



Podkarpackie Region

Towards RIS3

Leszek Woźniak | Andrzej Rybka | Piotr Czerepiuk



- 1. How region can effectively create green transformation (green growth and bio-based economy using eco-innovation) and what may be the sources of funding it?**
- 2. How the role of clusters in the region such as Podkarpackie should look like in the future? Are there any known and identified new support measures for cluster in you regions/ countries?**
- 3. What kind of criteria can be used to select right projects concerning our S3?**
- 4. How can we improve our entrepreneurial (and scientific) discovery process in the future?**

Briefly about Podkarpackie Region

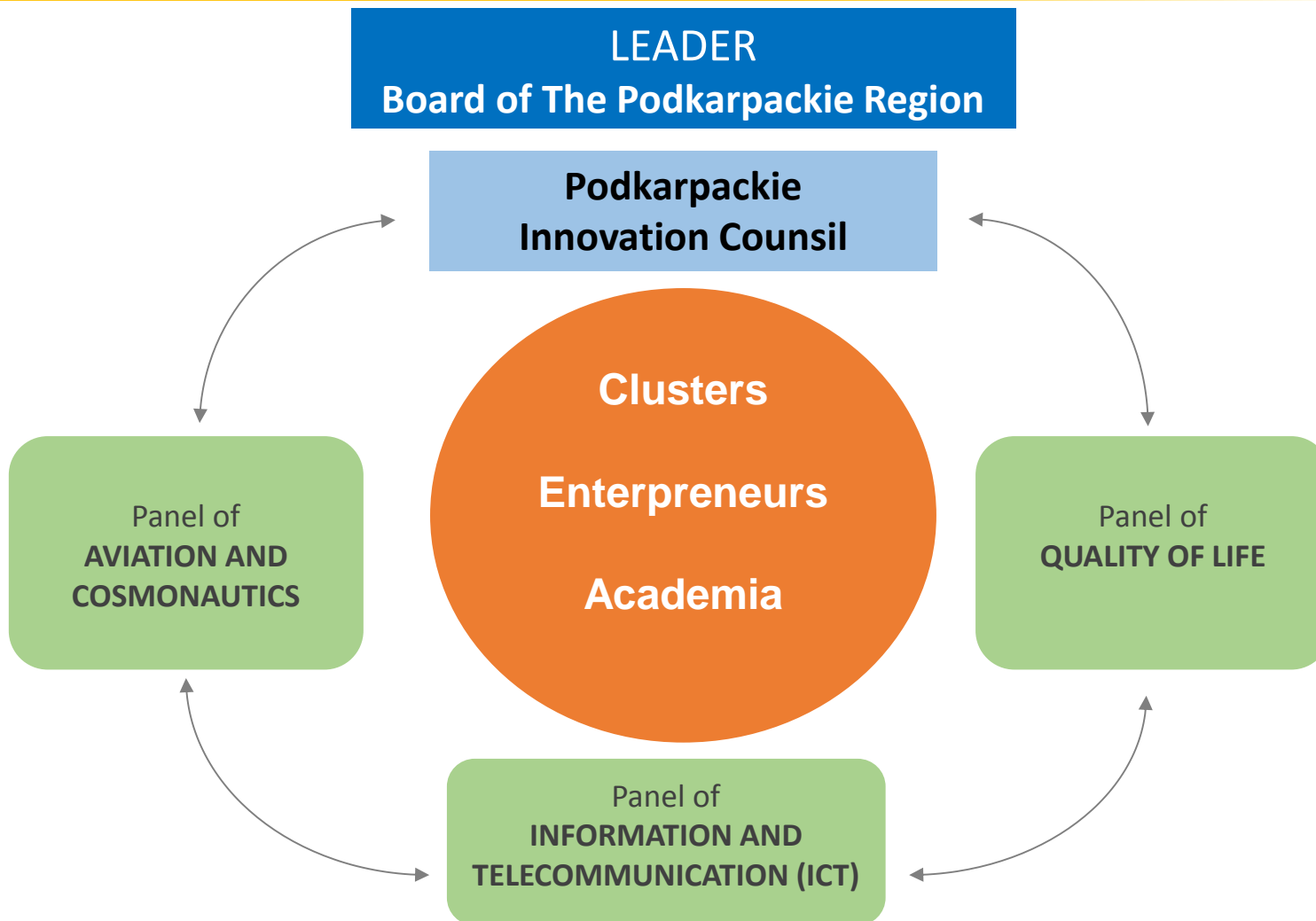


PODKARPACIE IN NUMBERS

- Number of inhabitants: 2.1 million
- Area: 17 844 km²
- Population density: 118 people/1 km²
- Capital city: Rzeszów
- Students: 70 000
- Enterprises: more than 160 000
- Unemployment rate: 14%
- Average monthly gross salary: about 780 €

Status on RIS3 in Podkarpackie Region

- The RIS3 document determining the regional smart specializations has been already created
- The Actions Plans for each smart specializations have been created
- Ongoing process of systematically collaboration with most important stakeholders of regional innovation system
- The frameworks for monitoring and evaluation of RIS3 together with the entrepreneurial discovery process are being currently prepared



The partner institutions in the region:
Regional Centre for Technology Transfer, Regional Centre for Transfer of Modern Manufacturing Technology,
Business institutions supporting the development of innovation,
Statistical Office, Regional Labour Office, Self-government local and district

Building evidence base for RIS3

Strengths

- Highly developed aviation industry
- Widely known Aviation Valley cluster
- Aviation fields of study in Rzeszow University of Technology
- Clean environment
- Organic, regional and traditional food production potential
- systematically improved the structure of the implementation of the Regional Innovation Strategy
- Systematically organised Podkarpackie Innovation Forums
- high spending on R & D per 1 inhabitant, tending strongly growing - 2nd place in the country
- Existence in Podkarpackie Region the largest domestic IT companies

