

Załącznik nr I
do Uchwały nr 1953/281/V/2018
Zarządu Województwa Śląskiego
z dnia 28.08.2018 r.

Questionnaire for European Regions

Part A – Intended cooperation

Please, select the region you want to cooperate with

The Silesia Voivodeship would like to establish cooperation with **Minas Gerais**, a region in the Southeast of Brazil.

Which are the areas of specialization or regional innovation challenges being dealt with the Latin America region that are of your interest and how these are complementary or common to your own regional innovation strategy and activities?

The Marshal's Office of the Silesian Voivodeship carry out many activities to strengthen the competitive advantage and potential of the region, thus supporting technological and non-technological innovation, reinforcing existing R&D initiatives, and stimulating private investment based on State-wide initiatives. Silesian Voivodship develop knowledge and competences in the field of creating cooperation between entrepreneurs and the science sector. While implementing the project 'Network of Regional Specialized Observatories' the Marshal's Office (as a leader of Network) exchange experience and creates a regional policy based on our partners' knowledge (scientific institution and business environment institutions) to support the development of technological areas designated in the Technology Development Program (regional specializations: **medical technologies (health care), technologies for energy and mining, technologies for environmental protection, information and telecommunications technologies, production and processing of materials, transport and transport infrastructure, machine, car, air and mining industry, nanotechnologies and nanomaterials**).

The smart specializations of Silesian region are: **medicine, energy, ICT and green economy, emerging industries**.

The Silesian Voivodeship has strong traditions related to coal mining and has a large back office of companies and institutions (including scientific ones) that have extensive experience and carry out projects aimed at modernizing work in mines and revitalizing post-mining areas. In our region, we also have strong scientific facilities in the area of environmental protection and sustainable development as well as the widely-understood green economy. In the near future, the Silesian Voivodeship will update the Regional Innovation Strategy document, in which a great deal of emphasis is placed on developing the industry's 4.0 ideas and the sensation



of specific solutions. Silesian Voivodship will also develop competences in the field of emerging industries, among others, in mobility industries, mobile services industries and creative industries. The exchange of experiences in this field will be a very valuable experience for our region, and the initiated projects can contribute to the creation of joint economic initiatives.

In our region is implemented the idea of *design thinking*, thanks to which the creation of products and services is customer oriented, which increases the competitiveness and profitability of SMEs, and thus speeds up their development. In the international partnership, Silesian implements the Design 4 Innovation project. The main goal of the project is to develop action plans which by implementing design and design principles of the companies from the region (and indirectly also by the cooperating institutions and research centers) it is possible to make them more competitive and create the desired products and services. The aim of the project is to integrate partners in order to apply innovation policy of Structural Funds Programs and build capacity for designing innovative regional policy in line with the design-driven-innovation approach. This project involves promotion of user-centered policy and includes design methods at regional and national level.

In the field of our interests remains also to build social cohesion with employment and productivity, thus improving citizens' quality of life.

In our opinion we have many common topics with the Minas Gerais, especially in the following areas: Renewable energy, Water resources, Biotechnology, Aerospace, ICT (Digital communication devices, Information management, Spatial Data Infrastructure (SDI)), Surface technologies, Machinery including modern machines for obtaining raw materials, Sustainable and economical materials for the construction industry, Revitalization of post-industrial and post-mining areas, Mobility and cooperation between Science and Technology (S&T) institutions. Not less important is that Marshal's Office take many activities which increase innovation development of the Silesia Region. We are passionate that mutual cooperation can assimilate many joint project initiatives, which can contribute to achieving measurable benefits for the economy and society of both regions.

How has your region dealt with the above-mentioned regional innovation challenges faced by the Latin American region under analysis and how did your regional innovation strategy (RIS3) support in addressing these?

