

EIT: a new approach to innovation in European innovation or created by us to be solved by us

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EIT Vice-Chairman

WIPO

"EIT-Investing in the Grand Opportunities"
Geneva, July 11 and 12. 2011

Science and Technology

- New science and a continuous product development - sustainable energy production
- If Earth were powered from space?
- Fusion
- Solar power is one solution - Sahara as the new Middle East
- The others = 20%

Lessons Learned

- New and Sustainable Infrastructures Drive Innovations
- Different Business Models
- Hard Work to Create Integrated Communities
- CEO and Legal will take Time
- KICs are the Core Business
- Excellence is not always Appreciated

Innovation in Europe

- Europe is good at science and inventions but terrible at innovation
- European people are happy to be employees with retirement security rather than entrepreneurs with considerable uncertainties
- The role of Institutions and the lack of Institutions in Europe as compared to US and China
- EIT is an institution and operational approach, but the European way
- Infrastructure building as an innovation driver
- Business innovations and new technology innovations

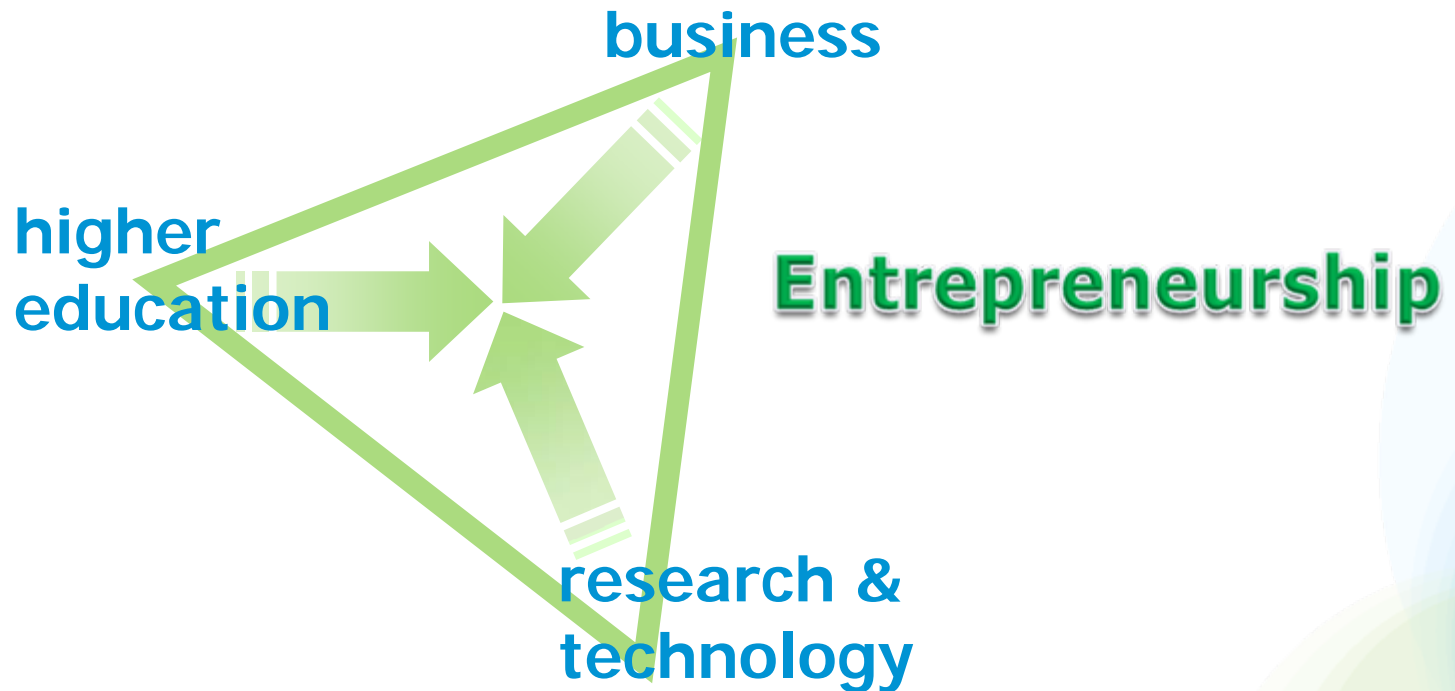
European Institute of Innovation and Technology (EIT)

Mission:

*“To be the catalyst for a step change
in the European Community’s innovation
capacity and impact”*

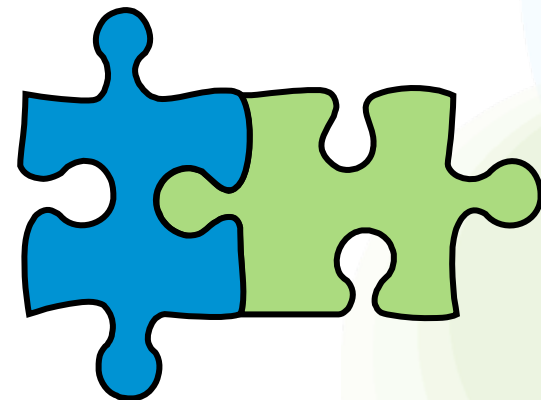
The knowledge triangle at the core of innovation

