

CATALYZING SYSTEMIC CHANGE FOR CLIMATE ACTION



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

Angelica Monaco, Director Climate-KIC Italy



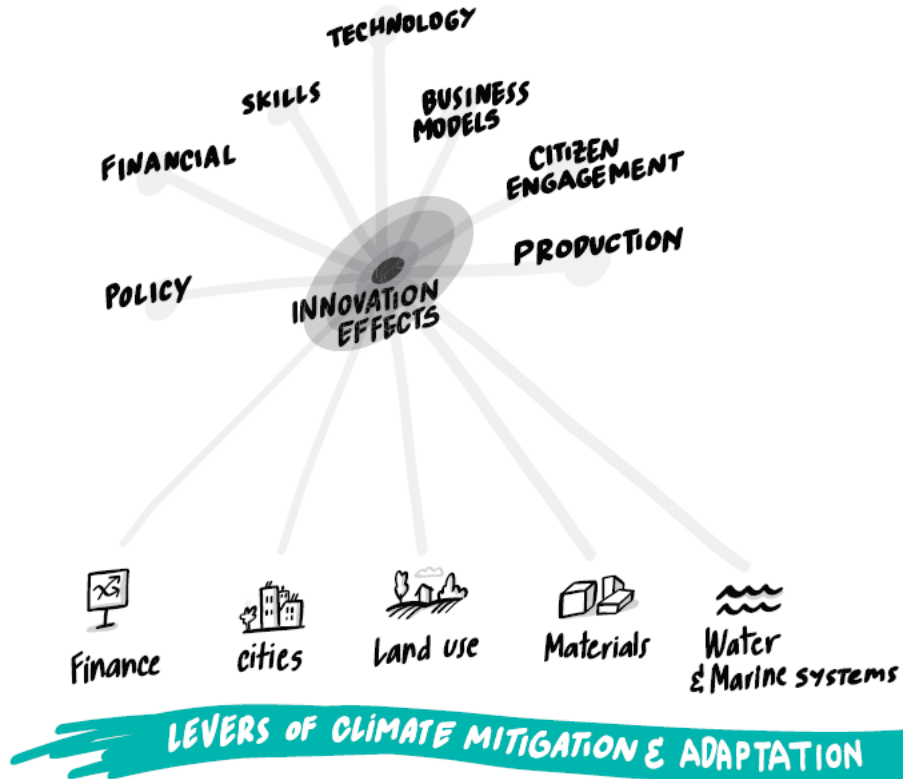
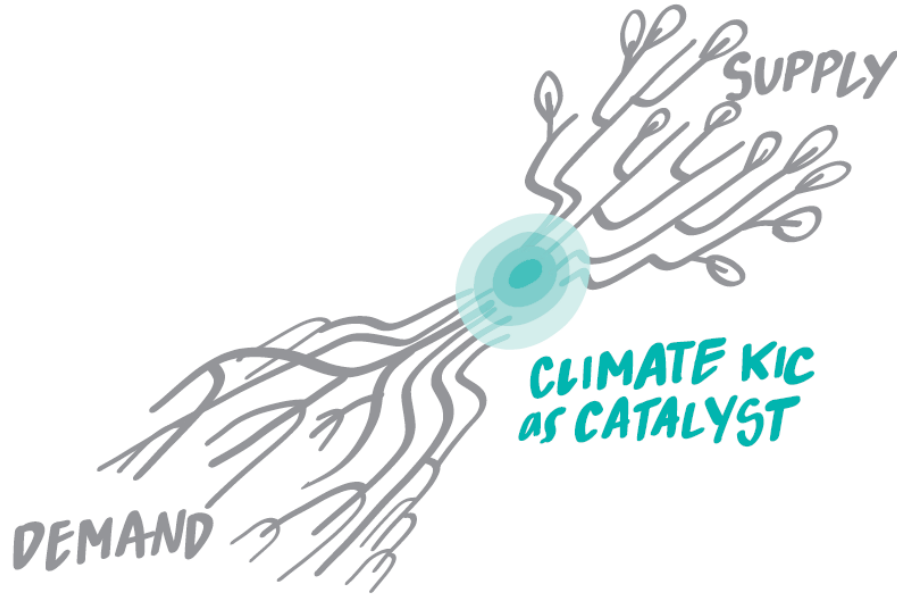
EIT Climate-KIC is a European **knowledge and innovation community** working to accelerate the transition to a **zero-carbon economy** through **whole systems** transformation

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.

