Making Innovation Happen

Dr Karen Hanghøj
CEO, EIT RawMaterials
Ulcinj, 9 April 2019

The Research and Innovation Landscape. European Institute of Innovation and Technology and the *Knowledge ad Innovation Communities*

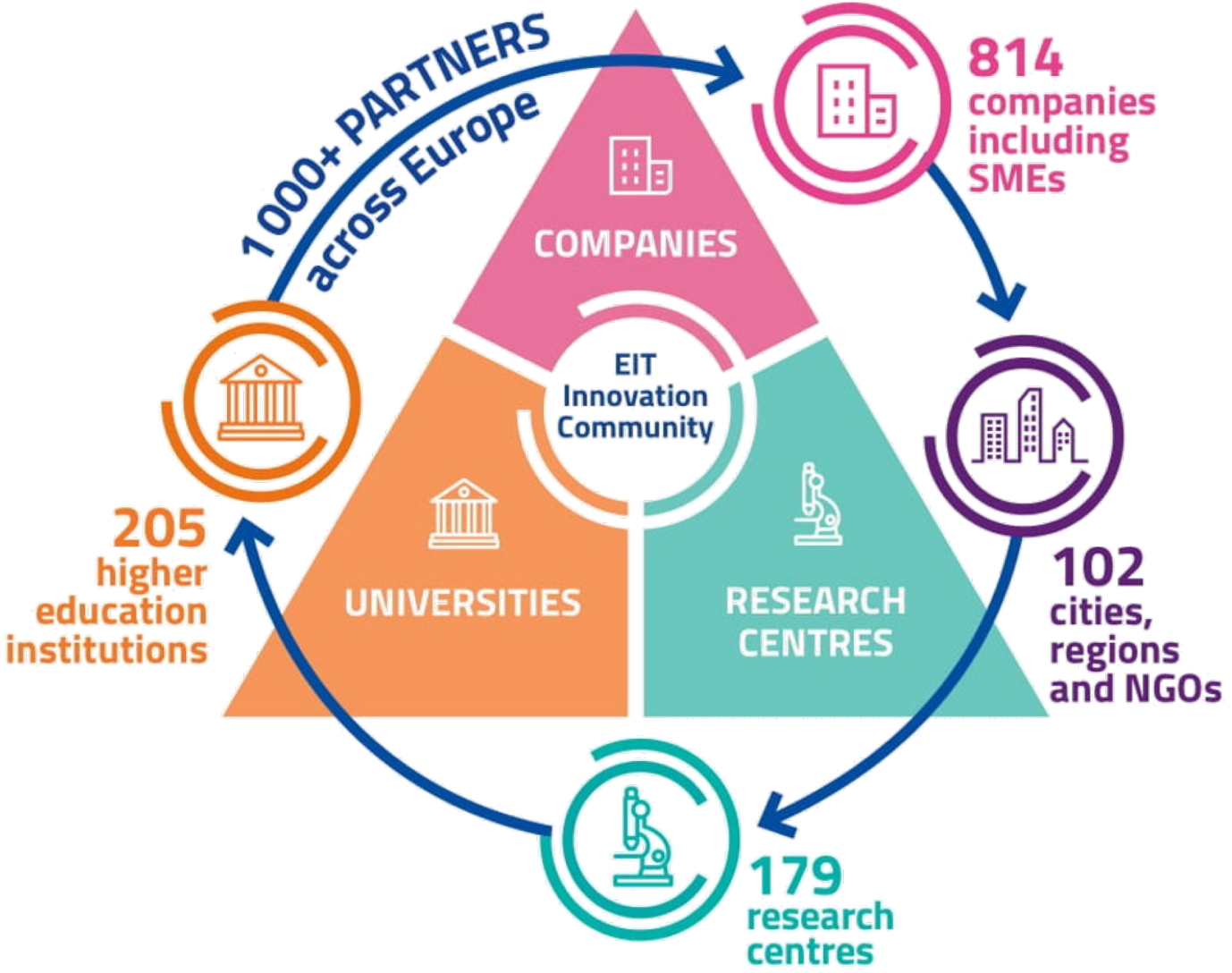


Karen Hanghøj
EIT RawMaterials

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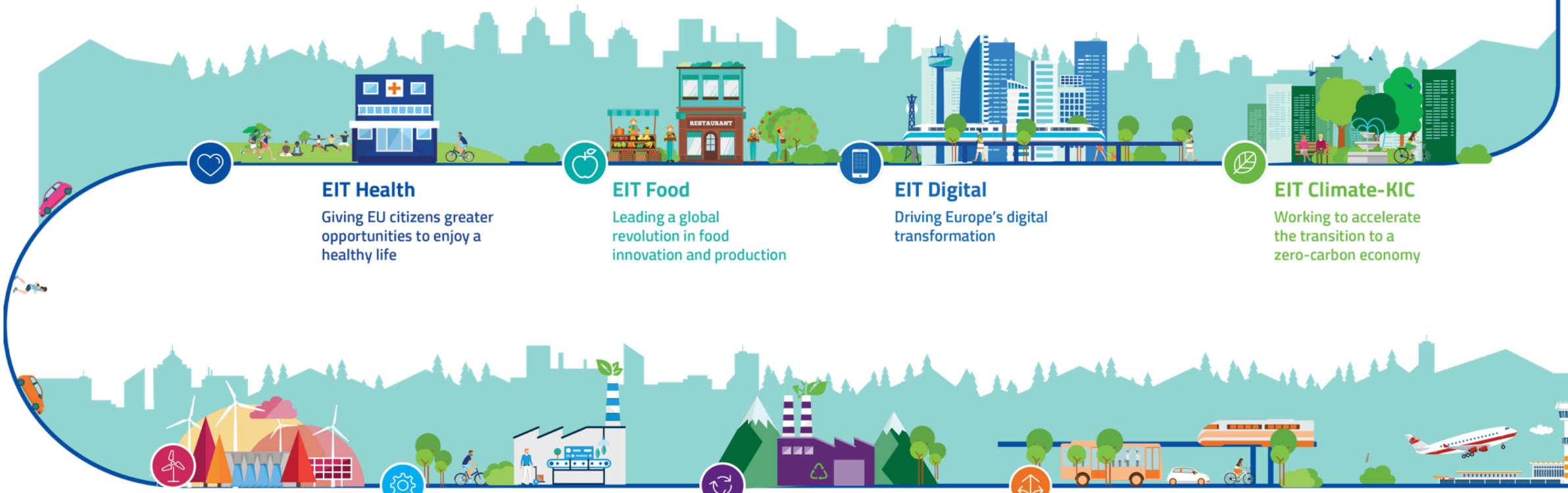
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Europe's largest innovation community



eit European Institute of Innovation & Technology

EIT Innovation Communities



EIT Health
Giving EU citizens greater opportunities to enjoy a healthy life

EIT Food
Leading a global revolution in food innovation and production

EIT Digital
Driving Europe's digital transformation

EIT Climate-KIC
Working to accelerate the transition to a zero-carbon economy

EIT InnoEnergy
Achieving a sustainable energy future for Europe

EIT Manufacturing
Strengthening and increasing the competitiveness of Europe's manufacturing industry

