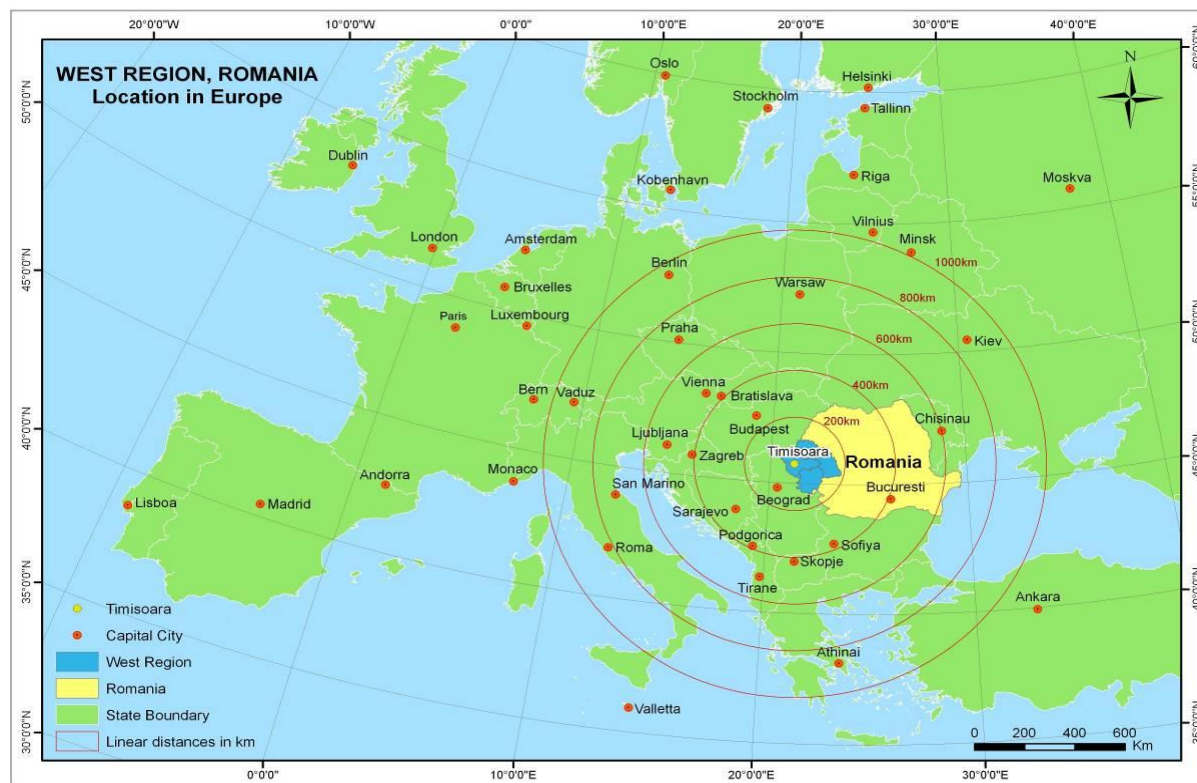


Cross-Border Clustering in Smart Specialisation framework



Eger, 20/11/2015

Tamas GYULAI
Raluca CIBU-BUZAC
Adrian MARICIUC
Cristian GOTIA

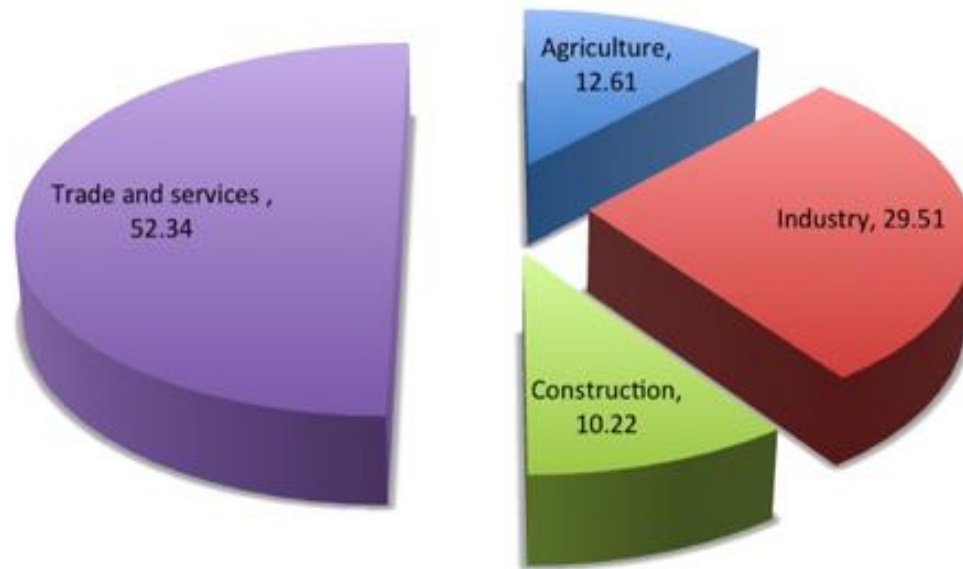
Introduction

- 4 counties
- 32.034 sqm
- 1.919.434 inhabitants
- Regional GDP 50,5 % from EU average
- 50.048 SMEs



