



VYTAUTAS MAGNUS
UNIVERSITY
AGRICULTURE
ACADEMY

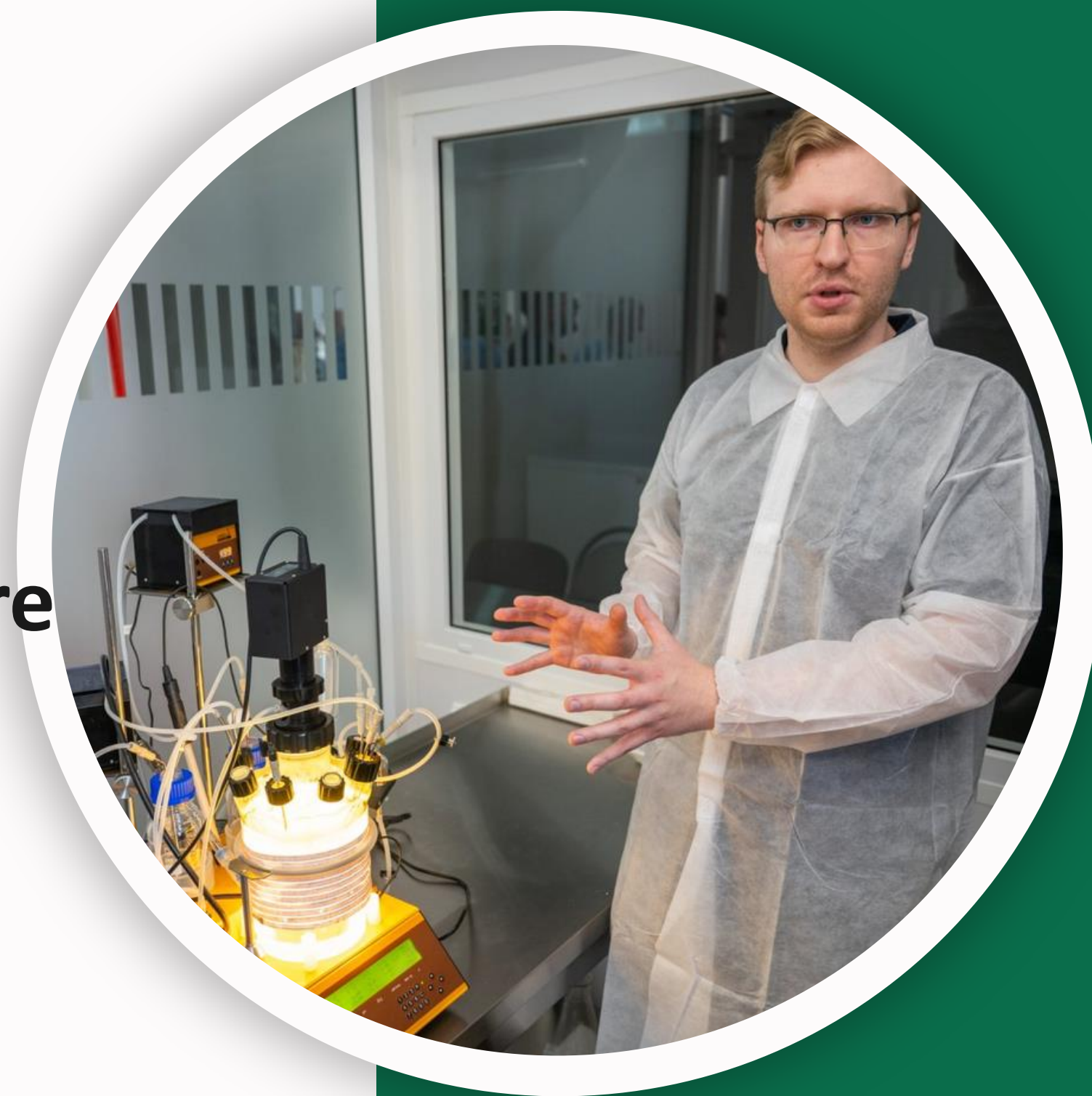


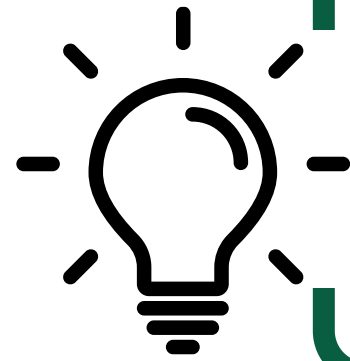
VMU Agriculture
Academy

**Teaching methods to address the
strategic challenges facing the future
of agriculture:**

**Experience of
Vytautas Magnus University Agriculture
Academy**

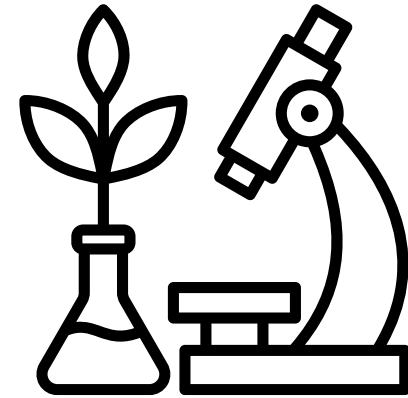
**Prof. Dr. Astrida Miceikiene,
Chancellor of Agriculture Academy**





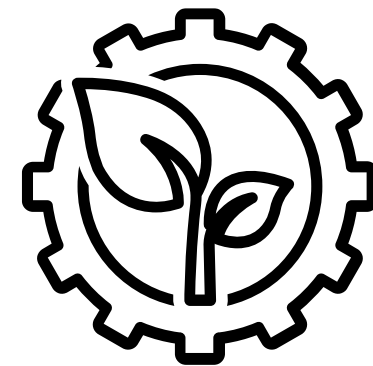
Students from schools

- Smart students academy.
- Engineering school classes for students.
- STEAM center.



Students

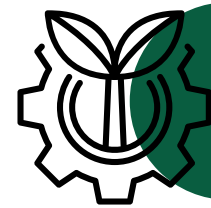
- Training workshops in farmers' farms and companies
- Solving real business problems at the VMU Practice Centre
- Field demonstration in VMU AA training farm/experimental station/farmers farms.
