EIT Climate-KIC
Re-industrialise flagship
Sarah Teller-Tokarska | Geneva | 25/09/2018
EIT Climate-KIC is a European knowledge and innovation community working to accelerate the transition to a zero-carbon economy through whole systems transformation.

EIT Climate-KIC is part of the European Institute of Innovation and Technology (EIT) and the EIT community. We are one of six KICs acting together as global innovation leaders, delivering world-class solutions to societal challenges.
Impact Goals

**Urban Transitions**

- **Goal 1** Promote retrofit and decentralised energy
- **Goal 2** Create green, resilient cities
- **Goal 3** Accelerate clean urban mobility

**Sustainable Land Use**

- **Goal 4** Make agriculture climate-smart
- **Goal 5** Transform food systems
- **Goal 6** Nurture forests in integrated landscapes

**Sustainable Production Systems**

- **Goal 7** Recast materials production
- **Goal 8** Reduce industry emissions
- **Goal 9** Reboot regional economies

**Decision Metrics and Finance**

- **Goal 10** Mainstream climate in financial markets
- **Goal 11** Democratise climate risk information
- **Goal 12** Foster bankable green assets in cities
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Goal 9
Reboot regional economies
Re-Industrialise

An innovation and transformation programme addressing the risks regions with high-emitting industry clusters face during their transition to carbon neutrality.
Re-Industrialise – Project partners (2018-2020)
Re-Industrialise – The mission

**Goal:** Develop solutions applicable across Europe that align decarbonisation with economic development

- Helping regions with high-emitting industry clusters to reduce risks of the environmental transition away from carbon-intensive activities
- While accompanying economic transition by helping identify and create alternative transition paths

Support regional/local authorities, development agencies and companies in European regions with high-emitting industry clusters

Develop and roll-out their transition to low carbon economies by helping identify and create alternative transition paths

Maximising economic, environmental and social opportunities by supporting innovative solutions
Re-Industrialise

Flagship


Supporting public authorities, development agencies and companies within energy and resource-intensive European industrial regions to develop transition roadmaps towards a low-carbon economy. The transformation pathways will specifically aim at maximising economic, environmental and social opportunities. The Flagship will support innovative solutions at the interface of economic development and decarbonisation.
Supporting smart diversification of the Silesian industrial base

Partners: WiseEuropa – Climate Strategies

Leveraging existing regional expertise to replace high-carbon technologies with new, low-carbon market opportunities in Silesia, one of the largest coal mining regions in the EU. The project will enable interaction and cooperation between regional stakeholders and climate-friendly innovation businesses.

Possible locational effects of deep decarbonisation of basic industries

Partners: Wuppertal Institute – Lund University

Expanding an existing energy model for the steel industry to include transport and energy supply infrastructures, and costs at specific sites. The project will specifically analyse place-based impacts resulting from deep decarbonisation strategies across Europe.
Gela – The urban curation of industrial transformation

Partners: TU Berlin – Austrian Institute of Technology

Identifying, addressing and enabling local stakeholders to participate in the redevelopment process of urban economies. The project will base its work on the city of Gela in Italy, that had relied for decades on an energy-intensive industry as the single provider of economic prosperity and labour.

Smart Transitions

Partner: The University Court of the University of Edinburgh

Identifying, adapting and applying existing smart specialisation tools for regions, to include decarbonisation as a parameter. The project will specifically focus on two high-emitting EU regions, in the United Kingdom and Poland.
HyDistrict

Partner: ENGIE

Preparing a platform for a hydrogen-based industry in North Rhine-Westphalia, developed by EIT-Climate KIC partner ENGIE, in collaboration with Innovationsregion Rheinisches Revier and HyCologne Wasserstoff Region Rheinland. The project flags barriers and opportunities to overcome obstacles, by assessing the behaviour of local players and their needs to prepare their decisions regarding hydrogen-based alternatives.
Stay tuned with Re-Industrialise

Sign up for the mailing list

or visit us at: www.climate-kic.org/re-industrialise

or meet us at:

Region’s Week in Brussel on October 10th 2018, 5pm
An innovation and transformation programme addressing the risks industrial areas face during their transition to carbon neutrality, ensuring that environmental progress can be made in an inclusive and prosperous economic context.
Re-Industrialise – How to reach our mission

**Goal:** Support experimentation and accelerate promising ideas

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**EU Level**

Re-Industrialise Knowledge-Hub
Feeding experiences with innovation obstacles/drivers in industry regions into EU policy discourse

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**Focus Regions**

**Building Knowledge for Action**
- Filling knowledge gaps through methodologies, tools, assessments, stakeholder processes etc.
- Empowering staff of companies and authorities
- Customised consultancy services

**Initiating and Rolling-out Innovation**
- Conduct feasibility studies/pilots to test business cases
- Develop support schemes with reg. authorities
- Realising training/re-skilling programmes

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2 Focus regions for 2018/19 – North Rhine Westphalia

- **Industrial region**: Germany’s largest lignite mining area (Rhine district/Rheinisches Revier)

- **Densely populated**: (17.5 million inhabitants) => strong social lever

- **Carbon intensive**: Ca. 30% of Germany’s gross electricity generation (nearly 80% coal based)

- **High pressure to act**: One third of German GHG emissions (6th largest emitter compared to EU member-states)

- **Strong and diversified industry base**: 40% of German energy consumption => high concentration of problem owners

- **Well-developed innovation system**: but strong path-dependencies and powerful interests slow down transformation => need to move towards implementation
2 Focus regions for 2018/19 – Silesia, Poland

• **Urban Industry Region:**
  Silesia Region, or “Śląskie Voivodeship” is the most urbanized province in Poland with a strong industry base.

• **Silesia is economically strong**
  GDP is above national average
  Unemployment rate is slightly below national average

• **Depopulation:**
  in the last 15 years population has decreased by 4% (in contrast: Poland in total has increased by 0.5%)

• **Hard coal mining is declining...**
  Hard coal production has decreased by around 60%, employment has fallen by nearly 80% since the 1990

• **...but still a key economic factor**
  Hard coal mining sector in Silesia still generates 10% of total industry revenues in the region, providing 80,000 jobs