

*Project: Internal quality assurance system for agriculture and biosystem engineering
related HEI of Algeria (QUALS)*

No. 598176-EPP-1-2018-LT-EPPKA2-CBHE-JP

Promotion of research

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Education 360°

MISSION

Agricultural Academy mission are creating and disseminating scientific knowledge, enabling every citizen of Lithuania to have secure and safe ***food*** and safe ***living environment***.

Our steps to this major aim include:

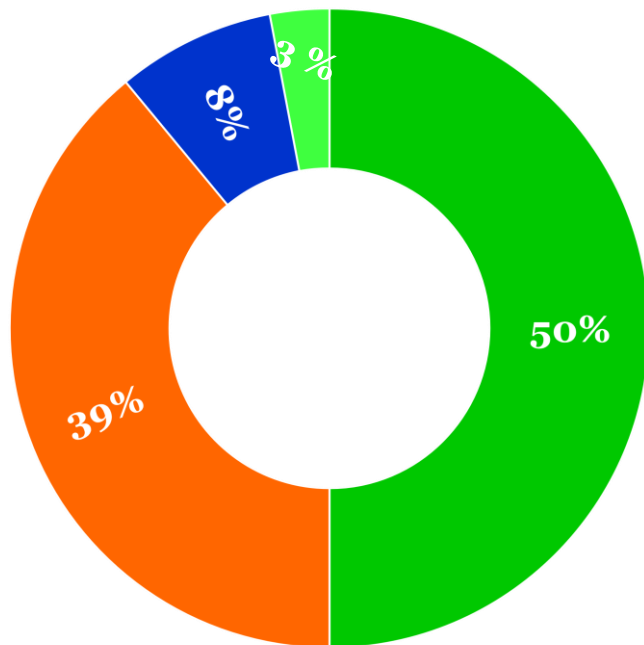
1. Training of leaders and development of their ability to create and share their knowledge, precipitance and desire for continuous improvement.
2. Creation and dissemination of biological, engineering and social technologies, advanced knowledge and experience in sustainable use and development of land, forest and water resources.
3. Fostering of achievements and long-standing traditions of University activity, building our work on the most important professional and universal values.



The strategic scientific action areas of expertise of Agricultural Academy include:

- Development of agrobiotechnologies, assessment of plants genetic potential;
- Climate change and improvement of environment conditions;
- Bioenergy, chemical and biotechnological processes;
- Sustainable agriculture and rural development;
- Food safety and security;
- Sustainable use of land, forest, water and energy resources.