- Research in labs
- Research practices



Business managers and professionals, farmers

- Training and workshops for managers and specialists of agricultural companies and farms
- Training and workshops for farmers
- Consultancy
- Field demonstrations

Bachelor Study Programmes



AGRONOMY



Sustainable Business Management(EN)



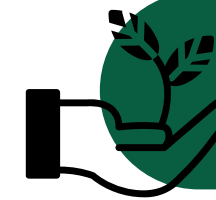
LAND USE PLANNING AND REAL ESTATE VALUATION



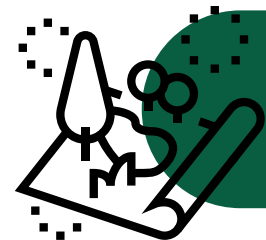
FOOD QUALITY AND SAFETY



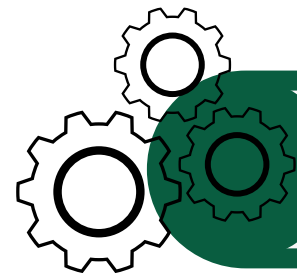
LOGISTICS AND COMMERCE (EN)



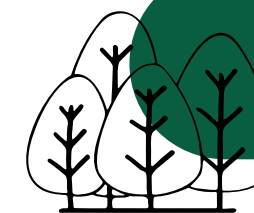
APPLIED ECOLOGY



LANDSCAPE DESIGN



AGRICULTURAL MECHANICAL ENGINEERING



FORESTRY



ACCOUNTING AND FINANCE (EN)



SUSTAINABLE ENGINEERING (EN)

Master Study Programmes



AGROECOSYSTEMS



AGRONOMY (EN)



