanizátor/Mechanizátorka precizního zemědělství v rostlinné výrobě je kvalifikace zaměřená na obsluhu moderní zemědělské techniky s využitím navigačních a aplikačních systémů. Absolvent zvládá kalibraci a nastavování mechanizačních prostředků, analýzu dat z výnosových map, organizaci prací a zajištění údržby strojů. Součástí je také dodržování zásad bezpečnosti práce, ekologického provozu a vedení provozní dokumentace. Více informací naleznete na [Národní ústavě kvalifikací](#).



Agronom/agronomka pro precizní zemědělství

Agronom/Agronomka pro precizní zemědělství je kvalifikace zaměřená na pokročilé plánování a řízení rostlinné výroby s využitím moderních technologií. Absolvent této kvalifikace umí analyzovat stanovištní podmínky, navrhnout osevní postupy, diferencované pěstební zásahy a efektivní zpracování půdy. Ovládá principy precizního hnojení, ochrany plodin, využívání výnosových map a datových systémů pro optimalizaci provozu. Důraz je kladen na environmentální a ekonomické přínosy precizního zemědělství. Podrobnosti



Technik/technička pro zpracování dat v precizním zemědělství

Technik/Technička pro zpracování dat v precizním zemědělství je kvalifikace zaměřená na efektivní využívání a analýzu dat pro moderní zemědělství. Absolvent této kvalifikace ovládá geografické informační systémy (GIS), metody dálkového průzkumu Země (DPZ) a práci s datovými senzory pro monitorování plodin a půdních vlastností. Je schopen integrovat různorodé datové zdroje, provádět pokročilé analýzy a navrhnout datové strategie pro optimalizaci zemědělských operací. Více informací najdete [zde](#).



Zemědělský poradce / zemědělská poradkyně pro precizní zemědělství v rostlinné výrobě

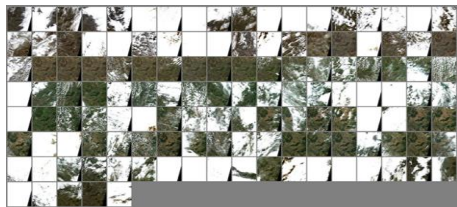
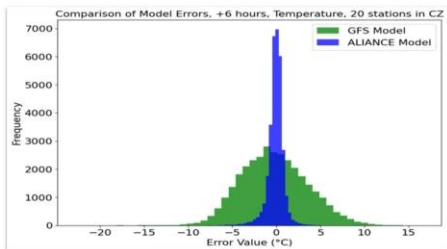
Zemědělský poradce/Zemědělská poradkyně pro precizní zemědělství v rostlinné výrobě je kvalifikace zaměřená na poradenství v oblasti moderních technologií, datových analýz a efektivních postupů v zemědělství. Absolvent dokáže analyzovat stanovištní podmínky, navrhnout osevní postupy a optimalizovat používání hnojiv. Ovládá diagnostiku plodin, management zón a práci s daty z DPZ, senzorů a faremních informačních systémů. Poradce také poskytuje podporu při využívání dotací a plnění legislativních požadavků. Podrobnosti najdete [zde](#).

Plan 4 all

AI-Powered Innovation in Precision Agriculture: Harnessing AI for Smarter Farming

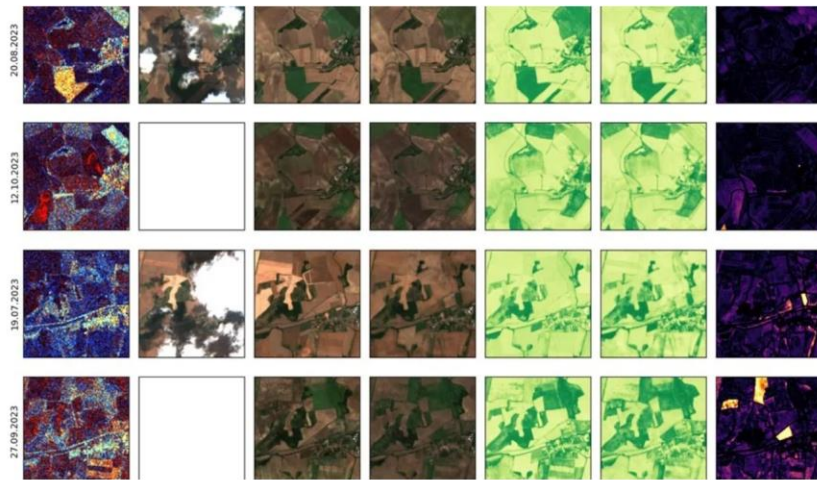
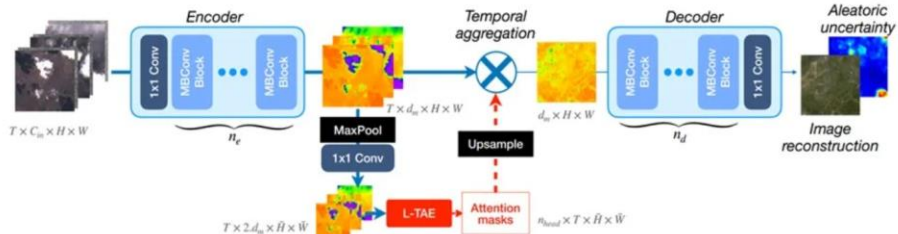
Machine Learning & Data Integration:

- Leveraging satellite imagery, local weather data, and sensor networks
- AI-driven analysis for real-time insights and predictive modeling



Enhancing Decision-Making:

- **Crop monitoring:** Early detection of stress, pests, and disease
- **Weather forecasting:** Improved planning for irrigation, fertilization, and harvesting
- **Climate adaptation:** Data-driven strategies for sustainable farming



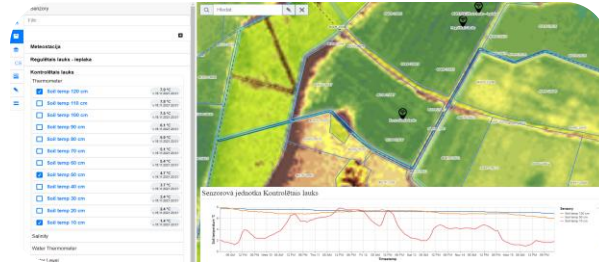
Living Lab activities & Future plans: Driving Innovation & Collaboration

Current Activities:

- Testing technical solutions in real farming environments
- Preparing pilot courses for user training
- Engaging stakeholders for co-creation and feedback

Future Goals:

- Expanding course offerings and language options
- Strengthening industry and research collaborations
- Continuous innovation in digital agriculture tools



The Precision farming knowledge transfer ecosystem

Transnational ecosystem to promote knowledge transfer

- Collaboration is central to face the challenges of the future
- Identify and connect competence centres
- Establish new collaborations
- Co-design products
- Promote knowledge transfer locally and internationally



PF Knowledge Transfer Ecosystem

- Catalyst for the development and adoption of precision agriculture
 - In manufacturing SME with R&D centers for the development of new solutions;
 - In farms R&D centers as hub for transferring new knowledge.
- Interconnection between Farmers, SMEs, Public Institutions, research centers.
- Transfer of know-how and best practices.
- Identification of funding opportunities.



What the project will return to the associate members:

- The opportunity to join the precision farming Ecosystem that is being created having access to the 5 living labs outcome
- The opportunity to access a database of talents and precision farming specialists
- The possibility to get access to the specialistic educational courses being developed by the program
- The access to the results of the Precision Farming and Agri-Digital status survey but we need a little help from you ...

please, **provide your reply to the survey by APRIL 11th**

Agri-Digital Growth

AGRI-DIGITAL GROWTH

What the project will return to the associations:

- The opportunity to join the precision farming network that is being created having access to the 5 living labs
- The opportunity to access a dedicated network of agronomists and precision farming specialists
- The possibility to access a series of thematic educational courses being developed by the project
- The results of the Farming and Agri-Digital status survey but we need a response from you ...

All these outcomes are funded by the ADG Project

please, **provide your reply to the survey by APRIL 11th**

Agri-Digital Growth

Next Steps:

Agri-Digital Growth

Next Steps:

The topics discussed today, and the outcome related to this project will also be further developed at the Federunacoma **ThinkTank** event on **March 27th** in Bevagna (PG)

Q&A

AGRI-DIGITAL GROWTH



AGRI DIGITAL GROWTH



<https://www.interreg-central.eu/projects/agri-digital-growth/>



<https://www.linkedin.com/in/agridigital-interreg/>



Thank you for your attention