Research Areas

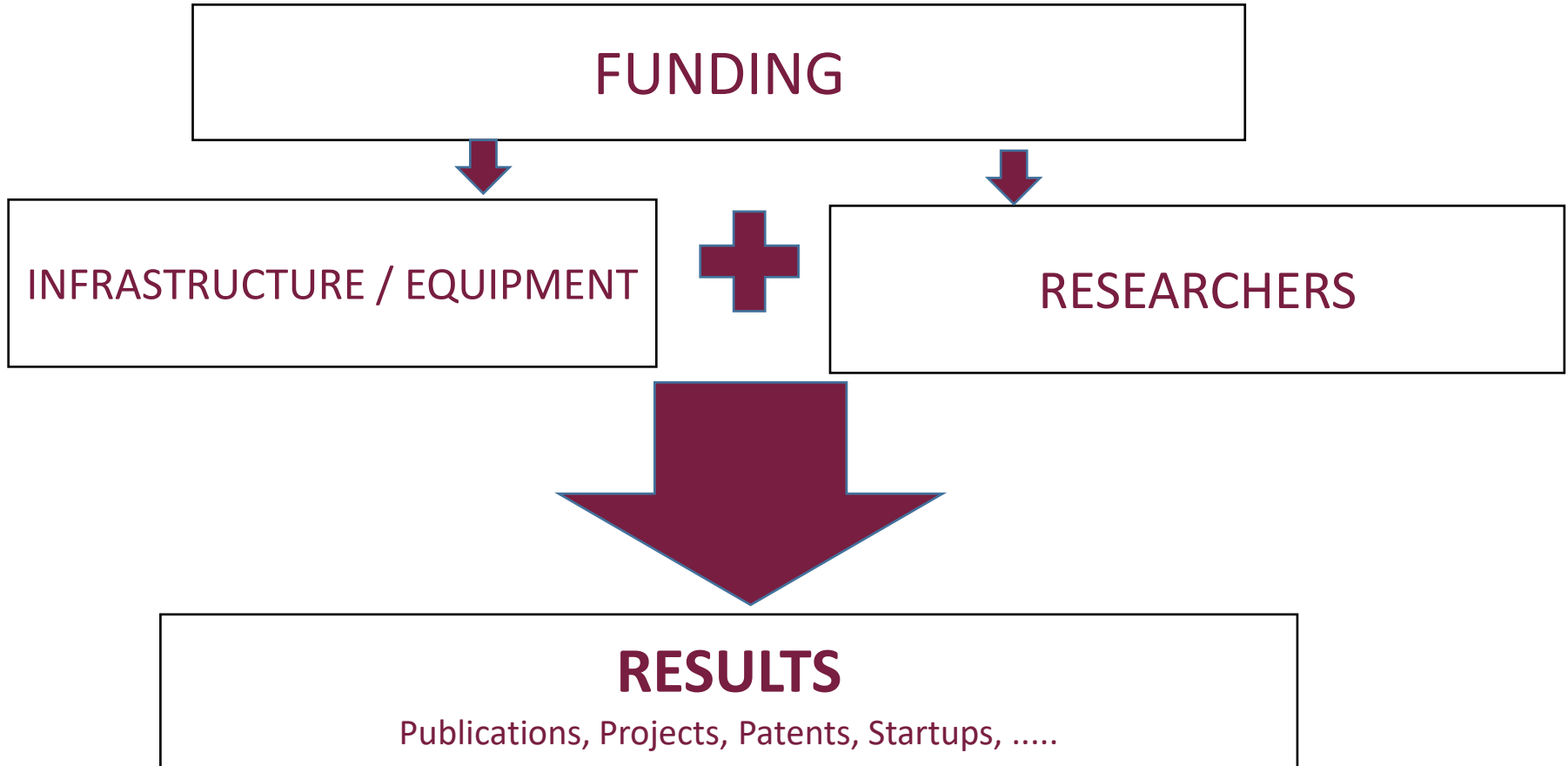


■ Agricultural ■ Technological
■ Natural ■ Social

Research Activities

- Bio-resources and biotechnologies for safe food production
- Environment quality, water resources and climate change
- Bio-resources and renewable energy
- Bio - engineering for production and environment
- Forestry resources for wood and environment
- Bio-economy and sustainable rural development

How to promote the research?



Research Funding

- Government funding
- Project funding
- Privat funding



R&D spending

Country	% of GDP
Israel	4,9
South Korea	4,6
Taiwan	3,5
Sweden	3,4
Japan	3,2
Germany	3,2
Austria	3,2
Finland	3,2
United States	3,1
Denmark	3,1
Lithuania	0,9
Algeria	0,1

Annual Research Results evaluation of Lithuania Council of Research

RESEARCH PRODUCTION POINTS IN TECHNOLOGY AND AGRICULTURAL SCIENCES

RESEARCH PRODUCTION	POINTS
A scientific monograph or part of a scientific monograph published by an international scientific publishing office	10
Scientific article in a journal with an IF / AIF more than 0.25	Counted by formula
Patents, registered in international patent organizations	15
Varieties of plants of animals	15
Coordination of the Horizon 2020 R&D project	26
Horizon 2020 R&D project without coordination	13
Winning a European Research Council (ERC) grant	40

R&D infrastructure of the Valley "Nemunas"

Centre of Agrarian and Forestry Sciences	Research, Study and Development Centre of the Forestry Sector	Plant Genetics and Biotechnology Centre	Science and Study Centre of Agroecology and Plant Biopotential	Animal Nutrition and Biotechnology Centre	Biosystem Engineering, Biomass Energy and Water Engineering Centre	Food Science and Technology Centre	Centre for Animal Health and Quality of Raw Materials of Animal Origin
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Policy for Development of Agro-biotechnologies, bioenergy and Forestry

