

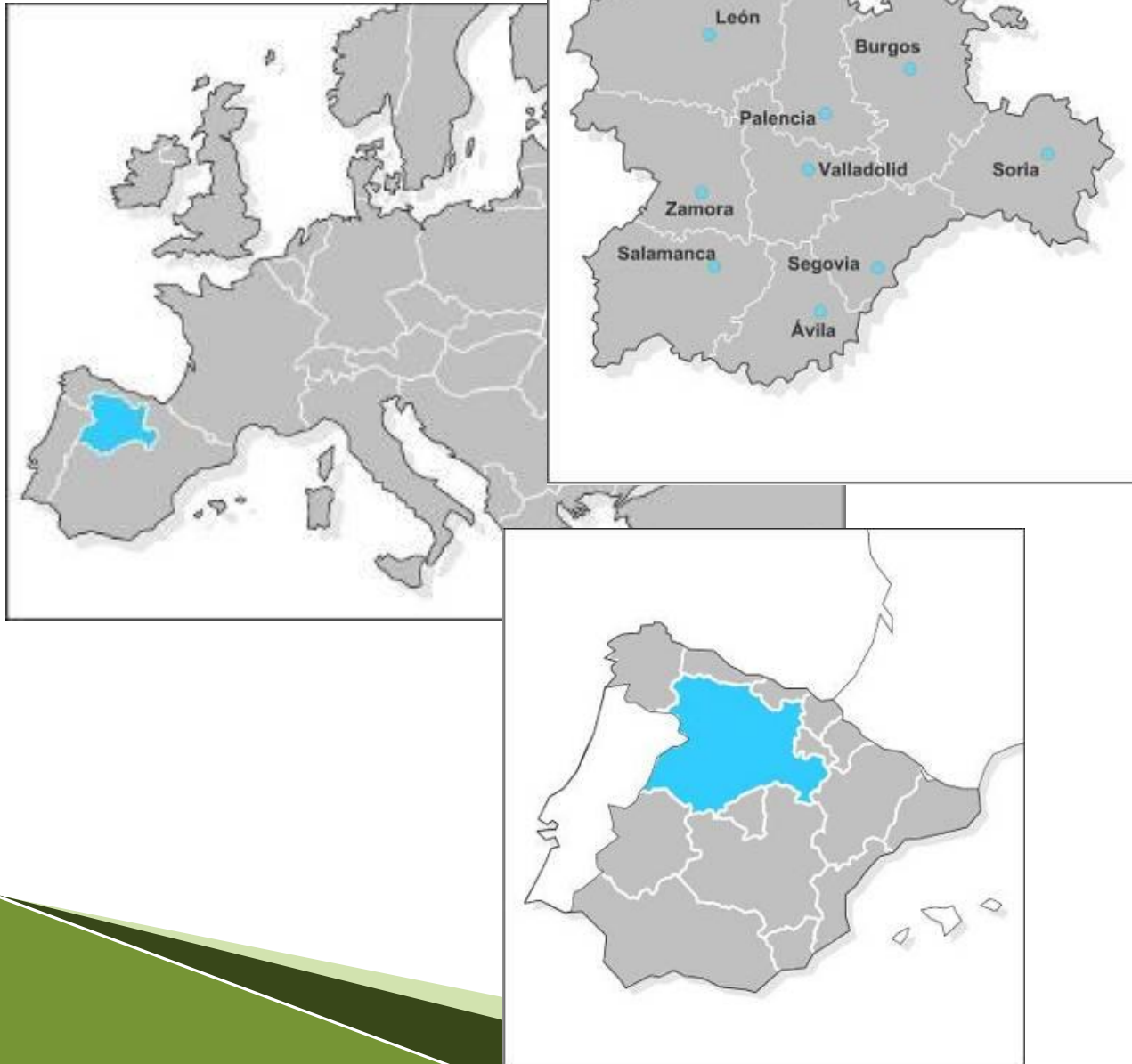
Castilla y León Entrepreneurship & Innovation: Peer Review Remix

