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European Union
European Regional
Development Fund

Silesia region

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ABOUT SILESIA

Territory : 12,333 km² (over 3,8% of Poland)

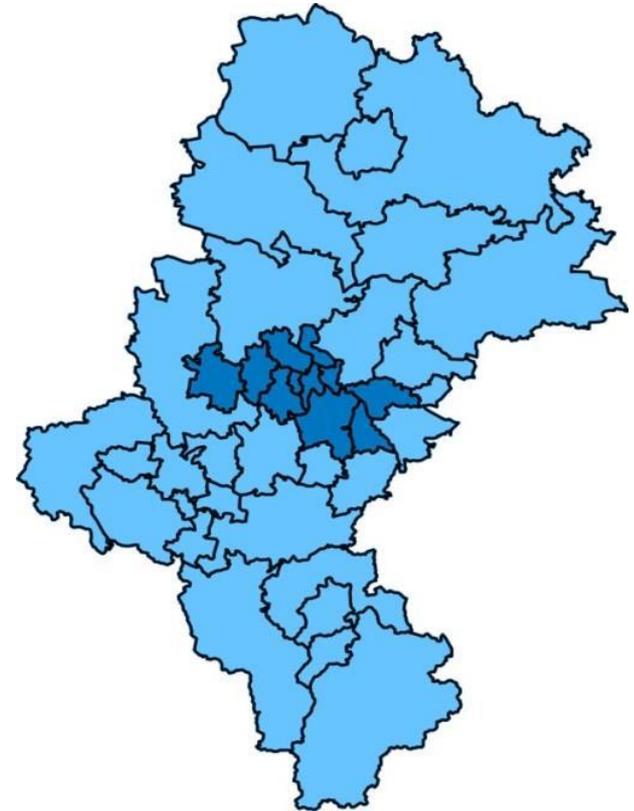
Population : 4,599,447 (almost 12% of Poland)

Density : 373 people/km²

Capital : Katowice

**Silesia is one of the smallest
but most populated region of Poland**

- **77,3% of region's population live in cities and towns**
- **big population and consumer market = 4.6M inhabitants**
- **Convenient and easy access via air, roads and rail**
- **every 3rd town in Poland is in the Silesia**



LOCATION

Location is a big advantage of the region.

The small distance to the Czech Republic, Germany, Hungary and the Slovak Republic as well as the fact that within 600 km one can find 6 European capitals i.e. Warsaw, Prague, Bratislava, Vienna, Budapest and Berlin makes this region very attractive for investors and tourists.



SILESIA AGGLOMERATION

This is the biggest urbanized area in the Central Europe.

Consists of more than a dozen cities and several towns. The agglomeration area constitutes 18% of the whole region with the population density of 1900 people per sq.km.

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ECONOMY

The Silesian Region is the most industrialized region in Poland. Almost 12,4% of the Polish gross domestic product (GDP) is being generated here what ranks the region on the second position within the country. Silesian's GDP is higher than the national average. The share of services in regional economy amounts to 57,2% and of industry comes to 34,2% what ranks the region in the first place in the country. The Silesian Region is famous for its well developed automotive, energy, metallurgical and mining industries as well as food, electromechanical and IT industries. Almost 462,000 national economy entities are registered in the Silesian Region.



KATOWICE SPECIAL ECONOMIC ZONE

Special Economic Zone (SEZ) is a perfect combination that satisfies the needs of investors with the needs of a particular region within the borders of which it has been established. Each zone is a special area within the borders of Poland assigned for business activity on preferential conditions. An investor within the area of the SEZ is guaranteed tax exemptions and another advantage is the fact that one may start his activities on specially prepared improved land. For 20 years of its activity over 250 companies have invested almost € 5,6 billion and have created over 55 000 jobs.



EDUCATION

The Silesian Region is home to 40 higher schools, including universities technical schools, economic, medical, pedagogical and artistic



EDUCATION

the best universities in the region

University of Silesia - one of the largest and most dynamically developing Polish universities – was established in 1968, it is made up of 12 faculties, the University of Silesia offers over 70 fields of study. The University of Silesia has a dominant contribution to the ongoing transformation of the coal and steel region into the knowledge region. Scientific research and development work are carried out thanks to funds obtained for financing the statutory activities of entities and in competitions for the implementation and financing of projects.

