

KNOWLEDGE FLOW IN AKIS

Meeting of the SWG SCAR AKIS
Strategic Working Group on Agricultural Knowledge
Innovation Systems

19 – 20 November 2019

Kaunas, Lithuania



VYTAUTO DIDŽIOJO
UNIVERSITETO
ŽEMĖS ŪKIO
AKADEMIJA

Išsilavinimas 360°

By: Antanas Maziliauskas and Rasa Pakeltienė
Vytautas Magnus University, Lithuania

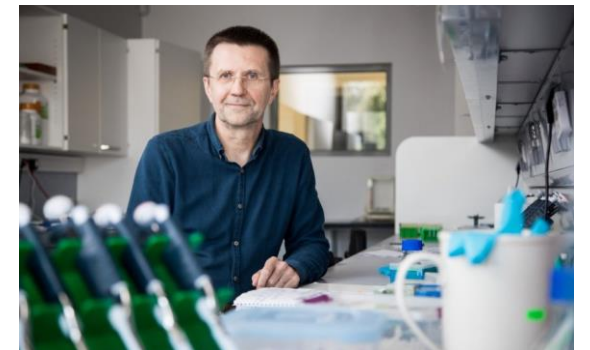


Population from 5 mln. 10,000 years ago to 7,745 billion today. GLOBAL CHALLENGE 2050 TO FEED 10 BILLION (2057)

FROM BASIC METHODS



TO PERFORMING TECHNOLOGIES, HIGH YIELDS



PRODUCING FOR WASTE?



Around 100 million tonnes of food are thrown away in the EU every year.

**WE ARE ALL TOGETHER 505 MLN PEOPLE IN EU
WE WASTE 100 MLN. TONNES FOR 130 BLN. EUR**

a) EN 10 YEARS?

b) EN 100 YEARS?

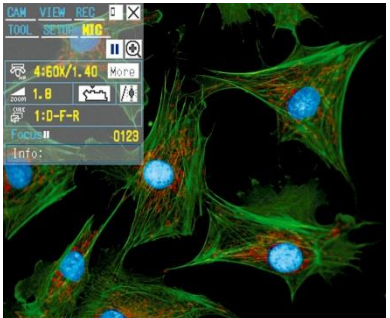
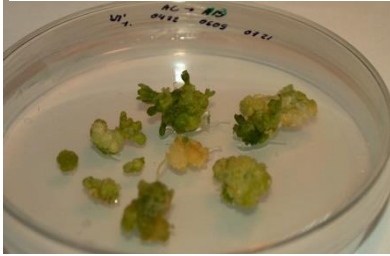
c) A YEAR?

WHAT'S THE SOLUTION? EATING INSECTS? Or LOOKING FOR INNOVATIONS

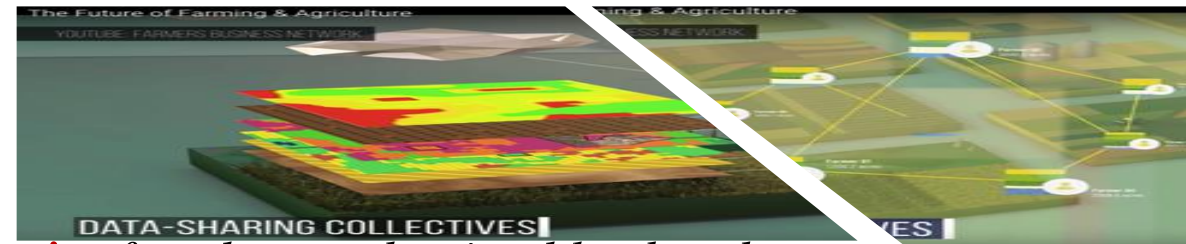




WHAT WE DO TODAY? ADVANCED RESEARCH IN OUR LABS AND FIELDS



- BUSINESS-RESEARCH – EDUCATION
- ADVANCED LABS
- TECHNOLOGY TRANSFER
- BUSINESS INCUBATOR



- *Developing competitive **technologies** for plant and animal husbandry;*
- *Genetics, **biotechnology** and selection for plants and animals;*
- *Modern technologies and products for **food quality and safety**;*
- *Sustainable development of **renewable energy** i.e. biomass based.*

