



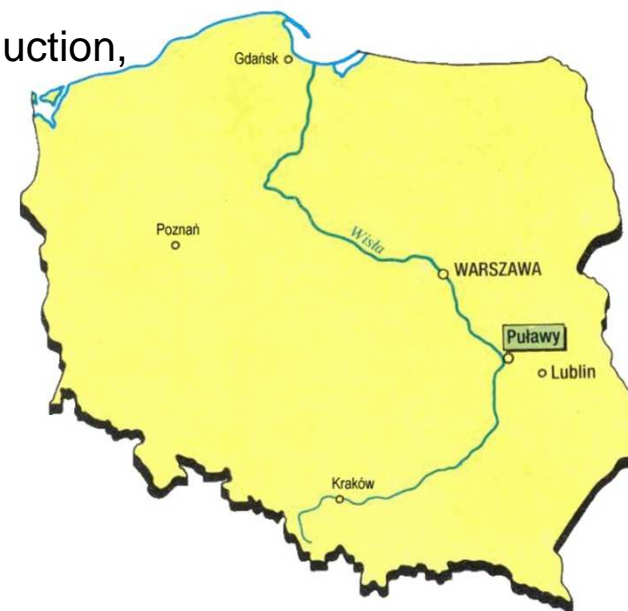
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# New Strategies on Bio-Economy in Poland

The Institute of Soil Science and Plant Cultivation is the largest research-development centre in Poland, conducting agricultural studies under the supervision of the Ministry of Agriculture and Rural Development.

The broad range of activities comprises:

- soil science,
- crop production,
- economic and organisation effectiveness of field production,
- environmental modelling,
- climate change,
- spatial analysis,
- renewable Energy,
- microbiology and biochemistry,
- hop and tobacco breeding.



# RIS Lubelskie identifies and develops smart specialisation of the region

## BIOECONOMY

key  
specialization

Examples of technologies  
supporting the areas  
of innovation development:

The main value chains:

Key sectors of the economy:

*Agricultural and industrial biotechnology, nanotechnology, biophysics*

**Sustainable primary production ▶ Bio-resources processing ▶ Food production**

*Pharmaceutical ▶ Energy ▶ Eco-business ▶ Agro-food processing ▶ Chemical ▶ Paper ▶ Wood and furniture*

*Information services ▶ Research and development related to particular specialization*

## MEDICINE AND HEALTH

complementary  
specialization

Examples of technologies  
supporting the areas  
of innovation development:

The main value chains:

Key sectors of the economy:

*Biotechnology and medical nanotechnology, personalized pharmacotherapy, advanced materials*

**Diagnostics ▶ Therapy ▶ Rehabilitation ▶ Preventive care**

*Nutrition and dietetics ▶ Medical and health-oriented services ▶ Research and development  
related to particular specialisation*

## LOW CARBON EMISSION ENERGY

emerging  
specialization

Examples of technologies  
supporting the areas  
of innovation development:

The main value chains:

Key sectors of the economy:

*Bio-energy, photonics, clean fossil technologies, prosumer energy, smart energy systems, renewable energy sources*

**Acquisition of energy resources ▶ Energy production and storage ▶ Energy distribution and sale**

*Mining ▶ Mining support services ▶ Production and supply of energy ▶ Research and development  
related to particular specialisation*

## IT AND AUTOMATION

supporting  
specialization

Examples of technologies  
supporting the areas  
of innovation development:

The main value chains:

Key sectors of the economy:

*Mechatronics, smart buildings, control systems, industrial automation, mobile applications*

**Manufacturing ▶ Advanced products and production systems ▶ Systems engineering**

*Software and IT consultancy ▶ Research and development related to particular specialization ▶ Information services  
Manufacture of electrical equipment, machines, devices, computers, electronic and optical products*