INSTITUTE FOR BUSINESS COMPETITIVINESS OF CASTILLA Y LEÓN

competitividad
empresarial



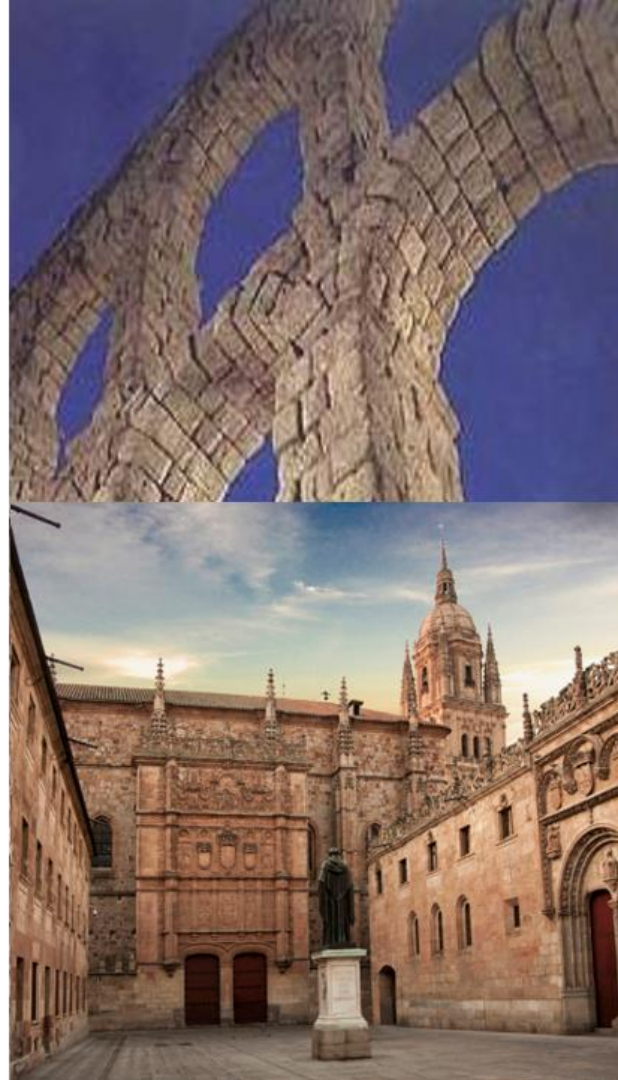
Ms. Beatriz Casado
Director of the “Innovation & Entrepreneurship” Department