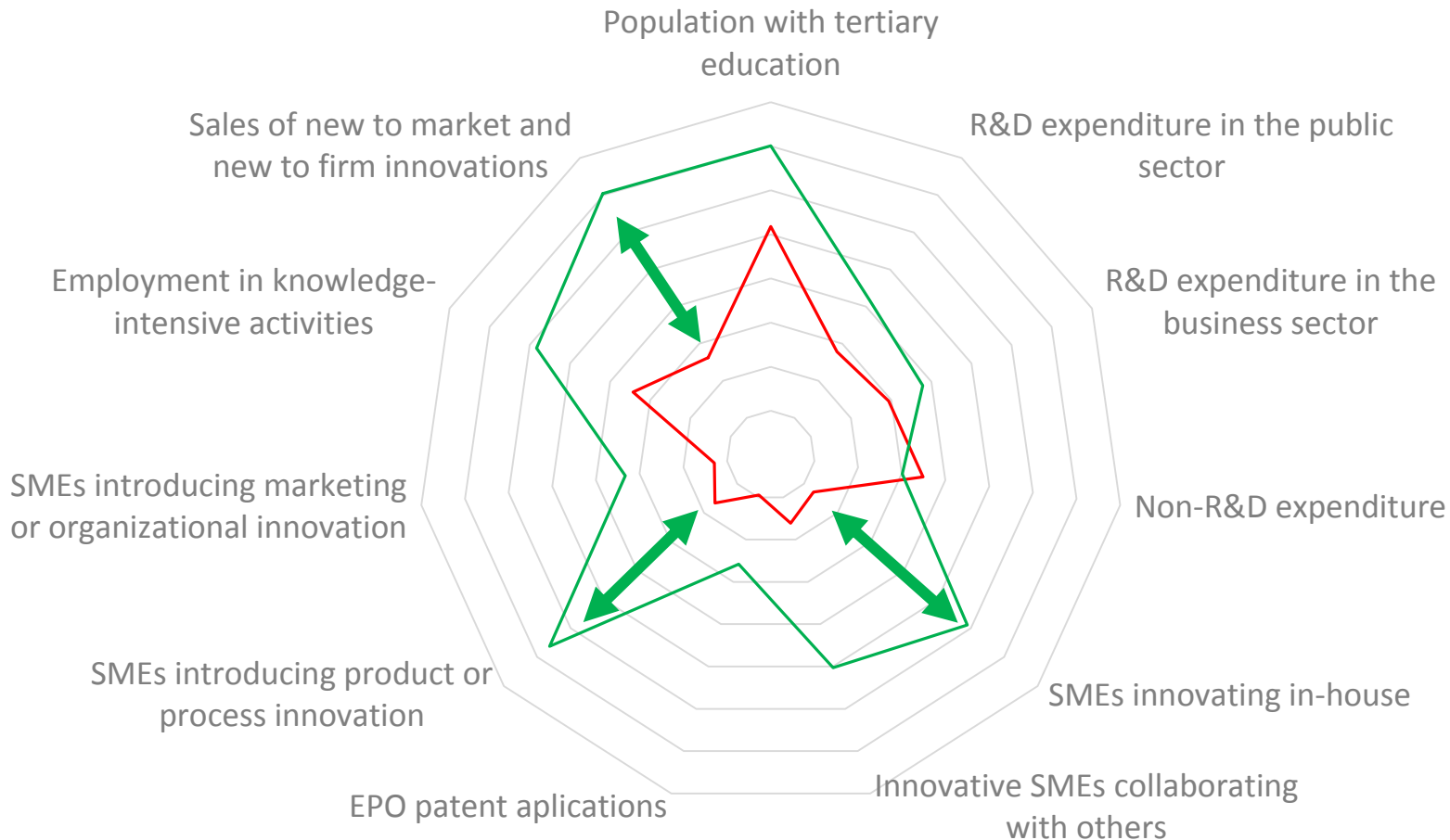
Weaknesses

- Unfavorable wage levels in the region
- Mass emigration of talented people
- Too low level of cooperation between business and science
- A small number of businesses per 1000 inhabitants

Opportunities	Threats
<ul style="list-style-type: none">▪ Know-how of organic, regional and traditional food production▪ Development of aerospace research centers▪ Dynamic development of cluster links▪ Development of global aviation industry cooperative relations▪ The growing importance of bio-economy, green growth and eco-innovations	<ul style="list-style-type: none">▪ Risks for environment because of intensive food production, especially from GMO▪ Central domestic policy mistakes▪ Negative impact of corporations on SME's

On the basis of extensive bibliometric analysis, SWOT, PEST, stakeholders analysis and knowledge of entrepreneurs and researchers from the region.

Looking beyond our region boundaries



Podkarpackie Region belongs to the group of regions with a **moderate** degree of innovation.

— Podkarpackie — Benchmarks

Looking beyond our region boundaries

- RIS3 strategy creators have taken into account national border regions, especially being in a similar economic situation:
 - Lubelskie
 - Świętokrzyskie
- Bavaria has become benchmark for Podkarpackie Region (because of the environmental conditions and the important role of the rural environment).
- When creating RIS3 strategy it was also compared with the regions from Austria and Hungary.

Vision of the Podkarpackie Region and mission of the RIS3



Environmentally and socially sustainable, innovative and competitive economy - **a leader in the creation of eco-innovation**. Region of the highest quality of life.



Supporting the development of innovative and competitive economy of the region, focusing on social welfare and protection of the ecosystem as the basis of society and the economy. Support for smart specialization, intelligent activity areas, priority actions and technology.