Strategic economic sectors

- IT&C
- Automotive
- Construction
- Agro-food
- Energy efficiency



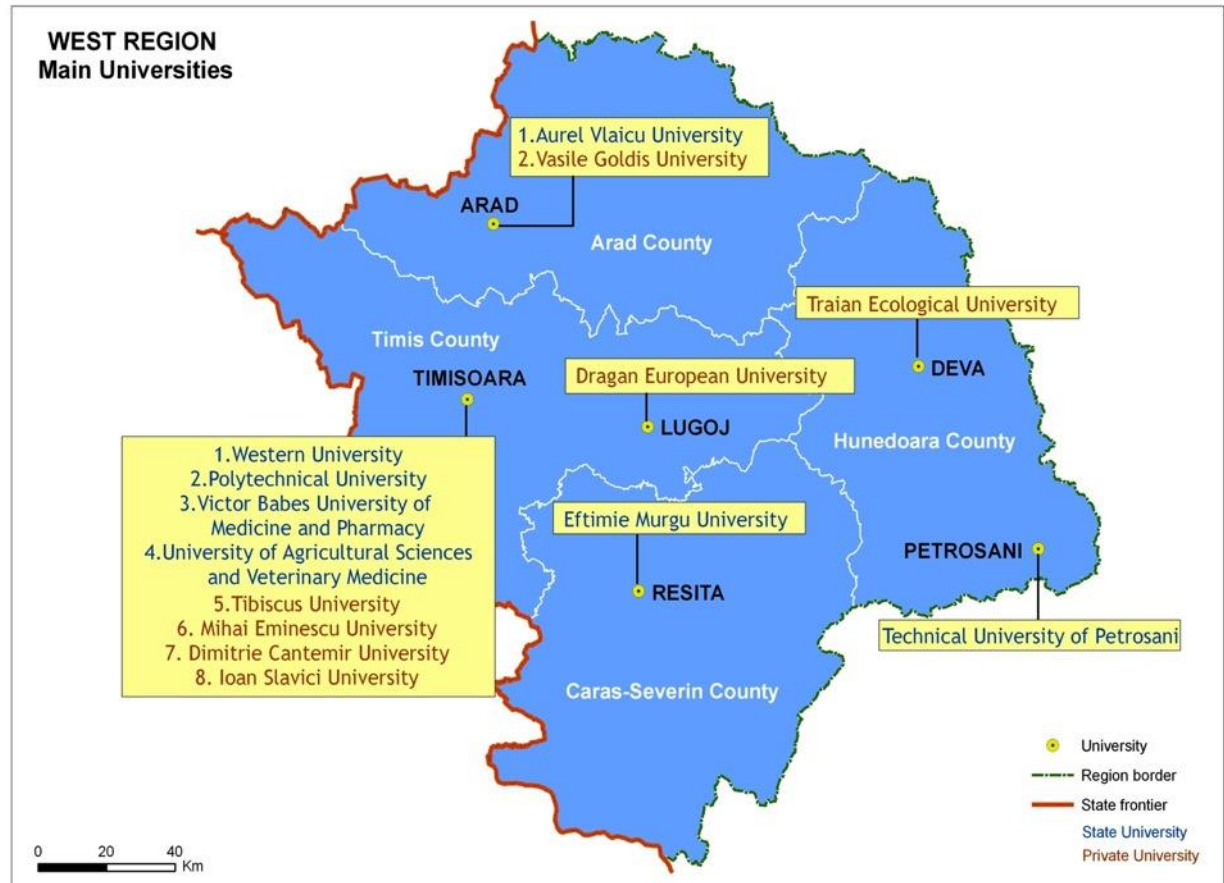
Supply

Universities:

- 7 public
- 7 private

Human Resources :