EIT RawMaterials
Developing raw materials into a major strength for Europe

EIT Urban Mobility
Smart, green and integrated transport

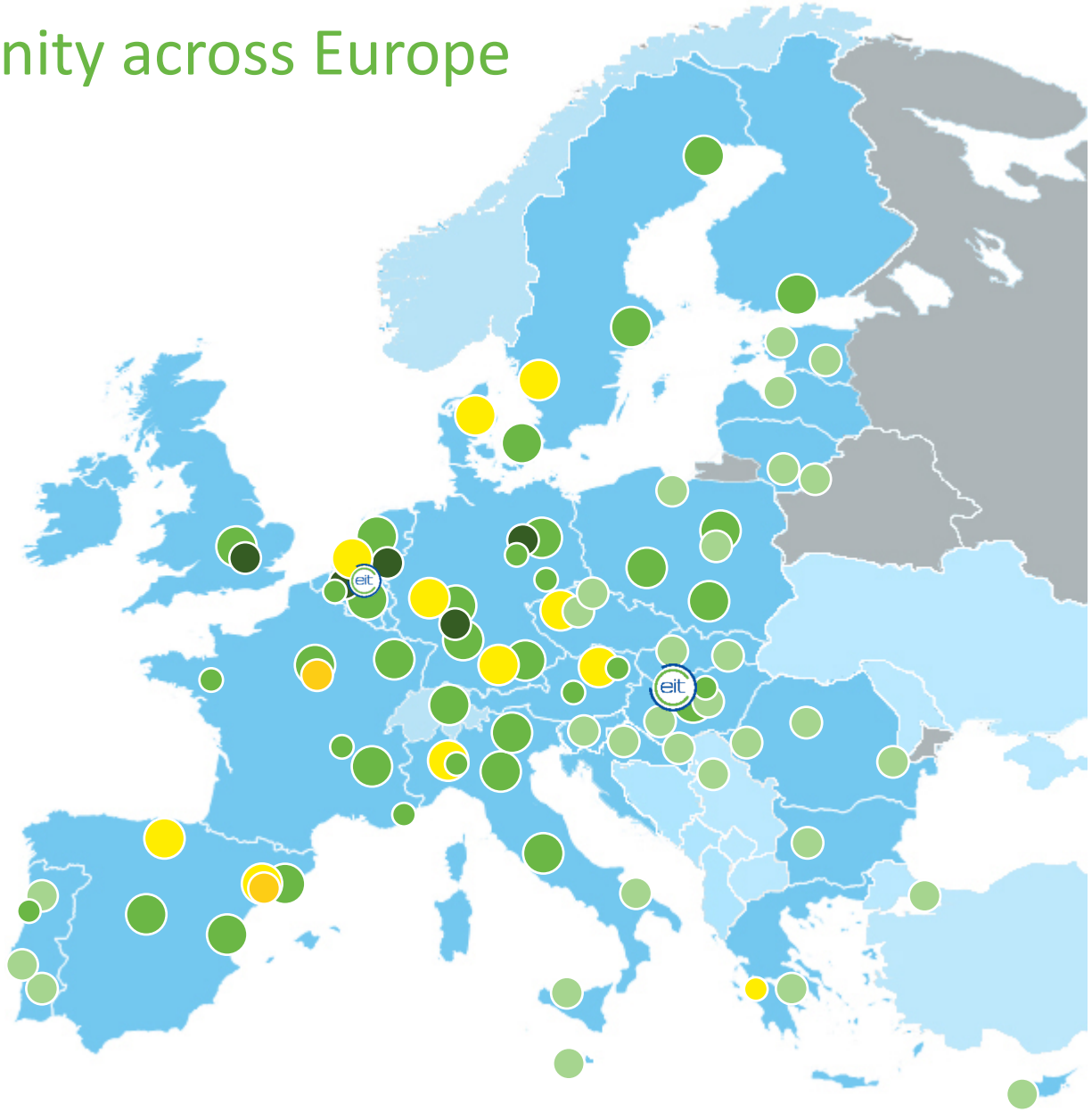
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EIT Community across Europe

- Headquarters
- Innovation Hubs
- Offices
- EIT RIS Hubs

Newly selected Innovation Communities

- Headquarters
- Innovation Hubs
- Offices



European Institute of Innovation & Technology

EIT RawMaterials A knowledge and Innovation Community

Vision:

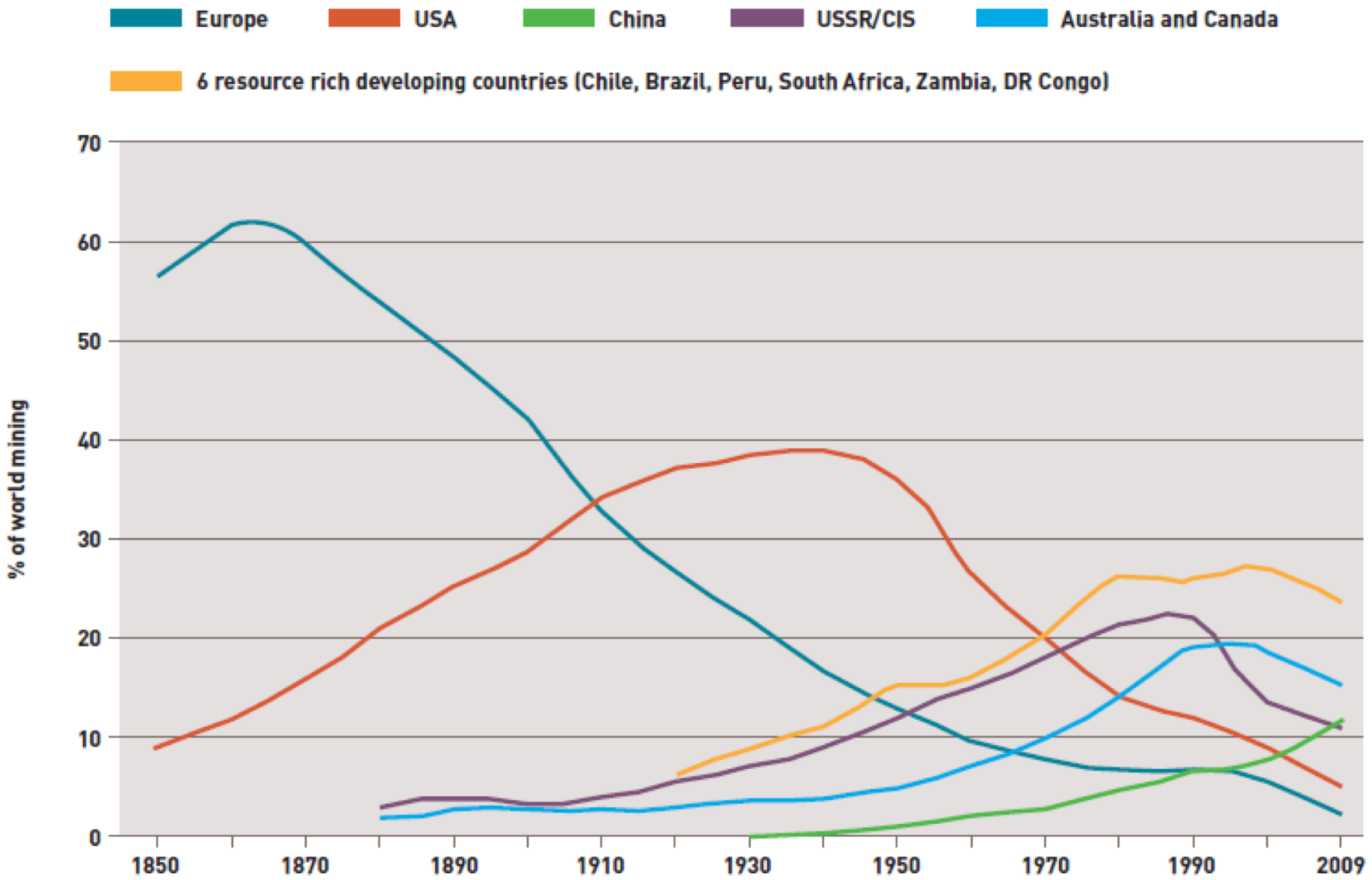
To develop raw materials into a major strength for Europe

The mission of EIT RawMaterials is to enable sustainable competitiveness of the European minerals, metals and materials sector along the value chain by driving innovation, education and entrepreneurship

- Securing raw materials supply
- Designing materials solutions
- Closing material loops