Main objectives for Podkarpackie RIS3 strategy

Aerospace industry

development of the region as a leading center in Poland for innovative aerospace and communication technology

Quality of life

development of the region as a region with the highest quality of life

Information and Communication Technologies (ICT)

widespread use and development of information and communication technologies



Priorities of Podkarpackie RIS3 strategy

Main priority: Smart, sustainable and inclusive growth

Priority actions and technologies for the areas of support:

Mobility: Technologies and products of the aerospace industry. Multimodal, sustainable transport.

Climate and energy: Renewable energy sources and technologies associated with them. Balanced and intelligent construction (buildings, neighborhoods, cities). Biodegradable plastics. Electrical machinery industry.

Sustainable tourism: Cognitive tourism. Leisure tourism, eco-tourism, rural tourism. Adventure tourism. Health tourism. Business tourism. Culinary Tourism
Religious tourism.

Health, food, nutrition: Organic, regional and traditional food. Healthy, optimized, non-GMO diet. Preventive medicine. Care for the elderly.

ICT: High speed Internet access.

Leading smart specialization quality of life for Podkarpackie Region is a complex activity areas and solutions, interrelated, aimed at creating a new, sustainable model of society and the ecosystem, including mobility - multimodal transport, climate and energy, highest biological and health quality food, energy efficient construction, sustainable tourism, information and communication technologies (ICT). It is not a sector, but complex solutions designed to meet EU requirements and at the same time guaranteeing the intelligent development of the entire of the Region, according to a new economic and social paradigm of the European Union.

Every smart specialisation have its own Action Plan in which creators have identified (context, output, **product, result**) indicators corelated to it.

Examples of indicators especially correlated to smart specialisations:

Aerospace industry

Dynamics of production sold in sectors related to the aviation industry Polish Statistical Classification of Products by Activity.

Quality of life

Percentage of passive, zero-energy and energy plus house; the share of renewable energy in total energy production; life expectancy.

ICT

Dynamics of production sold in sectors related to the ICT industry Polish Statistical Classification of Products by Activity; percentage of households with access to broadband Internet; percentage of enterprises that have access to the Internet

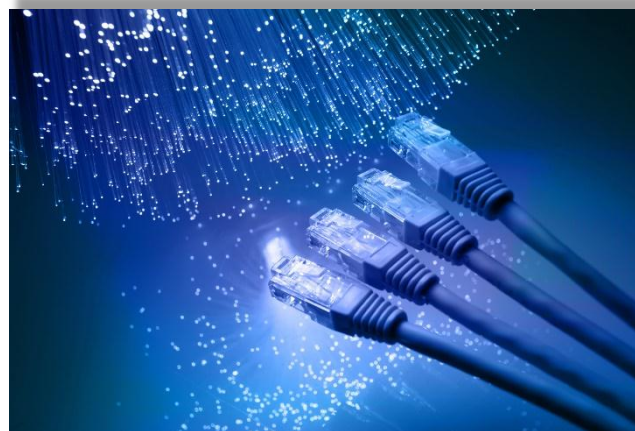
Our smart specialisations



Aerospace industry



„Quality of life” sector



Information and Communication
Technologies (ICT)

Aerospace industry

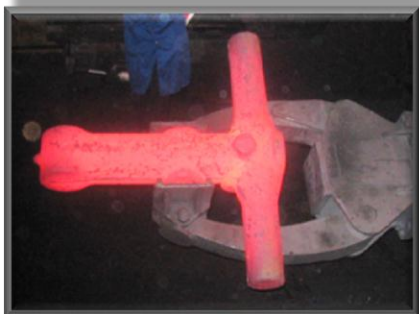


AVIATION VALLEY



Members	120
Employment	25 000
Sales	2 mld \$

Complete supply chain



Forging, Ladish Stalowa Wola



Bushings, UltratechSędziszów



Polish F-16, engines assembled in WSK Rzeszów
and landing gears made by Goodrich Krosno