Silesian University of Technology is the oldest technical university in the region and one of the largest in the country. Established in 1945 as a scientific and didactic base for the most industrialized district in Poland. Faculties of Environmental Engineering and Energy, and logistics at the Faculty of Organization and Management of the Silesian University of Technology in 2017 were considered the best in Poland.

University of Economics in Katowice is one of the five state-owned economical schools in the country and the largest university in the region educating over 11,000 students in five areas: Business, Finance and Administration, Economics, Management, Finance and Insurance, and Information Technology and Communication in the socio-economic sciences.

HUMAN RESOURCES

The indicator of the high level of urbanization of the region is the fact that 77,4 % of the residents live in 71 cities what in turn means that every third big city in Poland is situated in the Silesia.

over 63 % of the population is within the economically productive age group;

77,6 % of the population aged 25 to 54 years;

over 19 % of the population is within the economically post-productive age



Innovative background and institutional capacity of Silesian Voivodeship

CENTRES OF ENTREPRENEURSHIP AND BUSINESS SUPPORT INSTITUTIONS

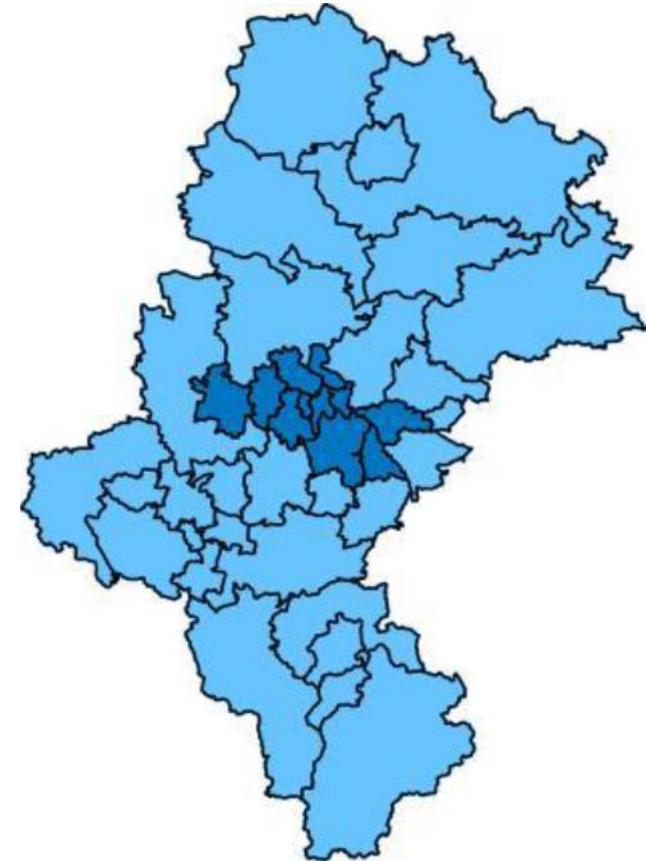
- Academic Business Incubators – 11
- Agencies, Training And Consulting Centres – 30
- Technology Transfer Centres – 11
- Centres For Advanced Technologies – 3
- Credit Guarantee Funds – 5
- Business Incubators – 13
- Technology Incubators – 3
- CHAMBERS And ASSOCIATIONS – 28
- Clusters And Cluster Initiatives – 40
- Industrial Parks – 19
- Regional and Local Loan Funds – 7

SCIENCE SECTOR

- Research Institutes - 23
- Centres Of Entrepreneurship And Business Support Institutions – 27
- Certification Bodies – 21
- Inspection Bodies – 2
- Research Laboratories – 136
- Calibration Laboratories – 20
- Technology Platforms – 4
- Public Higher Education Institutions – 11

WHY SILESIA ?