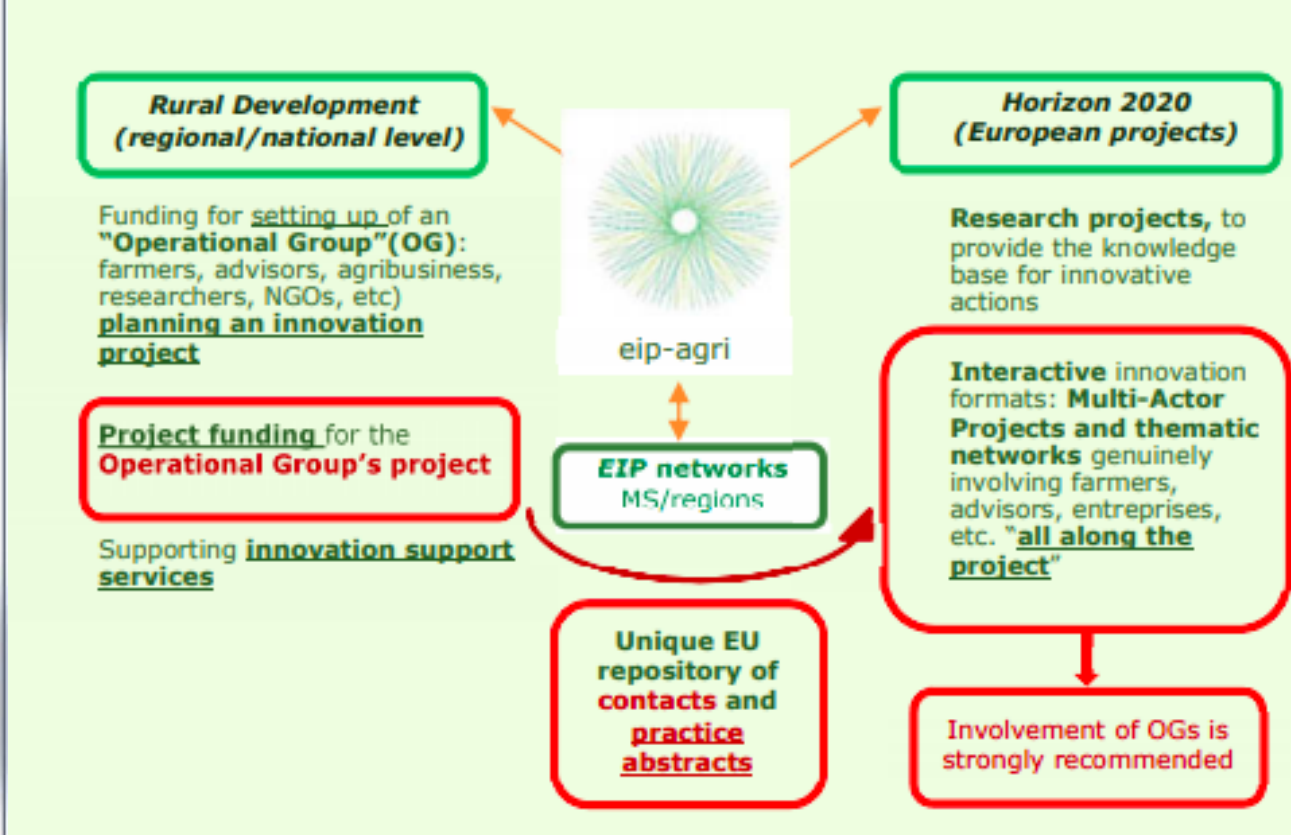


AKIS

Art 71-72 are a key part of an integrated approach supporting modernisation, innovation and knowledge flows



Funding for EIP-AGRI interactive innovation projects



MULTI-ACTOR PROJECTS HORIZON 2020

INTERACTIVE INNOVATION

- Collaboration between various actors
- Complementarity of knowledge
- Co-creation
- Diffusion
- Solutions ready to implement

INNOVATION FROM WASTE?