**QUALITY AND SAFETY OF PLANT
FOOD RAW MATERIALS**



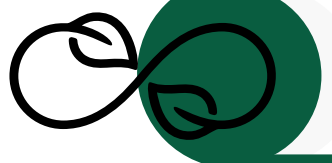
**ACCOUNTING AND
FINANCE**



**AGRICULTURAL BUSINESS
MANAGEMENT**



AGRICULTURAL ECONOMICS



SUSTAINABLE ENERGY



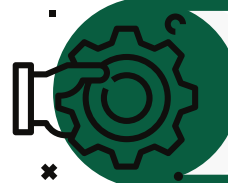
**BUSINESS
LOGISTICS (EN)**



**CUSTOMS PROCESS
MANAGEMENT (MBA, EN)**



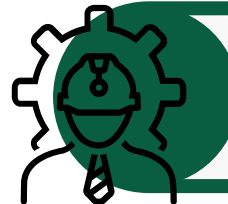
**RURAL DEVELOPMENT
ADMINISTRATION**



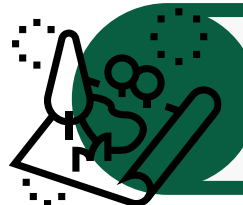
**AGRICULTURAL ENGINEERING AND
MANAGEMENT**



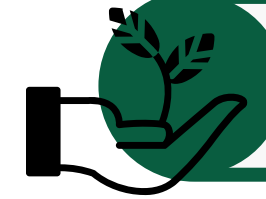
**AGRICULTURAL MECHANICAL
ENGINEERING**



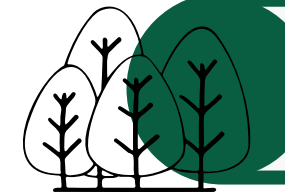
**HYDRAULIC ENGINEERING
(EN)**



LAND MANAGEMENT



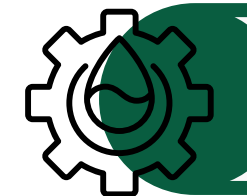
**ECOLOGY AND CLIMATE CHANGE
(EN)**



FORESTRY



**WILDLIFE RESOURCES AND
MANAGEMENT**



AQUAMATIC (EN)

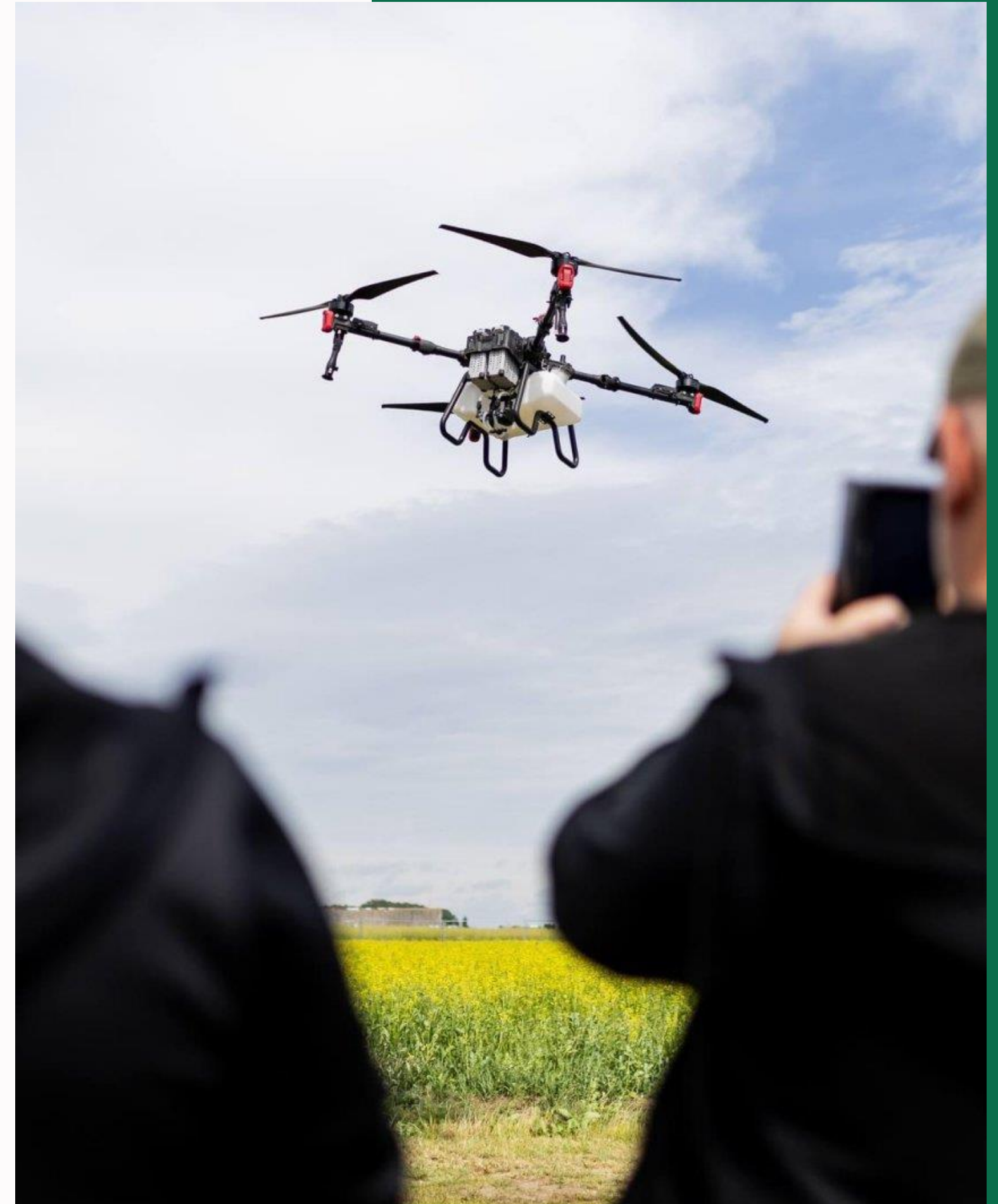
Technology-Driven Training (Precision Agriculture)

