



Climate-KIC

Innovating for low-carbon prosperity and climate resilience

EIT Awareness Day
Mary Ritter, CEO



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



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

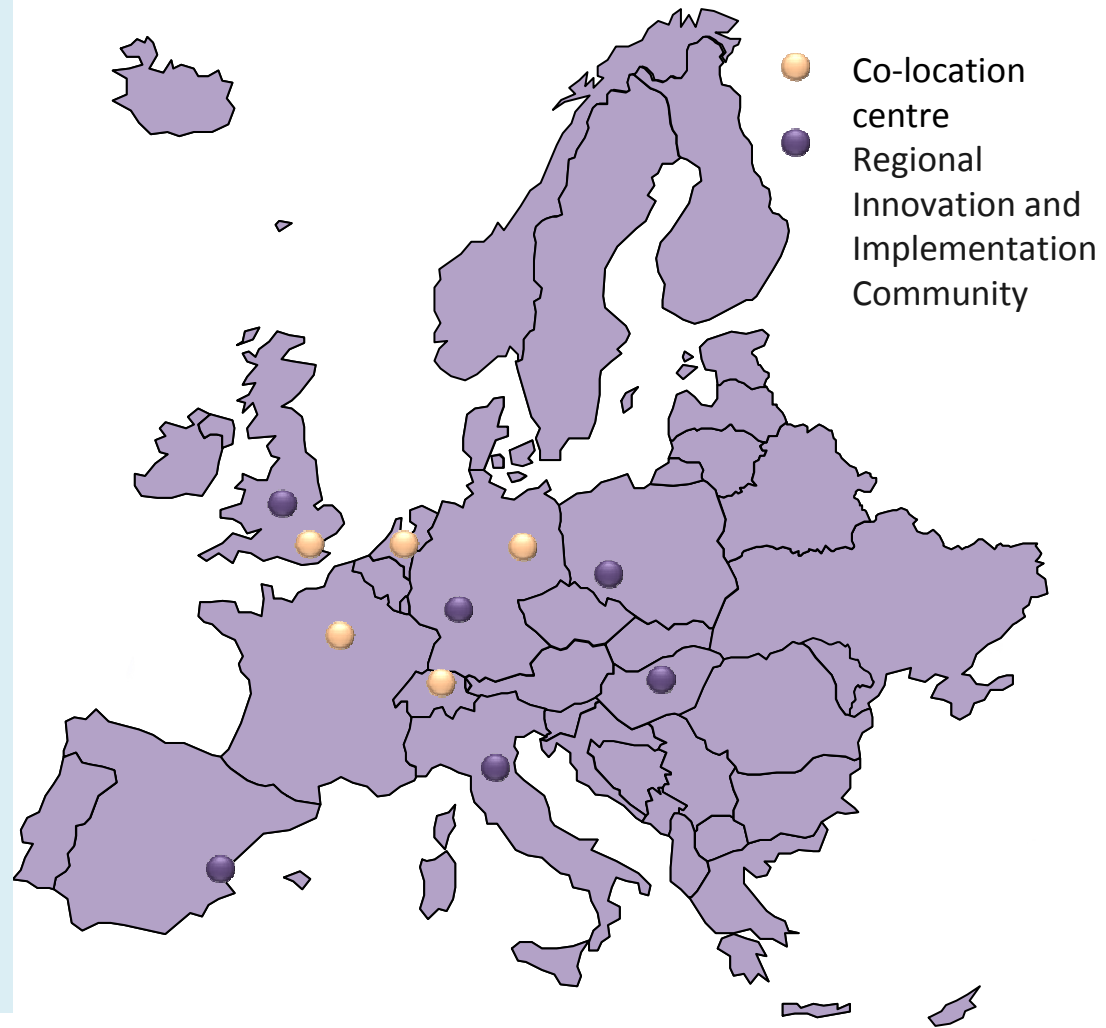


We are a network of 165 partners across Europe (number has doubled each year: 27, 88, 165; major expansion is from business and government/public sector)

