EIP project "Centre for Knowledge Accumulation, Transfer, Development of Agricultural Technologies and their Demonstration "Gate of Innovations""

Dr. Gintarė Kučinskienė

Head of Innovation Support Service

Lithuanian Agricultural Advisory Service

Stoties 7, Akademija, LT-58343, Kėdainiai D.

gintare.kucinskiene@lzukt.lt

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Akademija
Kaunas D.

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EIP background

LAAS has regularly worked on EIP:

- collection of information on principles and regulations of EIP;

- membership in international organizations: EUFRAS (since 2013), European Rural Network Innovation Sub-group (since 2016), 4 Focus Groups and SCAR AKIS meetings;

- participation in international events: EFITA (European Federation for Information Technology in Agriculture), ESEE (European Seminar on Extension and Education) and representation of its advisory tools;

- information about innovations at national level: events such as Corn Day, Ploughing Competition, International Agricultural Exhibition and regular cooperation with national research institutions.

From project idea to feasibility study

Farms:

- Investments
- More co-ordination in projects and demonstration of activities (trials/trainings)
- Feeling as a community

Advisers:

- Innovation Support Service
- A pavilion for demonstration of innovative agricultural technologies and machinery
- Precision Farming Centre

Others:

- A network of experimental farms
- A system/database of results of innovation research

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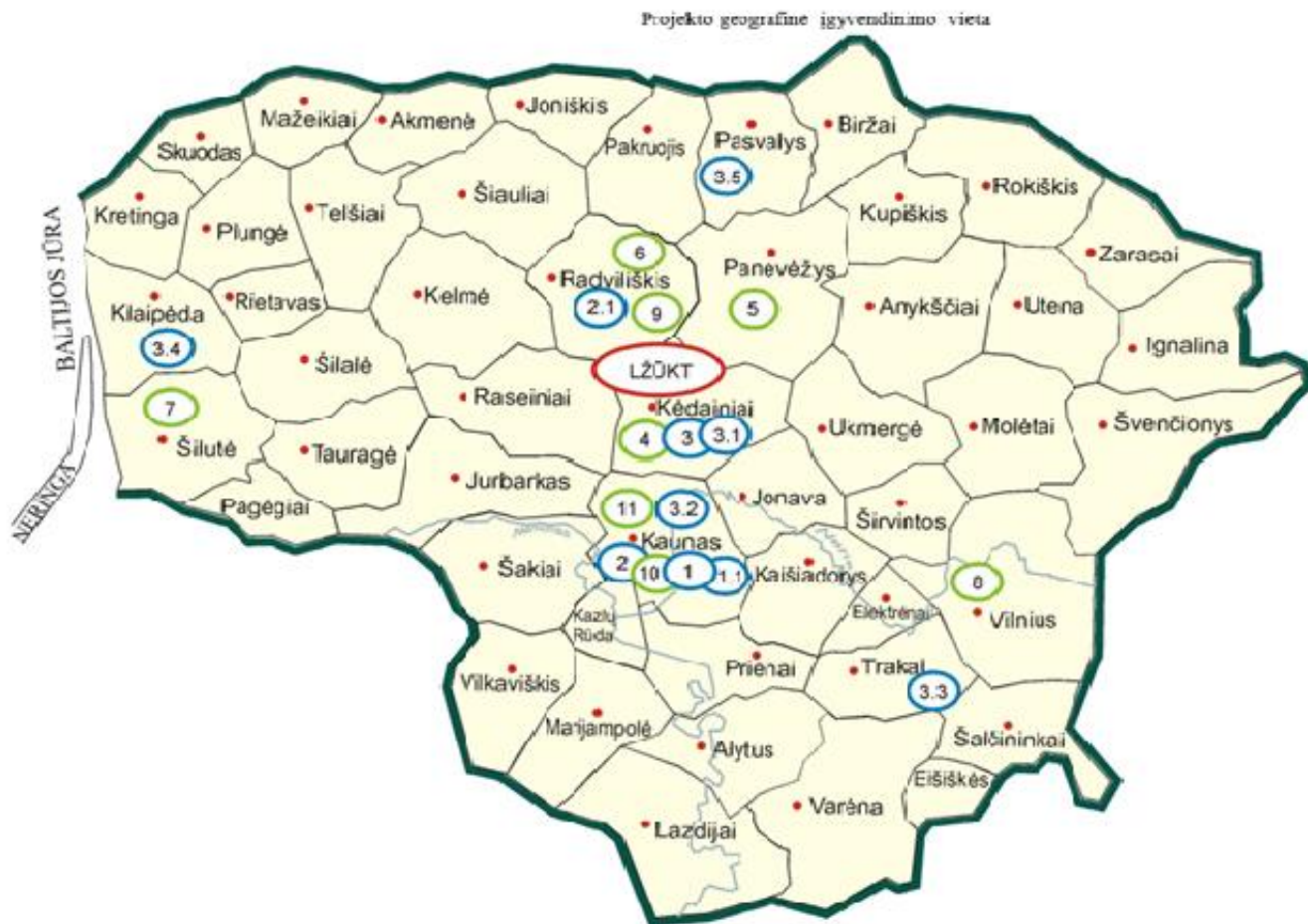
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Some Facts about the Project "Gate of Innovations"