Castilla y León

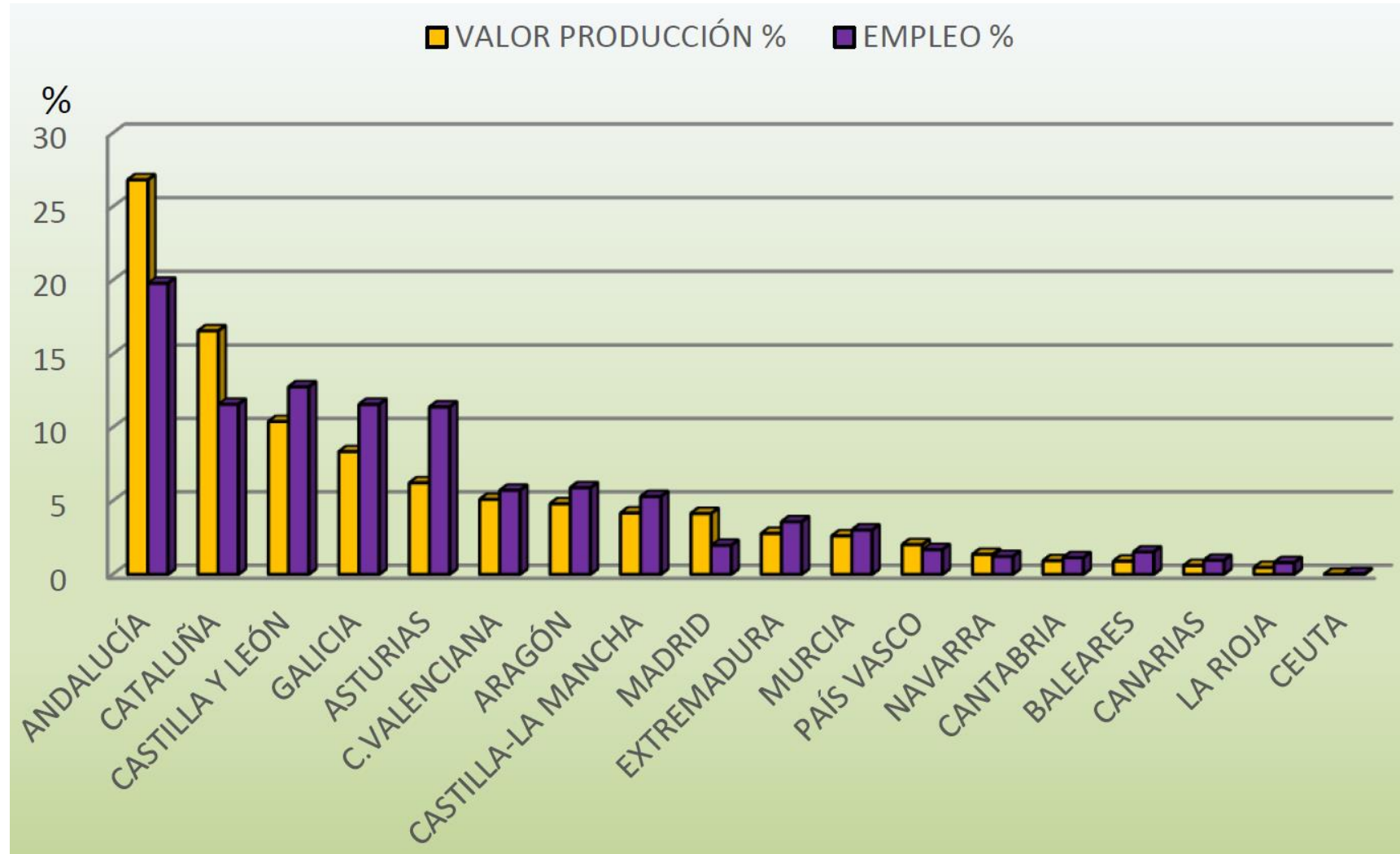
- **Land:**
 - **95,000 km²: one of the largest regions in Europe; larger than 16 Member States.**
- **Local administration:**
 - **9 provinces**
 - **2249 municipalities.**
- **Population:**
 - **2.5 million inhabitants**
 - **27 inh/km² –Spain: 89.3 inh/km²**
- **GDP per capita:**
 - **2016: 22.649 €**
 - **95% ESP; 86% UE but strong intraregional differences!**

Brief Presentation of Castilla y León





Spanish Mining sector



Value Mineral production CyL 2015: 314 M€

Mining sector represents 0,7% Regional GDP

Third position at a national level

3.715 direct jobs

468 explotations

We´re Leading

Tungsten/Wolfram 90% national production; 25% UE. Los Santos-Fuenterroble (Salamanca).

Sodium/sulfate 65% national production Belorado (Burgos)

Potassium/Feldspar 55% national production (Segovia)

Attapulгите 90% Spanish production of absorbent clay Bercimuel (Segovia)

Slate 38% national production (La Cabrera) León

Weakness

- **Large Depopulated area**
- **Ageing People**
- **Microcompanies**
- **Traditional business not very innovative.**
- **Close to other territories more attractive for young people.**

Strengths

- **Qualified personnel. Excellent Universities.**
- **High environmental and cultural attractiveness.**
- **Quality of life.**
- **Very important industrial Region**
- **Strategic location at the Peninsula.**

ECONOMIC SPECIALISATION PATTERN

- Food and agriculture industry
- Automobile industry, Components, and Equipment
- Health Care and Quality of Life
- Tourism, Heritage, and Spanish Language
- Energy and Industrial Environment
- Habitat

SCIENTIFIC SPECIALISATION PATTERN

- Medicine
- Agriculture, Biology, and Veterinary Sciences
- Chemistry and Material Sciences
- Earth and Environmental Sciences
- Engineering

TECHNOLOGICAL SPECIALISATION PATTERN

- Advanced Materials
- ICT
- Biotechnology
- Advanced Processes and Manufacturing