The history of the Silesian innovation system has started in 2003 with Regional Innovation Strategy, which was the first program of this kind in Poland. The next step was the technological foresight of the region which was the basis for the Technology Development Program for the Silesia for the years 2010-2020 [PRT], in which 8 technological areas were indicated. Working groups and experts focused on the specific nature of the identified technology areas and they recognised endogenous potential pointing out 3 regional specializations: medicine, energy and ICT - mentioned above. Once again, by adopting the Regional Innovation Strategy for Silesia for the years 2013-2020 [RIS 2013-2020], region has signed the third generation strategy as the first region in Poland. For the Silesia it was always important to identify, develop and optimize the competitive advantages of a region. Except from choosing and implementing smart specializations according to RIS 2013-2020, it was essential to create the Regional Innovation Ecosystem, based on cooperation networks among business support organizations, the R&D sector, local authorities and businesses. Since 2005 Marshal Office of the Silesian Voivodeship has implemented projects which main goal was to implement the RIS Strategy. The most important

effect of this long-term cooperation with many regional partners we create the 'Network of Regional Specialised Observatories' which closely matching offer to regional needs and complex management of technological economic change. The Network has worked free of charge since 2013 and has been involved in identifying, monitoring and evaluating technological areas in order to diagnose potential of industry.

Now, The Network unites 13 regional institutions responsible for technological specialisations diagnosed in PRT is manage by the Silesian Voivodeship. 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 Network turned out to be a great idea that let the region professionalise offer for recipients and - thanks to the institution which took care of the particular technological areas - arrange technological and innovation audits and scoutings for entrepreneurs and local government. No less important was the improvement of the quality of self-government policy for the regional economy. The Network activities are focused on support and improvement of the management of the region's development in the following areas: regional potential of science and technology, positioning of key technology areas, assessment of the effectiveness of measures aimed at creating a regional technology development policy of Silesia, strengthening of regional specialization, strengthening of the adaptive capacity of the region, the regional market of research services and human resources by building a relationship of regional R & D sector, businesses, business support institutions and regional authorities and the development of knowledge, skills and experience exchange within the network.

Important issue of the actions carried out by the Marshal's Office was to animate and activate representatives of local government of the region so they could be fully involved in Regional Innovation Ecosystem. We create the 'Local Innovation Strategy Guide' by which it was possible to transfer know-how from regional to local level government and strengthen the regional innovative policy. Additionally, the first time representatives of the local government participated in whole process of monitoring and implementation of RIS through participation in technological scoutings and technology-innovation audits that took place in more than 80 cities.

The well-organized partnership helps us in the implementation of innovative challenges and the implementation of RIS records as well as the development and search for new specializations. This is an important experience which we would like to share with the Minas Gerais.

What benefits does your region expect from pairing with this Latin America Region in terms of new business opportunities and/or knowledge exchange?

The cooperation and changing good practices between both Regions gives the Silesian Voivodeship great opportunity to efficiently implement our RIS Strategy solutions allowing the region to attain its goals and to streamline its support to adequately match the SMEs' needs, is more than legitimate.

The new partnership will allowed the Marshal's Office to compare our previous activities and applicate new ways of solving problems and barriers in implementation that may occur.

The main expected results of cooperation will be:

- exchange of experience in the field of good practices (implemented projects, ventures etc.),
- exchange of experience in creating an innovative policy and technological development of the region, support for the industrial and SME sector,
- broadening knowledge in the area of monitoring of technological trends (data collection and conducting research in this field),
- the implementation of joint project initiatives,
- establishing cooperation between scientific units and entrepreneurs,
- initiating cooperation between various scientific entities, such as business environment institutions and entrepreneurs,
- development of co-founders of companies from both regions, which will contribute to the development and implementation of technological innovations and export promotion,
- technology development through joint research in areas such as mobility, industry 4.0, renewable energy, environmental protection, including water management and soil protection, data collection and processing,
- exchange of experience in the field of mine management during their operation and creation of plans for the past after excavation work (including methods of land reclamation),
- development of staff competences.

