

# 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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# 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)



ALMA MATER STUDIORUM  
UNIVERSITA DI BOLOGNA



THE °CLIMATE GROUP



# 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

Partners: Wuppertal Institute –  
University of Bologna – Provdadis  
Hochschule – ENGIE – The Climate  
Group – EIT Climate-KIC

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.

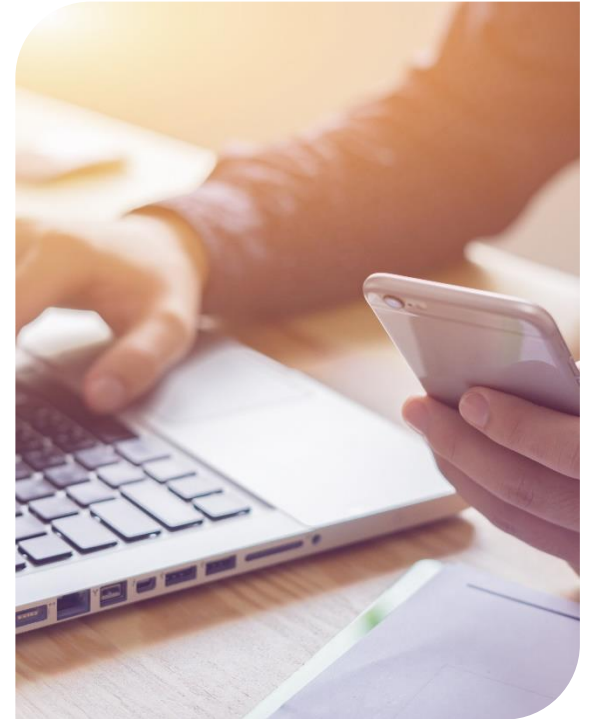
# Stay tuned with Re-Industrialise

Sign up for the mailing list

or **visit us** at: [www.climate-kic.org/re-industrialise](http://www.climate-kic.org/re-industrialise)

or **meet us** at:

**Region's Week in Brussel on October 10th 2018, 5pm**





Climate-KIC is supported by the  
EIT, a body of the European Union

[www.climate-kic.org/re-industrialise](http://www.climate-kic.org/re-industrialise) | [re-industrialise@climate-kic.org](mailto:re-industrialise@climate-kic.org)

Sign up for our mailing list: [www.bit.do/re-industrial](http://www.bit.do/re-industrial)

# BACKUP SLIDES

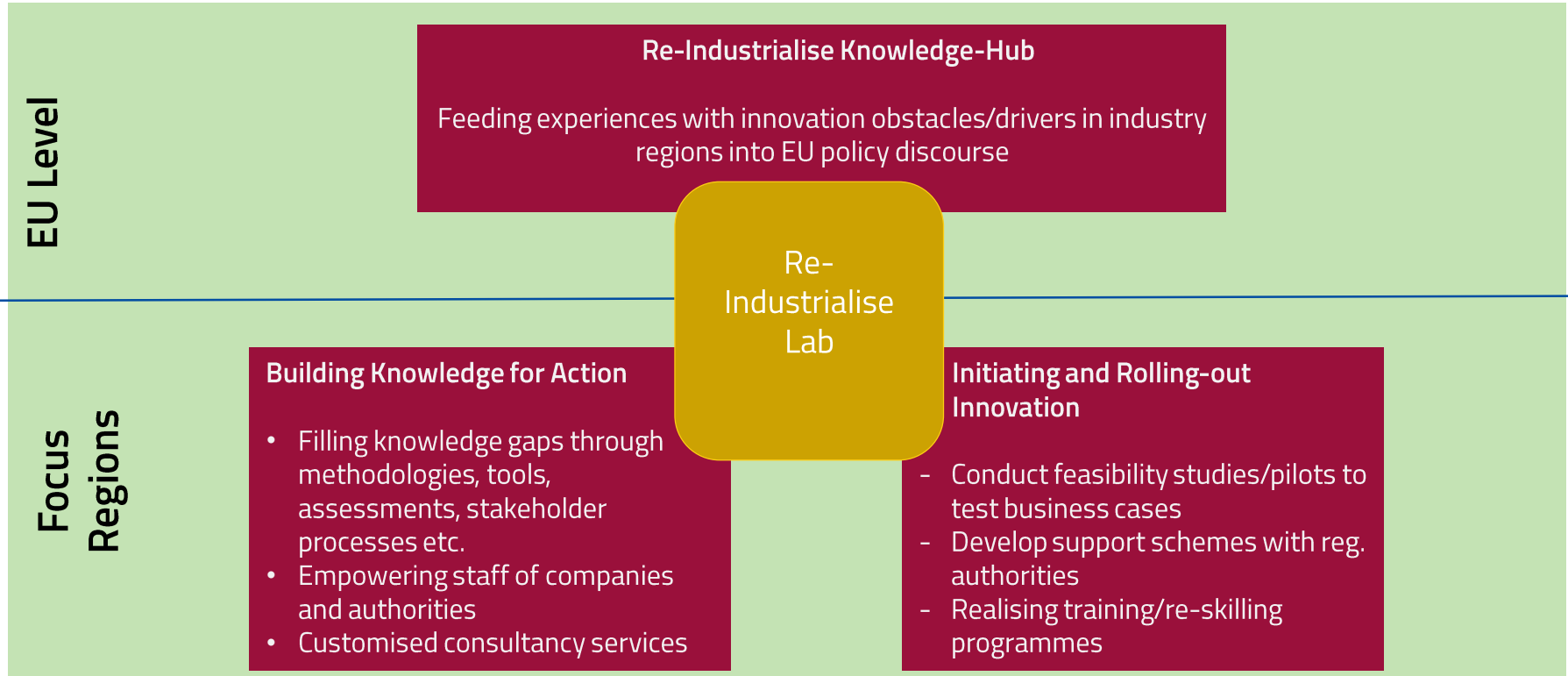
# Re-industrialise programme



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

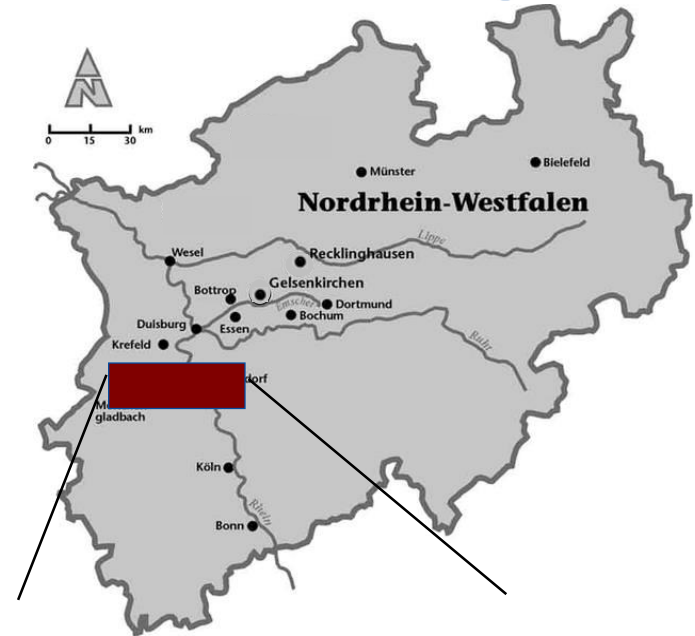
Goal: Support experimentation and accelerate promising ideas





# 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 mill. 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