A close-up photograph of a person's hands holding a ginger root. The hands are positioned above a potted plant with long, green, blade-like leaves. The background is blurred, showing more of the plant and the person's torso. The overall tone is natural and earthy.

EIT Climate-KIC addresses the
interdependent challenges of climate
change and sustainable development
through strategic innovation

The EIT Climate-KIC Promise



Systems innovation

Leverage

Points

Learning

by Doing

Portfolio

Approach

Demand-led

Model



Grand Challenges

Meet the goals of the 2015 Paris Agreement + SDGs
Create a prosperous, inclusive, climate-resilient society with a circular,
zero-carbon economy

Political agenda
setting, public
engagement,
science-base
targets

Missions

Missions, including for example, 100 carbon neutral European cities by 2030

Missions at the level
of whole systems

Climate-KICs' Innovation Goal Areas

1. Energy efficiency
2. Resilient
infrastructure
3. Mobility

4. Agriculture
5. Food systems
6. Forests

7. Circular
material cycles
8. Industry ambition
9. Regional
transitions

10. Mainstreaming
climate in
financial system

Portfolio of
initiatives
(projects and
experiments)
enacting on drivers
of change

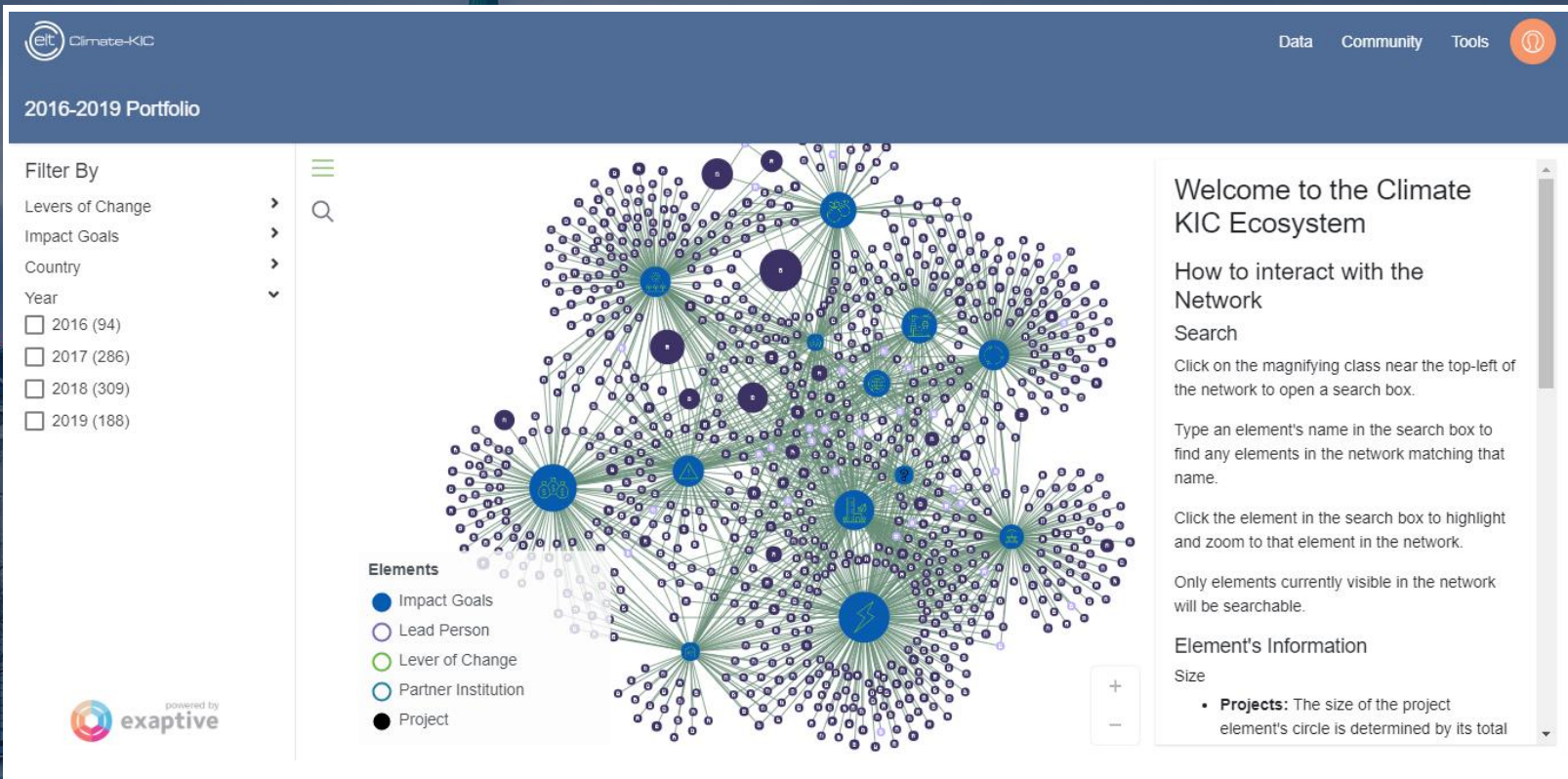
Learning loop



Learning loop

Portfolio of
experiments
to influence key
drivers of change,
offering opportunities
for learning,
connections
and change