- 3.164 Teachers
- Students in the region: 72.124
- 20.789 graduates / year



Supply

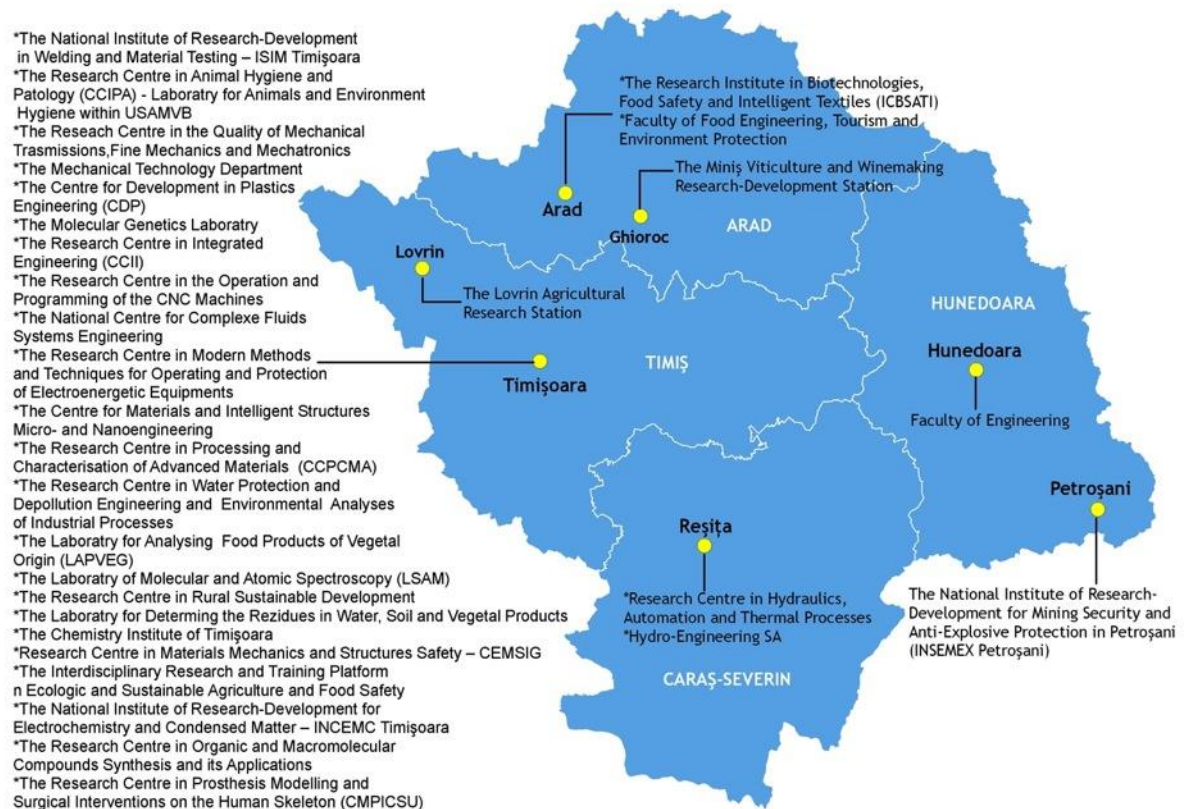
■ Research

Institutions: machine building, welding and material testing, Chemistry

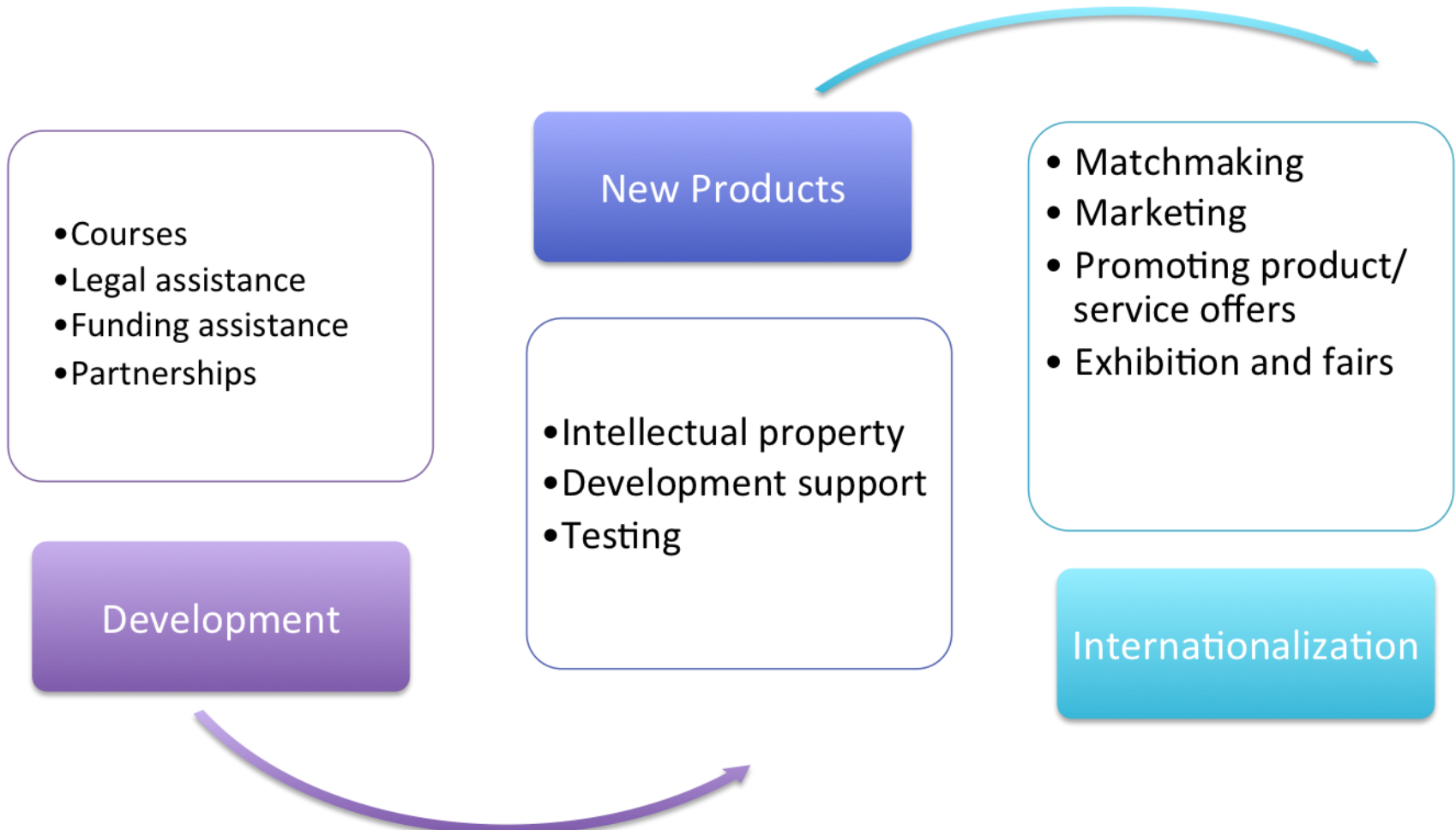
- **4.055** employees

■ **Timișoara** – the major research centre of the region

Research Centres and Institutes in WEST REGION



Demand

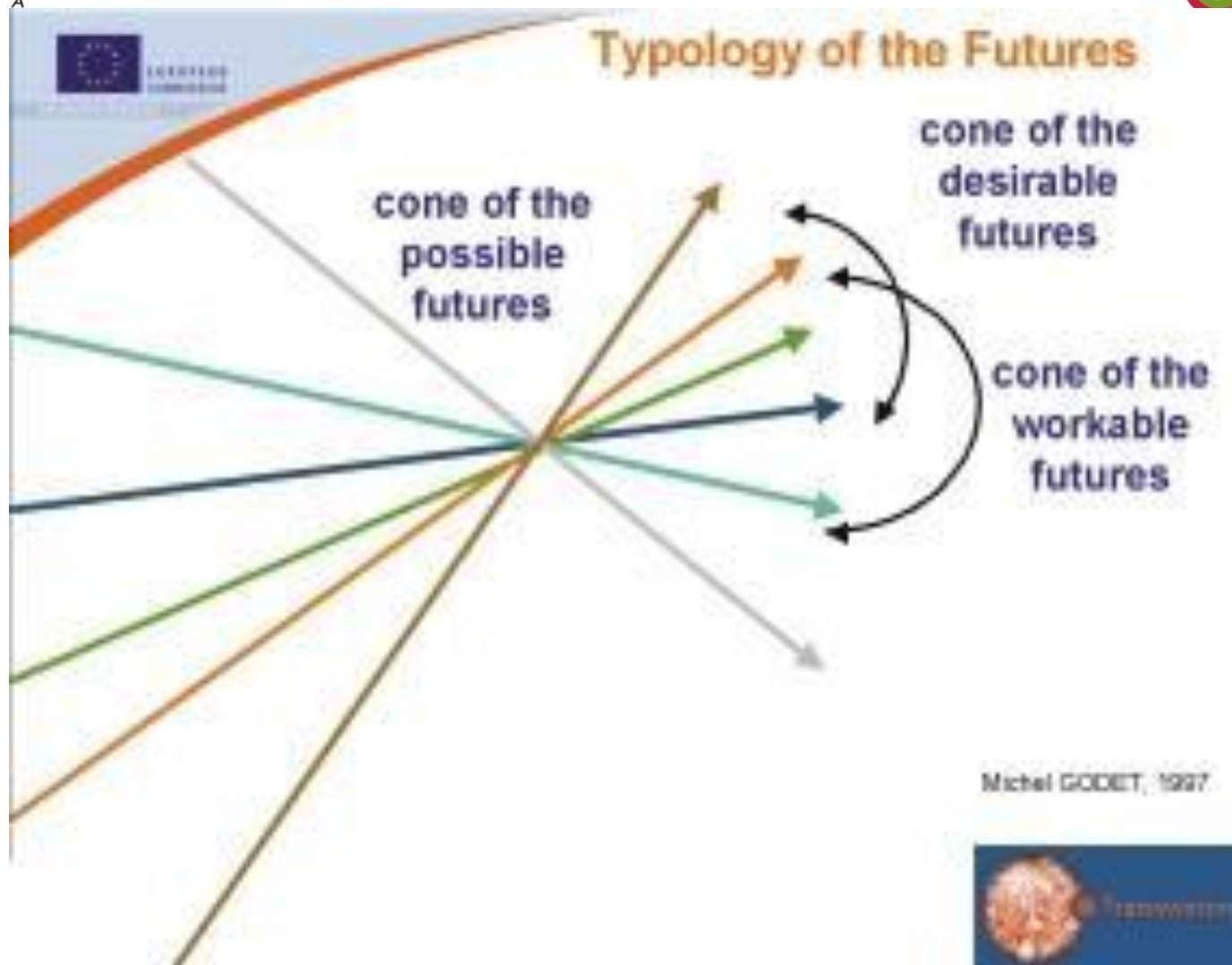


Transnational foresight as learning process

The South East Foresight Triangle







Place based dimension of the RIS3

WEST REGION – COMPETITIVE ADVANTAGE

- Regional Economy

- growing region; traditional industrial area; business locations; clustering

- Strategic location

- border area; TEN T Network; international airports

- High Quality of Human Resources

- young; good coverage of all qualification levels; diversity and multiculturality

- Quality of Life

- good cost of living; tourism; unique natural elements; rich natural resources

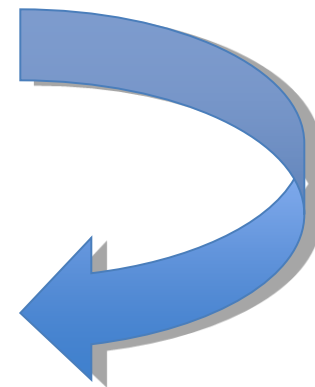
- Advanced Services

- Costumers services; Headquarter for multinational company

