

TEC thematic dialogue:
Boosting climate technology
incubators in developing countries

Accelerating climate innovation in Europe





EIT Climate-KIC



>€430m

investment attracted to start-ups

1000+

innovative

start-ups

€2.5bn

climate funding leveraged

250+

leading partners

>2500

jobs created

222

new products and services

(since 2014)



EIT Climate-KIC: End-to-end innovation

IDEATION

Successful innovation starts with a good idea
Relevant activities:

Climathon, Climate Launchpad, Pathfinder (partners), Greenhouse (students)



ACCELERATION & DEMONSTRATION

Defining and developing a climate product or service

Relevant activities:

Accelerator, Partner Accelerator, Demonstrator (for partners)



SCALING

Widely adopted climate innovation

Relevant activities: Scaler (for partners)



IMPACT knowledge and insights captured to reinforce learning

EDUCATION & PROFESSIONAL DEVELOPMENT

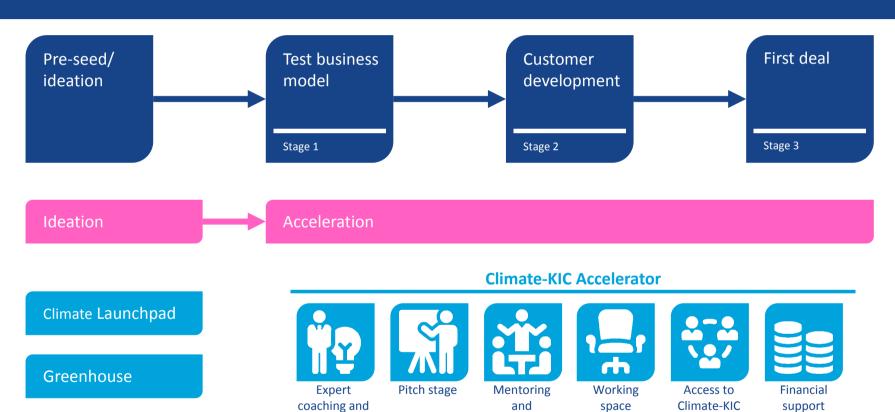
Learning for innovation and innovation for learning Capacity-building programmes for students and professionals

Relevant activities:

Journey, Master Label, Pioneers, Certified Professionals

Entrepreneurship Programme

workshops



networking

partners



Our unique Accelerator programme offers structured business and commercial support to European start-ups in the new climate economy:



A real-world business school for entrepreneurs;



Rapid development for maximum climate impact;



It helps to turn great ideas into successful climatepositive businesses.

Accelerator programme offering



Financial support up to €95k



Exposure to customers, partners and investors



No equity taken



Support locations in 27 European countries



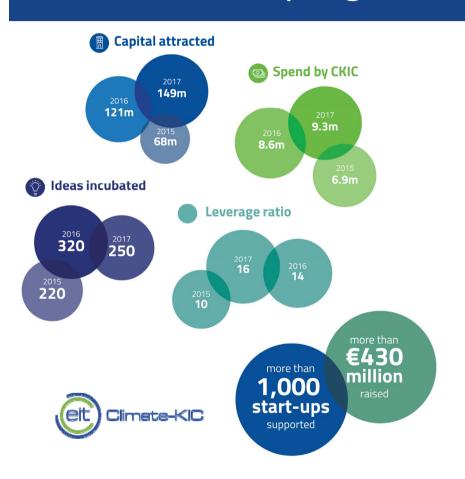
Coaching, training, technology validation, office space and more



Access to an extensive relevant international network



Accelerator programme impacts



Social Impact Potential

Programme quality

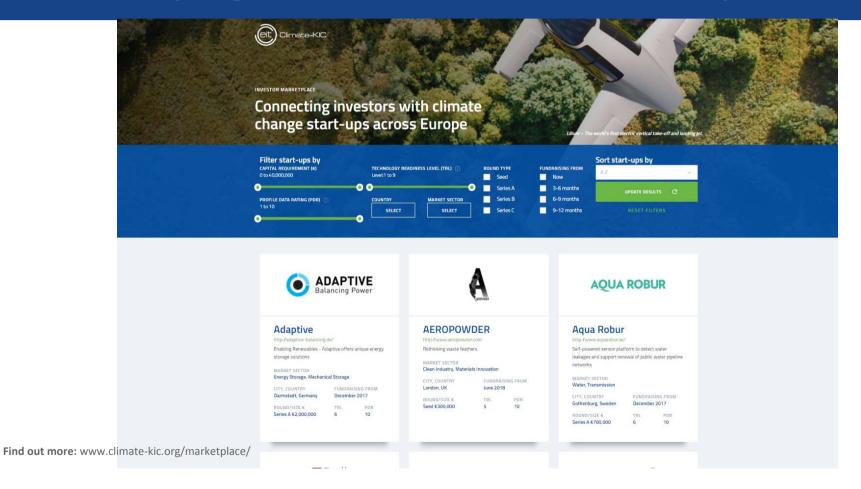
 Climate-KIC social entrepreneurs featured in Forbes 30 Under 30 Europe List every year