- **Silesia: big population and consumer market**
= 4,6 M inhabitants
- **Katowice: center of the largest Polish Metropolis**
= 2 M inhabitants
- **Convenient and easy access via air, roads and rail**
- **Healthy economy & growing market**
- **Presence of foreign investors**
- **Well developed business environment**
- **Concentration of R&D institutions and HEI's**
- **Support from helpful local and regional authorities**
- **Professionally skilled human resources and unique work ethics**



PROGRAMING AND IMPLENTING INNOVATION POLICY IN SILESIA REGION UP TO 2020



- Regional Innovation Strategy 2013-2020,
- Technology Development Program (TDP)
- RIS3 Action Plan
- TDP Action Plan
- Regional Technology Observatory Network development

Priorities and areas of Regional Innovation Strategy of Silesia Region for the years 2013-2020

Vision: regional innovation ecosystem of Silesia Region

Priority 1.

Enlargement and internal integration of the innovative potential of the region

Priority 2.

Creating intelligent markets for technologies of the future

Strategic areas of public intervention:

- ❖ Knowledge and innovation communities
- ❖ Network of public services
- ❖ The infrastructure of the regional innovation ecosystem
- ❖ Enabling SMEs as a source of innovation into global chains
- ❖ Creation of talent and strengthening of competence

Horizontal issues of RIS

- ❖ Low carbon economy
- ❖ Digitalisation of innovation networks and digital single market
- ❖ Intelligent Distribution Network
- ❖ prosumer group for the development of smart markets
- ❖ Innovative public services

Smart specializations:

- advanced medical services
- energetic
- ICT – horizontal support for medicine and energetic
- Green economy,
- Emerging industries



The pro-technological development of region as part of smart specialization - case study

The purpose of the Technology Development Program (TDP) 2010-2020:
the region potential identification concerning the future programming period

„Development of Technology Development Program for the period 2010-2020 due to the
need to develop a strategic plan for technological development of the region”

Technology Development Programme is to serve:

- Identification of needs and potential of inter alia entrepreneurs and R & D units,
- The designation of the new directions of education (support of critical occupations),
- Adapting the education system to labor market needs and Technology Society,
- Defining criteria for the selection of innovative projects in the next programming period
- improve the quality of Structural Funds programming.

Technology Development Program (2019-2030)

Update of Technology Development Program constitutes an operational document which supplements the RIS. It provides current knowledge on the directions of technological development of the region and the potential for building competitive advantage on the basis of the existing economic and scientific-research potential.

The main objective of the Program was formulated as follows: Identification of the region's potential in terms of strengthening its technological advantage and its operational target.

The document defines the shape of technological areas - regional specializations:

- Technologies for medicine,
- Technologies for energy,
- Technologies for environmental protection,
- Information and telecommunications technologies,
- Production and processing of materials,
- Logistics and transport,
- Machine and automotive industry,
- Aerospace technologies and the space industry,
- Nanomaterials and nanotechnologies,
- Technologies for the raw materials industry



More Information:

https://ris.slaskie.pl/dokument/program_ro_zwoju_tehnologii_województwa_slaskieg_o_na_lata_2019_2030

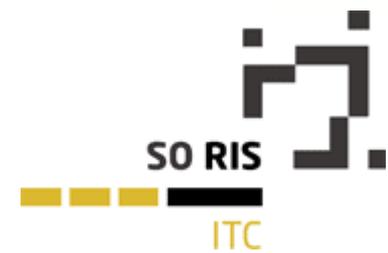
Network of Regional Specialized Observatories

One of the tools for implementing the RIS Strategy and the Program is **Network of Regional Specialized Observatories**. The Network includes leading scientific institutions and business support institutions in our region. Each of 7 Observatories correspond to regional specializations - areas designated in the Technology Development Program: technologies for medicine, technologies for energy, technologies for environment protection, information and telecommunications technologies, production and processing of materials, logistics and transport, machine and automotive industry, nanomaterials and nanotechnologies, aviation technologies and space industry, technologies for the raw material industry.