Policy for Development of Food Technologies, Safety and Health

Cooperation with enterprises in the process of carrying out R&D projects, creating favourable conditions for the establishment of new, knowledge-intensive spin offs and commercialisation of research results

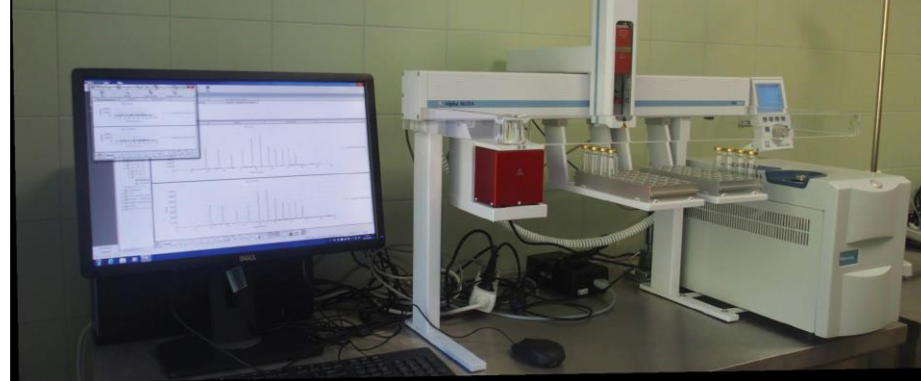
Valley's joint Communication and Technology Transfer Centre, Agroinnovation Economy and Management Centre and Centre of Information Technologies in Agricultural Science, Training and Consulting

JOINT CENTRE OF AGRARIAN AND FORESTRY SCIENCES

**Sustainable use of biological resources
of agriculture and forests**

R&D Laboratories of :

- Lab of Agrobiotechnologies
- Lab of Environment
- Timber use, quality and processing technologies
- The research on climate change impact upon forest ecosystems
- Agrobiology
- Microbiology
- Plant material quality
- Biological signs



Scientific Staff in VMU Agricultural Academy, 2020

- Professors 48
- Associate Professors 91
- Lecturers 69
- Assistants 6



30 % for research
activities from total
working time

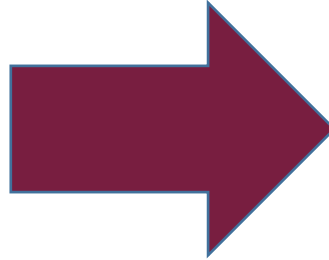
- Chief Researcher 12
- Senior researcher 14
- Researchers 29
- Junior researcher 41
- Phd students 82



SCIENTIFIC STAFF MOTIVATION SYSTEM

Purpose:

The highest
quality of
science



1. Motivating salary system
2. Premiums for the highest quality scientific production

MOTIVATING SALARY SYSTEM

Salary consist of:

1. Salary based on coefficient
2. Bonus for research production and research activity

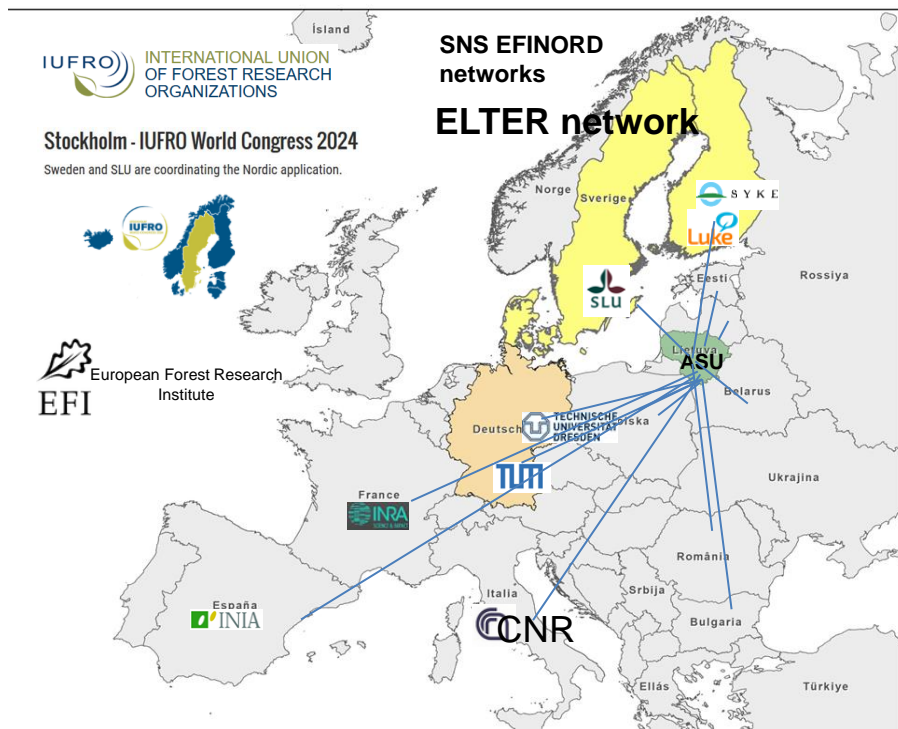
Research production - monographs, publications.

Research activities - projects, conferences, seminars, etc.

Research production and research activities calculation in points

Publications	Points
In <u>Web of Science DB</u> , when the citation rate (impact factor) is higher than 0	27
In Scopus DB when the citation rate (SNIP) is higher than 0	23
In other Web of Science DB, (IF = 0)	22