Granular fertilisers from waste

by Assoc. Prof. Dr. Juozas Pekarškas

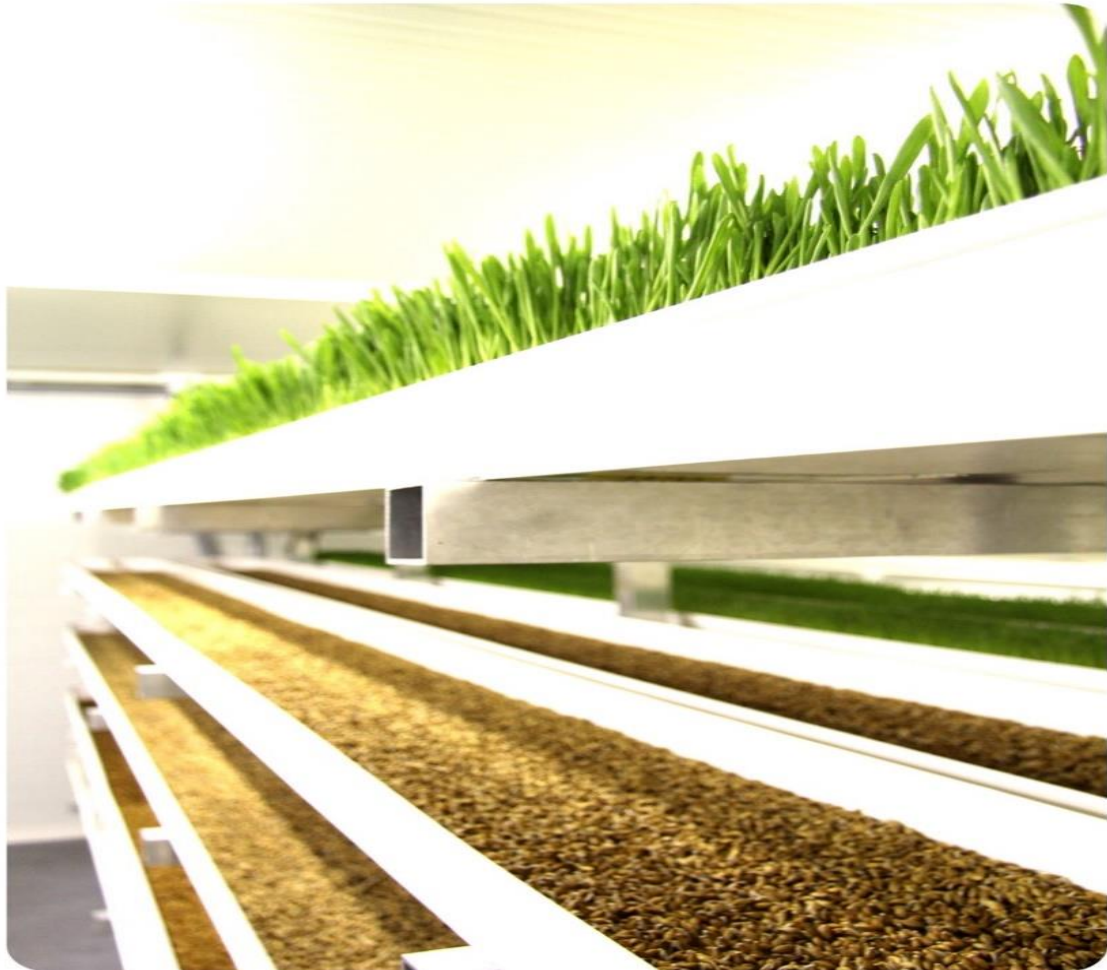


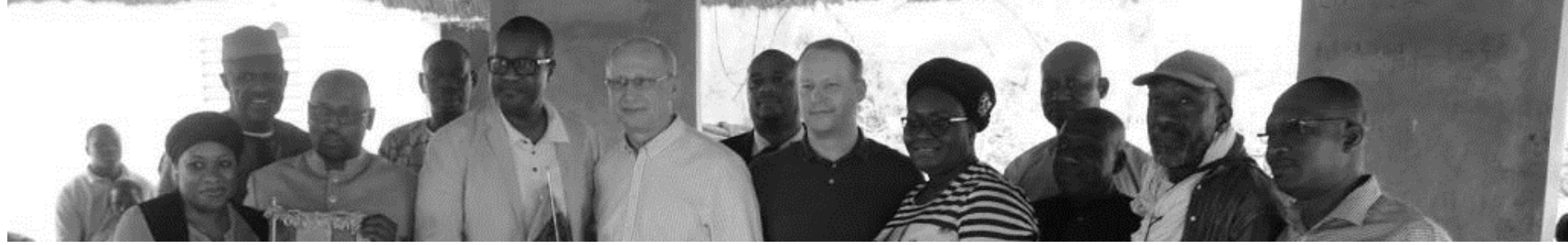
„Science service of the Year to
Business“, 2018
Award by Lithuanian Business
confederation

While applying this developed technology, *waste biomass processed by fly larvae* can be turned to high quality *compost* and these composts can be turned *to granular fertilizers*. It is the very first time when this type of technologies related to the use of larvae of black soldier flies are applied.