Actors in the knowledge triangle are at the core of the **innovation web**



EIT is operating via Knowledge and Innovation Communities (KICs)

- **KICs** =
highly integrated, creative and excellence-driven autonomous partnerships; internationally distributed but thematically convergent partners
- **KIC partners** =
key actors from the knowledge triangle: research, education and business



What the EIT wants to accomplish through the KICs

- ➔ The EIT aims to generate **tangible impact** in the following areas:
1. Addressing key **societal challenges**
 2. Fostering world-class innovation hot spots through **co-location**
 3. Turning ideas into **business creation** through entrepreneurship
 4. Shaping excellent, multi-disciplinary programmes of **education for innovation**

Vision: KIC 'challenges/impact'

**Excellence and
leadership in a web of
innovation**



**KICs competitive
on a world scale**

**Acting as a catalyst
for improvements
in curricula and
learning and
teaching methods**



**Strengthen
ongoing
developments
in higher
education**

**Foster
entrepreneurship
education**



**Deliver top
entrepreneurial
people**

Vision: KIC 'challenges/impact'

**Exploiting
entrepreneurship
through new and
existing private
companies, SMEs, start
ups, and new business
models/approaches**



**New business
creation**

**Technical and
non-technical
innovation-driven
research and
technology**



**Full exploitation
of innovation
opportunities**

Vision: KIC 'challenges/impact'

**Bridging local
capabilities**



**Europe wide
opportunities**

**Apply an IPR
policy motivating
for the
stakeholders**



**Allowing broad use
of IPR in and
outside Europe**

**EIT Brand and
Communication**



**Restoring pride in
Europe's innovation
and international
recognition**

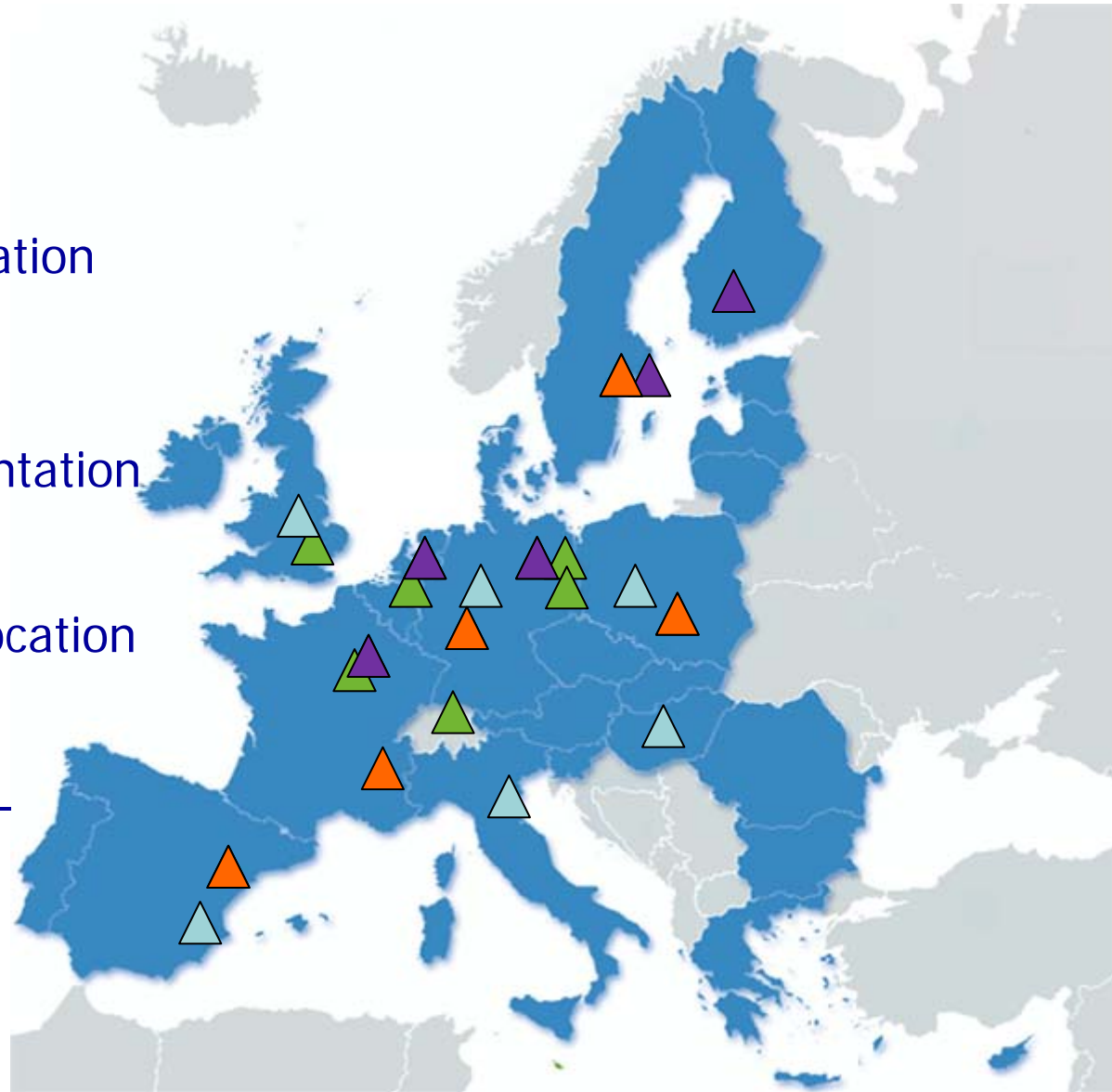
KIC focus on societal challenges:

First 3 KICs selected in December 2009

- Climate Change Mitigation and Adaptation:
Climate-KIC
- Sustainable Energy:
KIC InnoEnergy
- Future Information and Communication
Society:
EIT ICT Labs

KICs - European Impact Potential

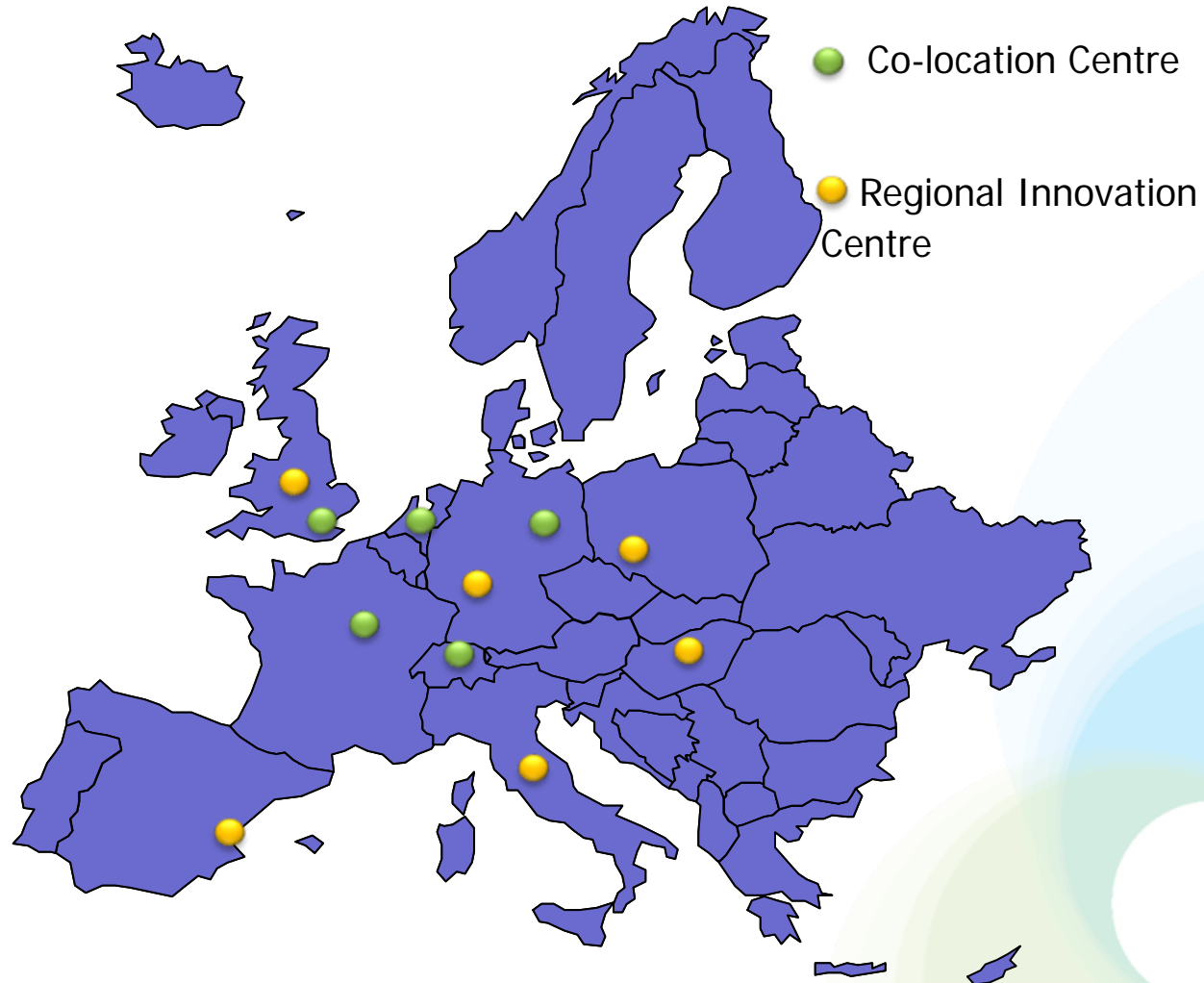
- ▲ Climate KIC Co-location Centres
- ▲ Climate KIC RIC – Regional Implementation Centres
- ▲ EIT ICT Labs Co-location Centres
- ▲ KIC InnoEnergy Co-location Centres