In other Scopus DB (SNIP = 0)	23
In other international DB	8
In conference proceedings	6

Focus on International Collaboration of Agricultural and Natural Sciences



EU – FP7. **INTEGRAL (SLU)**. 2011-2015



ALTERFOR (SLU)

DIABOLO (Luke)



GENTREE (INRA)



ENVeurope (CNR)

REFORM (INIA)

BenchValue (EFI)

EN ECE Integrated Monitoring Programme (SYKE)

COST actions:

EuMIXFOR

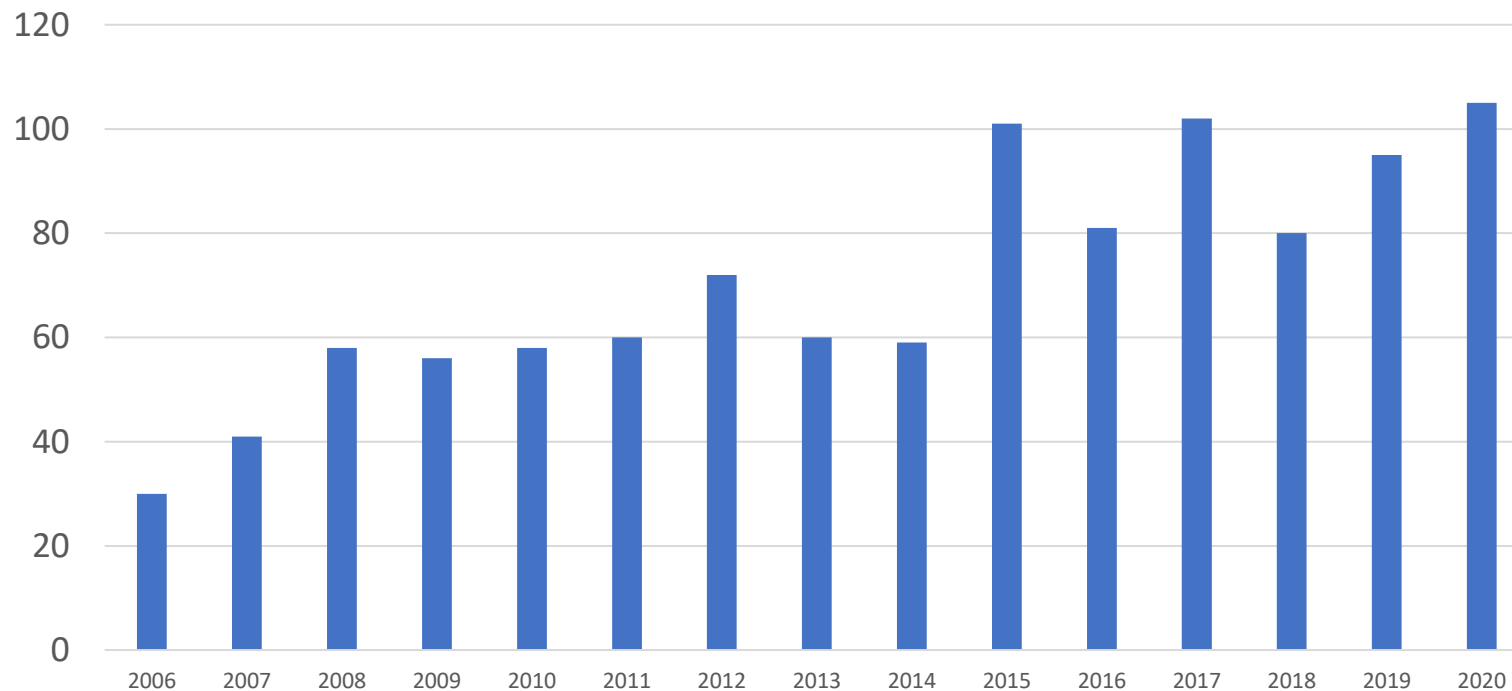
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ORCHESTRA