- The first LAAS project under EIP call of RDP 2014-2020.

- Organizational type (the biggest part of investments was in infrastructure) of innovation in a category of Knowledge Transfer.

- The project also has a so called "soft part": a network of experimental farms was created, groups of researchers were consolidated for work in projects, ISS established.

- A feasibility study (700 pages) and project proposal (about 1200 pages) were prepared.

- A numerous project team: the project was implemented by 13 researchers form 3 institutions, 8 experimental farms and 21 specialist from LAAS during a period of 3 years.

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Geographical Location of Project Implementation

Projekto geografinė įgyvendinimo vieta

Pareiškėjas	VšĮ Lietuvos žemės ūkio konsultavimo tarnyba (LŽŪKT) ir jos biurai rajonuose
Partneris 1	ASU
Partneris 1.1	Bandymų stotis
Partneris 2	LSMU
Partneris 2.1	Gyvulininkystės institutas
Partneris 3	LAMMC
Partneris 3.1	Žemdirbystės institutas
Partneris 3.2.	Sodininkystės ir daržininkystės institutas
Partneris 3.3	Vokės filialas
Partneris 3.4	Vėžaičių filialas
Partneris 3.5	Joniškėlio bandymų stotis
Partneris 4	UAB Dotnuvos eksperimentinis ūkis
Partneris 5	UAB Upytės eksperimentinis ūkis
Partneris 6	UAB Šeduvos avininkystė
Partneris 7	UAB Šilutės veislininkystė
Partneris 8	UAB Lietuvos žirgynas
Partneris 9	AB Kiaulių veislininkystė
Partneris 10	VšĮ ASU mokomasis ūkis
Partneris 11	VšĮ LSMU praktinio mokymo ir bandymų centras

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Structure of Centre for Knowledge Accumulation, Transfer, Development of Agricultural Technologies and Their Demonstration "GATE OF INNOVATIONS" in Lithuania
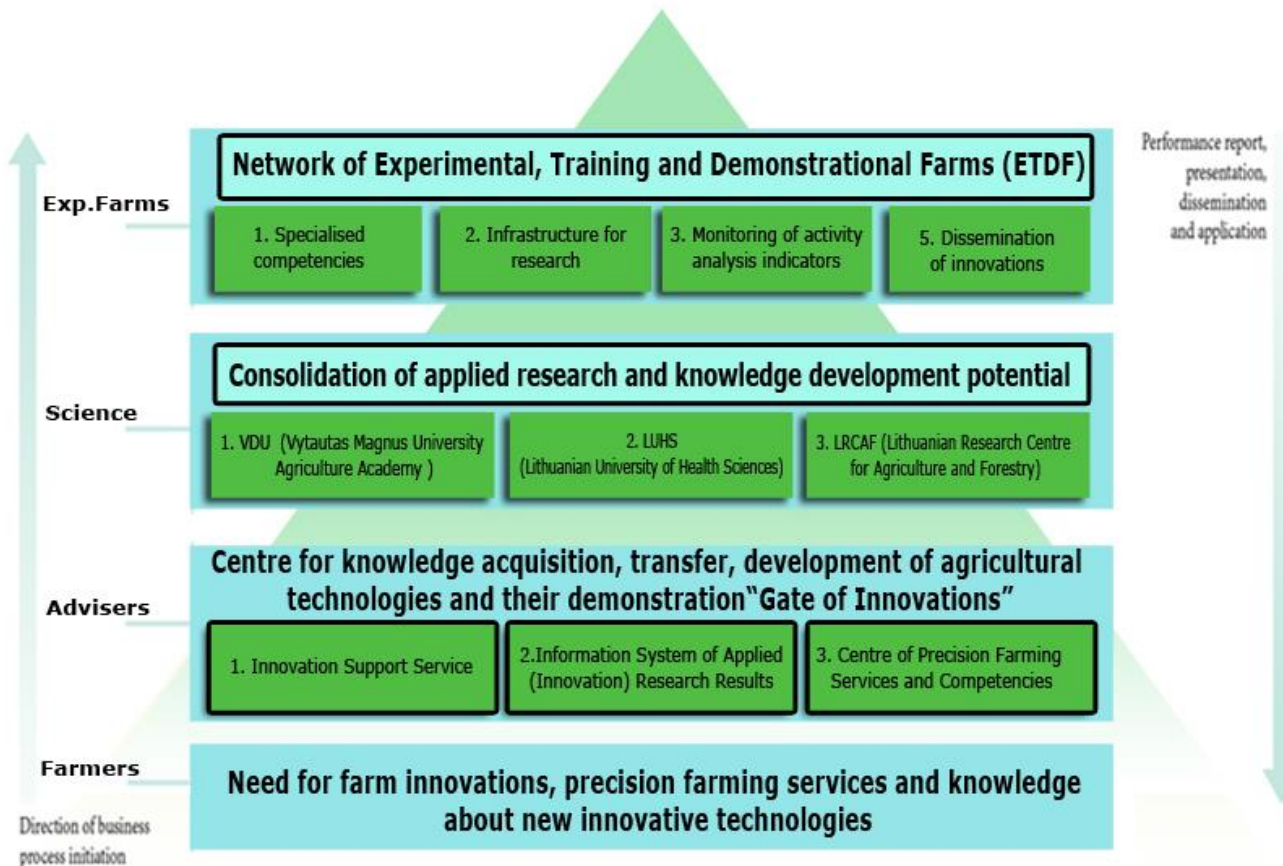
The system will optimize (easier, faster flow of ideas) human resources and time costs in implementing the innovation projects through Innovation Support Service.