WHAT WORKS WELL TOGETHER?

VERTICAL HYDROPONIC FODDER TECHNOLOGY (EIP PROJECT)





LITHUANIAN DEVELOPMENT COOPERATION PROJECT HYDROPONIC FODDER TECHNOLOGY FOR PROMOTING ENTERPRENEURSHIP IN MALI



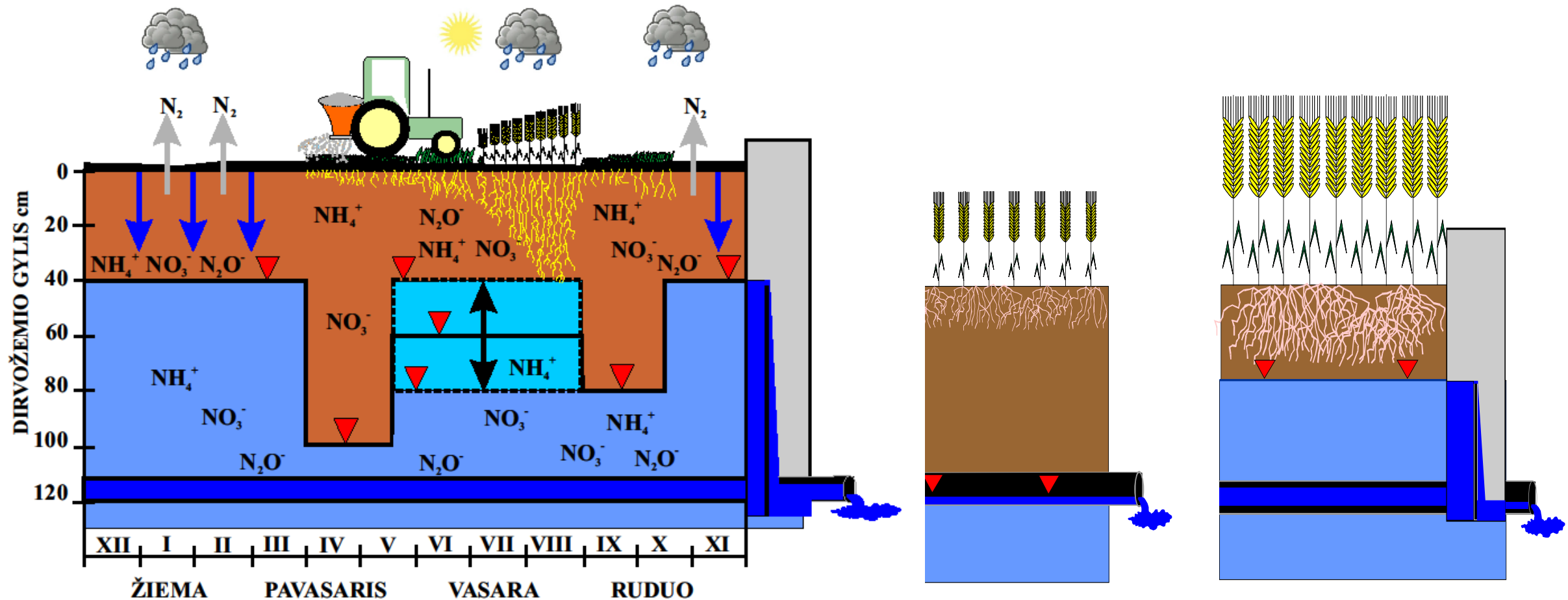
Tester la faisabilité technique du transfert de technologie dans les conditions climatiques du Mali

Démontrer aux opérateurs économiques les avantages comparatifs de la technologie et créer la demande