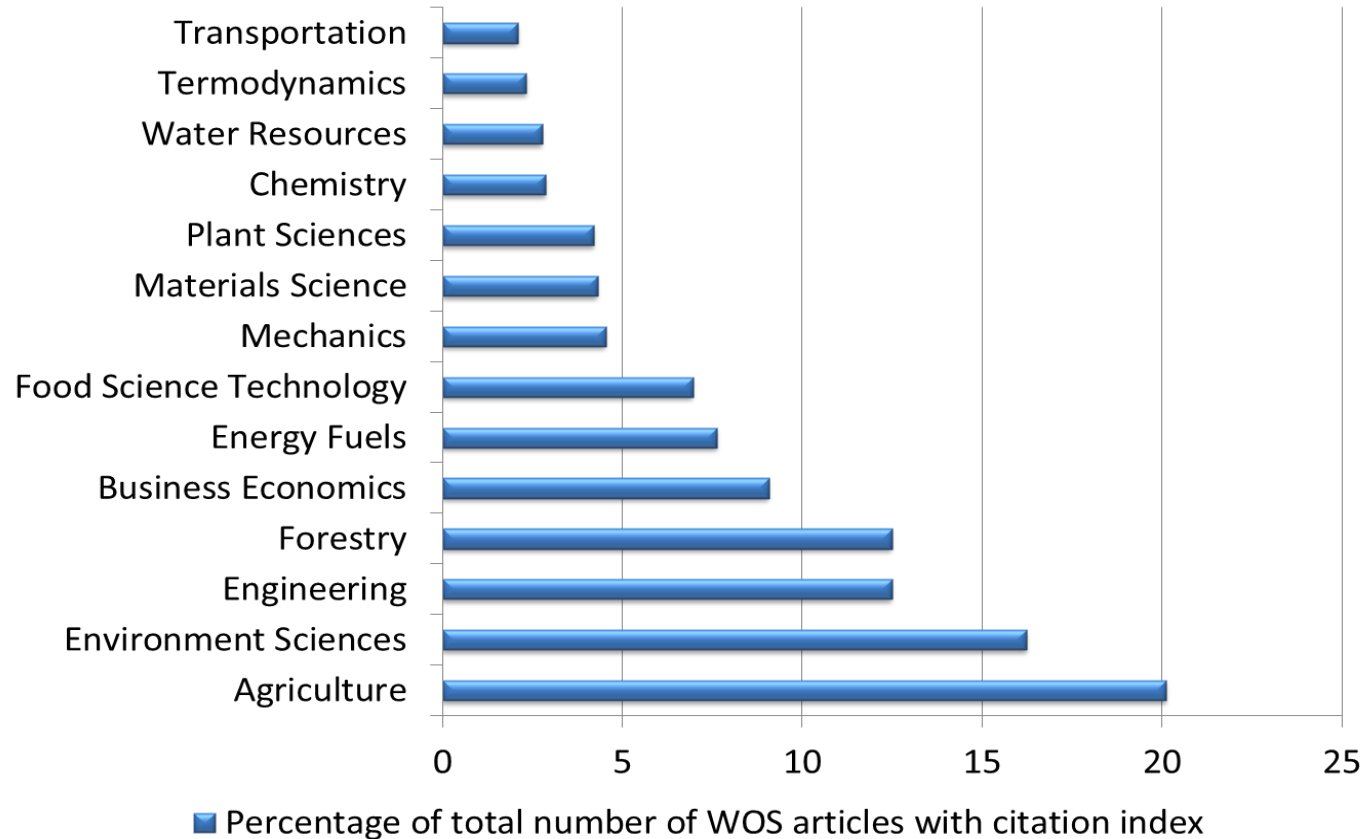
GreenInUrbs

Number of WoS articles with citation index by year

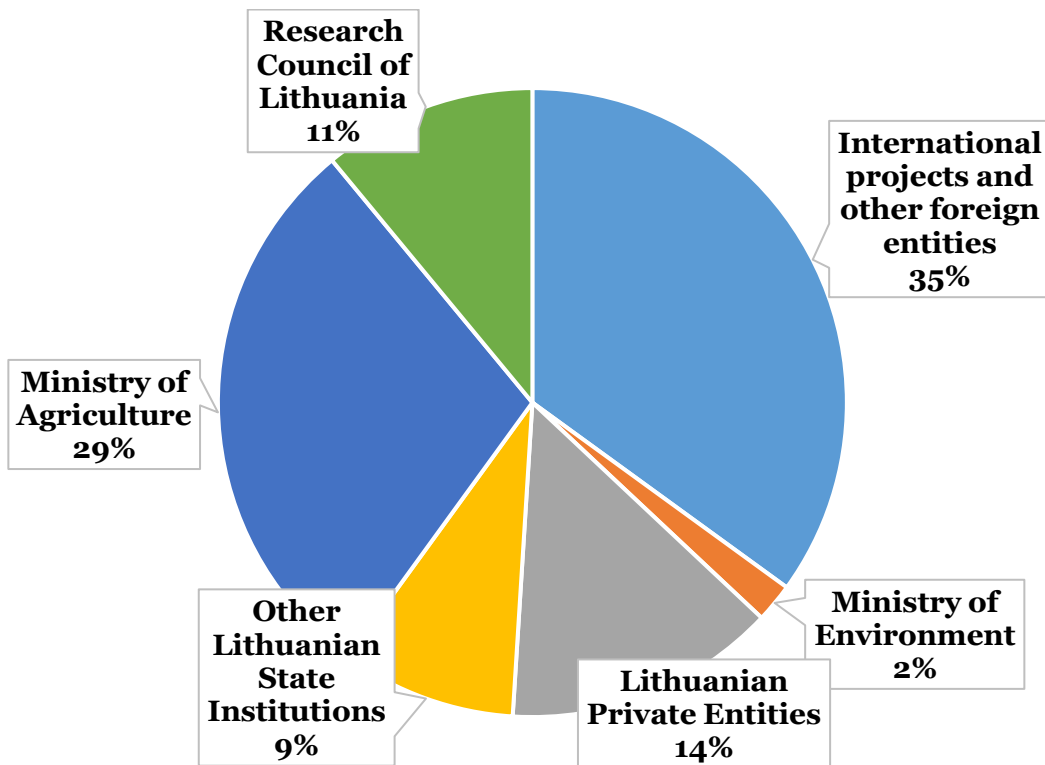
Number of articles



Research areas of WoS articles with citation index



R&D projects in 2020.