Key challenges for West Region : to **stay attractive**



- strategic **planning and programming**
- offering **professional services** to investors
- putting into practice the **cluster initiatives** ...



West Region a **smart specialization region**

Achieving critical mass

West Region - first Romanian Region that developed RIS 2005 -2008

Priority set up after 2 years of consultation and debate:

- **900** questionnaire to SMSs
- **50** interviews to research units
- **25** technologic audits

International Partener: *Tehnological Institute Aragon*

International Consultant: *Infyde Basque Country*

Pillot projects from RIS 2005-2008: Tehimpuls, Automotivest, Regional I
nnovation Pole on ICT sector (including TA financed by EC)

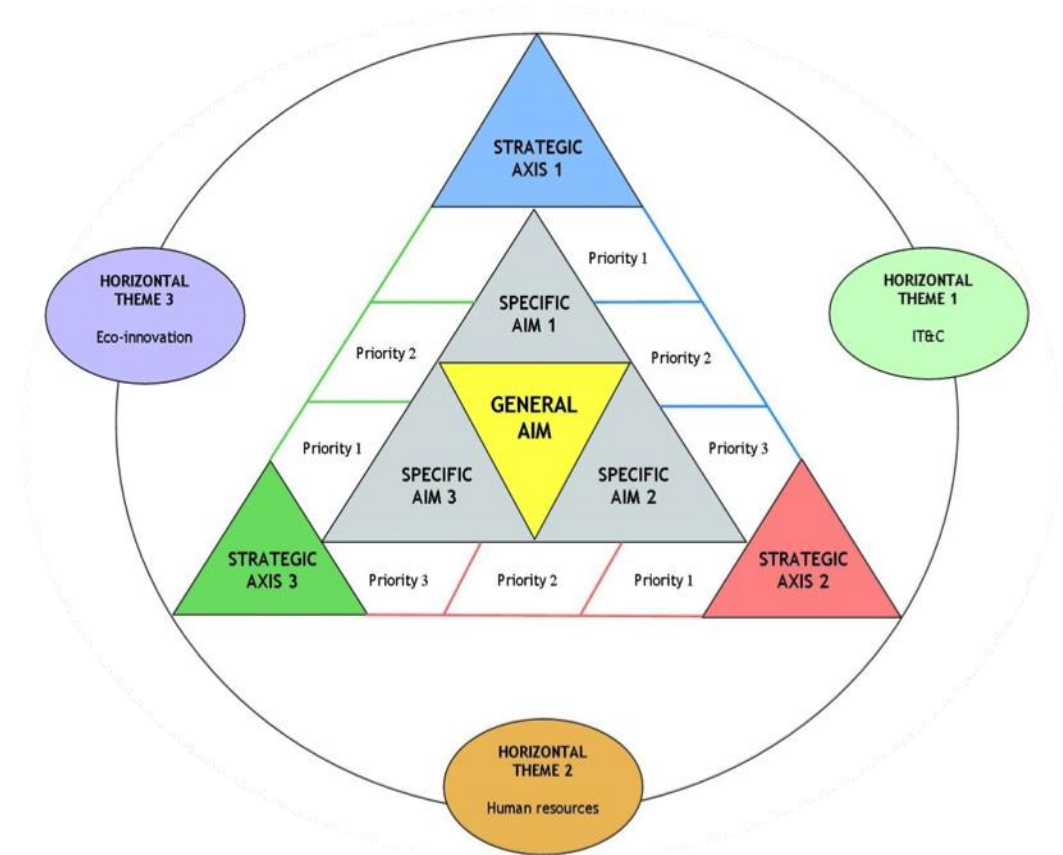
2009 -2013 second RIS for West Region



2009 -2013 second RIS for West Region

General Objective

Speeding up the economic development of the West Region by integrating innovation and knowledge into the public policies and the current activity of the enterprises, in order to increase the competitiveness of innovative products and services on the global market.