Climate-KIC: European leadership in climate change innovation

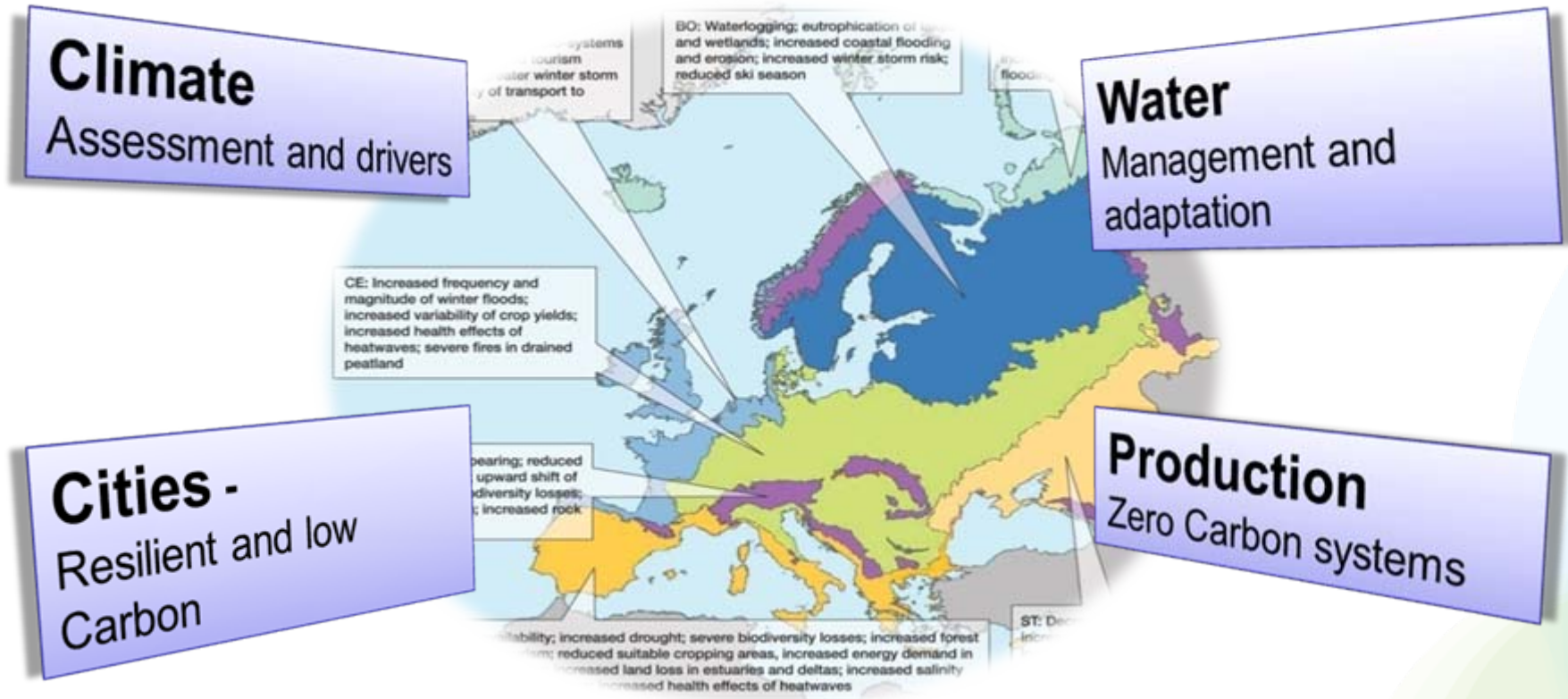
Vision

- **Catalyse** climate change innovation
- Create a **community** for climate change innovation
- Deliver **integrated** climate change innovation
- **Transform** Europe's response to climate change