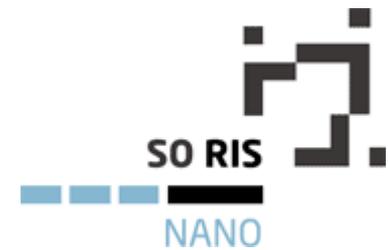
Observatories provide current knowledge about the voivodship's potential in selected technological specializations in line with the specializations and market trends in the areas of smart specialization. We think that Observatories will be also significant source of data on enterprises in our region.

currently there are 5 observatories operating, the planned shape - 8 observatories

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**Network of Regional Specialized
Observatories -
cooperation model supporting
technological development of the region
currently operating - 7
observatories,**



**planned shape - 8
observatories**

Main aims

The Network is involved in identifying, monitoring and evaluating technological areas in order to diagnose potential of industry in each of the areas: medicine, ICT, energy, environment, nanotechnology, materials production and processing and aviation area.

The Observatories are able to observe trends and draw solid conclusions and recommendations for the future.

Thanks to involvement of Regional Partners the Silesian Government has got the recent data's to prepare the programs which have got the biggest influence on market mechanism and create interventions via regional policy tools.

The activities carried out by Marshal's Office of the Silesian Voivodeship related to implemented projects help **SMEs to benefit more from the opportunities offered by the Single Market , promote the upgrading of skills in SMEs and all forms of innovation , enable SMEs to turn environmental challenges into opportunities and encourage and support SMEs to benefit from the growth of markets.**

Regional Innovation Ecosystem

2003 –1st in Poland Regional Innovation Strategy

2008 –1st regional project implementing strategic objective: Regional Innovation Ecosystem

2013- 1st Network of Regional Specialised Observatories (SO RIS)

- cooperation networks among local authorities business support organizations, the R&D sector and business based on technological specializations diagnosed in TDP

2017- implementing Entrepreneurial Discovery Process (EDP) and design in Silesia:

1) Entrepreneurial Discovery Process within Network of Regional Specialised Observatories

- four projects managed by Marshal's Office in partnership with 13 regional institutions responsible for technological specializations diagnosed in TDP:

medicine, ICT, energy, environment, nano technologies, machinery and materials

- aim is to monitor, measure and analyze areas of specialisation, identify growth sectors of the economy, which may update regional intelligent specialisations