Focus: Train students and farmers to use digital tools, sensors, and data analytics.

Tools: GPS-guided tractors, drones, soil sensors, and satellite imagery.

Impact: Enhances crop management by optimizing resource use (water, fertilizers), increasing yields, and reducing waste.

Example: **Training workshops** on how to use precision agriculture apps and equipment.



Sustainable and Regenerative Farming Practices

Focus: Train students on eco-friendly agricultural practices.

Techniques: Crop rotation, reduced tillage, permaculture, agroforestry, organic farming.

Impact: Reduces environmental damage, improves soil health, and promotes biodiversity.

Example: **Field demonstrations** on composting, cover crops, and integrated pest management.



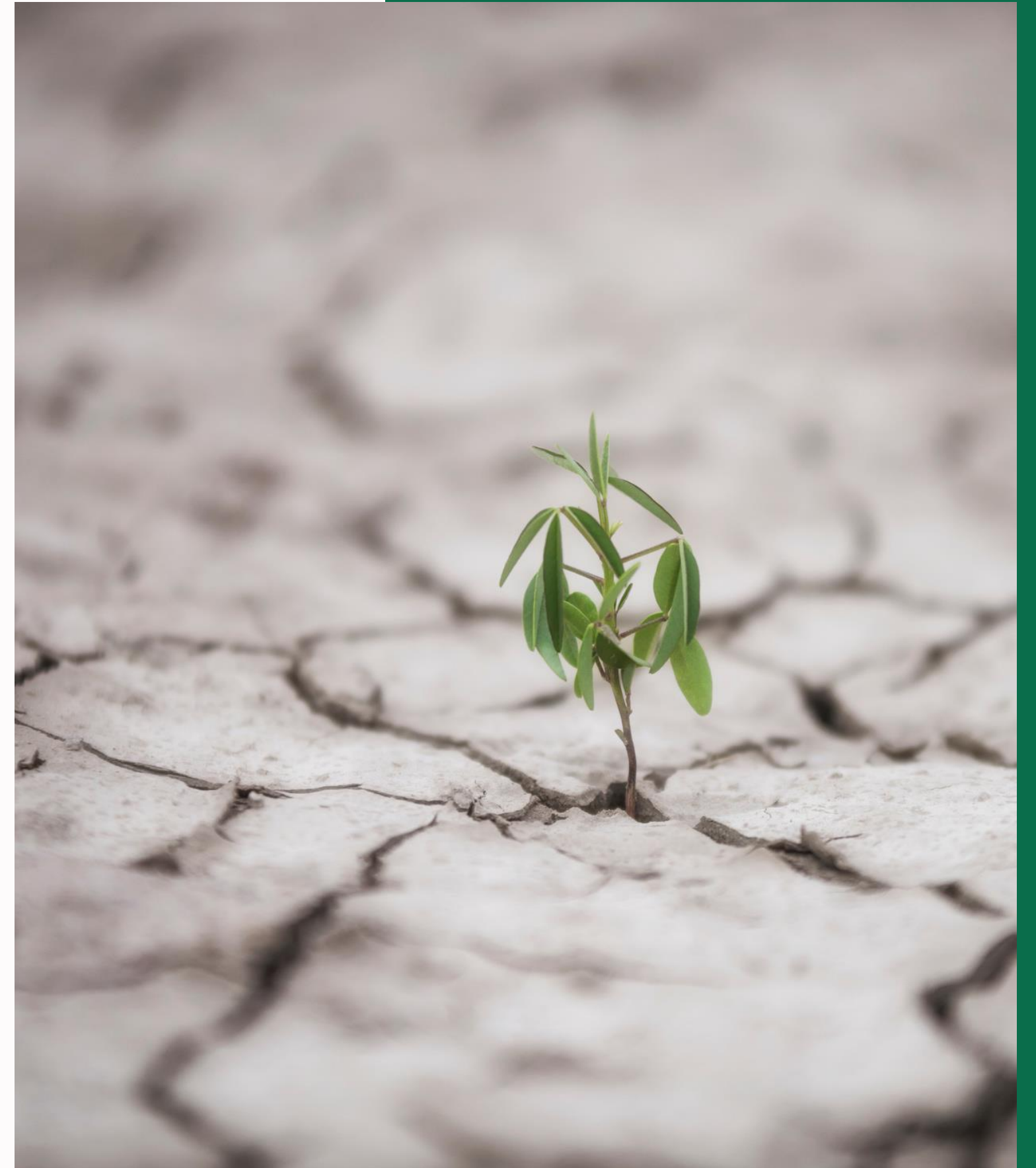
Climate-Resilient Agriculture Training

Focus: Teach students how to adapt to changing climate conditions.

Topics: Drought-resistant crops, water-saving techniques, and climate forecasting tools.

Impact: Increases resilience to extreme weather and helps maintain productivity under variable climate conditions.

Example: **Workshops** on selecting heat-tolerant crop varieties or improving irrigation systems.



Digital Literacy and Smart Farming

Focus: Build business managers, students, and farmers' capacity to use mobile apps, software, and digital platforms.

Tools: Market pricing apps, weather forecasting apps, farm management software.

Impact: Improved decision-making through real-time data, market access, and financial management.

Example: **Interactive map of VMU AA training farm.** Training to use digital marketplaces and e-extension services.