THEMATIC PRIORITIES

1. **Agriculture and Food Industry** and **natural resources** act as catalysts for the expansion of innovation throughout the region.
2. Productive efficiency in transport sectors such as **Automobiles manufacturing and Aeronautics, making materials and components the keys to leadership and sustainability.**
3. Application of knowledge and technology **in health and social care, demographic change and well-being** for the improvement of citizen quality of life.
4. **Natural Heritage, Cultural Heritage, and Spanish Language**, internal resources that are the base for regional sustainability.
5. R&D in **Information and Communication Technologies, Energy & Sustainability** for comprehensive global competitiveness based on cross-cutting technology and knowledge.



Ministry of Economy and Finance

Presidency
M^a del Pilar del Olmo Moro

**GENERAL
DIRECTORATE**
Jose M^a Ribot García

**General
Secretary**

Comunicación

Territorial Delegations

- Human Resources Area
- Administration Area
- Contracting Area
- Institutional Coordination Area
- Legal Advice Area

**Innovation and
Entrepreneurship**

Financing

Internationalisation

Industrial Soil



Retain and Attract Talent

Promote new creative companies

**Boost innovative business based on the
emergence technologies**

**Accelerate the transformation and
technological adaptation of our
companies.**

**Promote all the entrepreneurs comes
closely linked to innovation**

Entrepreneurship and Self Employment

Innovative

**Inclusive and self-
employment**

Social

Rural

**Companies and Self
Employment
Consolidation**

Innovation and Technology Transfer

**Companies
Innovation**

**Technology
Leadership**

Technology Transfer

Innovation sites

Sectorial Specialization

Clusters

Industry 4.0

Bioeconomy

Competitiveness and Rural Entrepreneurship

Rural Areas Action Plan

**Innovation and Rural
Competitiveness**

**Rural Companies Growth
and Diversification**

**Special Plan for
Revitalization**

**Castilla y León
Regional
Government**

**Public and
Private
Universities**

**Cluster and
Technology
Centres**

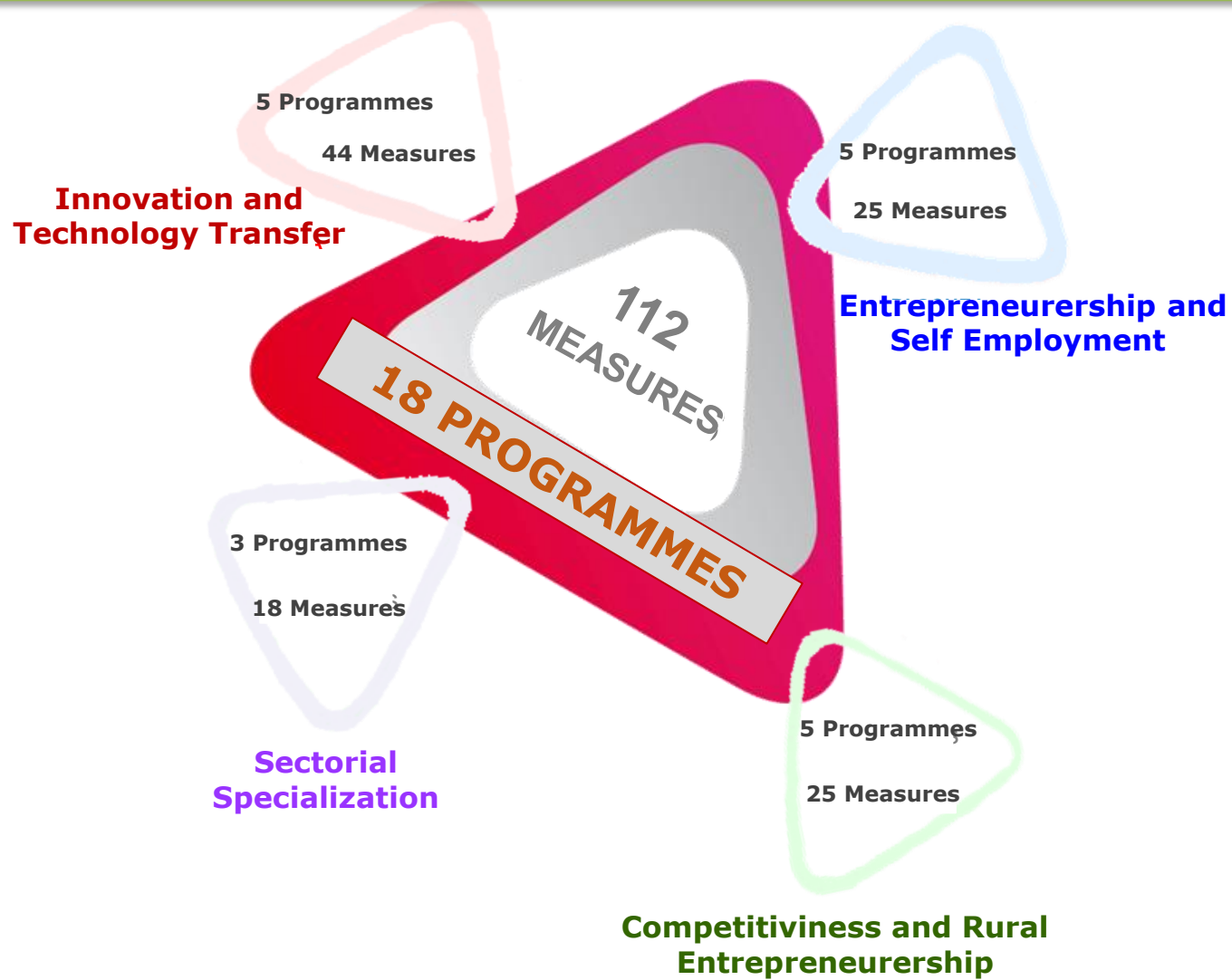
**Tractor
companies**

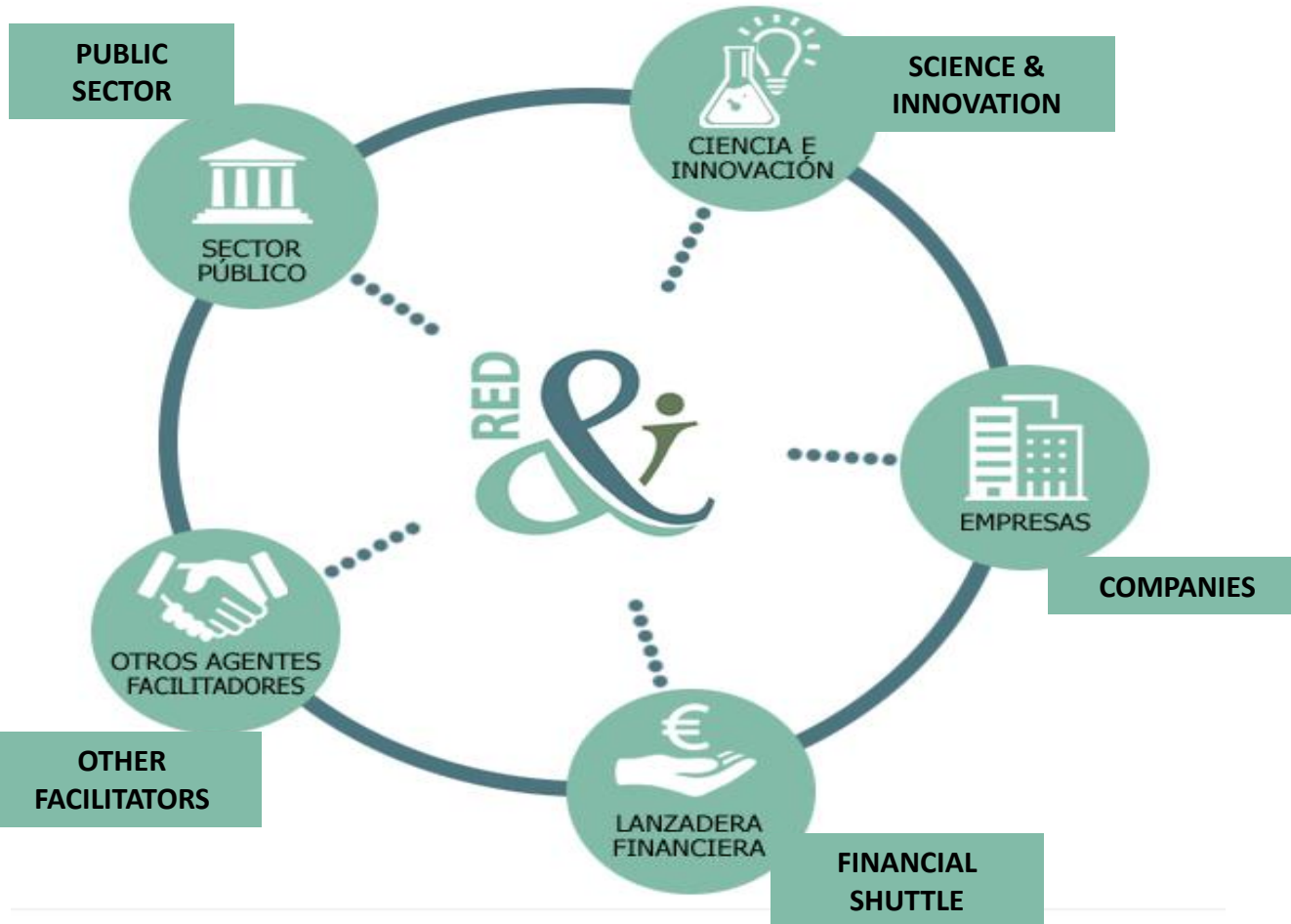
**Other regional
agents: chambers,
family business...**