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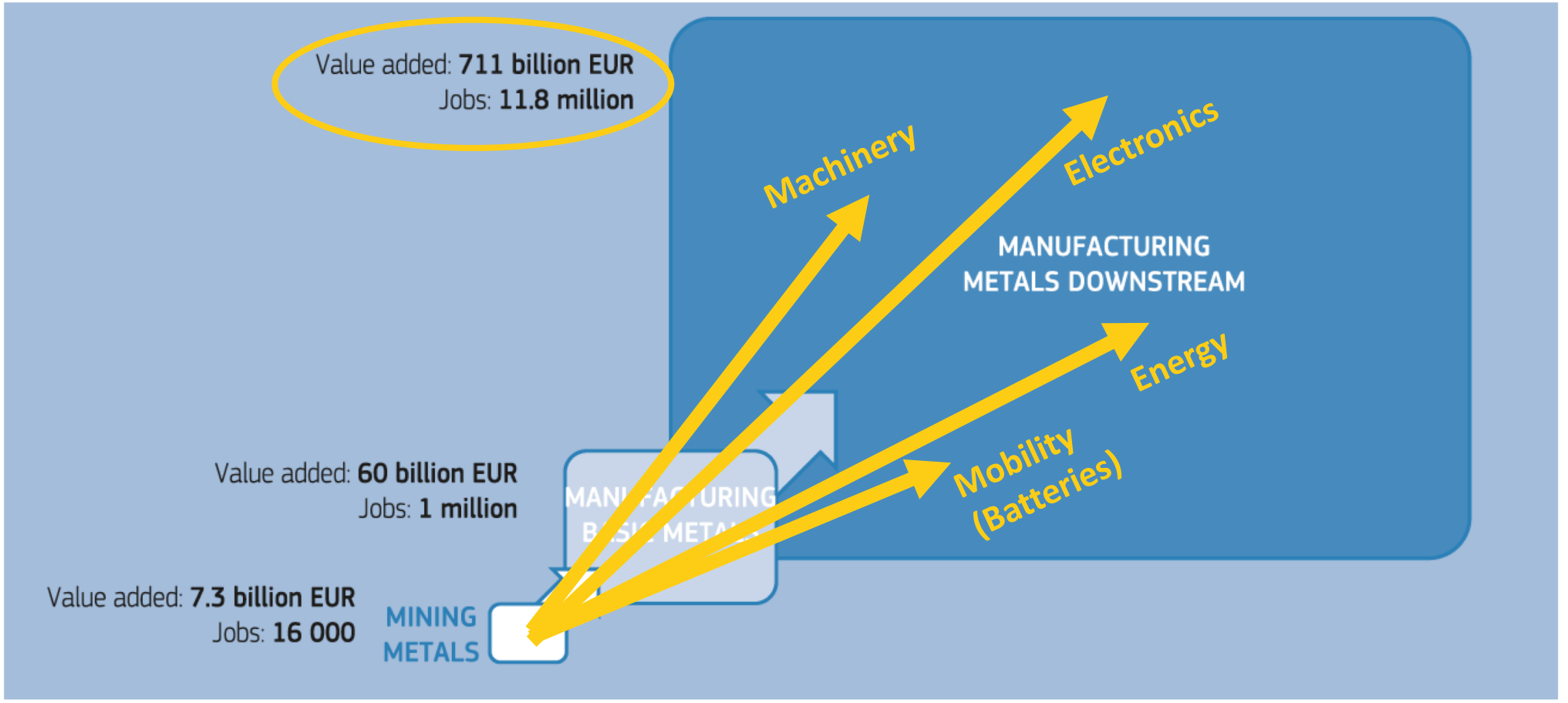
Mining regions 1850 - now



Source: Raw Materials Group, Stockholm, Sweden.