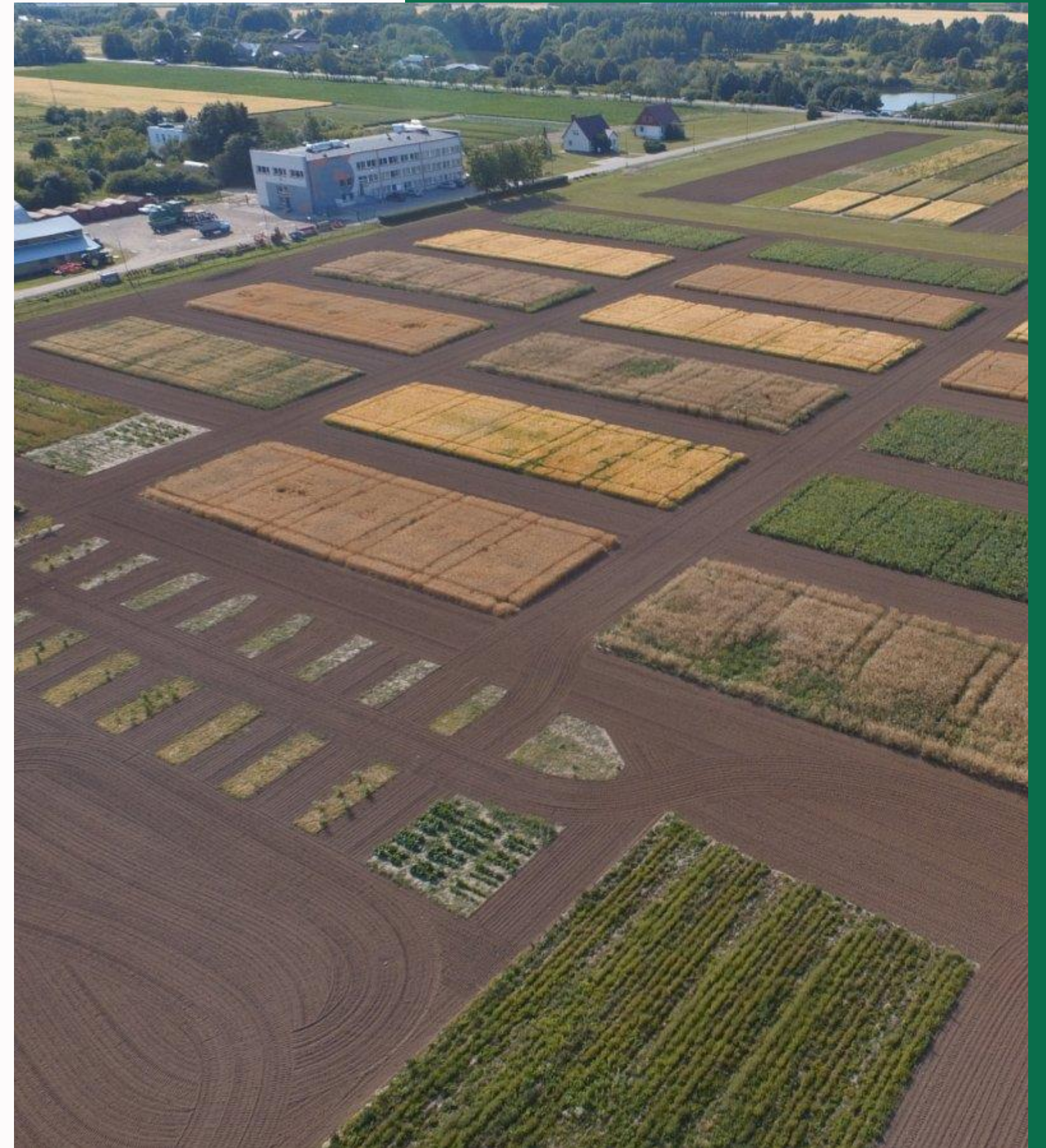
Participatory and Peer Learning Programs

Focus: Encourage knowledge exchange between farmers, students, and local communities.

Methods: Farmers and students Field Schools (FFS), farmer-to-farmer knowledge sharing, and community-based participatory approaches.

Impact: Builds local capacity, improves adaptability to local challenges, and encourages innovation.

Example: **On-farm demonstration** of new agricultural technology techniques, such as drip irrigation or organic pest control.



Agroecology and Biodiversity Training

Focus: Promote diversity in cropping systems to maintain ecosystem balance.

Topics: Polyculture, natural pest control, conservation of indigenous crop varieties.

Impact: Enhances ecosystem services, improves farm resilience, and reduces dependency on chemical inputs.

Example: **Field schools** that focus on integrated crop and livestock systems.



Digital book where students build businesses using only artificial intelligence tools



Playful methods (Escape rooms etc.)

Mokymosi visą gyvenimą praktika studentams

Užduotį parengė:
Vytauto Didžiojo universiteto
dėstytoja dr. Aistė Ragauskaitė



Veikia vykdoma įgyvendinant projektą „Skaitmeninė švietimo transformacija („EdTech“)





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THANK YOU
For Your Attention