Climate Impact Potential

Climate Impact Assessments

- We assess the potential to avoid emissions through scaling innovation.
- Coaching for start-ups supported
- Model with robust, flexible method that will enable project-to-project comparisons

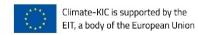
Developing new offer: Investor Marketplace





Thank you!

www.climate-kic.org/start-up-accelerator www.climate-kic.org/marketplace/







City Trees, Green City Solutions

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 (IoT) technology

IMPACT: each unit has the potential effect of up to 275 average urban trees binding up to 240t of CO2 equivalents annually.

STAGE: The company has already generated more than €1 million turnover with over 30 CityTrees sold. Starting in spring 2017, six CityTrees be will installed in the polluted street of Modena.

SCALE: Units sold in both Asia and Europe



Tado

Smart home climate control, contributing to energy efficient homes

IMPACT: To date, as a result of initial investment from Climate-KIC, the company has raised a total to €50 million in funding.

SCALE: Tado° is using this capital to drive **continued global expansion where it can gain critical mass, especially in the US market,** where the company recently listed its product range at Amazon, Best Buy and Home Depot, and secured a number of connected home partnerships, including AT&T Digital Life.



www.tado.com

Solease

Revolutionises the solar market by eliminating cost, risk and hassle. They offer solar panels for a fixed monthly fee, making solar power more affordable than conventional electricity – from day one.

IMPACT: Annual savings of 1 milliard of CO2 emissions and lower

energy costs per households

STAGE: Installing solar panels by leasing parties

SCALE: Scaling up to install solar panels by 5000 house holds.

Solease fetched € 8.5 million through three energy funds, which

made it possible place solar panels on 5000 households



Evolution Energie

Management software that has reduced European gas and electricity consumption by 1.2% in 2014, and a finalist in the 2014 edition of Climate-KIC's Venture Competition.

IMPACT: "Our energy management software, developed for so-called electro-intensive industries (Arcelor, BASF, Total, ADP...), manages 6% of energy consumption in Europe. Our tool has reduced CO2 emissions by 1.2% in 2014, with savings ranging from 10 to 30%."

STAGE: In 2017, Evolution Energie have integrated other amenities, such as water and they address blockchain.

SCALE: They are turning to French and Chinese local authorities



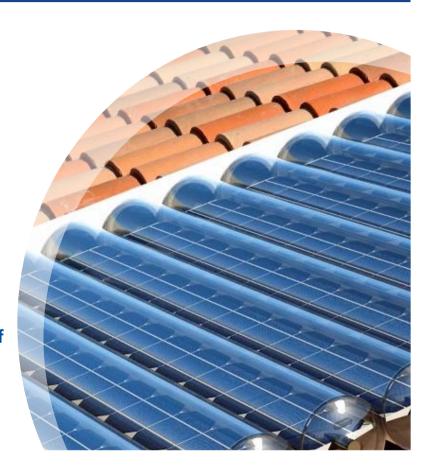
Naked Energy

Naked Energy's Virtu technology combines photovoltaic cells and a heat exchanger to produce power and heat, boosting financial returns and carbon savings

IMPACT: Solar technology, energy conservation

STAGE: Start-up founded in 2009, the technology is now on the market

SCALE: Manufacturing for customers in the UK, Europe and North America. End of last year the start-up signed an agreement with US-based manufacturing giant <u>Jabil</u> to scale up the production of its Virtu technology



Lilium

The world's first electric jet, which takes off and lands vertically

IMPACT: The jet consumes around **90 per cent less energy** than other drone-style aircraft, comparable to an electric car, enabling it to achieve a range of more than **300 km and a maximum speed** of **300 km/h**.

STAGE: Has raised \$90 million in its latest funding round, enabling rapid development towards commercialisation of its electric vertical take-off and landing jet.

SCALE: Lilium team is now developing a larger, five-seater version of the Jet, designed for on-demand air taxi and ride- sharing services. The first manned flight is expected in 2019.