We come together at 5 Co-location centres

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

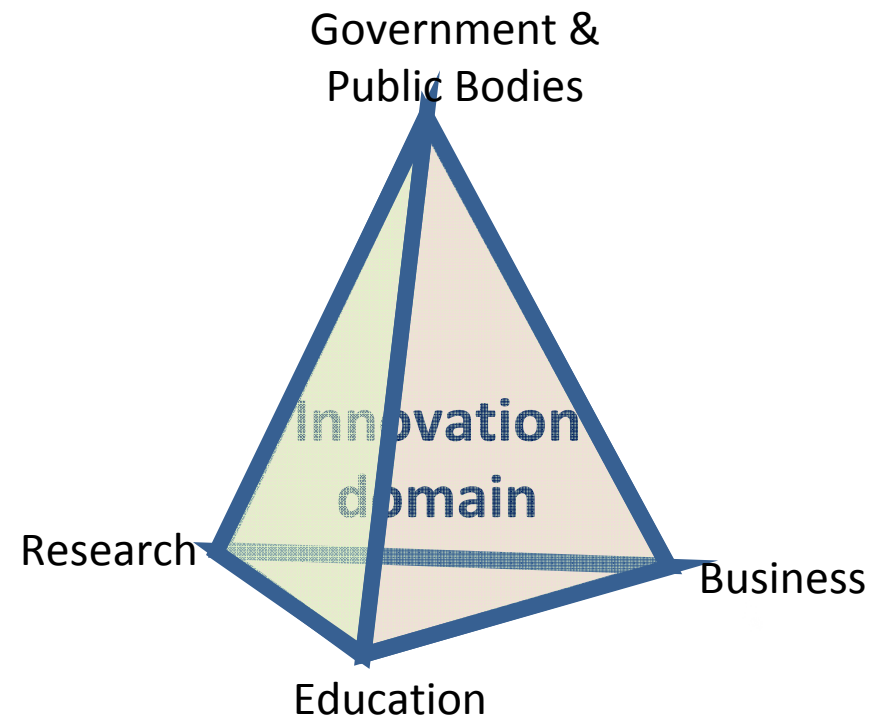
Our Community is long-lasting and integrated



