Climate-KIC

Innovating for low-carbon prosperity and climate resilience

EIT Awareness Day in Portugal

Manuel Irún, Climate-KIC

Climate change mitigation and adaptation

Vision:

- Providing the people, products and leadership to address the challenge of global climate change

Mission:

- Creating opportunities for innovators to address climate change and shape the world's next economy

Climate-KIC

Key features

- Our twin drivers:
  a) Commercial value
  b) Social value
  c) Often but not always linked
- Our markets are diverse and mostly immature or just emerging
- Climate change innovation requires systemic thinking

This means

- We are challenge-driven and focussed
- We need to help create and support the growth of markets
  – Climate Market Accelerator
- We provide innovative approaches to bring different players together
  – Sheltered innovation

Our innovation community and European interconnectivity

We are a network of 165 partners across Europe (number has doubled each year: 27, 88, 165; major expansion is from business and government/public sector)

We come together at 5 Co-location centres

We reach out across Europe via the 6 regions of our Regional Innovation & Implementation Community (RIC)

Our Community is long-lasting and integrated

Integrating four innovation sectors

Excellence is paramount

- Our partners span world class:
  Universities (23%)
  Research institutes (10%)
  Business (23%) SMEs (24%); T, 47%
  Regional and local government (16%)
  Non-profit (5%)

- Our knowledge triangle is a pyramid:
- we bring together all the actors of the innovation pyramid .....

Climate-KIC Partnership

Europe's engine for climate change innovation - the innovation pipeline

Education – trains entrepreneurs

Entrepreneurship – supports entrepreneurs: business incubation, support and development

Ecosystem
Activities and investment of partners in CLC and RIC)

Pathfinder
Market identification

Innovation
Product and service development

Delivery
Marketable products and services; social value

The challenge platforms

Output from innovation projects

KPIs	Climate-KIC Platforms						
	GHG	SCS	AS	LWEA	IS	MTH	total
# of demonstrations	3	13	3	0	0	3	22
# of services / products launched	7	8	4	2	0	7	28
# of knowledge transfer	1	0	4	6	0	1	12
# of start-ups	1	6	0	0	0	1	8
# of new employees as a result	2	2	3	2	0	3	12
# policies / standards co-developed	1	6	0	1	2	2	12
# of publications	3	23	2	6	9	5	48

Education for Climate Innovation

- Masters (Scholars) programmes
- PhD (Fellows) programmes; challenge-driven multi-disciplinary teams
- Postdoctoral researchers (Fellows)
- Associates (*The Journey* as a free-standing course for students at non-Climate-KIC universities)
- Professional programmes
- Alumni Association

Climate-KIC Masters programme: a range of core elements

Alumni events and the innovation festival: Potential for physical community meet ups.

SPARK!
Live telecast to all CLCs with video interaction

Mobility and Internships: Physical interactions with students and experts / professionals

Greenhouse: mobility, and e-presence interactions

TheJourney: Student physically meet and form networks

Local activities: Transferable skills courses, events, complementary field courses.

Education for Climate Innovation

Education has delivered, since August 2010:

- 270 postgraduate students (~1:20 selected for excellence and entrepreneurial potential)
- 5 start-ups from 2010 cohort
- 28 Greenhouse from 2011 cohort
- Alumni Association; founded by 2010 cohort for students and Pioneers, now an Affiliate partner of Climate-KIC

Entrepreneurship

Support for students, project teams, start ups and SMEs

Incubation & Support, Business Creation, Events & Competitions e.g.

- Business coaches
- Climate-KIC Incubator network
- Climate-KIC Master Class Programme
- Climate-KIC Venture competition
- Open Innovation Slams
- SME Climate Innovation Vouchers
- Climate-KIC Market Accelerator
- Pioneers into Practice

More climate starters, more starters & SMEs on fast growth trajectory, business acceleration for innovations

Supporting entrepreneurs

Entrepreneurship – delivered since 2011

RIC Pioneers into Practice Programme

2010. Regional Placement

2011. Internacional Placement

2012. Regional Placement

2012. Internacional Placement

- **60 pioneers participating in 2010-2011**
- **150 pioneers participating in 2012**
- **180 pioneers expected to participate in 2013**

Entrepreneurship – delivered since 2011

- 53 ventures supported
- 16 IP projects supported
- 23 new ventures
- 167 new jobs in existing business
- 360 Pioneers-into-Practice

Sheltered innovation

Our young enterprises:
Naked Energy – EIT Award 2012

- **Hybrid solar panel providing electricity and hot water**
- Combined Photo Voltaic and thermal energy system
- PV inside the tube with water flowing though
- PV provides electricity
- Water keeps PV at optimal temperature and provides source of hot water
- **Unprecedented efficiency; cheaper renewable energy**

- Climate-KIC SME partner
- Support from Climate-KIC UK CLC for measuring and characterising performance

Sheltered innovation

- Sainsbury's
  - Reduced carbon footprint of stores
  - Carbon neutral products at low prices
  - Want innovators to work with Sainsbury's and their suppliers, e.g. farmers (sheltered innov
  - Will also offer stores as a test bed
    - e.g. Naked Energy
  - Student masters and PhD projects
- Large cascade effect via suppliers
- Model for other businesses

Sheltered innovation: crossing the national boundary

Graphisoft High-Tech Park , Budapest

Biopolus
Distributed Biological Manufacturing industrial solutions with Distributed Urban Water Reuse Infrastructure solutions

Naked Energy's Innovative Solar Panels to supply thermal and electrical energy for the special testing and production Bioreactors

Climate-KIC Outreach

- A number of Climate-KIC activities are open to non-partners e.g. education programmes, start-ups and competitions

- Climate-KIC used its hubs in Wroclaw and Budapest to run a series of activities to specifically engage interested parties in Central and Eastern Europe – education courses, start-up schemes, Conference in Wroclaw, 4-5 Dec 2012

  http://www.youtube.com/watch?v=GiR5ocoZ71I

- EU Structural Fund programmes 2014-2020: particular focus for regions within Climate-KIC. Smart specialisation strategies and operational programmes which integrate innovation, SME growth and the transition to a low-carbon economy

Save the Date!

Climate-KIC Annual Innovation Festival
Wroclaw
22-23 October 2013

Climate-KIC

A networked Community

- Long-term, stable, portfolio of partners across 4 sectors
- 11 hubs of connectivity across 10 European countries
- Innovation push connected with demand pull
- Sheltered innovation

The innovation pipeline

- Innovation, Entrepreneurship and Education Pillars – toolkit
- Create climate entrepreneurs
- Catalyse innovation – products, services, culture
- Market identification and acceleration

8 Platforms

- Focussed cross-KIC innovation communities
- Demand-side, challenge driven
- Integration of innovation, entrepreneurship and education
- E.g. Built environment; Making transitions happen

5 CLC

- Focus for innovation
- Centre of knowledge
- Launch pads, landing pads

6 Regions

- Market demand
- Test beds and implementation

Thank you!

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