RIS 2009-2013

3 strategic axes:

1. Supporting the innovation infrastructure, which generates added value in terms of RDI products/solutions/technologies
1. Supporting innovation in enterprises, also relying on their internationalization
1. Promoting the innovation culture at regional level

RIS 2009-2013

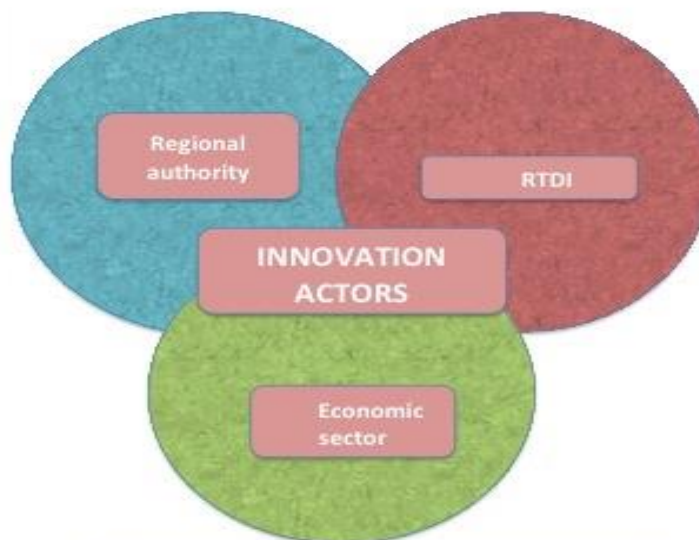
3 horizontal theme:

- *The use of instruments that are specific to the information society*
- *Human resources*
- *Eco-innovation*

Priority 1.1 The development of new services by Tehimpuls and other research and technological transfer institutions

Priority 1.3 Expanding and creating new locations for the development of innovative, knowledge-based enterprises (scientific parks, technological parks, etc.)

Priority 2.3 Providing financial support from the pre-seed and seed regional fund



Priority 1.1 The development of new services by Tehimpuls and other research and technological transfer institutions

Priority 1.3 Expanding and creating new locations for the development of innovative, knowledge-based enterprises (scientific parks, technological parks, etc.)

Priority 1.2 Encouraging sectoral enterprise association and cluster formation

Priority 1.3 Expanding and creating new locations for the development of innovative, knowledge-based enterprises (scientific parks, technological parks, etc.)

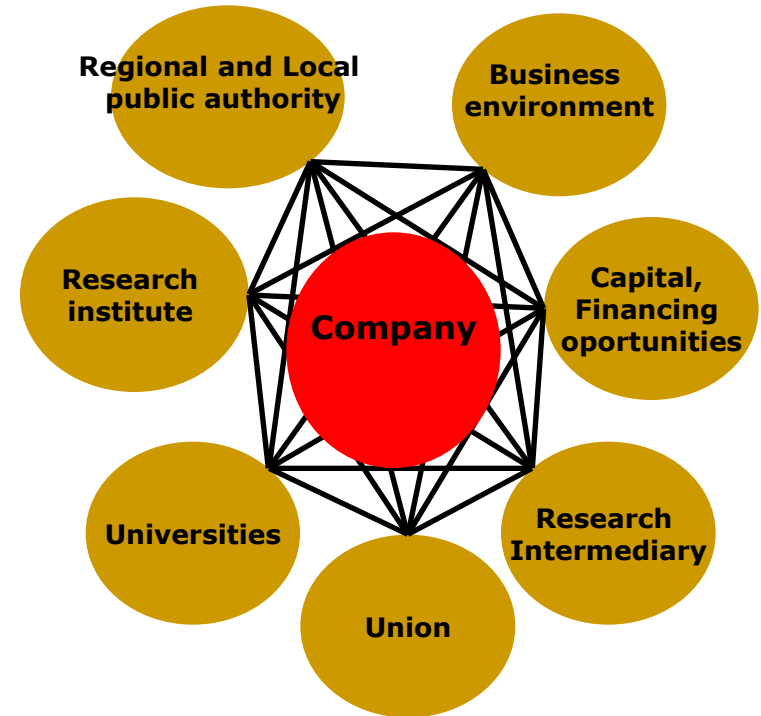
Priority 2.1 Increasing enterprise competitiveness by investing in research, development, and innovation
Priority 2.2 Creating enterprise internationalization

Outward-oriented aspects of the RIS

- Regional authority is well connected to relevant institutions outside the region: member of Innovating Regions in Europe - IRE network, Europe Innova, Smart Specialization Platform
- RIS West Region 2005-2009 was made in the same time with the South East Region from Hungary
- RIS coach for Nord-West Region Romania
- International projects: WeSteer, Before
- Partnerships with regions and institutions from Spain, Ireland, Germany, Italy, Greece

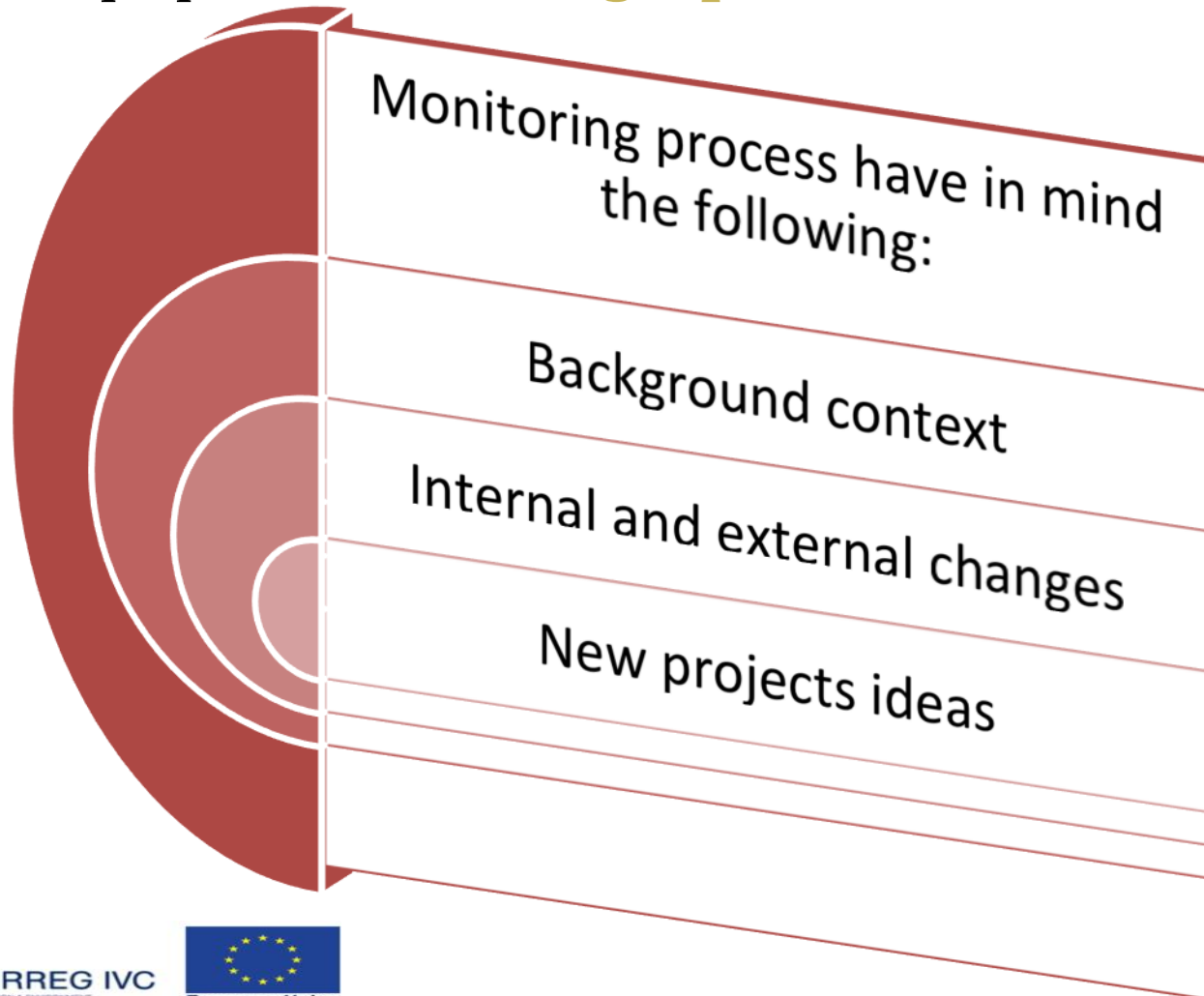
Prospects for an “entrepreneurial process of discovery”