**Innovation
agents: CDTI,
RTDs, etc**

**Local
Administration:
councils,
municipalities...**

European Projects





<http://www.redei.es/>

- The Network seeks to generate a community open to entrepreneurship, talent and innovation through public-private partnerships, the strengthening of inter-sectoral relations, the interconnection of its partners to generate new value projects and the inclusion of innovation as a driver for any kind of entrepreneurship.
- More than 100 members.



ENTREPREUNERSHIP & INNOVATION NETWORK

PUBLIC ADMINISTRATION: National, regional and Local Administration

SCIENCE AND INNOVATION: Universities, clusters, technological centers



COMPANIES: Big companies, SMES, Self employment, entrepreneurs

OTHER ECONOMIC ACTORS: Foundations, Associations,...

FINANCIAL SHUTTLE

Working Groups



Red de
**Emprendimiento
e Innovación**
de Castilla y León





Promoting networking and collaboration
Informing Companies
Integrating Castilla y León into an international mining network

**Companies, Administration,
R&D entities, Associations**



Main Objectives:

- 1.- Promote innovation to change the production model of Castilla and Leon**
- 2.- To promote the development of the ICT aligned with the Digital Agenda for Europe.**
- 3.- Promote the sustainability of enterprises, especially those with a high innovative component and creation of new bussiness.**
- 4.- Increase the use of renewable energy resources.**
- 5.- Contribute to enviromental protection.**

TOTAL BUDGET 628,8 M€

Priority Axes managed by ICE

- **Axis 1 To improve research, technological development and innovation 184 M €**
- **Axis 2 Improve the use and quality of the ICT and access to it 49,3 M €**
- **Axis 3 Improve the competitiveness of the SMEs 177,8 M€**

TOTAL BUDGET ICE 350 M €

➤ **Call for projects to encourage the adoption and implementation of the Industry 4.0 in different productive sectors of Castilla y León.**

1. AID TO PROMOTE INNOVATION (INNOVATION VOUCHER).

- Innovation Audits prior to the implementation of technologies included in Industry 4.0. They identify the specific technologies and investment needs or additional plans that would be required.

2. INCORPORATION OF ICT IN SMES (ICT + TRANSFER VOUCHER).

- Implementation projects and adaptation of ICT solutions to enterprise management processes related to Industry 4.0, e-commerce and digital marketing, ICT Applications for Internet of the Future among others.
- Facilitate the knowledge 4.0 transfer from research organizations to SMEs in Castilla y León.