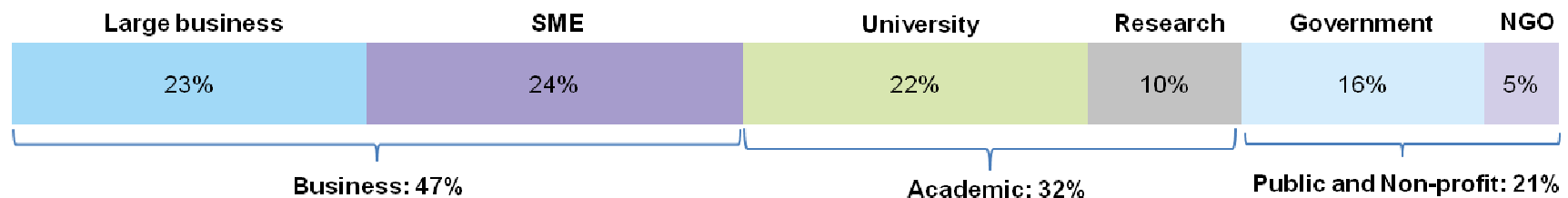
Integrating four innovation sectors

Excellence is paramount

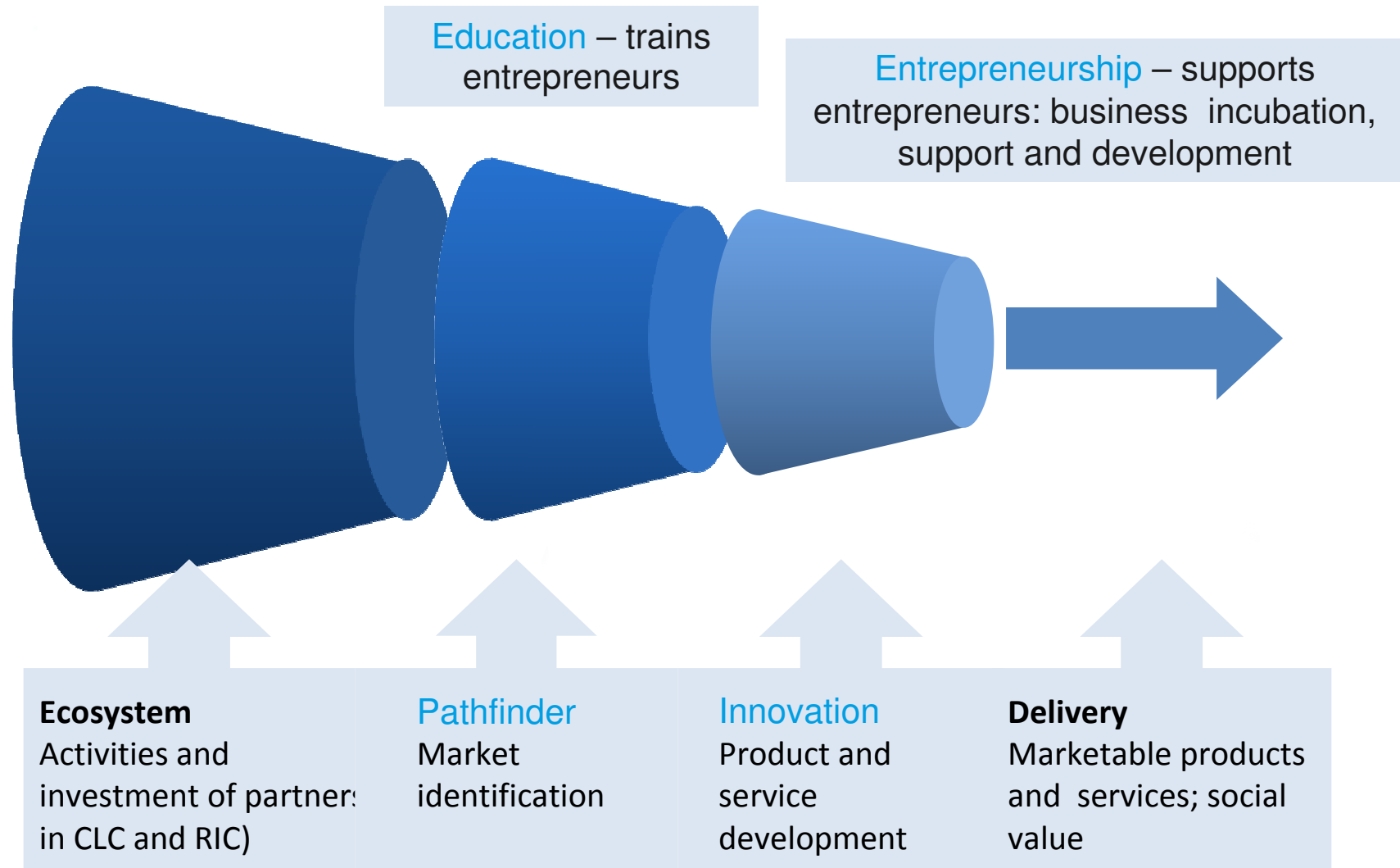
- Our partners span world class:
Universities (23%)
Research institutes (10%)
Business (23%) SMEs (24%); T, 47%
Regional and local government (16%)
Non-profit (5%)
- Our knowledge triangle is a pyramid:
•we bring together all the actors of the innovation pyramid