Landing gear, Goodrich Krosno

System of education in Aviation Valley

Universities / Aeronet , 80 M



High schools, grammar schools / CEKSO, „Flying physics” , 30 M\$



Primary schools / „Tech University for children”



GOING ABROAD

Central Europe Conference



INTERREG Eastern Europe



Interreg IIIC: Finland, Ireland, Poland



Clustering clusters

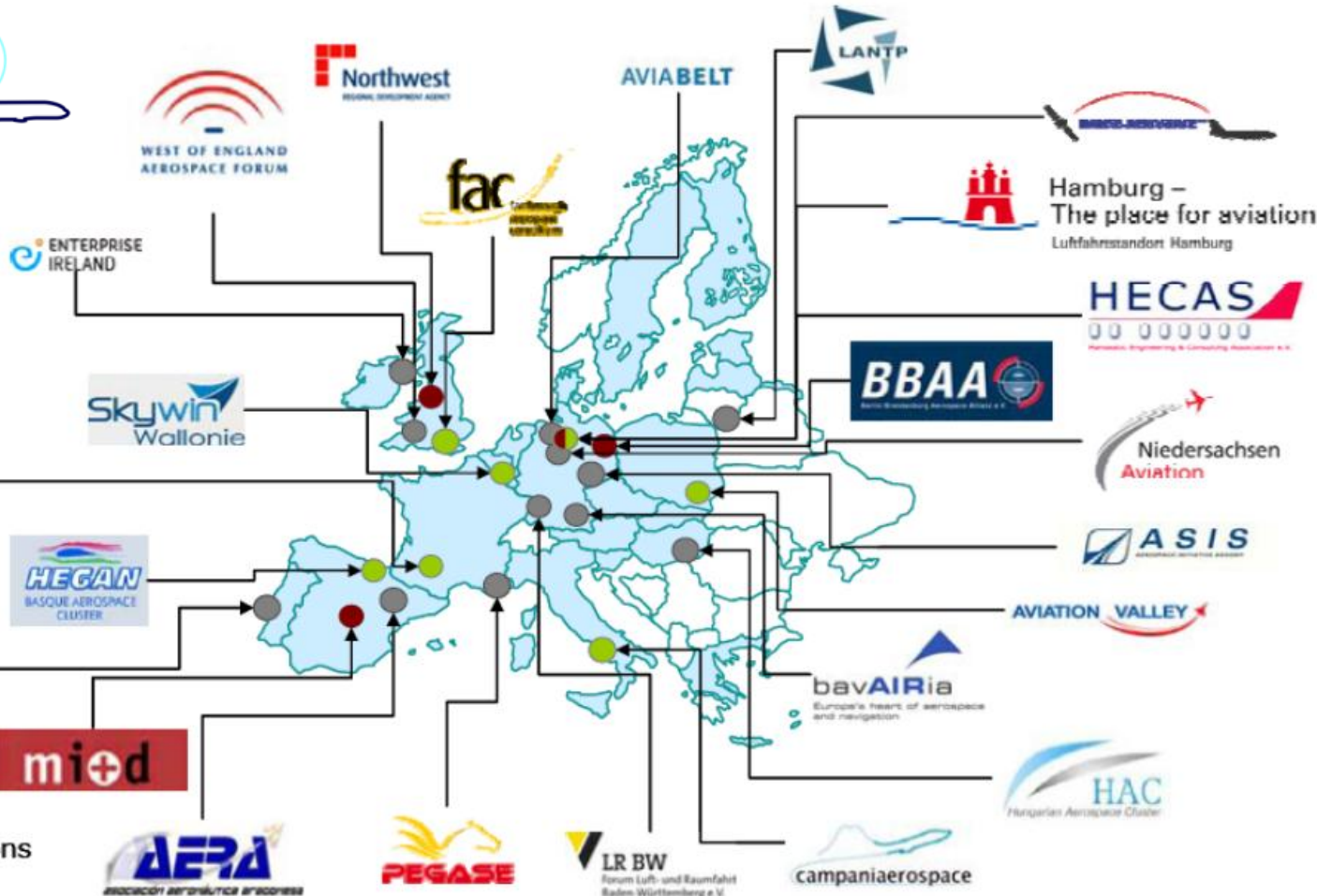
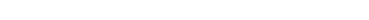
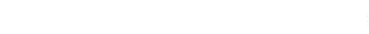
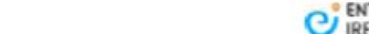
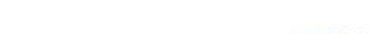