2) (INTERREG Europe) Design for Innovation, 4.0 Ready, Innoheis

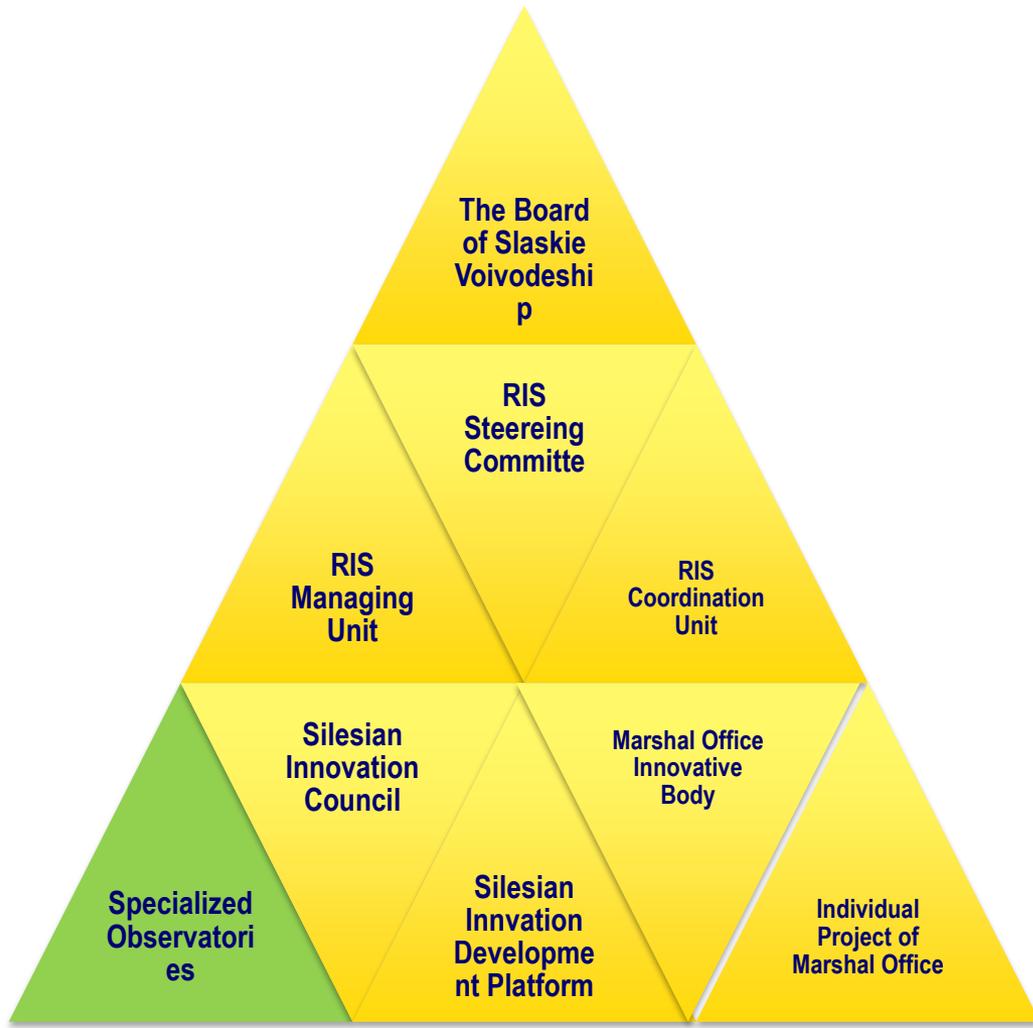
international projects which aim is to integrate partnerships to build innovation capacity of regional policy

2018 - Update of Technology Development Program of the Silesian Voivodeship

2018 – Expanded smart specializations - the green economy and emerging industries were added from the existing ones: medicine, energy and ICT.



MANAGING AND IMPLEMENTING STRUCTURE OF RIS



INNOVATION DEVELOPMENT OBSERVATORY INNOBSERVATOR SILESIA



REGIONAL MONITORING OF INNOVATION TOOLS OF CREATING KNOWLEDGE – MONITORING COMPLEXITY



- ◆ **Activity: Preparation of regional data by Statistical Office in Katowice for Marshal Office of SV since 2000 year.**

Result : Data base of statistics in science, technology and innovation fields (S+T+I).

Result: Regional Innovation Charts of Slaskie Voivodeship

- ◆ **Activity: Survey of enterprises and regional insitutions needs**

Result: Data base of projects implemented in region.

Result: Evaluation on RIS implementation.

- ◆ **Activity: Monitoring of current proinnnovative activities in the region.**

Result: Regional platform www.ris.slaskie.pl

Activity: Specific analysis of Silesian Innovation Council

Result: Strategic diagnosis of regional innovation.

Policy instruments for the RIS3 implementation (ROP)

REGIONAL OPERATIONAL PROGRAM FOR THE SILESIAN VOIVODESHIP 2014-2020

The support is directed to the areas defined as smart specializations in Regional Innovation Strategy of the Silesian Voivodeship for the years 2013-2020, including new Specializations and resulting from the entrepreneurial discovery process.

Modern economy RPO (Thematic objectives I)

specific objective:

- 1.1. Increased marketization of research and development activities.
- 1.2. Increased research and development activity of enterprises.
- 1.3. Improved pro-innovation environment of enterprises.

Modern economy (ROP) (Thematic objectives I)

Key research infrastructure for the region (under action 1.1 ROP)

- **Construction, equipment in scientific research equipment of key research infrastructure, serving the implementation of scientific research in line with regional smart specializations.**

Research, development and innovation in enterprises (under action 1.2 ROP):

- **Creating or developing existing research and development facilities in enterprises serving their innovative activities**
- **Support for R & D works in enterprises**



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THANK YOU FOR YOUR ATTENTION

Marshall Office
of the Silesian Voivodeship

Questions welcome



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