SimGas

Domestic biogas systems that convert livestock manure into smokeless energy and crop fertilizer for millions of rural households

IMPACT: Replacing wood fuel, charcoal and kerosene with biogas improves health from indoor air pollution & avoids deforestation. It saves farmers both time (2-4 hrs/day) & money.

STAGE: SimGas now has 1,500 customers with operations in Kenya, Tanzania and Rwanda

SCALE: Developing biogas-powered stoves, milk chillers & new financing models to scale biogas across African and Asian markets





A sustainable, low-maintenance, low-cost irrigation pump to enable rural communities in developing countries to increase crop yields.

IMPACT: Hydro-powered irrigation system that can **increase crop yields by up to five times.**

SCALE: Developing countries. 40+ pumps are running in Nepal, Indonesia, Spain, Turkey and Zambia



Carbon Delta

Fintech that analyses climate change resilience of publicly listed companies based on a Big Data methodology. Estimated financial losses from climate change range from \$2.5 to 72 trillion by 2060

IMPACT: Aims to establish the **climate value-at-risk standard** as the de facto global standard for climate risk assessment.

IMPACT: Analysis includes three core risk factors: **Regulations**, **Extreme Weather Events**, and the Paris Agreement 2oC Target.

SCALE: Global



CaffeInk

Student founded start-up, Caffelnk gives a second life to coffee waste, extracting pigments from coffee waste and using them to produce ink

IMPACT: Students created idea during Journey summer school, completed EIT Master Label, entered Greenhouse to develop the idea further, and is now nominated for EIT Change Award 2017 STAGE: Start-up is now technological testing, optimize our product, convince a manufacturing partner and partner with a coffee chain in the Netherlands to secure the supply of the resource



Elemental Water Makers

Elemental Water Makers use a pump and gravity to provide the pressure needed for reverse osmosis.

Start-up first prize in the prestigious Mohammed bin Rashid Al Maktoum Global Water Award - a \$1 million (€0.9 million) prize.

IMPACT: Provides 3,300 gallons of fresh water from seawater on a daily basis

STAGE: Projects in Cape Verde, Virgin Islands, Belize, Mozambique

SCALE: Possible **expansion over 150 countries** including Australia, China the US.



http://www.elementalwatermakers.com/

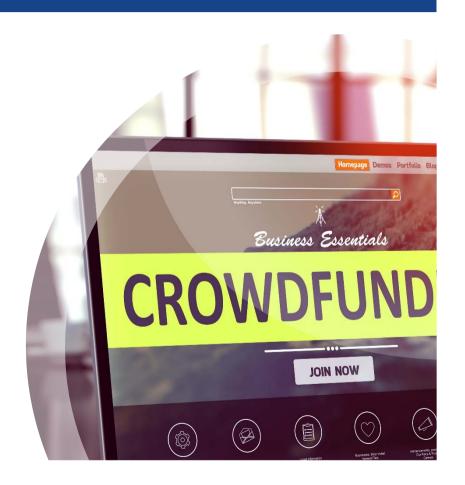
Lumo

A crowdfunding platform dedicated to renewable energy projects.

IMPACT: Increase sustainable energy production, create jobs

STAGE: Lumo also contributed to the **development of a Green Growth Participatory Label recognized by the Ministry of the Environment**, launched in April 2017. Participatory financing platforms that will engage under this label will benefit from an increase in credibility with savers and will have KPIs about the environmental impact of their investment.

SCALE: They carried out in May 2017, a **capital increase of €400,000** provided by a dozen of contributors



AEROX

AEROX designs and produces coating systems for the protection of wind turbine blades

IMPACT: **Significant cost reduction** for wind turbine blade manufacturers that spend up to 300 hours, in finishing operations on the surface protection of the blade during their process, **reducing of the cost per blade**. Technology validated by 2 of top 10 manufacturers, in more than 400 blades.

Created up to 10 direct new jobs in the area of R&D and business development and at least 15 new indirect jobs until 2016

SCALE: Annual turnover> 2 M €



Skipping Rocks Lab – Ooho!

Novel uses of alginate, an extract from brown seaweed, to create sustainable packaging and products

IMPACT: Ooho provides the convenience of plastic bottles while limiting the environmental impact. It is 100% made of Plants & Seaweed, Biodegradable in 4-6 weeks

STAGE: Completed Climate-KIC Accelerator, 2017 saw them crowdfunding for investment

SCALE: In April 2017 they waged one of the most successful Crowdcube campaigns ever for their first product. The campaign achieved over double their target in just a few days with a video that went viral.



http://www.skippingrockslab.com/