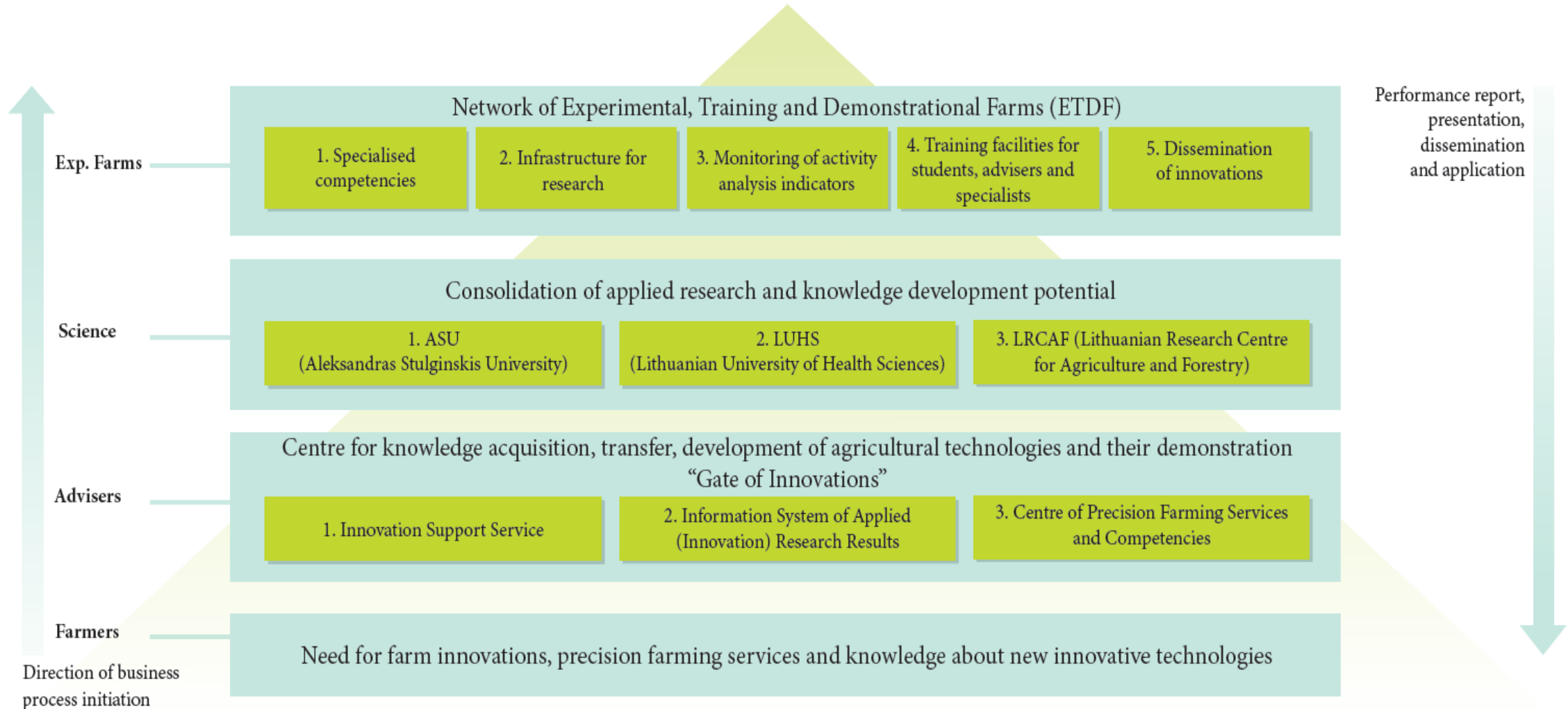
Générer de la connaissance pour dupliquer la technologie à grande échelle

WHAT WORKS WELL TOGETHER FOR SOIL MOISTURE?

REGULATED DRAINAGE SYSTEM (EIP Project)



EIP: CENTER OF KNOWLEDGE ACCUMULATION, TRANSFER, DEVELOPMENT OF AGRICULTURAL TECHNOLOGIES AND THEIR DEMONSTRATION "GATE OF INNOVATION"



The system will make the optimization of human resources and time costs in implementing the innovation projects over the Innovation Support Service. It will provide an easier and faster flow of ideas from research testing in experimental farms for practical needs.