- 50 companies are partners in the clustering activity
- 300 of questionnaires was apply to the company during the 2 sectorial studies (automotive and ICT)
- 35 audit to companies
- 20 vouchers
- 244 companies get financed from EC (Phare) and 125 companies get financed from ERDF (ROP 2007-2013)

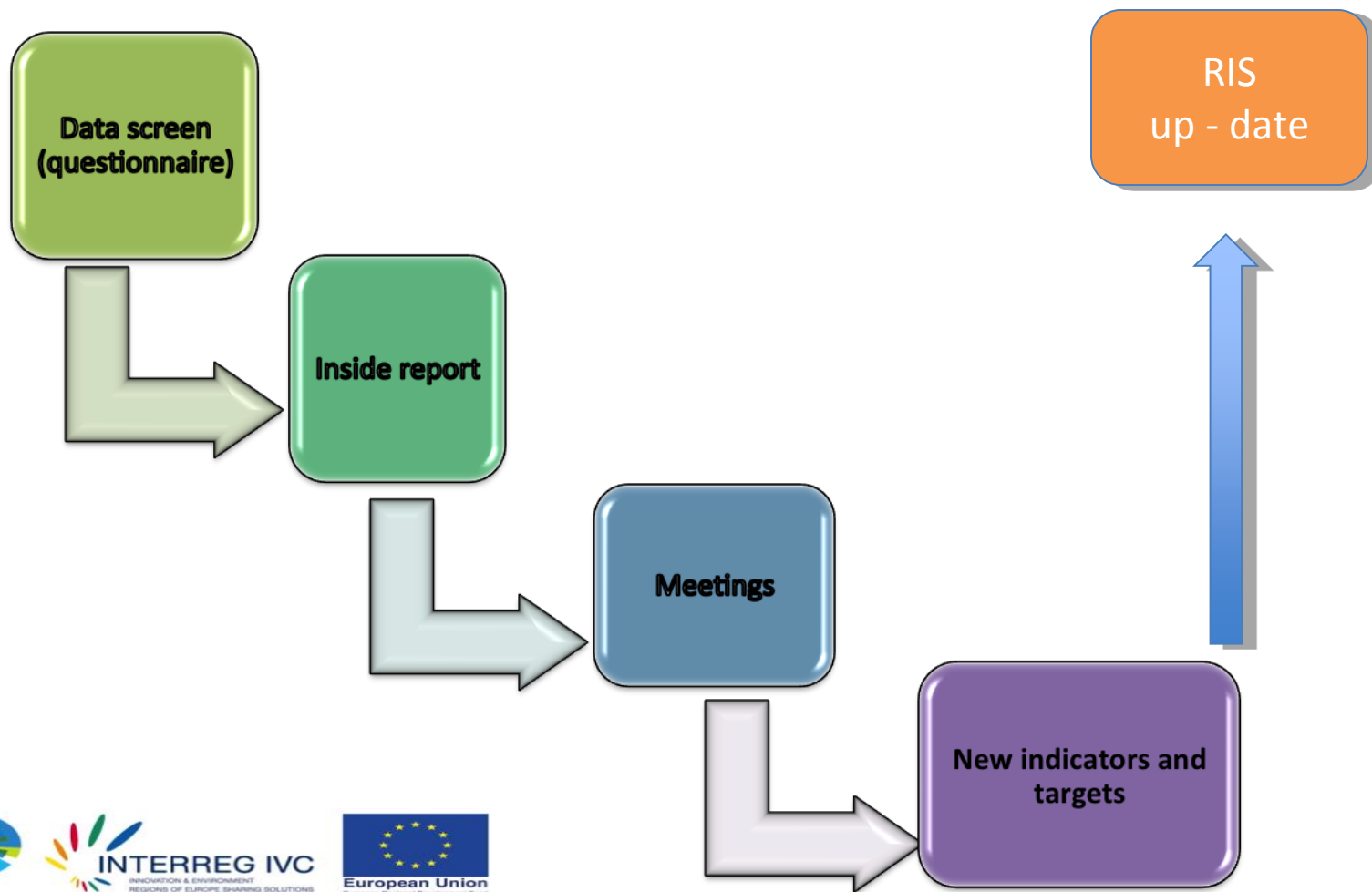


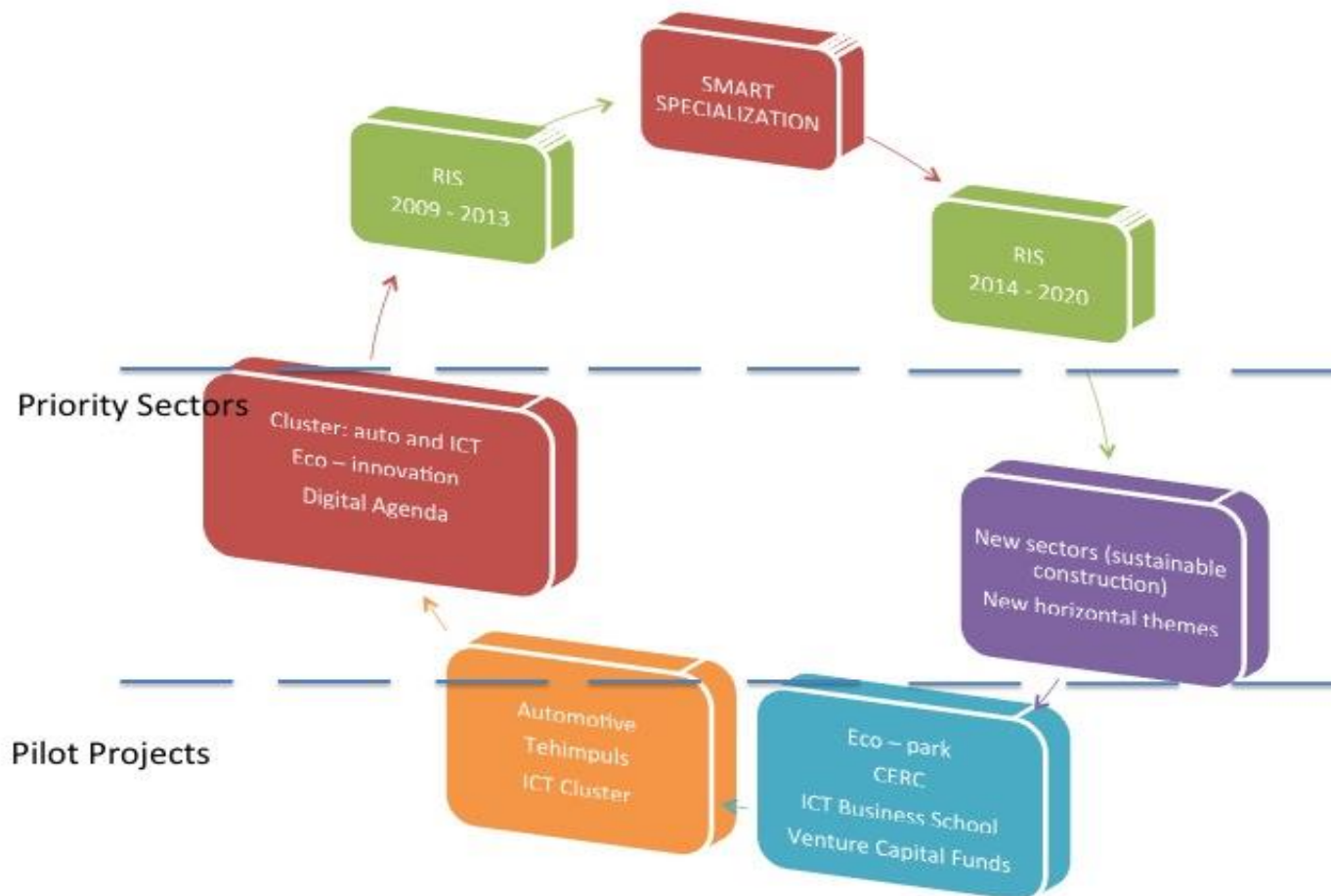
Future orientation of the S3 process

- Every year we prepare a **monitoring report**



RIS 2009 – 2013 have a **monitoring and evaluation plan**





Transnational actions with strategic foresight

- West Region wanted to develop a new RIS for smart specialisation
- Needed to develop a regional innovation strategy for smart specialisation:
 - Training
 - Foresight exercise
 - Experts
 - Twinning
 - International Projects



FRESH project:

- Contributes to smart specialisation strategies in the partner regions through the formulation of an eco innovation component, meant to reinforce the regional innovation strategies and addressing sustainable construction which, as a sector has been selected by all FRESH regions.
- Regions contextualise the eco innovation component by selecting to build on specific aspects of sustainable construction that are relevant to the regional potential.



Profile

- **Identifier:** Forwarding Regional Environmental Sustainable Hierarchies (0499 R2 FRESH); Interreg IVC; approved under the 2nd call.
- **Duration:** 5.11.2009-28.2.2013 **Budget:** 2 010 312,95€
- **Partnership:** Kainuun Etu OY-LP (FI); Joint Authority of Kainuu Region (FI); Regional Council of Päijät Häme (FI); Lappeenranta University of Technology, Lahti School of Innovation (FI), Mid West Regional Authority (IE), South West Regional Authority (IE), University of Limerick (IE), Veneto Region (IT), University of Padova (IT), London Thames Gateway Development Corporation (UK; 5.11.2009-30.6.2011), West RDA (RO), Lubelskie Voivodeship (PL).