The intermediate reserve for cooperation will be the development of the social and economic leaders of our regions. Thanks to cooperation we will create an environment supportive to growth of entrepreneurship. Intersectorial cooperation based on numerous projects undertaken in the region in the area of support partnership building and thus also a technology transfer. Close and effective cooperation among all partners involved (local, regional and international Partners) is essential to facilitate immediate access to knowledge and best practices, and to accelerate their implementation by means of eliminating potential threats.

Part B – Capacity to cooperate (e.g. resources, time, knowledge, skills...)

Please outline below the name of the key person(s) in the region as well as other persons that will represent the region and will be available to liaise continually with the IUC-LAC project team in order to support the pairing agreement and joint EU-LAC pilot projects to materialise. (Name, whether is a key contact or not, organisation/position, contact details)*

Participation in this collaboration will give the Silesian Voivodeship chance to implement new tools and opportunities to aim main goals of our RIS Strategy and better match the support offered by the region to SMEs needs.

1. Małgorzata Staś – Marshal Office of the Silesian Voivodeship, Director of the Regional Development Department
2. Barbara Szafir – Marshal Office of the Silesian Voivodeship, Deputy Director of the Regional Development Department
3. Monika Ptak-Kruszelnicka – Marshal Office of the Silesian Voivodeship, Head of the Regional Innovation Strategy Unit
4. Magdalena Urbańczyk – Marshal Office of the Silesian Voivodeship, main specialist in the Regional Innovation Strategy
5. Agnieszka Gieroszka – Marshal Office of the Silesian Voivodeship, main specialist in the Regional Innovation Strategy

Please outline below which resources the region could commit during the IUC-LAC implementation such as financial resources, staff time, catering, meeting rooms, additional flights, etc.

The Marshal Office of the Silesian Voivodeship has appropriate staff resources (qualified employees) and technical facilities (conference rooms) for the implementation of cooperation. It also has appropriate experience and conditions to organize a meeting or conference in our region, study visits to scientific units and enterprises from our region. The Marshal Office also has adequate financial resources to cover some of the costs related to the delegation of designated employees. Strong cooperation of Regional Partners gives us opportunities to arrange meetings dedicated to specific technological and innovation areas and use the experience and knowledge of experts involved in activities undertaken by Observatories. We can also organize study visits in crucial R&D institutions or business support centers from our Region.

Please outline which government, business, research, civil society and financial stakeholders can the region mobilise locally or nationally. (Name, stakeholder type, organisation/position, contact details)

1. The 'Network of Regional Specialised Observatories':

Technopark Gliwice Science and Technology Park Ltd	business support institution (ICT)	regional	ul. Konarskiego 18C 44-100 Gliwice tel. +48 32 335 85 00 info@technopark.gliwice.pl
Silesian University of Technology	research (materials and medicine)	regional	ul. Akademicka 2A, 44-100 Gliwice tel. +48 32 237-10-00 email: RR1@polsl.pl http://www.polsl.pl
University of Silesia in Katowice	research (nanotechnology & nanomaterials)	regional	ul. Bankowa 12 40-007 Katowice tel.: +48 32 359 19 56, 32 359 19 57 http://www.us.edu.pl
Science and Technology Park EuroCentrum	business support institution (energy)	regional	Euro-Centrum S.A. ul. Ligocka 103 40-568 Katowice tel. +48 32 251 74 78 Fax +48 32 250 47 85 sekretariat@euro-centrum.com.pl http://www.euro-centrum.com.pl
Upper Silesian Agency for Entrepreneurship and Development	business support institution (medicine)	regional	ul. Wincentego Pola 16 44-100 Gliwice, tel.: +48 32 33 93 110 faks: +48 32 33 93 117 www.gapr.pl gapr@gapr.pl
The Foundation of Nanoscience and Nanotechnology Support NANONET	foundation (nanotechnology & nanomaterials)	regional	ul. Młyńska 5 40-098 Katowice fundacja@nanonet.pl http://nanonet.pl
Central Mining Institute in Katowice	research (environmental)	regional	plac Gwarków 1 40-166 Katowice tel.: +48 32-259-2000 Fax: +48 32-259-6533 https://www.gig.eu/pl
ITAM Institute of Medical Technology and Apparatus in Zabrze	research (medicine)	regional	ul. Roosevelta 118 41-800 Zabrze e-mail: itam(at)itam.zabrze.pl tel.: +48 32 271-60-13 Fax: +48 32 276-56-08
Professor Zbigniew Religa's Cardiac Surgery Development Foundation	foundation (medicine)	regional	ul. Wolności 345a 41-800 Zabrze tel.: +48 32 373-56-00 fax: +48 32 373-56-77 e-mail: sekretariat@frk.pl
Regional Development Agency in Czestochowa S.A	business support institution (energy)	regional	Aleja Najświętszej Maryi Panny 24 42-202 Czestochowa tel. +48 34 360 56 88, Fax +48 34 360 57 47 arr@arr.czestochowa.pl
Institute of Non-Ferrous Metals in Gliwice	research (nanotechnology & nanomaterials)	regional	ul. Sowińskiego 5 44-100 Gliwice tel. +48 32 2380 200 fax. +48 32 2316 933