GOING ABROAD

39 clusters, 13 countries



Member of
EACP

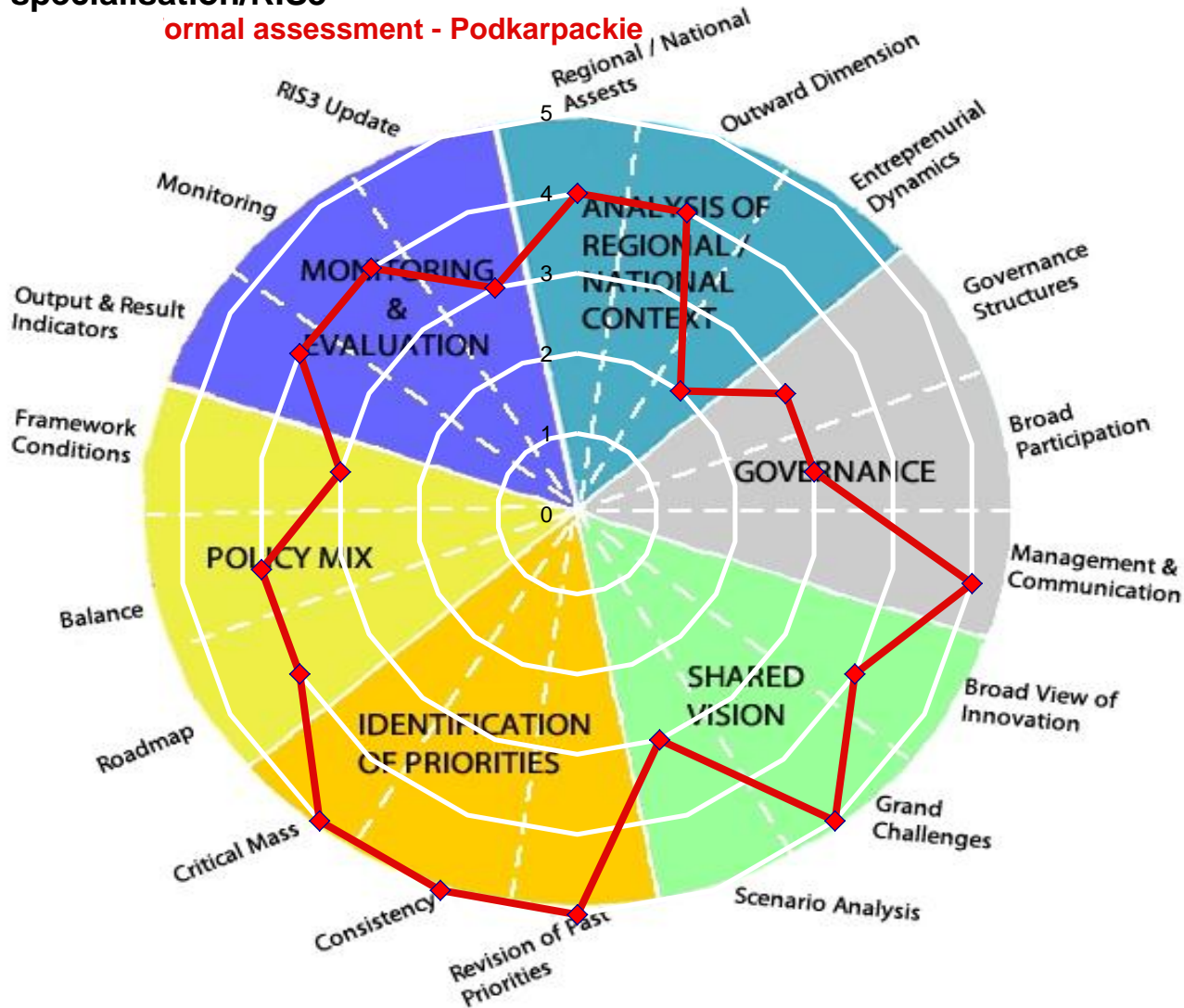


- CLUNET
- Wings for Regions
- Others

Self assessment

Driving economic change through smart specialisation/RIS3

ormal assessment - Podkarpackie



Podkarpackie has an ambition to become a region with the highest quality of life and benchmark for cooperation between entrepreneurs, academia and government.

Next steps:

- Completion of work concerning the preparation of "action plans,, for each smart specialisation
- Preparation of the project/instrument to support implementation of the Podkarpackie RIS3 strategy
- The frameworks for monitoring and evaluation of RIS3 together with the entrepreneurial discovery process are being currently prepared
- Developing the concept of expanding the portal rsi.podkarpackie.pl

1. **How can region effectively create green transformation (green growth and bio-based economy using eco-innovation) and what may be the sources of funding it?**
2. **How the role of clusters in the region such as Podkarpackie should look like in the future? Are there any known and identified new support measures for cluster in you regions/ countries?**
3. **What kind of criteria can be used to select right projects concerning our S3?**
4. **How can we improve our entrepreneurial (and scientific) discovery process in the future?**

Question 1

How can region effectively create green transformation (green growth and bio-based economy using eco-innovation) and what may be the sources of funding it?

Why: 1) from our vision „... - a leader in the creation of eco-innovation.”; 2) EU2020 Strategy „ ...building the bio-economy by 2020.”

What has been done: smart specialisation: quality of life, as a specialisation is especially aimed at green transformation (2014-2020)

What worked: „green awariness” was built on the field of enterprises, administration and universities in Podkarpackie Region

What did not work yet: still not as many as we would like to eco-innovative projects were funded and done