Portfolio approach





Overarching achievements

360+

leading
partners

>€550m

investment
attracted
to start-ups

>2,000

full-time jobs
created

17,000

participants in
tour education
activities

1000+

innovative
start-ups

€3.4bn

climate funding
leveraged

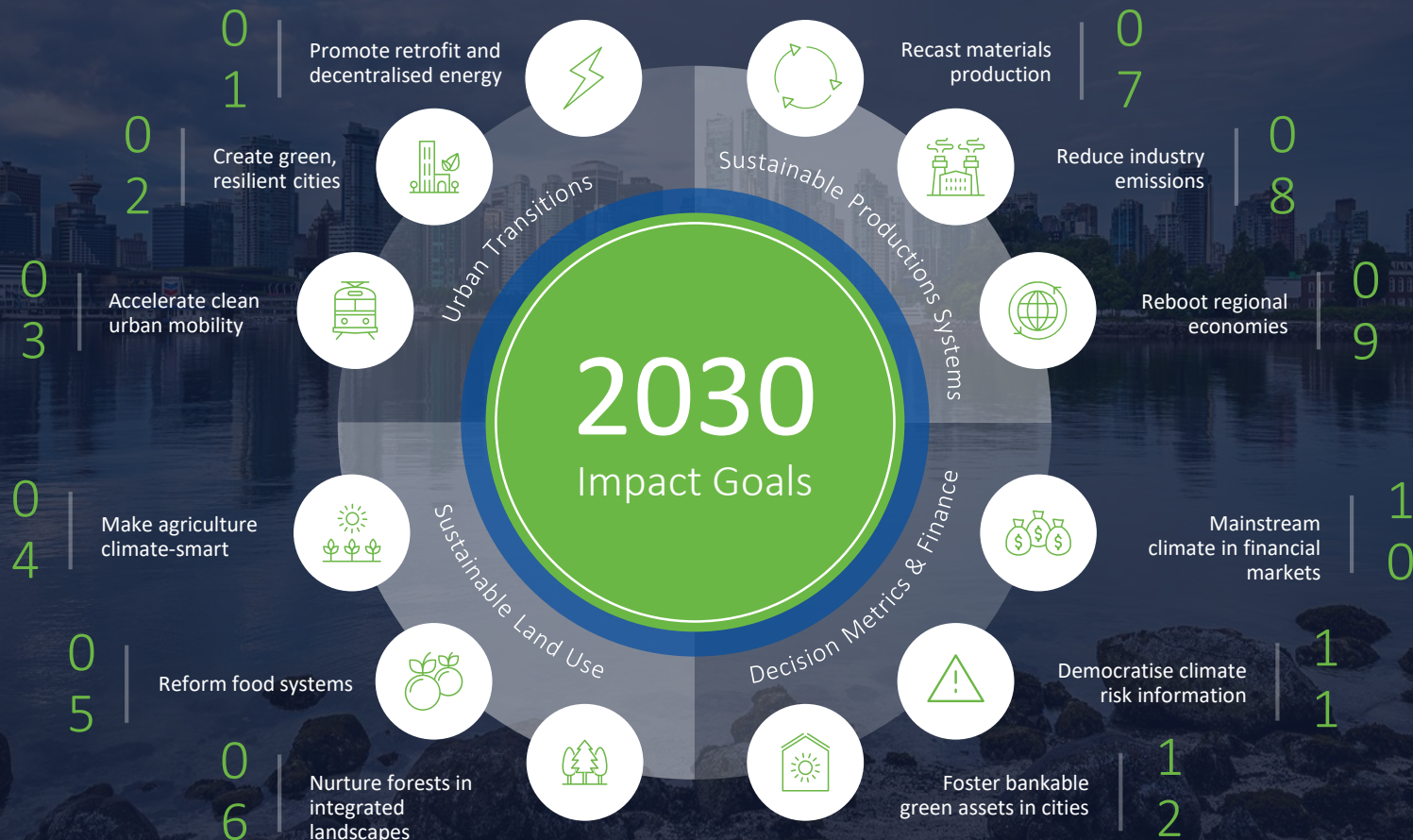
367


new products
and services

25

Climate Impact
Assessments completed
with Climate Impact
Potential Assessment
911,000 tCO2

Theory of Change





We **connect and convene** the knowledge and expertise needed to catalyse **systemic innovation** that helps societies mitigate and adapt to climate change

Our activities include:

- ☐ **Partnership-driven innovation in a unique community**
- ☐ Business incubation and entrepreneurship
- ☐ Open innovation
- ☐ Education and capacity building

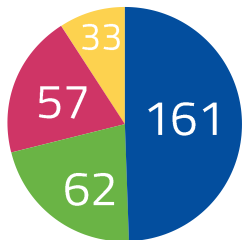
EIT Climate-KIC across Europe



EIT Climate-KIC countries



EIT Regional Innovation Scheme countries (RIS)