			e-mail: imn@imn.gliwice.pl http://www.imn.gliwice.pl
Center of Polymer and Carbon Materials of the Polish Academy of Sciences	research (nanotechnology & nanomaterials)	regional	ul. M. Curie-Skłodowskiej 34 41-819 Zabrze tel.: +48 32 271-60-77 Faks: +48 32 271-29-69 e-mail: sekretariat@cmpw-pan.edu.pl https://www.cmpw-pan.edu.pl
Silesian Science and Technology Centre of Aviation Industry Ltd.	business support institution (aviation)	regional	ul. Nad Białką 25 43-502 Czechowice-Dziedzice tel.: 32 779 60 00 faks: 32 779 60 99 e-mail: biuro@scntpl.pl www.scntpl.pl

2. Chamber of Commerce and Industry in Katowice – business support institution, regional, ul. Opolska 15, 40-084 Katowice, tel.: +48-32 35-111-80, +48-32 35-111-90 | fax +48-32 35-111-85, <http://rig.katowice.pl>
3. Silesian Centre of Entrepreneurship – institution implementing EU funds for entrepreneurs, regional, ul. Katowicka 47, 41-500 Chorzów, tel. +48 32 743-91-67, 32 743-91-71, 32 743-91-77, fax: +48 32 743-91-6
4. Medical University of Silesia – research, regional, ul. Poniatowskiego 15, 40-055 Katowice tel. +48 32 208 3600

Part C – Profile of your region

Enter the name of your region here

Silesian Voivodeship

Select your country

Website of your region (URL)

<https://www.slaskie.pl/>

<https://ris.slaskie.pl>

Population size

over 4,55 million

GDP (€ per person per year)

GDP/inhabitant (year) 48 670,00 PLN

GDP growth rate (year) 104,7 %

Please, briefly describe your region with a general socio-economic description and main challenges of your regional innovation strategy

Strong, innovative and partnership-driven, Silesia operates within the “triple helix” of the knowledge-based economy: **Universities** generate knowledge, **businesses** implement it, and the **local government** facilitates knowledge transfer. Owing to this, Silesia has now morphed into a **region sharing the pan-European concern with the health, wealth, and future potential** of its inhabitants and **eco-conscious use of its resources**.

In the Silesian Voivodeship the time of economic transformation was well employed. In the 90's in the XX century the focus was on supporting entrepreneurship. On the local level infrastructure was developed in this scope and a lively structure of institutions surrounding business and local development was created, especially SMEs. It was on their basis that in the beginning of the XXI century foundations of pro-innovative policy were created in the voivodeship. R&D sector was involved in those works. Pre-access means and financing from structural funds were used for developing many instruments of regional policy - both those referred to as “soft” and the infrastructural ones. The task of region's innovative policy is to inspire for innovativeness and to create conditions for reaching market leadership, as well as to ensure technological development wither through reaching perfection in selected fields or through acquisition of technologies from global markets and settling it in the Silesian Voivodeship. What is equally important is to simultaneously strengthen leadership in business circles and in the actions of public authorities. The role of the strategy is to activate a dialog and to regulate the activity of numerous actors of the innovation ecosystem in Silesia.