Raw Materials as key enabler for sustainability and jobs and growth in Europe

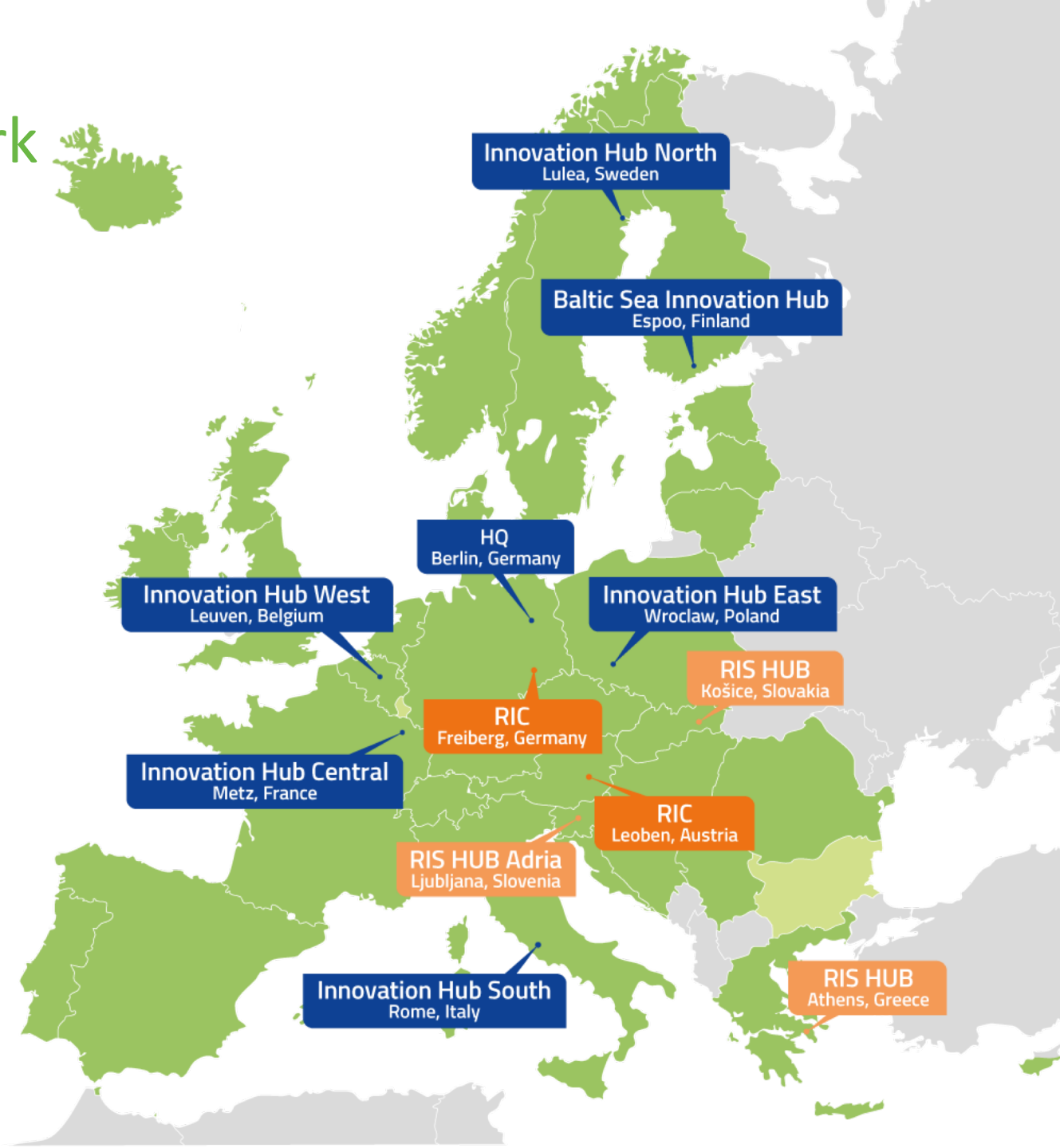
Figure 19: Value added and number of jobs associated with metals (mining, basic manufacture and downstream sectors) in the EU (2012)[82]