EIP ACTION GROUP „INNOFOOD HUB“

**START:**

11/11/2

END:

04/11/2021

**BUDGET:** Total amount
199977 EUR**PARTNERS**

- JSC „Kvalitetas“
- Lithuanian Family Farmers' Union
- Farmers
- Full House Community

OBJECTIVE OF THE PROJECT

To develop a self-regulatory functioning innovation implementation and dissemination model to accelerate short food supply chains (SFSC) and local markets' development.

EIP MISSION

To disseminate best practices in short supply chains for health-friendly food and promote the development of biologically valuable products' markets.

MAIN ACTIVITIES

During the implementation of the project, all members of the EIP Action Group will use their competencies and the planned involvement of material resources (relevant infrastructure) in the project activities in order to achieve the objectives of the EIP project. Activities of the project members will be implemented following these tasks:

1 Task

Critically evaluate (based on best practices in EU countries) the "farm-to-table" experience of innovative farms cultivating and producing biologically valuable products

2 Task

Assess trends and opportunities in the development of markets for biologically valuable products, taking into account consumer values and consumer needs

3 Task

To spread innovations and ensure quality in the system of production and storage of biologically valuable products, increasing the efficiency and sustainability of SFSC

4 Task

Organize the network of farms producing bio-valuable products to ensure the dissemination of SFSC expertise and market development

SUPPORTED BY**EXPECTED RESULTS**

The results achieved by the EIP's "Innofood Hub" would contribute to a sustainable solution to the social, environmental and economic challenges of the country's regions by enabling farmers to develop short supply chains for biologically valuable products and to bring together innovations implementing farmers in a collaborative network.

WHO WILL BENEFIT

Participating in the EIP group and working with farmers means strengthening the competitive power of market presence. Farms that jointly innovate and take advantage of high biological value production and marketing opportunities not only strengthen the integration of joint economic activities. Collaboration enhances mutual trust as well as forms new horizontal and vertical links in the dissemination of information. It is important to emphasize that the convergence of farms towards common goals and harmonious activities leads to the development of cooperation rules and standards, such as the introduction of a system of production and quality assurance for biologically valuable products, and at the same time forms the basis for long-term cooperation.