Project Infrastructural Outcomes (Results from Final Report)

Activities Implemented	HR Involved	Continuity
1. Innovation Support Service	+1	1 more specialist is going to be employed. Activities related to AKIS will be coordinated by the Innovation Support Service. The Service will contribute to the development of AKIS.
2. System Applied Innovation Research Results (TITRIS)		Data on innovation projects being implemented and their results will be stored in the database. New information will constantly be added to the database. The system will be presented to potential users in Lithuania and other EU countries.
3. Centre of Precision Farming Services and Competencies		
3.1 Laboratory	+7	Services provided by the laboratory: analysis of composition of soil, analysis of slurry and manure, waste water as well as ground water.
3.2 Pavilion	-	Business companies will be invited to expose specialized agricultural machinery for 1–2 week trainings.
3.3 Simulation Display of Precision Farming	3	Farmers, agricultural advisers and other interested parties will be shown a full cycle of precision farming. Farmers will be encouraged to innovative technologies on their farms. A training programme for farmers has been developed.

Technological investments made by experimental farms

Institution	Equipment	Dissemination stage in TITRIS
Dotnuva Experimental Farm	1. A dispenser of liquid and viscous feed for automatic milking.	**Preparation for process of dissemination**
Seduva Experimental Farm	1. A set of smart scales with the function to store data in a computer. 2. An automatic disinfectant stall with a bath. 3. An automatic bonitization machine for sheep. 4. A mobile set for sheep hoof care with function to rotate.	**A mobile technology line for preventive health care of sheep**
Silute Experimental Farm	1. Vertically towed forage crusher/mixer/dispenser with a weighing system	**Feeding of yearlings of beef and purebred cattle using feed cutting-mixing-dosing technology with integrated weighing system**
Upyte Experimental Farm	1. A somatic cell counter. 2. A herd management system. 3. A feed management system.	**The data are being still analyzed**
Aleksandras Stulginskis University (currently Vytautas Magnus University Agriculture Academy)	1. An automatic driving system for a tractor. 2. An automatic system for management of sections of a sprayer.	**Preparation for process of dissemination**

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1. Innovation Support Service

Innovation support services

Formerly known as **Department of Innovation Development**;
Part of **Division of Development** at LAAS;
4 specialists: 1. Head of Innovation Support Service;
            2. Project Management Specialist (x2);
            3. Interpreter.
* Specialists of other departments are asked to take part in project activities only when expert knowledge is needed.
Functions:

E. Wielinga, 2016

- collect and store information;
- organize various activities;
- initiate writing of proposals and take part in implementation of projects;
- administer projects;
- find human resources needed for implementation of projects;
- co-ordinate dissemination of the results of innovation projects implemented;
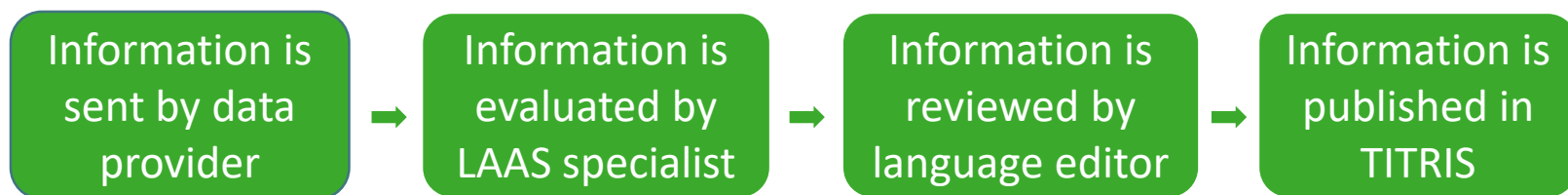- co-ordinate collaboration among institutions.

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2. Information System of Applied Research Results TITRIS - Free, Bilingual (LT/EN) Information System of Open Access

- It **collects**, **publicizes** and **compiles data** on applied innovation research and innovations in the sector of agriculture in Lithuanian and English.

- **Object:** non-commercial scientific **research** and practical **innovations** that have or might have influence on sustainable agricultural production.

- Administrator: **Innovation Support Service.**

https://titris.lzukt.lt

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Process of Data Submission and Publication in TITRIS

| Information is sent by data provider | → | Information is evaluated by LAAS specialist | → | Information is reviewed by language editor | → | Information is published in TITRIS |

- An intensive **search** for information to complete TITRIS **database** is in progress at the moment.
- All published information is available in a **newsletter** subscribed (in Lithuanian or English).

Newsletter subscription

Select news topics

Select

Email address

SUBSCRIBE

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Aspects of Novelty of TITRIS

- Prior to publication, all information is **evaluated** by competent LAAS **specialists** and is presented in **a systematic**, **clear** and **comprehensive** way.

- Only **innovations** that can be applied **in practice** are published.

- **TRL** of all scientific innovations is indicated.

- The **availability** of EU **funding** for research / innovation is accessed.

- Professional and free **online consultation** on a wide range of innovation topics is provided.

A mobile technology line for preventive health care of sheep

Home / Livestock farming / Applications

Area	Subarea
Livestock farming	Sheep husbandry

sheep health   sheep keeping

JSC „Šeduvos avininkystė" specializes in keeping and sale of breeding sheep. In order to provide farmers with healthy breeding lambs and to reduce labor costs in maintaining breeding sheep, the company has purchased a modern technology line that meets animal welfare requirements and is used for preventive health care of sheep. The technological line includes: smart scales with computer data storage, disinfection stall with a tub, automatic sheep boning machine and mobile reversible sheep hoof care tool. The purpose of this investment was to improve the health of the sheep and the condition of their hoof, as well as to assess the characteristics of a particular breed and the suitability of lambs for breeding (bonitization) more accurately. The implementation of this technology line did not cause any difficulties and the staff did not need any training.

http://www.seduvosavys.lt/

Effect: Economical. Animal welfare

About innovation

- Year: 2017

Argumentation: Animal welfare and sheep health have improved (56% reduction in sheep morbidity over 3 years), the time spent on hoof care and handling and sheep shearing has been reduced twice, sheep boning is done with higher quality and 3 times faster, and the safety of the person performing the procedures work safety) is ensured.

Contacts

Šeduvos avininkystė.docx

- Rimantas Kairys
- +37068788775
- seduvos.avys1@gmail.com

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3. Centre of Precision Farming Services and Competencies: Laboratory

Analysis of: composition of soil, slurry, manure, waste water and ground water.

Approximately 15,000 samples of soil are analyzed (identifying amount of humus) a year. Geographic coordinates are labelled to each sample and are used in making fertilization plans.


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3. Centre of Precision Farming Services and Competencies: Pavilion

The building will be used for demonstration of innovative agricultural technologies and machinery (practical training of farmers, exposure of agricultural machinery, technologies, displays, etc.).

3. Centre of Precision Farming Services and Competencies: Centre of Competencies

• Training programme, consultations on precision farming.

• Simulation display of precision farming is used to show clients the full cycle of precision farming and to encourage farmers to use innovative technologies on their farms.
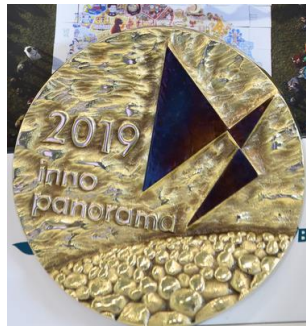
The system of precision farming received an award in an exhibition "Inno panorama 2019" in September 2019.

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