The Most Significant International Projects

Horizon2020

- Optimising the management and sustainable use of forest genetic resources in Europe (GENTREE).
- Alternative models and robust decision-making for future forest management (ALTERFOR).
- Hydropower solutions for developing and emerging countries (HYPOSO).
- Advancing sustainable circular bioeconomy in Central and Eastern European countries (BIOEASTsUP).
- *LIFE*
- Optimizing the management of Natura 2000 network in Lithuania;
- Boosting the sustainability of the urban water cycle: energy harvest in water industry using micro-hydropower technology.

INTERREG Baltic Sea Region

- Unlocking the potential of bio-based value chains in the Baltic sea region (BalticBiomass4Value).

All Projects, 2020

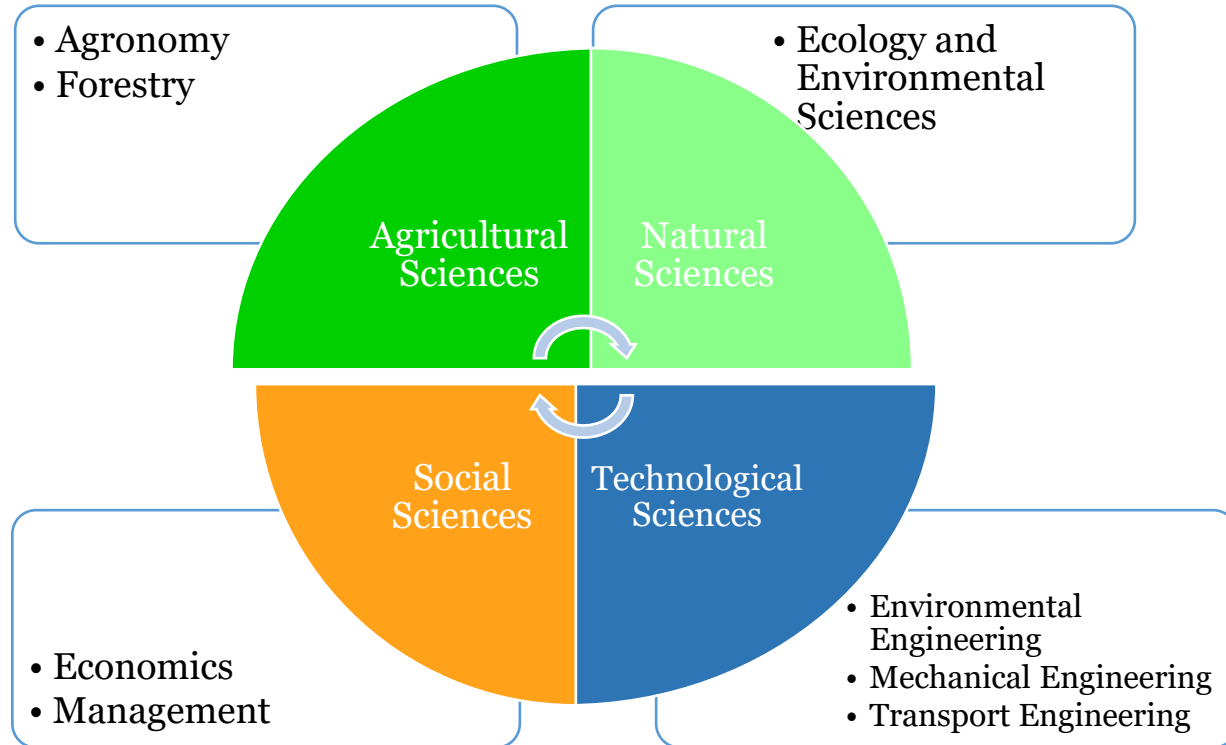
Horizon 2020	LIFE	IINTERREG	Other international	National	With business	Total
4	2	2	8	61	29	106

Total amount **8350,2 thousand Eur**

PhD studies



Scientific Areas and Fields of Doctoral Studies



The Main Points for Promotion of Research:

- Select the research area;
- Find foundation;
- Install modern laboratory equipment;
- Set motivation system for researchers;
- Turn from quantity to quality of scientific results;
- Focus on collaboration;
- Strengthen PhD studies.

Thank you