

EIT Climate-KIC and Greece Opportunities in the area of circular economy EIT Climate-KIC, 15 November 2019

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

EIT Climate-KIC is a climate innovation agency and community working to change the systems and environments we live in to reach net-carbon societies. Limiting global warming to 1.5°C would require rapid, far-reaching and unprecedented changes in all aspects of society.

IPCC Special Report on 1.5 Degrees



Continuing to work through gradual, incremental changes will not be enough. What is needed now is a fundamental transformation of economic, social and financial systems that will trigger exponential change in decarbonisation rates and strengthen climate resilience.

EIT Climate-KIC's Transformation in Time strategy document



The easy stuff is done. What lies ahead is unprecedented and far more difficult.

We need innovation to change whole systems; new ideas and approaches acting simultaneously on multiple levers of change to trigger transformation to a net-zero emissions, resilient future.

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EIT Regional Innovation Scheme

EIT Climate-KIC Locations

Accelerators

Cross-KIC CLC

O Work on edge communities

O Climate Launch Pad

Climathon

International outreach programmes

RIS Countries

EIT Climate-KIC total community locations

Czech Republic and Slovakia as of 2020



EIT Regional Innovation Scheme

The EIT Regional Innovation Scheme (RIS) is a dedicated programme to accelerate climate innovation across Europe.

In all EIT RIS countries we work with some of the most innovative organisations to set up EIT Climate-KIC Hubs which serve as entry points for interacting with local players, mobilising and internationalising local networks.

Our goal is stimulating low carbon innovation in countries, regions and cities across Southern and Eastern Europe, securing EIT Climate-KIC's pan-European reach and boosting climate innovation capacity across the continent.



The 'how' of systemic change: Systems innovation as a service



10 years of experience has taught us that achieving the systemic change we need requires a different order of innovation.

Incremental

Project finance model

Single projects and incremental change

Siloed and fragmented activities, often focused on technological improvements

System innovation

Transformational

Portfolio finance model

Portfolio of connected innovation projects that learn from each other

Wide appreciation of change levers







Circular Economy as a Tool for Transition





Accelerating the transition to a circular economy by working at...

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Accelerating the transition to a circular economy by working at...

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Accelerating the transition to a circular economy by working at...

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Shaping European policy and priorities for the circular economy...



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COUNTRIES

14

93 ENDORSEMENTS

Closing the loop on circular economy funding

CICERONE brings together key stakeholders including programme owners, researchers and businesses to build a platform for efficient circular economy.



CICER©NE

CICERONE is developing the strategic coordination of objectives and programming of regional, national and European funding programmes

State of the art

Assessing and benchmarking the current performance of circular economy research & innovation funding in Europe.

Strategy

Establishing an efficient and inclusive mechanism to jointly define and prioritise circular economy research & innovation priorities at European scale.

CICER©NE

Platform

Building and testing a lasting organisation and pathways to reach the desired impact, translated into a joint programming platform for programme owners.



SCALing European Resources with industrial symbiosis



This project has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement no 768748



Sustainable Process Industry through Resource and Energy Efficiency

The European process industry is one of the main pillars of Europe's economy.

But as of today, this industry is energy and resource intensive, with significant carbon emissions and a high dependence on resource availability.



SYSTEMS INNOVATION FOR INDUSTRIAL SYMBIOSIS

A systemic approach is needed to address this – not only by implementing circular systems at factory level, but at industry level. **Manufacturing processes need to be considered as part of a larger picture.**



ALER



CIRCULAR ECONOMY NETWORK OF PORTS (LOOP-PORTS)





ALMA MATER STUDIORUM UNIVERSITA DI BOLOGNA









LOOP-PORTS NETWORK



MEMBERS OF THE NETWORK:40 ORGANISATIONS

PORT AUTHORITIES: Italy **POLICY MAKERS:** Spain Spain Italy Croatia Denmark / Sweden Estonia PORT AND MARITIME ASSOCIATIONS France Germany Bulgaria Lithuania Greece Portugal Slovenia



Deep Demonstrations of Change



Earlier this year, EIT Climate-KIC launched eight 'Deep Demonstrations' as a test bed environment for the '1.5consistent systems transitions' called for by the IPCC.