- **Website:** <http://freshproject.eu>

SELECTION OF SUB SECTOR & RESULTS

Sustainable construction

(1) external environmental quality (site planning, landscaping of the construction waste when relevant); (2) resource consumption (energy, water, and other raw materials); (3) environmental weight (including CO2 emissions, waste management from the use phase of the construction, pollution during the construction and use phases, and ecology); (4) surface water run-off; (5) indoor environmental quality (including health and well-being); (6) service quality; (7) management quality; (8) Urban and city planning; land use planning; (9) Transports

Partner on going innovation strategy priorities

Successes 'in the field' in the region i.e. Products, services, and or R&D, and how they compare with the innovation strategy priorities

Partner region development interests, new priorities

**Sector / sub sector to focus;
Types of measurements / targets to include; types of development actions / projects to prioritise**

Cross-border network of towns





Joint development of Science and Technology Parks

- Distributed Science Park in Szeged (HU): several locations that offer research infrastructure are connected to form the infrastructure backbone of a "Science City"
- Science and Technology Park in Novi Sad (SRB): strong connection with the Faculty of Technical Sciences, University of Novi Sad



CBC AgroFood project:

The experience of Kincses Bacska AgroFood cluster was transferred to Serbia where a new cluster was created as the result of the project and a series of matchmaking events were organised in Hungary and in Serbia.

Joint initiative for cross-border cluster development in the agro-food sector by the municipalities of Baja (HU) and Kikinda (SRB) in partnership with Halo Development Fund of Vojvodina implemented with the support of the Hungary-Serbia Cooperation Programme of the EU.