Question 2

How the role of clusters in the region such as Podkarpackie should look like in the future? Are there any known and identified new support measures for cluster in you regions/ countries?

Why: 1) in the new EU perspective - in opinion of our clusters (Aviation Valley) - clusters are not mentioned in UE strategic documents as much as they should be; 2) our clusters are benchmarks for other PL and even EU clusters

What has been done: 1) a lot of collaborative projects (in the field of education, R&D, promotion of the region, international cooperation) were done;

What worked: close cooperation between clusters, universities and regional governance

What did not work yet: 1) close cooperation between large enterprises and SME's within clusters, 2) support for cluster initiatives in new areas/priorities

Question 3

What kind of criteria can be used to select right projects concerning our RIS3?

Why: our RIS3 strategy was approved by EU Commission and we are facing necessity of creating selection criteria for projects in the new EU perspective

What has been done: we described the support areas within the smart specialization

What worked: here are two approaches to project evaluation criteria: 1) expert judgment and 2) only by NACE codes

What did not work yet: in our opinion (only NACE approach) is wrong in the field of smart specialisation

Question 4

How can we improve our entrepreneurial (and scientific) discovery process in the future?

Why: We want to encourage the greatest possible number of companies in the EDP

What has been done: lots of meetings, conferences, seminars were conducted during EDP, more than 2000 enterprises were involved in EDP

What worked: cooperation between main regional development actors: universities, enterprises, regional governance and clusters

What did not work yet: extension of the process, access to enterprises outside the clusters and science and technology parks



Thank you for your attention
and have a nice stay in Rzeszów ;)