Spaces of Transformation for Climate Action

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Healthy, Clean Cities

Circular, Regenerative Economy Forging Resilience in Vulnerable Regions

ansformations

in Industrial Regions

Regional Landscapes from Carbon Sources to Carbon Sinks

Food Systems and Meat-based Diets Maritime Hubs

Tackling Short-termism

Climate-KIC

Deep Demonstrations

Place-based

Vehicle for transformation

Systems innovation service

Addressing problems across levers of change Collaborative

Rapid-connected experiments

What are 'Deep Demonstrations'?

THE OW

Showcases of the rapid, far-reaching and unprecedented change we now need



e.g. city authorities, government agencies, regional bodies, boards of company directors or citizens' groups) committed to radical climate action

Clear intent for example an

ambitious target for carbon neutrality or net-zero emissions

Identify main systems

that must change and the barriers to doing so



Designdeliberate portfolios of innovations to tackle these barriers simultaneously, drawing on the best of human ingenuity







Why is a deep demonstration approach valuable for a place or organisation?

Net-zero emissions and climate resilience cannot be achieved just by tackling the easy stuff Allows marketing of places and organisations as a trail blazer

Attracts talent and cutting-edge companies

Addressing the factors causing climate change makes for a happier and healthier environment May attract new money and investment

Explores and develops jobs of the future



What makes the best challenge-owners





Our methodology for unlocking transformation to a net-zero carbon, resilient future



Sensemaking and feedback loops

We generate actionable intelligence to accelerate learning about how to achieve transformation at scale. Feedback loops inform policymaking and dynamic management of innovation options.

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Orchestrate a portfolio

For each challenge, we build and manage a portfolio of 30 – 100 connected innovation projects, designed to address leverage points identified in earlier stages. Our systems innovation methodology

-Britfolio

Intent

Frame

Understand and map the systems challenge

We engage demand-side challenge owners – city mayors, regional leaders, government ministers and CEOs of major companies – to understand ambition and needs, identify constraints and secure intent for transformational change.

Define the intervention strategy

We identify where and how innovation can play a role in catalysing change dynamics, and start to design relevant innovation 'positions'. A deep demonstration of...

Circular, Regenerative Economies

We are working with the Government of Slovenia and other governments in a deep demonstration of rapid change to a circular and regenerative economy and society. Innovation will tackle material production and waste flows across four key economic systems, and in doing so help a small country to advance health and prosperity.

About // Problem Owners



Circular, Regenerative Economies

Problem owners

We are working with the government of Slovenia, who have the ambitious aim to become the world's first fully circular national economy, and starting talks with the Government of Bulgaria.

Government of **Slovenia**

Government of **Bulgaria**

About // Problem Owners

Circular, Regenerative Economies

Designers

Four design partners are helping to shape the portfolio of matching interventions.



EIT Raw Materials

Joint Research Centre

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Joint Research Centre

JRC

Cleantech Bulgaria

CLEANTECH BULGARIA

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About // Problem Owners



TU Berlin

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Timeline Slovenia 2019-2022



Deep Demonstration – Slovenia

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Integrated portfolio approach



	The Slovenian Center for Smart and Circular Transition		
Pillar	Create Circular Communities	Foster Circular Development	Circular Policy Design & Science
Barriers	Lack of awareness & culture on circular economy	Lack of Systems Innovation + Entrepreneurship	Current regulation supports linear economy
Programmes	Circular Schools 💽	Circular Discovery Process	Transition Policy Lab
	Circular Learning & Resources	Circular Performance 🏹	Circular Procurement
	Circular Synergies	SME Circular Innovation Support	Circular Higher Education 🕞
	Transformation Capital for Circular Economy		
	★★Circular Transition Pilots: Industrial Value Chains ★★		

Deep demonstrations are intended as inspirational examples of what is possible at the level of whole systems when innovation is orchestrated, collaborative and missionled. They represent the 'growth edge' of our strategy for tackling climate change through innovation.

Dr Kirsten Dunlop, CEO of EIT Climate-KIC



Join the movement!

Contact us to further discuss opportunities for collaboration!

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