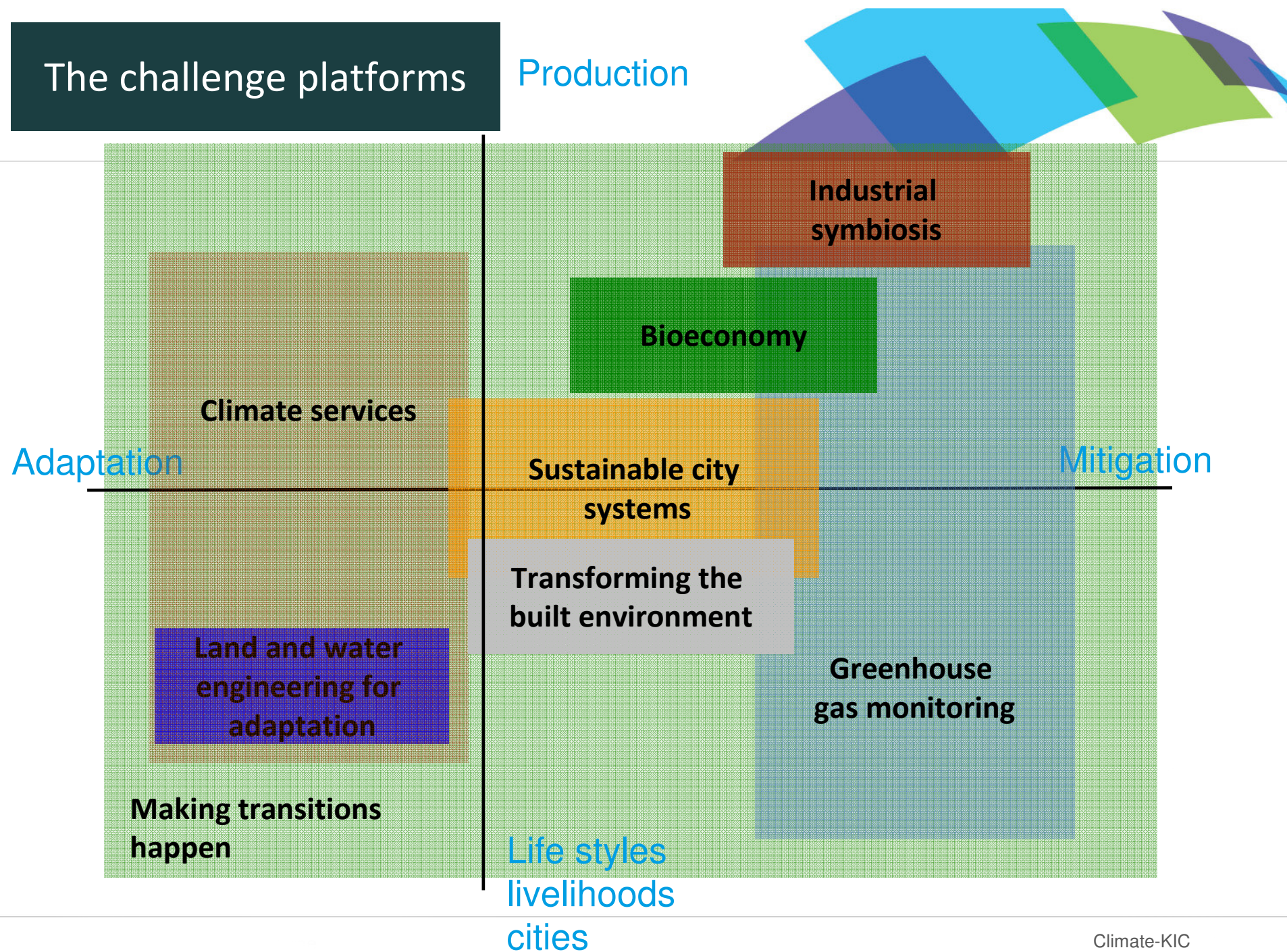
Climate-KIC Partnership



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



The challenge platforms



Output from innovation projects



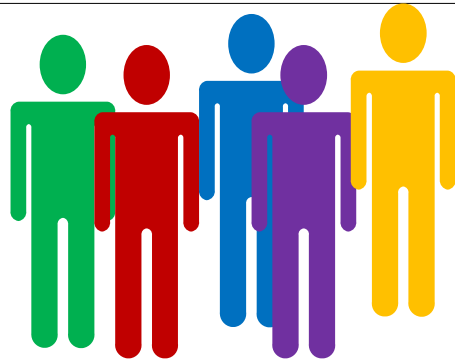
| KPIs | Climate-KIC Platforms | | | | | | |
|-------------------------------------|-----------------------|-----|----|------|----|-----|-------|
| | GHG | SCS | AS | LWEA | IS | MTH | total |
| # of demonstrations | 3 | 13 | 3 | 0 | 0 | 3 | 22 |
| # of services / products launched | 7 | 8 | 4 | 2 | 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

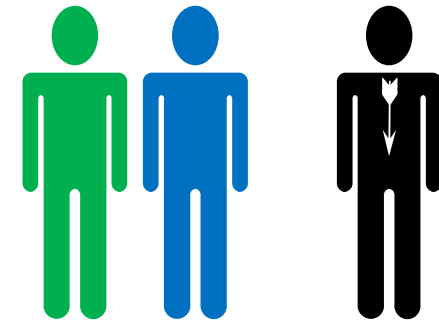


- Masters (Scholars) programmes
- PhD (Fellows) programmes; challenge-driven multi-disciplinary teams
- Postdoctoral researchers (Fellows)
- Associates (*The Journey* as a free-standing course for students at non-Climate-KIC universities)
- Professional programmes
- Alumni Association

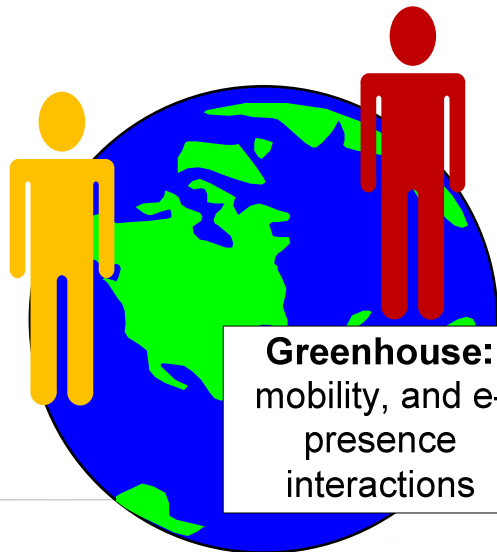
Climate-KIC Masters programme: a range of core elements