Climate KIC

A Comprehensive Strategy for Climate Change Innovation

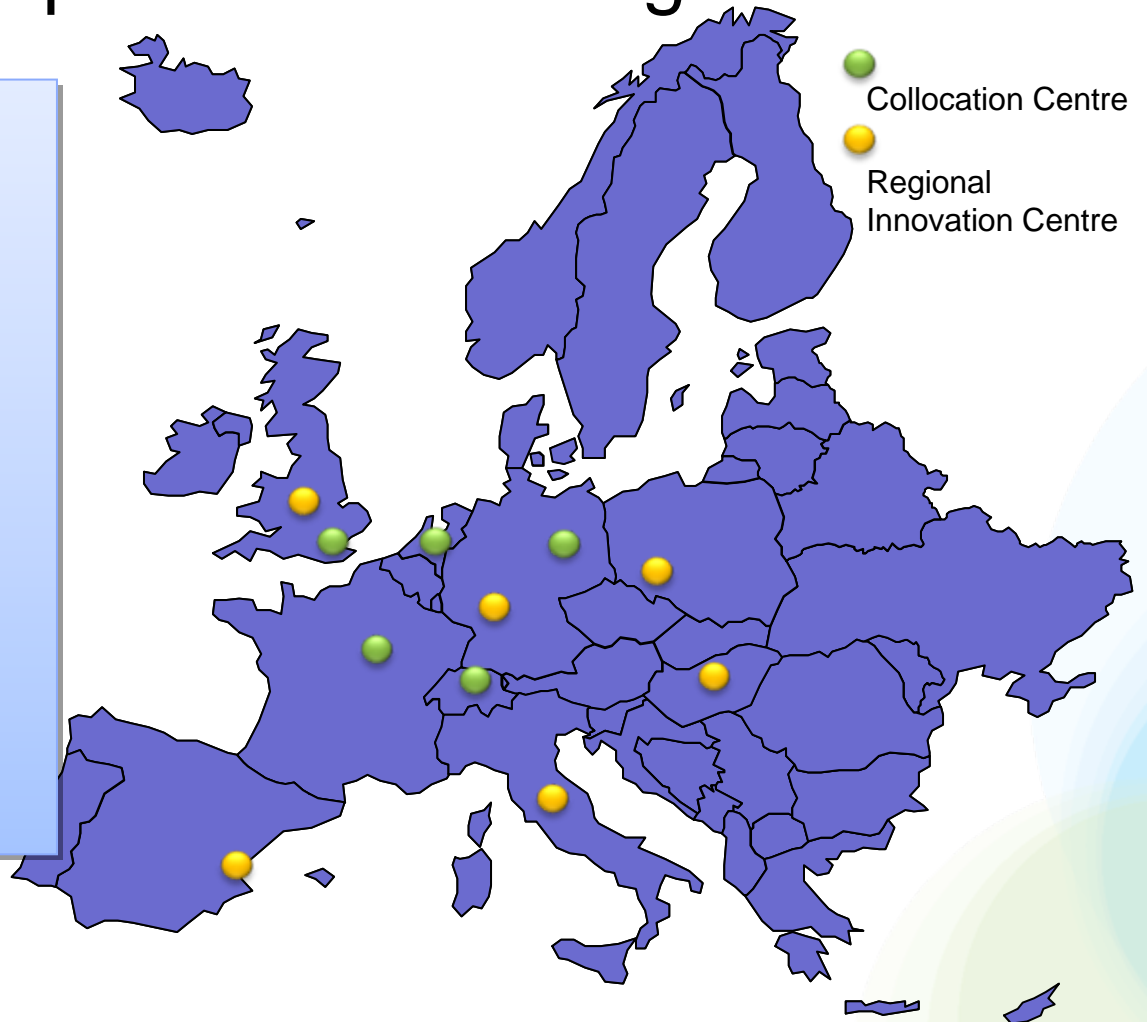


Climate KIC

European leadership in climate change innovation

Vision

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Climate KIC

From programme to innovation

Example – The 40 M ha Project

Zero Carbon Production Systems Programme

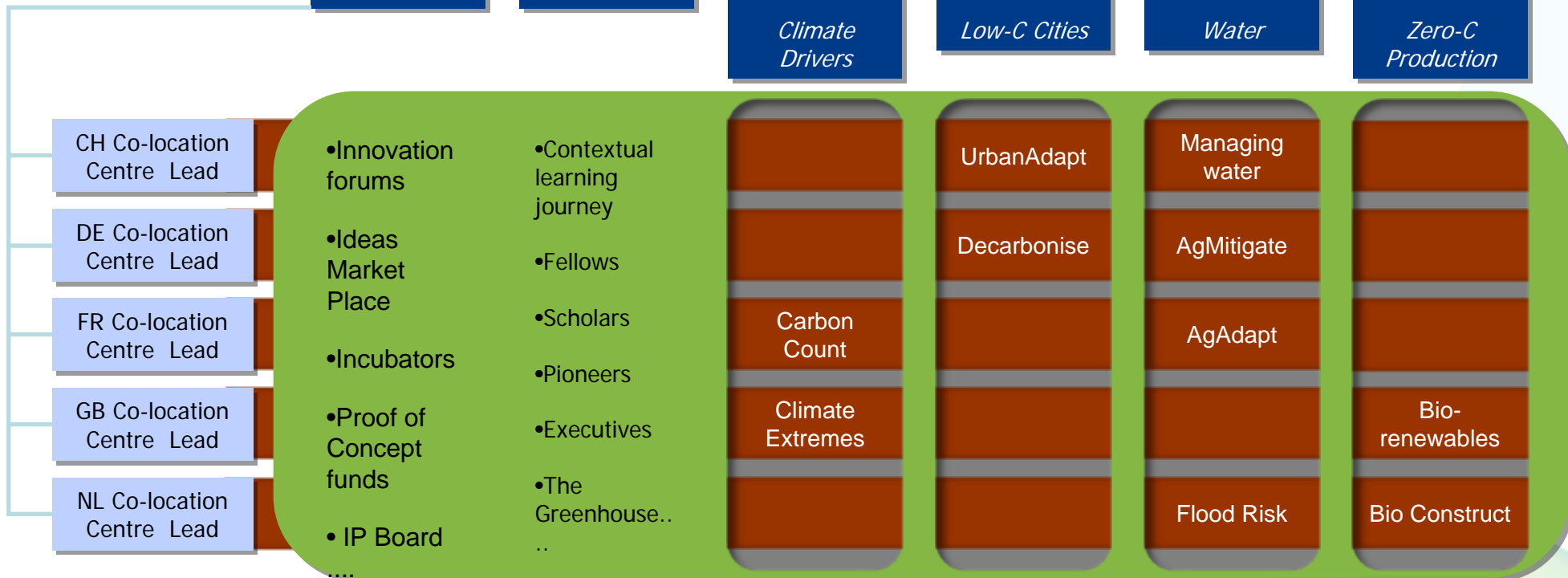
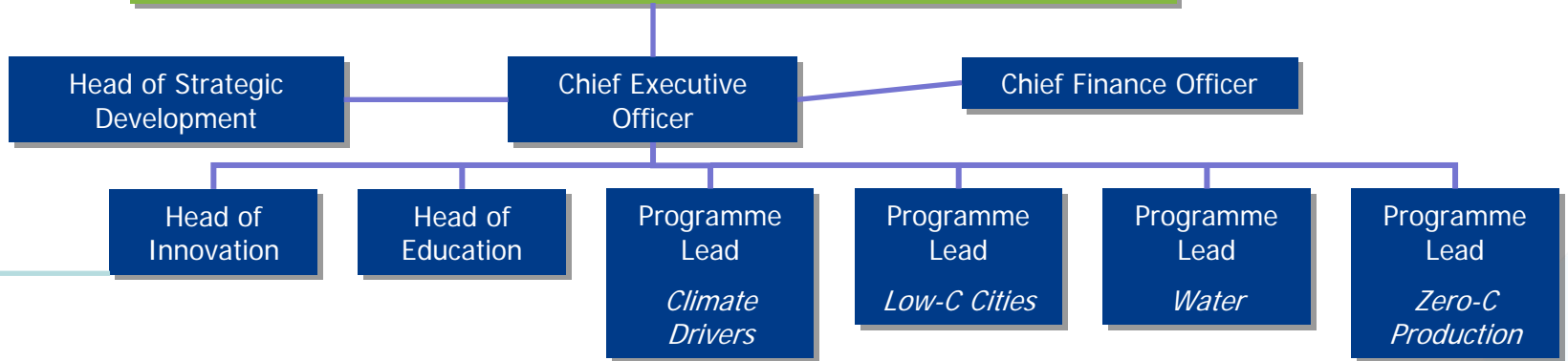
- **Targeting** 0.3 G tonnes of Carbon per year
- **Leadership** from the Dutch co-location centre
- **Partnership** across 5 corporations, 9 academic institutions and 2 regional innovation centres
- **Integrated across disciplines:** from plant biology to systems engineering and from climate modelling to economics and policy development
- **Community** of young researchers and innovators, experienced scientists and policy makers and entrepreneurs and implementers
- **Open innovation** via free movement of IP within the KIC
- **Designing the entrepreneurial space** through the synergies between research and innovation activities
- **Catalysing implementation** through piloting: crop and integrated biorefinery trials and demonstrations