A key priority area for the Silesia, based on the ‘Śląskie 2020’ Development Strategy of the Silesian Voivodeship’, is modern economy. Silesia as a knowledge-based region, creating its own and absorbing emerging innovations, including technological, attractive and friendly to entrepreneurs and investors, using the industrial achievements and traditions, potentials and specialties related to modern industries applies a development policy leading to the growth of innovativeness and competitiveness of the region. The policy pursued in that way make public administrations responsive to SME's needs , let adapt public policy tools to SME needs and create programs which give facilitate SMEs' access to finance and develop a legal and business environment supportive. The key strategic areas of public intervention in Silesia Voivodeship result of strategic documents (‘Śląskie 2020’ Development Strategy of the Silesian Voivodeship’ and ‘Regional Innovation Strategy of the Śląskie Voivodeship for the years 2013-2020’) are: 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.

The priorities of innovation ecosystem are:

- Increasing and internal integration of the region's innovative potential. This priority is related to the continuation of the hitherto effective and efficient measures strengthening the readiness of businesses, institutions and the society in the region to face subsequent new innovation challenges and to realize scientific and economic enterprises of key importance for the development of a region. This does not mean simple continuation if the existing activities, but their validation, the development of a new kind of infrastructure and services and the increase of the scale of interactions in the innovation ecosystem of the Śląskie Voivodeship. The objective under this priority will be realized within incremental development processes.

- Creating smart markets for future technologies. This priority regards the opening of businesses, institutions and society in the region for participation in value chains and usage of new business models in relation to the expanding scale of transformations in the direction of the so-called smart markets and the related prosumer behaviours. The priority's essence is to strengthen competence both for operating this sort of markets from the technological and social perspective (consumer behaviour) and building lasting ability to create and participate in such markets. The objectives under this priority are oriented for making breakthrough technological and product changes.

The following are regarded to be fields of public intervention:

- creating knowledge and innovation communes as an answer to the assumptions of innovative policy of the European Union and the country and creation of nodal institutional solutions for gaining smart specializations of the Silesian Voivodeship,
- the development of technologically advanced public service networks as an innovative supply for realization of the 'Śląskie 2020' strategy and the basis for drawing to the region global resources, necessary for the realization of scientific and business activities of key importance for the Silesian Voivodeship,
- reference character of the regional innovation ecosystem infrastructure as the basis to perform scientific as well a research and implementation-related activity compliant with the worlds best available technologies,
- including SME as sources of innovations into global chains, as the core of internationalization of businesses and building their lasting competitive advantage on meta-national markets,
- the creation of talents and strengthening of competence as the driving force of all innovation processes in the region both stemming from social attitudes and accumulated in the know-how and human capital of companies.

Part D – Contact details

I confirm that I am officially mandated by the region for the submission of this application

Yes

No

First name(s), Last name(s)

Monika Ptak – Kruszelnicka

Function/Job title

Head of Regional Innovation Strategy Unit

Name of the department where you work

Department of Regional Development

Your responsibilities in relation to regional innovation

- 1) Development programming in the field of innovation and technology transfer, implementation of projects aimed at implementing solutions in the area of building the protechnological and innovative potential of the region,
- 2) Monitoring and updating regional specializations and smart specializations of the region,
- 3) Management, implementation and monitoring of the Regional Innovation System,
- 4) Implementation of regional, national and international projects regarding to Regional Innovation Strategy of the Silesian Voivodeship.

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Part E – Other

Please include any other relevant information or comments that you consider useful for the application. If you want to send us files, please send them to fernando.bernabeu@eurada.org and you will receive an acknowledgement of receipt