3. AID FOR THE DEVELOPMENT OF THE ICT INDUSTRY.

- Experimental development projects aimed at developing new digital solutions, and preparing new prototypes before the start of the industrial exploitation and marketing or developing new functionalities on existing products for Industry 4.0, Internet of the Future, etc.

4. AID FOR INVESTMENT PROJECTS OF SMEs.

- Investment projects to expand production capacity and/or product diversification and transformation processes in the framework of Industry 4.0.

5. AID FOR ENTREPRENEURS.

- Investments in tangible and intangible assets necessary for the launch of a new activity for entrepreneurs in Castilla y León.



- **Call for projects to encourage the adoption and implementation of the Industry 4.0 in different productive sectors of Castilla y León.**

6. AID FOR R&D PROJECTS

- Industrial research and experimental development projects, both individually and in cooperation, with the objective to establish or improve from the technological point of view, production processes and/or specific products.

7. R&D PROJECTS, ERANET NETWORKS (INTERNATIONAL COOPERATION)

- Industrial research or experimental development project in international cooperation (ERANETS) in manufacturing processes (MANUNET), new materials (MERANET), **Mining (ERAMIN)** and food and agriculture (SUSFOOD).



- **BUDGET 2017-2019:** 5.0 M€ autonomous fund.
- **OBJECTIVE:** Entrepreneurial R&D&i training and support
- **Developed in collaboration with the Castilla y León' Technological Centers.**
- 5 axes:
 - ✓ To advice and help SMEs to incorporate processes' innovation and products/services' design.
 - ✓ To foster the use of ICT by SMEs.
 - ✓ To incorporate SMEs to the Industry 4.0.
 - ✓ **To foster international knowledge transfer and R&D&i internationalization.**
 - ✓ Technical feasibility assessment of new products/processes.



Red de
Emprendimiento
e Innovación
de Castilla y León

Programa Centr@Tec

Programa de **Capacitación y Apoyo** a la I+D+i Empresarial "Centr@Tec" del Instituto de Competitividad Empresarial (ICE) en colaboración con Centros Tecnológicos de Castilla y León, que forman parte de la Red de Emprendimiento e Innovación de Castilla y León (www.redei.es)

competitividad
empresarial ice

Junta de
Castilla y León



ERA-NET Cofund on Raw Materials (ERA-MIN 2) is public-public partnerships funded under Horizon 2020. ERA-MIN 2 aims to implement a European-wide coordination of research and innovation programmes on raw materials to strengthen the industry, competitiveness and the shift to a circular economy.

2017 – Joint Call co-funded by European Commission:

- **Participants: 18 countries/regions (14 EU MS/Associated + 4 international countries)**
- **Call budget: EUR 11 - 11.5 Million**
- **EU co-funding: EUR 5 million (to top-up transnational projects)**

2018 and 2019 – TWO joint transnational calls without EC co-funding

- **Open to participation to funding organisations from countries across the globe.**

5 TOPICS

- Supply of raw materials from exploration and mining
- Design
- Processing, Production and Remanufacturing
- Recycling of End-of-Life Products
- Cross-cutting topics:
 - ✓ New business models,
 - ✓ Improvement of methods or data for environmental impact assessment,
 - ✓ Social acceptance and trust/public perception of raw materials.

Operational Principles:

- Focus on Bottom Up Local Strategies and endogenous sectors.
- SMEs as a main target.
- Raising awareness to foster a participative process.
- Customized training and projects (Bank of projects).
- Going beyond technology. Sectoral diversification and value chain approach.
- Cooperation with local Stakeholders.

**Mining sector fix population and
create wealth in rural territories**

Mining Territories

Objectives

- Generate new business opportunities
- Create employment and to promote the social entrepreneurial ecosystem
- To enhance the competitiveness of the companies

Functioning

- Bottom up Initiative
- Agreement with all the actors and the Regional Government.
- 3 Local Offices
- New and Specific funds.
- Supported by FEAG.
- Customized services, training, financing
- All the stakeholders involved
- Working with specialists in rural development



Thank you very much for your attention

Gracias!

INSTITUTE FOR BUSINESS
COMPETITIVENESS OF CASTILLA AND LEÓN