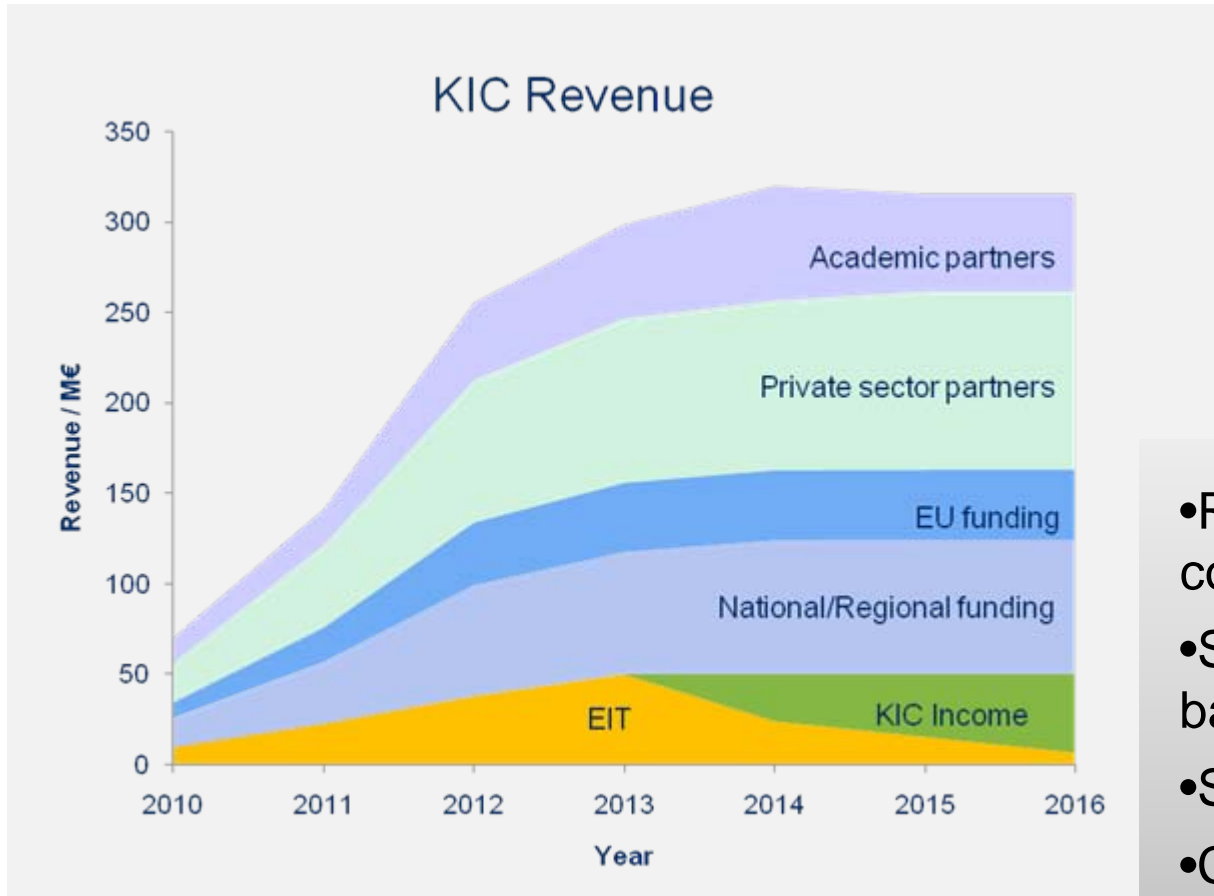
Climate KIC

Governance and management

Governing Board – Chair, core partners and CEO (17)