Number of partners
distributed by sector



Higher Education



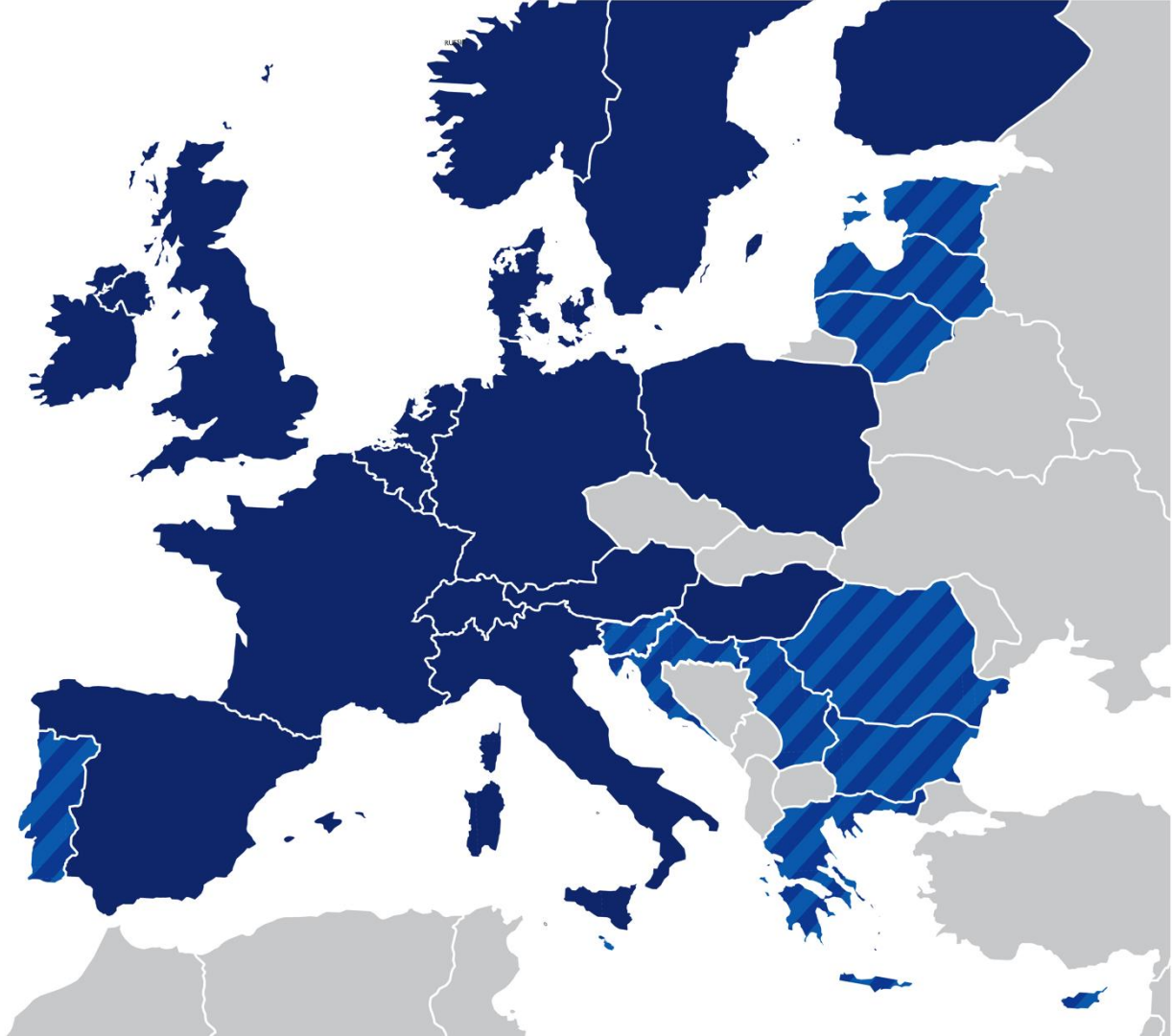
Business



Research



Cities, Regions & NGOs




Partnership-driven innovation in a unique community



Core Partners





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- ☐ **Open innovation: the Italian projects**
- ☐ Education and capacity building



Enerpaper | Accelerator Programme

How to reduce heating cost while increase house's value?

- Enerpaper is an insulation material for heating, in reels (unique in the world), from **newspaper waste**. It helps reducing intake of chemical additives, 70% of transport costs; 30-35% of energy consumption.
- Enerpaper obtains **CE mark** for both machine and product and contributes to mitigate climate change.
- Thanks to the **Accelerator Programme of Climate-KIC**, Enerpaper was also selected to take part at the EIT Climate Impact Battle during **Slush 2017**. It was one of the 50 start-ups contending the 100 Pitch Competition.



Enerpaper is an innovative project with the aim to create a natural and sustainable product for heating that reduces environmental and economic costs



A living lab for the integration of **clean energy**, sustainable **mobility** and **circular economy**.

The consortium will co-develop, test and implement integrated solutions to sustainability issues - mobility, energy consumption, green spaces, consumption patterns based on:

- systemic and inclusive approach
- co-design and stakeholder engagement
- ICT: data integration, monitoring and gamification





Modena e-car sharing scheme

AESS | Comune di Modena

An e-car sharing scheme started in Modena in 2015 serving Municipalities public officers and citizens.