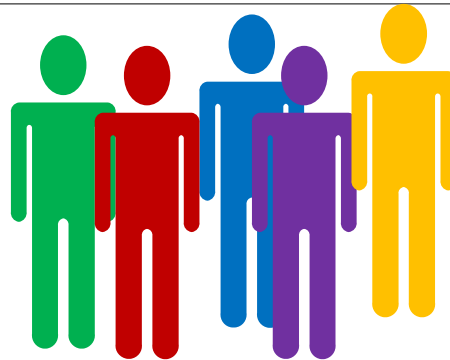
Alumni events and the innovation festival: Potential for physical community meet ups.



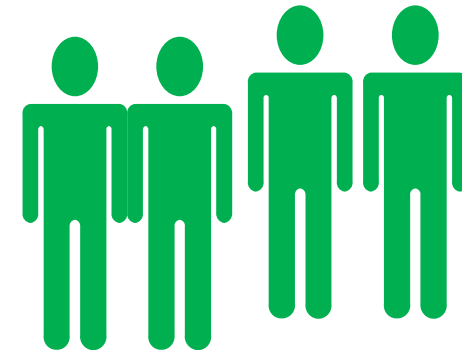
Mobility and Internships: Physical interactions with students and experts / professionals



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

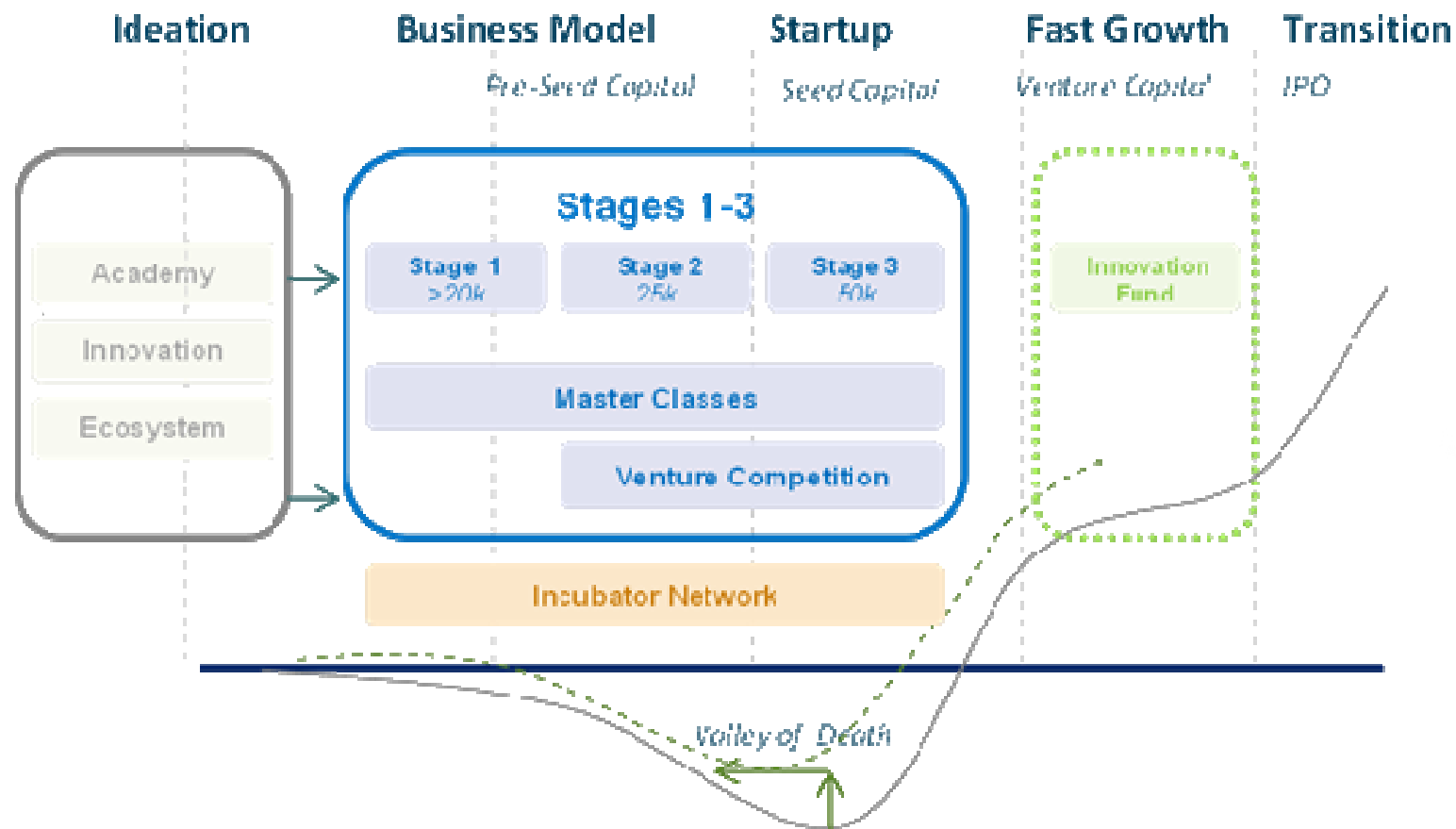


Education has delivered, since August 2010:

- 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

Supporting entrepreneurs

Climate-KIC Incubation Programme



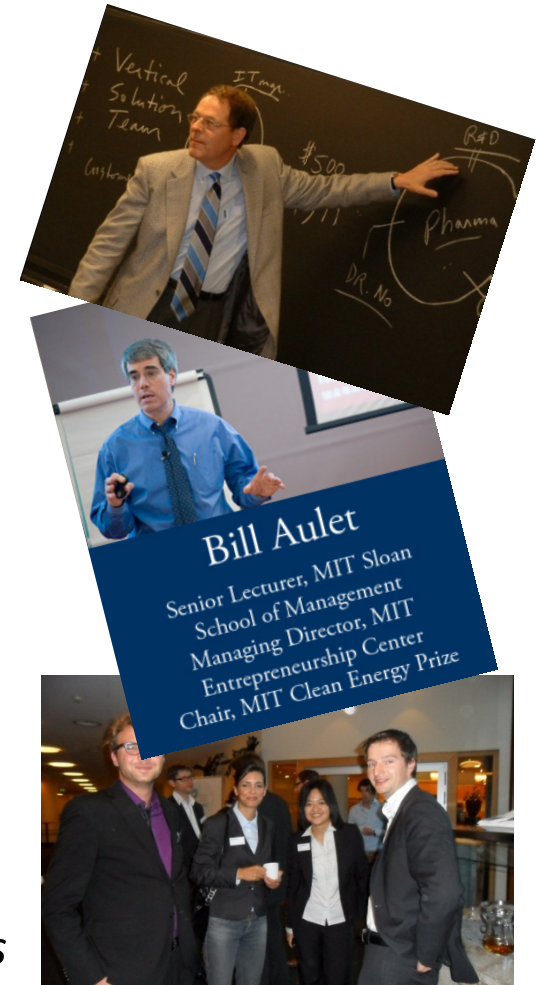
Entrepreneurship

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

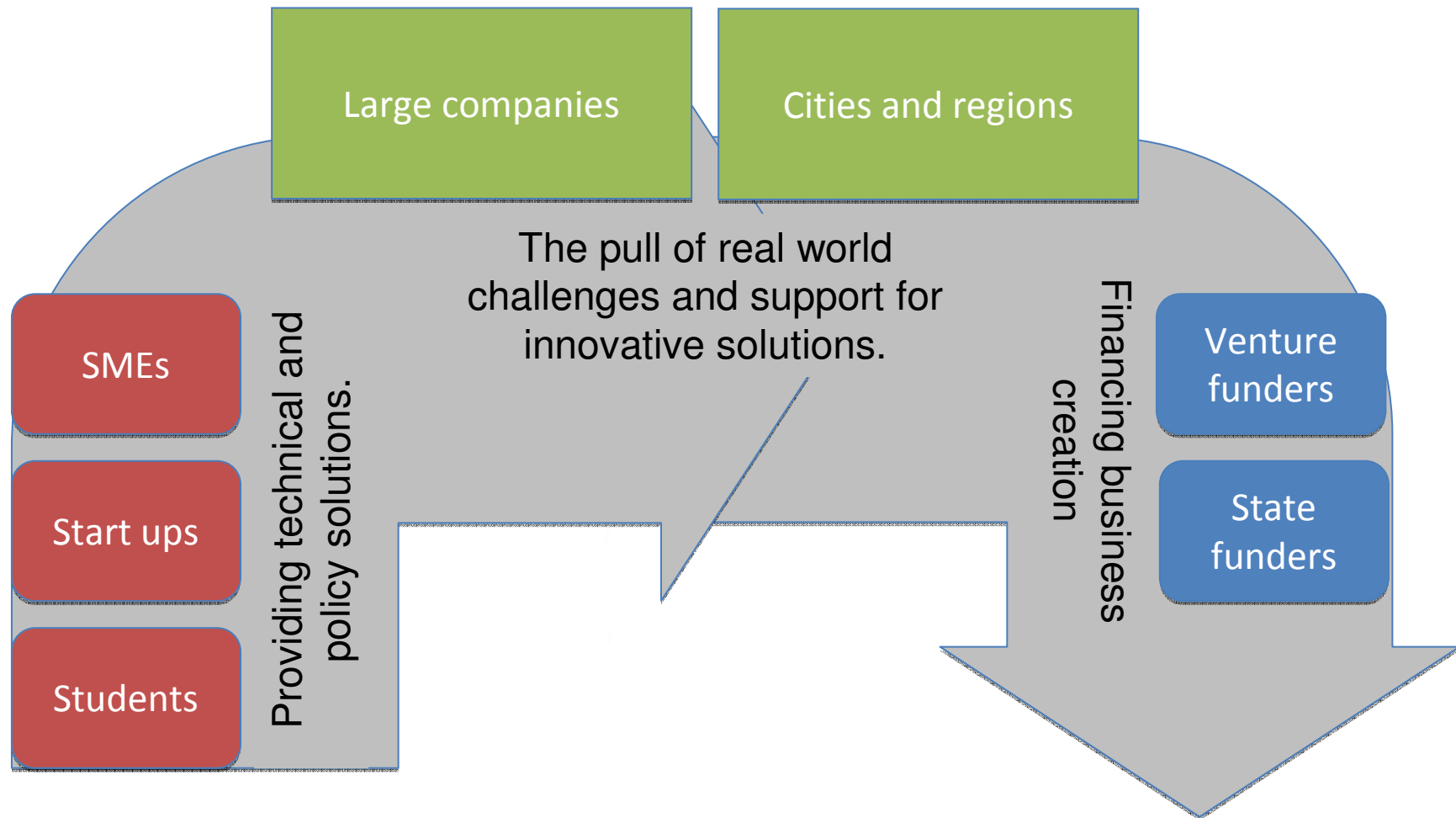


Entrepreneurship – delivered since 2011



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

Sheltered innovation

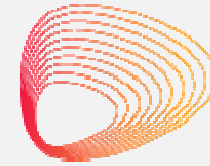


Our young enterprises: Naked Energy – EIT Award 2012



- **Hybrid solar panel providing electricity and hot water**

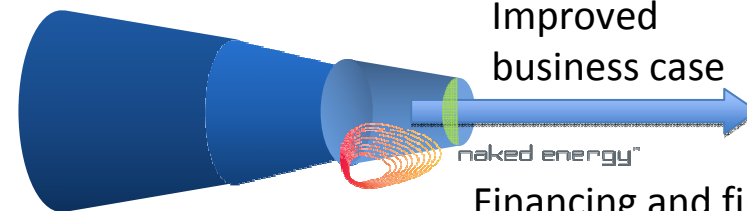
- Combined Photo Voltaic and thermal energy system
- PV inside the tube with water flowing through
- PV provides electricity
- Water keeps PV at optimal temperature and provides source of hot water
- **Unprecedented efficiency; cheaper renewable energy**