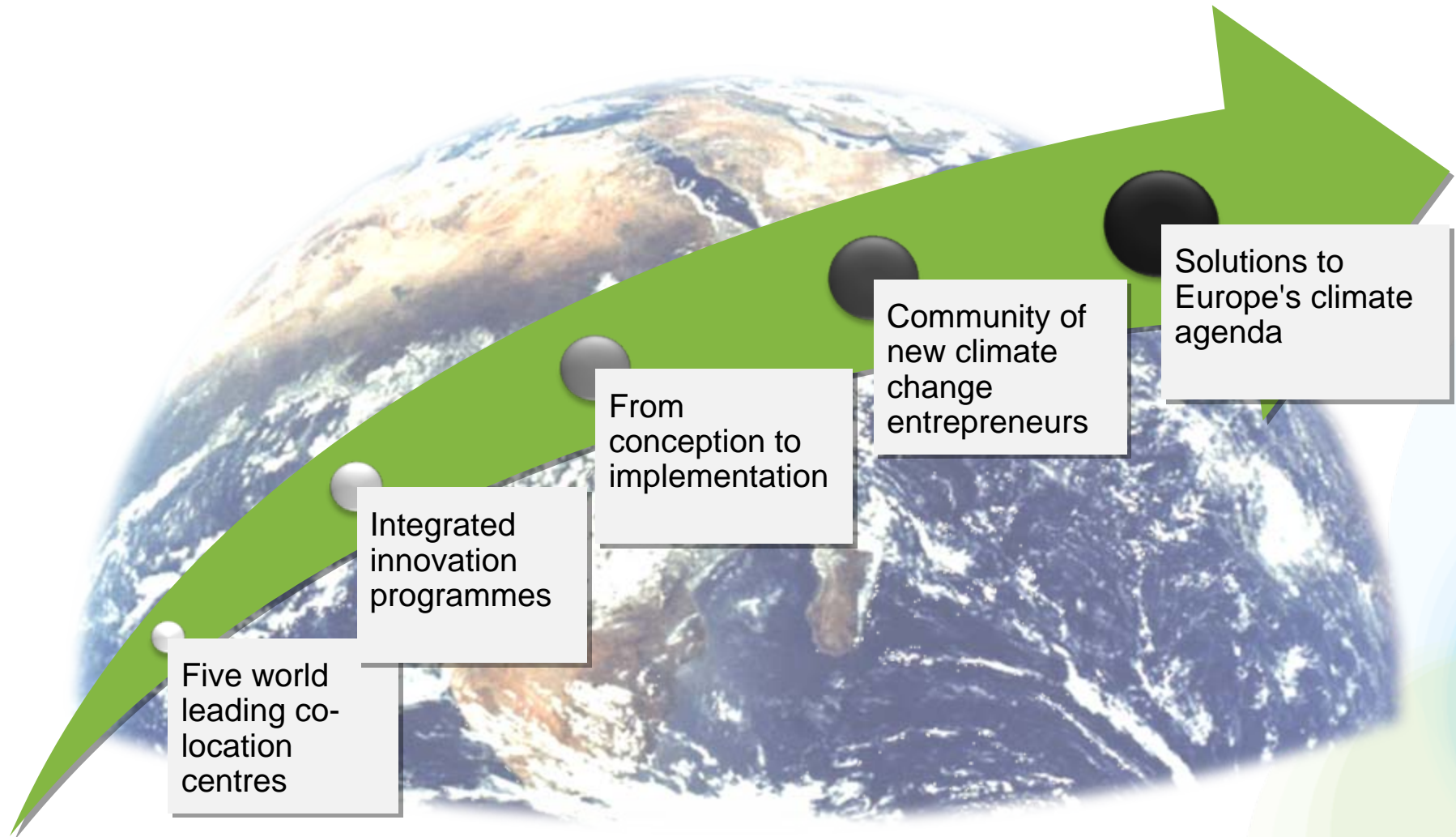
Climate KIC Business Plan



- Ramp up based on existing commitments
- Steady state with good balance in 5 years
- Self-sustaining by 2016
- Conservative assumptions