Source: JRC

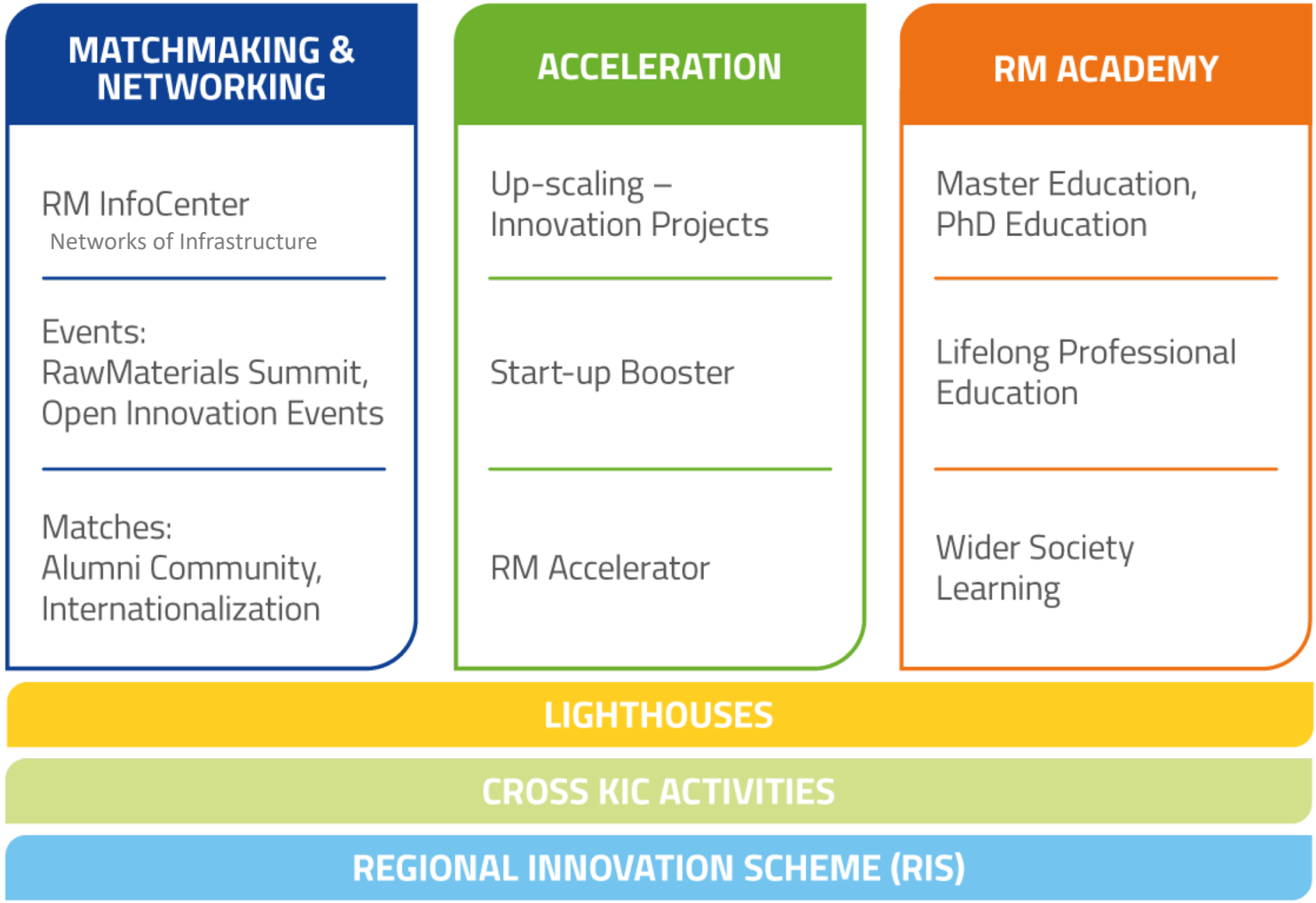
A pan-European partner network

- 126 partners Core and Associate
- 190 + Project partners
- 6 Co-location Centers (Innovation Hubs) across Europe
- Three Regional Innovation Hubs and two Regional innovation centers (RIS and RIC)
- Headquarter in Berlin, Germany
- 7-year budget for innovation and education ~400 MEUR



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EIT RawMaterials 2019. ~200 partner-led projects. 93MEUR



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Scope: The Raw Materials Value Chain and Circular Economy



RIS-ALiCE - Al-rich industrial residues for mineral binders in ESEE region

Background and motiviation

- Large amounts of various Al-rich residues with low recycling rate or landfilled in RIS countries have high Secondary RM potential
- Promising way of recycling these waste is the production of the new generation of mineral binder (Al-rich)
- An increased demand for Al-rich resources (such as valuable bauxite)





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RIS-ALiCE - Al-rich industrial residues for mineral binders in ESEE region