The e-car sharing scheme was set up thanks to 50.000€ provided within Climate-KIC Transition Cities project to support a city experiments. The resources was used by the Municipality to perform all the due diligence needed to prepare the tender to attract private investors. The e-car sharing scheme was launched in 2017 with 56 e-car and has grown continuously since then.





URBAN TRANSITIONS

CityTree Scaler

PROAMBIENTE | Comune di Modena

A moss-culture technology that scrubs pollution from city street air where flow is poor and pollution is heavy, **controlled and supplied by Internet-of-Things technology**

With the help of Climate-KIC, the Green City Solutions has teamed up with Proambiente to pilot a CityTree in the city of **Modena**





URBAN TRANSITIONS

SMASH

DEDAGROUP | AESS | FBK | Better Points | Forum Virium Helsinki

Sustainable Mobility Analysis as Service Hub

SMASH is an innovative web-based platform created to enhance the analysis of spatial data related to urban mobility and improve sustainable mobility. The service is funded by Climate-KIC and will be evaluated in 2019 in more than 10 European cities.

SMASH integrates raw data readily available from different sources in various formats into a mapping platform, producing deeper insight through graphical analytics, maps and reports. The platform uses data produced by GPS sensors such as smartphone apps, fleet monitoring systems, bike-sharing stations, traffic count sensors, environmental monitoring stations and travel surveys.

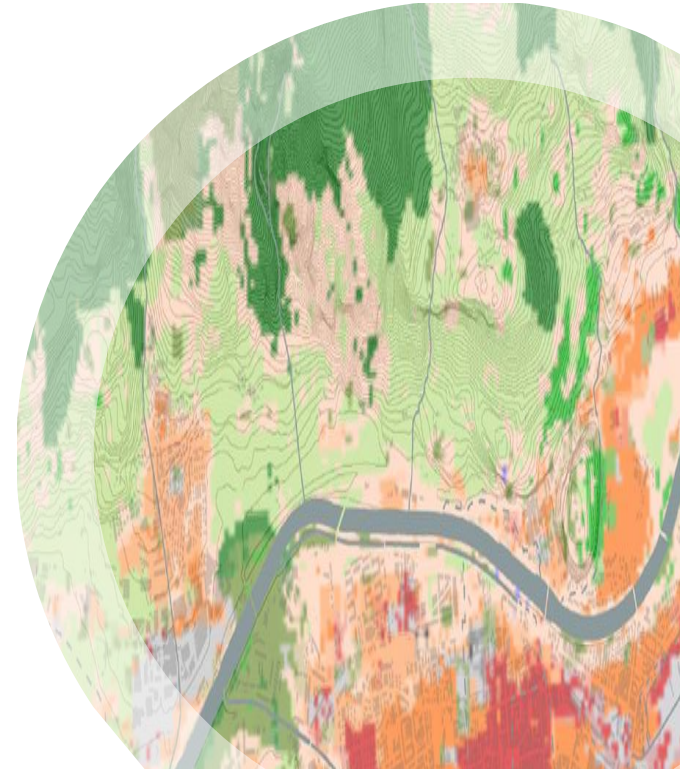




SATURN - System and sustainable Approach to virTuous interaction of Urban and Rural LaNdscaPes

The project will explore how to involve multiple public and private actors to test economic models to revitalise and manage sustainably peri-urban landscapes: woods, agricultural lands, natural parks, etc.

Three pilot areas in the Province of Trento have been identified and will connect and exchange with pilots from Gotheborg (Sweden) and Birmingham (UK).



Manufacturing
accounts for about
98% of total CO₂
emissions from the
industrial sector

The industrial sector is
responsible for **a third**
of total global
greenhouse gas
emissions

Only **40%** of
materials in Europe
are recycled or
reused

Resource efficiency
is still hugely
underexploited

Europe loses **95%** of
material and energy
value

University of Bologna | Italy
Caviro | Italy
SO.F.TER. | Italy
PannonPRO | Hungary

Working on bioplastic

BPLAS

Potential use:
packaging sector

The bioplastics product is the polyhydroxyalkanoates (PHAs) obtained through fermentation

Perform a market survey, demand analysis, technical and economic analysis of concept using by-products of grape processing

Bioplastic social acceptance is advancing and improving, yet bioplastics are still in the early stages of market development




Unlocking finance for climate investment

Neighborhood Economics (NE) will create 2 sustainable and smart districts in Malmo and Bologna.