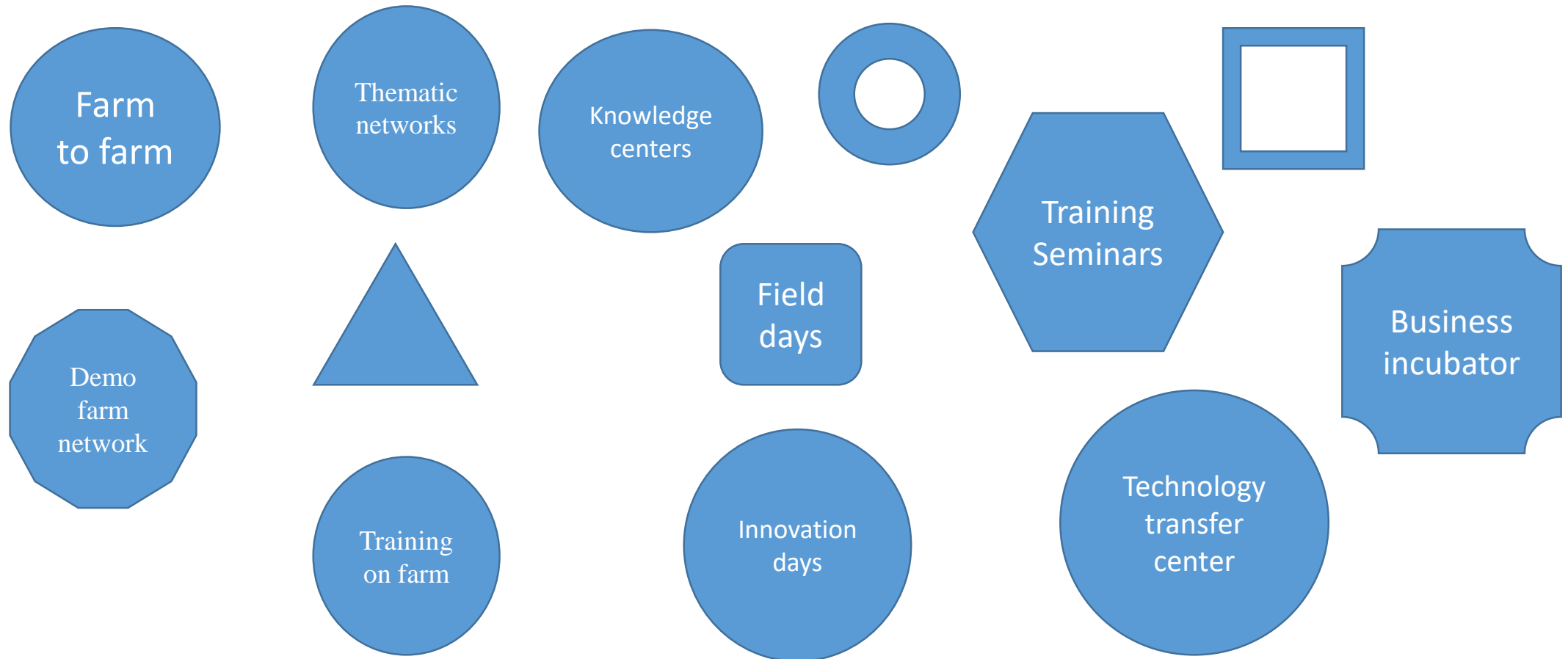
Contact: prof. dr. Vilma Atkočiūnienė

Email: vilma.atkociuniene@vdu.lt

Facebook: EIP veiklos grupė „Innofood Hub“

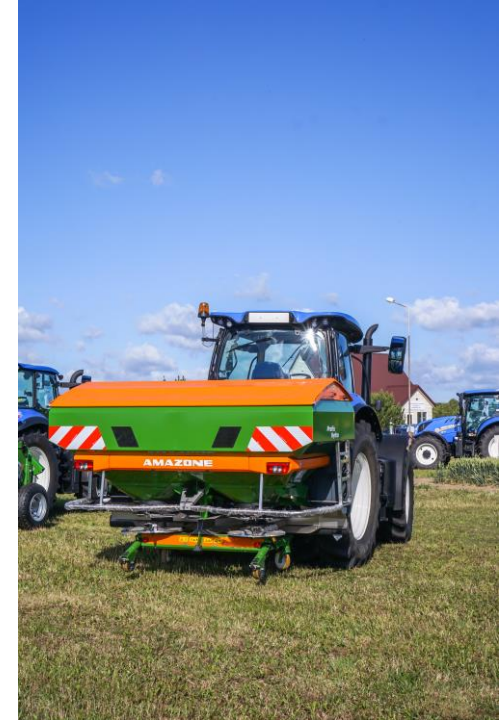
https://www.facebook.com/EIP-veiklos-grupe%C4%97-Innofood-Hub-100277011379491/?modal=admin_todo_tour

POSSIBLE KNOWLEDGE EXCHANGE



WHAT WORKS WELL?

Farmer's summer day on our experimental station



WHAT WORKS WELL?
Largest in the Baltics
INTERNATIONAL AGRICULTURAL FAIR
“KA PASESI” ON OUR CAMPUS



WHAT WORKS WELL?

Innovations and arts



WHAT WORKS WELL TOGETHER?

Seminars and attractions



Which challenges for knowledge exchange activities do you see in your country/region?

1. Coordination between MoA (responsible for CAP) and MoSE (responsible for Horizon 2020)
2. Close collaboration among and between research partners and between research and advisors
3. Administration burden and financial constrains for research organisations
4. Incentives for researchers

Which knowledge exchange activities would you like to see planned in the CAP AKIS plan of your country/region?

1. Innovation support services (innovation hubs)
2. On farm demonstrations (Demo farm network)
3. Education and training (for demonstrations, facilitators, etc.)
4. Education of researchers on interactive innovation approaches
5. Building advisors capacity
6. Post graduate distance learning modules oriented on advisors and on farmers
7. Exchange accross borders

AČIŪ / THANK YOU

RESPONDING

To innovate

Contacts

<https://www.vdu.lt>

zua@vdu.lt



VYTAUTO DIDŽIOJO
UNIVERSITETO
ŽEMĖS ŪKIO
AKADEMIJA

Išsilavinimas 360°