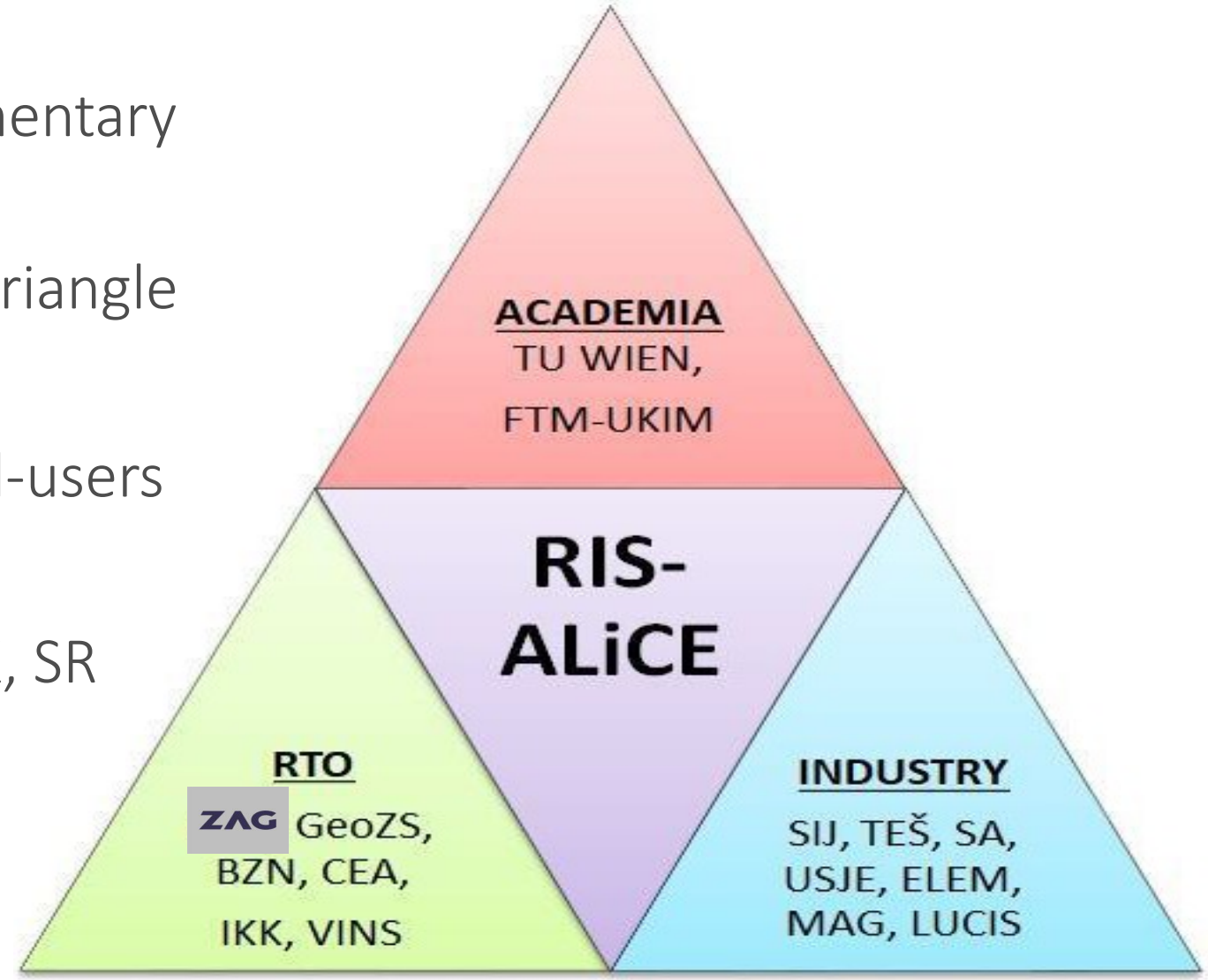
Project aims

- To contribute to the increased **innovation potential and competitiveness** of the ESEE region
  - To create a **network** of relevant stakeholders in the area of currently unused Al-rich residues
  - Al-rich residues will be **mapped and valorised** with respect to their use for innovative and **sustainable low-CO_2** mineral binder production
  - Long-term activity of network between waste holders/producers and mineral end-user will be enabled via developed **Al-rich residues registry**

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RIS-ALiCE - Al-rich industrial residues for mineral binders in ESEE region

- multidisciplinary and complementary consortium
- three sides of the knowledge triangle
- 15 partners
- waste holders and mineral end-users
- 7 countries
- 5 RIS countries SI, HU, BiH, MK, SR



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Circular Economy is not the goal



SUSTAINABLE DEVELOPMENT GOALS





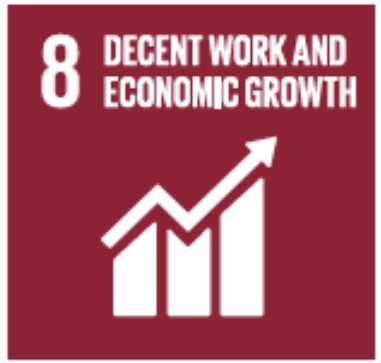
































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Thank you for your attention

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