NE would benefit the whole community, reducing by 10% the energy bill of the resident, mitigating the impact of the commercial sector, engaging SMEs in mitigation and adaptation projects, implementing innovative climate services and products (e.g. new mobility) engaging the community and the local stakeholder.

One of the achievement of NE is the micro-hydroelectric plant in Granarolo industry





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- ☐ **Education and capacity building**

The Pioneers Programme

AESS | MODENA

DEADLINE | 11 APRIL

Pioneer:

- ❑ from May to November
- ❑ 4-6 week placement (domestic or international)
- ❑ fresh perspectives from all different kinds of climate change backgrounds, sectors, and experience levels

Host:

- ❑ Expand your network
- ❑ Generate new business cases
- ❑ Gain systemic knowledge
- ❑ Boost a competitive advantage
- ❑ Join a unique community

Climate-KIC Italy



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Working to connect Innovation across Italy



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Director



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The Italian Branch



Climate-KIC Italian Partners 2019



**fondazione
innovazione urbana**



Cities, Regions



Business



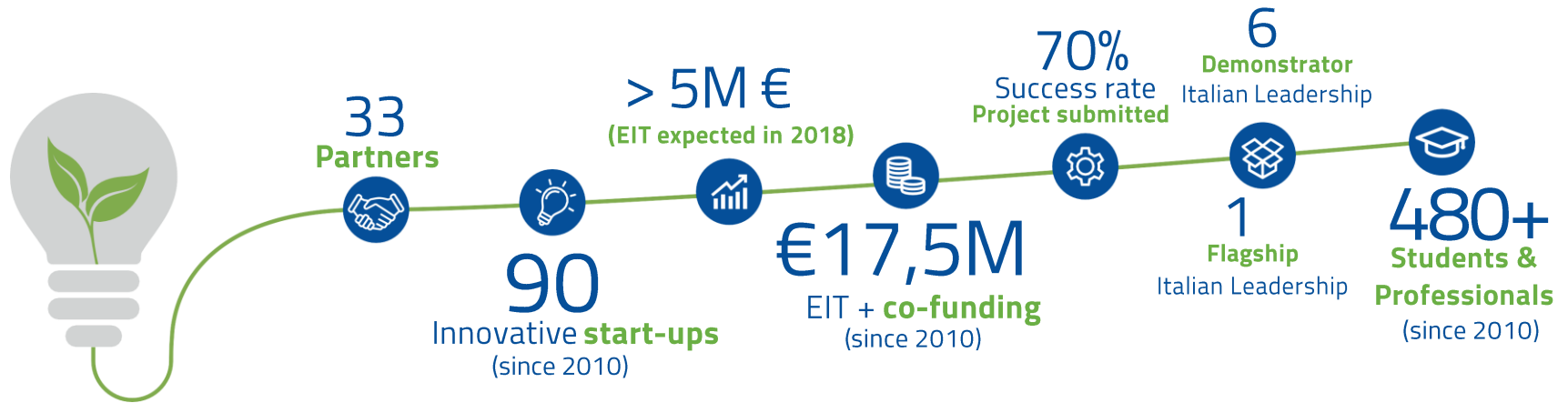
UNIVERSITÀ
POLITECNICA
DELLE MARCHE



UNIVERSITÀ
DI TRENTO

Higher Education
and Research

Italy – Facts & Figures





Climate-KIC

OUR DIGITAL FOOTPRINT

Our website | www.climate-kic.org/

Our Social Media



ClimateKICItaly



ClimateKIC Italy Opportunities



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EIT Climate-KIC

Thank You



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