**CUSTOMERS**



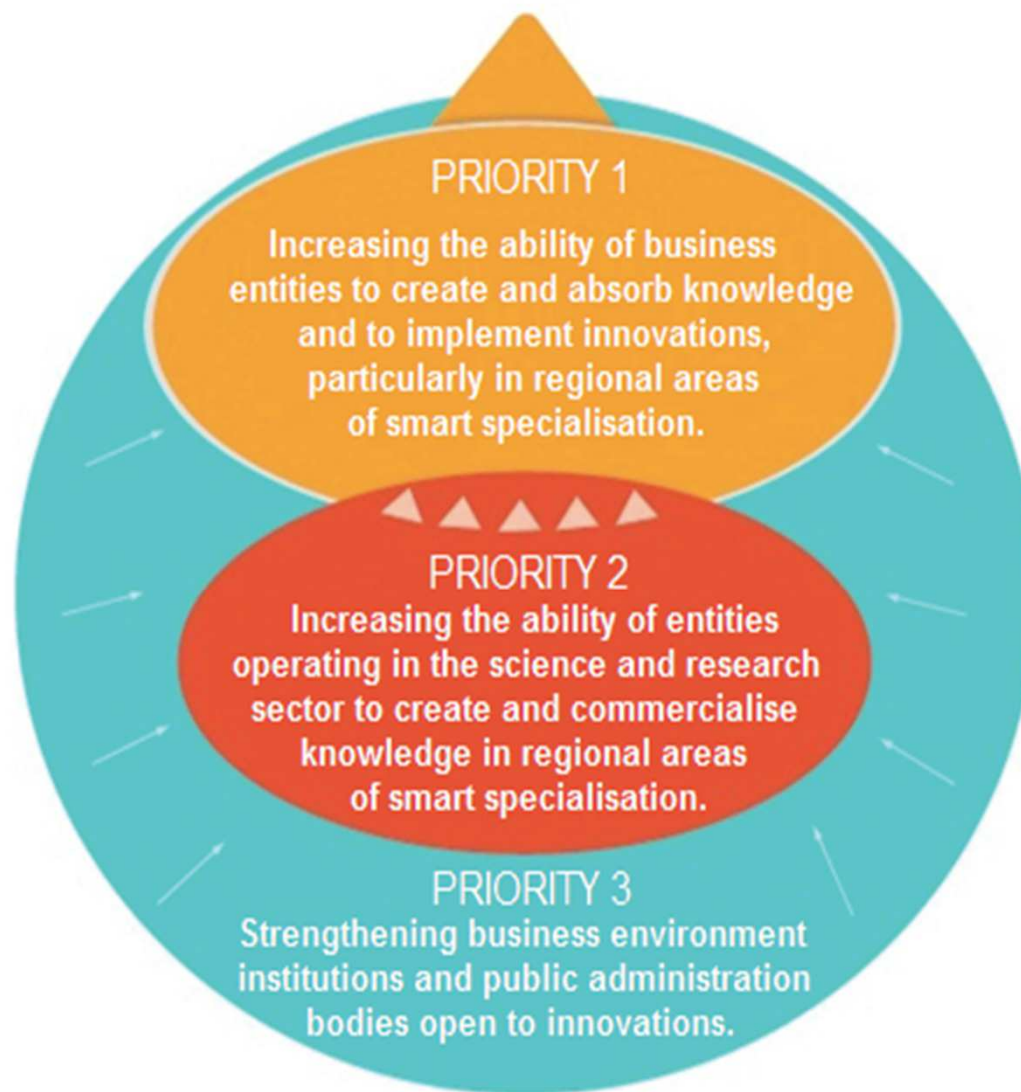
BioEcon

*This project has received funding from the European Union's HORIZON 2020 research and innovative programme  
under Grant Agreement No. 669062*

*Call: H2020 WIDESPREAD-2014-2015, topic: WIDESPREAD-2014-2 ERA Chairs*



REGIONAL INNOVATION SYSTEM



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## *The RIS LV 2020 objectives are:*

- developing territorial capital, especially in the areas of smart specialisation,
- strengthening the regional research and innovation system to joins together all stakeholders interested in the cooperation,
- incorporating the region into the national as well as international chain of innovation and cooperation network,
- developing effective instruments to support innovation and competitiveness of the voivodeship economy,
- stimulating dynamic advantages of the location,



## ***What are the main sources of financing of RIS implementation?***

- ***Regional Operational Programme for Lubelskie Voivodeship 2014-2020***
- ***Operational Programme Eastern Poland 2014-2020***
- ***Operational Programme Smart Growth 2014-2020***
- ***Operational Programme Knowledge, Education, Development 2014-2020***
- ***Rural Development Programme 2014-2020***
- ***European Territorial Cooperation Programmes 2014-2020***
- ***EU Framework Programme for Research and Innovation Horizon 2020***



# Strengthen IUNG's proficiency on „Managing the Production of Food and Feedstuff, their Safety and Quality under Global Climate Change”

FP7-REGPOT-2009-1-245751

## WP1 Upgrade of equipment and setting up of a modern laboratory



# Innovation and Scientific Center for Agricultural Research - INCBR

*Operational Programme Eastern Poland 2007-2013*

European Regional Development Fund





## **HORIZON 2020 projects in IUNG**

**BioEcon** New Strategies on Bio-Economy in Poland” (2015-2020),  
H2020-EU.4.c. - Establishing ,ERA Chairs’

Topic(s): WIDESPREAD-2-2014 - ERA Chairs, CSA - Coordination and support action

**BioReg** Absorbing the Potential of Wood Waste in EU Regions and Industrial Bio-based Ecosystems (2017-2020).

H2020-EU.3.2.4.3. - Supporting market development for bio-based products and processes. Topic(s): BB-06-2016 - The regional dimension of bio-based industries. CSA - Coordination and support action

## **HORIZON 2020 projects in IUNG**

### **AFINET** Agroforestry Innovation Networks (2017-2020)

Topic(s): RUR-10-2016-2017 - Thematic Networks compiling knowledge ready for practice CSA- Coordination and support action.

### **DiverIMPACTS** Diversification through Rotation, Intercropping, Multiple cropping, Promoted with Actors and value- Chains Towards Sustainability (2017-2021)

Topic: RUR-06-2016 Rural Renaissance - Fostering innovation and business opportunities

Type of action: RIA (Research and Innovation action)

### **LIVESEED** Improved performance of organic agriculture by boosting organic seed and plant breeding efforts across Europe (2017-2021)

Topic: SFS-07-2016-2017 Sustainable Food Security – Resilient and resource-efficient value chains Type of action: RIA (Research and Innovation action)

## **HORISON 2020 projects submitted**

**Type of action: CSA** (Coordination and support action) **Topic:**  
**BB-08-2017 Call: H2020-BB-2016-2017** (Bio-based innovation  
for sustainable goods and services - Supporting the  
development of a European Bioeconomy)  
„Enhancement of citizens' understanding of the bioeconomy  
through dialogue and communication”

## What we need do to reach Lubelskie RIS objectives:

- to invest in research that will lead to improved food quality and processing;
- to carry out more food processing in the region, rather than exporting food for processing elsewhere, and thereby increasing value added in the region;
- to develop new and promote Lubelskie-branded food products;
- to use green energy for food processing;
- to apply sustainable farming practices.

# Thank you

**Please visit our website:**

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**email: [bioecon@iung.pulawy.pl](mailto:bioecon@iung.pulawy.pl)**