naked energy™



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



Improved
business case

naked energy™

Financing and first
customer

Climate-KIC

Sheltered innovation

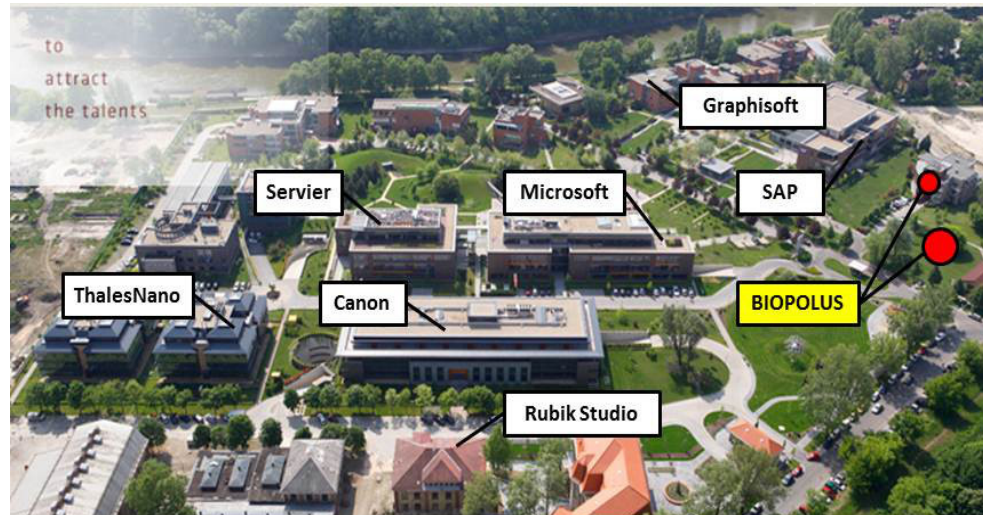


- Sainsbury's
 - Reduced carbon footprint of stores
 - Carbon neutral products at low prices
 - Want innovators to work with Sainsbury's and their suppliers, e.g. farmers (sheltered innovation)
 - Will also offer stores as a test bed
 - e.g. Naked Energy
 - Student masters and PhD projects
- Large cascade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



Sheltered innovation: crossing the national boundary

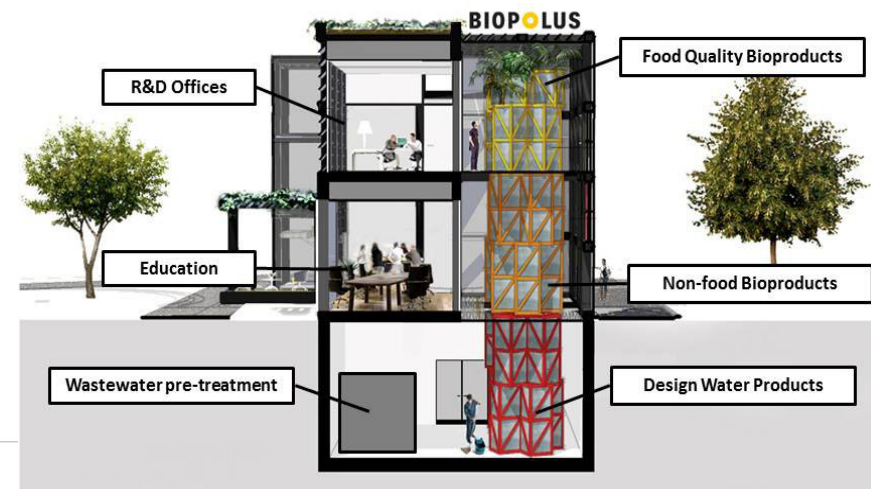
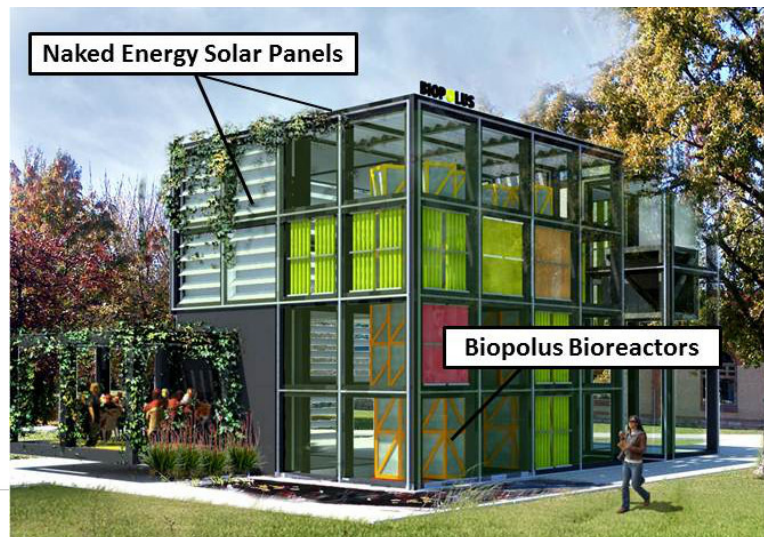
Graphisoft High-Tech Park , Budapest



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





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