INTERRIS project:

The regional smart specialization strategy of Vojvodina province has been developed in the framework of cross-border cooperation with the Regional Innovation Agency from Hungary and the expert advice from the experience of the West region was also used in the design process.

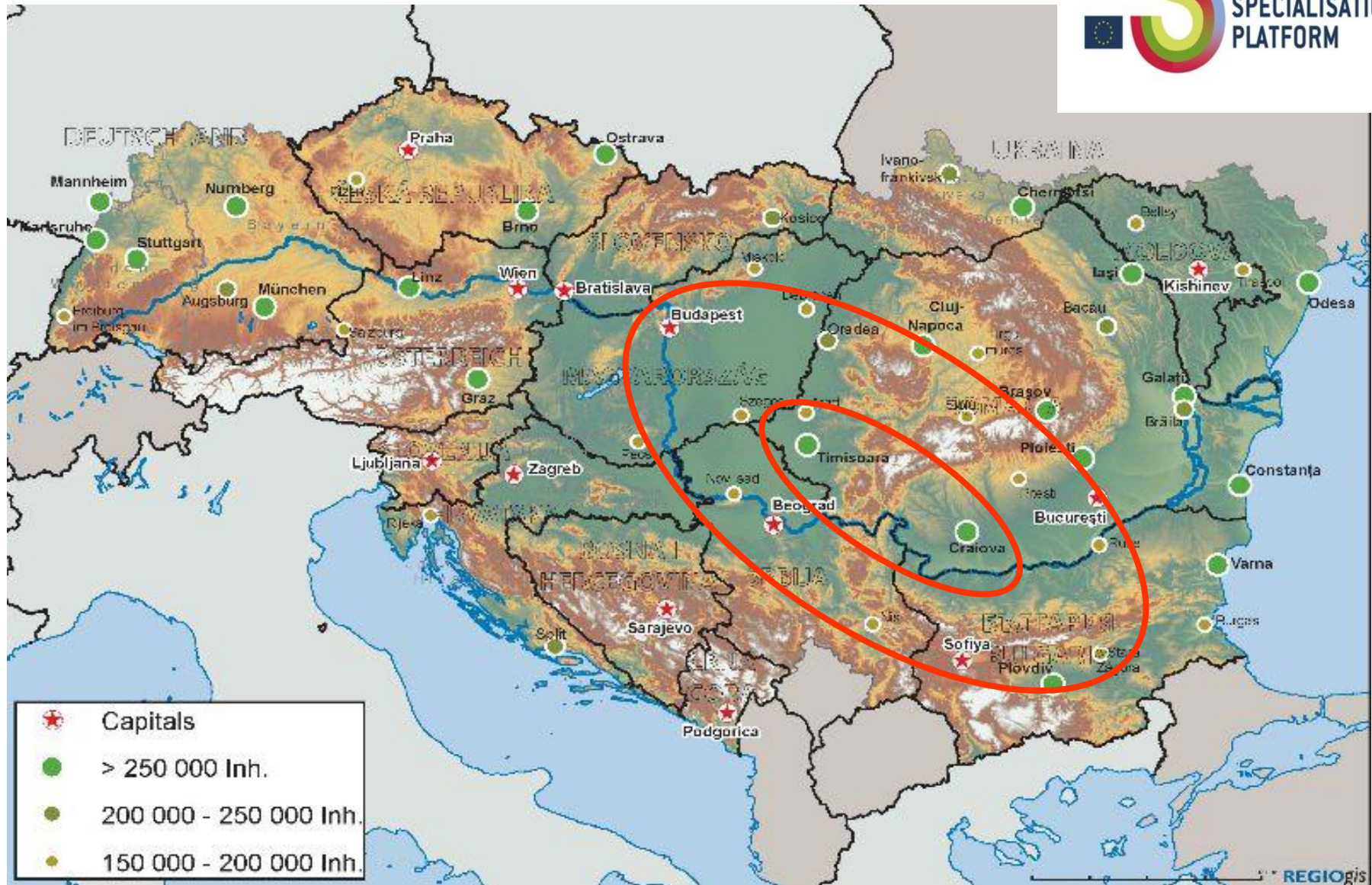
It was a joint initiative of the Information Centre for Business Standardisation and Certification in Novi Sad and the Regional Innovation Agency in Szeged, implemented by the support implemented with the support of the Hungary-Romania Cooperation Programme of the EU.



Good potential for integrated research system:

- high concentration of software development companies in Novi Sad with strong links to the local university: offer their service on regional (and international) level.
- Extreme Light Infrastructure (ELI) is under construction in Szeged: infrastructure shall be accessible to the regional research community.
- research partnership between universities and companies in the electronics industry in Timisoara: good opportunity to cooperate in research projects with partners from Hungary and Serbia.

Extended partnership in Danube region



Romanian-Bulgarian Service Centre for Microsystems and Nanotechnology



Coordinated by National Institute for Research and Development for Microtechnology in Bucharest (RO)

Partnership with local chambers of commerce --> support for **SME to access research infrastructure and human capacity**

MicroNanoTech offices at all partner institutions --> **common service offer** across national borders on the basis of **already existing available infrastructure**

Faculty of Mechanics of University of Craiova was active partner in the project --> **expertise can be transferred to RO-SRB-HU border area**



Linking initiatives within Europe Enterprise Network:

- extended cooperation via Sector Groups "Materials" and "Nano- and Microtechnologies"
- knowledge transfer via Thematic Groups "Innovation and Tehnology Transfer" and "Intellectual Property Rights"
- research partnership with KETs technology infrastructures: "Bay Zoltán Institute for Materials Science and Technology" in Budapest (HU) and "R&D National Institute for Nonferrous and Rare Metals" in Bucharest (RO)

Smart Specialisation Strategy in the West Region of Romania



Strong focus on automotive and ICT sectors -->
--> regional clusters with EEN support

Eco-innovation as horizontal issue --> "model region" initiative with the European Cluster Observatory

Key Enabling Technologies from material sciences -->
--> "Materials of the Future" initiative modelled on RO-BG MicroNanoTech project



West Regional Development Agency / Tehimpuls Association
5, Proclamatia de la Timisoara st., 300054, Timisoara, Romania
Tel. +40 256 491923; Fax. + 40 256 491981
E-mail: office@adrvest.ro; web: www.adrvest.ro; www.tehimpuls.ro; www.westregion.ro