Climate KIC

A journey to a sustainable future



KICs - First Highlights

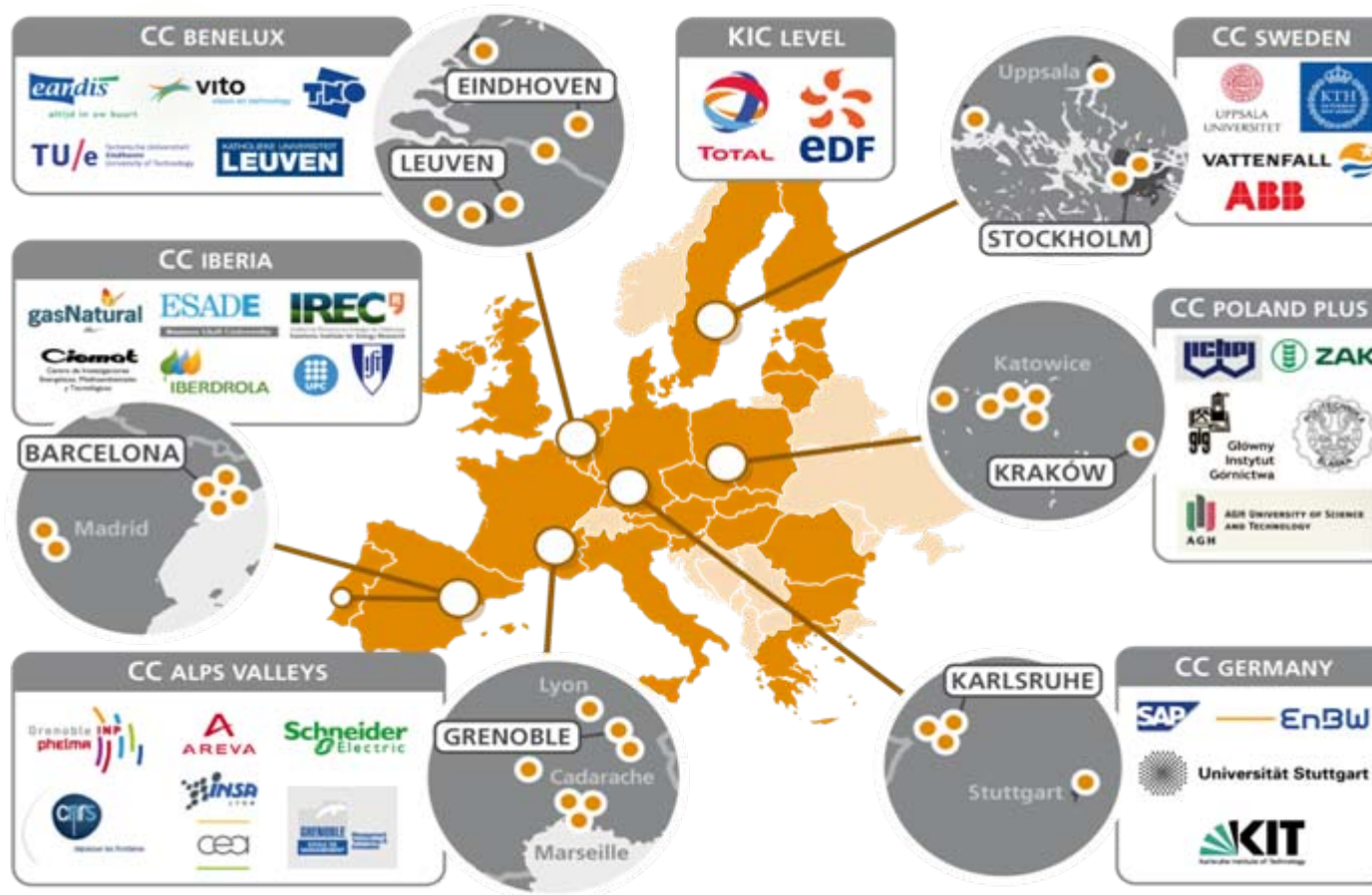


Climate-KIC Summer School: *Young entrepreneurs find their way into European market for climate change innovation*

KIC InnoEnergy: *From Science to Business Entrepreneurship course*



KIC InnoEnergy – A world class alliance of top European players with a proven track record



- 13 companies, 10 research institutes, 13 universities
- ~50% industry partners (incl. associated partners)
- >50% of key research players in Europe
- Covering the whole energy mix
- Knowledge triangle balanced along all dimensions
- Strong connection with VCs and local governments

EIT ICT Labs

Complete and complementary world class innovation hotspots

- 1 Goals
- 2 Co-locations
- 3 Innovation instruments
- 4 Management & governance
- 5 Business plan
- 6 Impact
- 7 Support

Berlin	Eindhoven	Helsinki	Paris	Stockholm
 	 High Tech Campus Eindhoven	 TECHNOPOLIS Otaniemi Science Park	 Alcatel-Lucent 	 kista SCIENCE CITY
 		  The Award of Excellence for Innovative Regions by the European Commission	 Pôles de Compétitivité	

+

Associate clusters in Budapest, London, Trento
Systematic build-up of innovation hot-spots outside our initial nodes

► Each Co-location features at least:

- One strong research institute
- One major university
- One European-based multinational company
- Active regional network of SME
- Full national and regional support

The way forward for the KICs

→ Act as a role model in Europe and beyond:

- Cross fertilization among KICs
- Integration, dissemination, and replication of joint learning from the first KICs, beginning with
 - EIT labeled degrees and diplomas
 - New businesses, business models and businesses processes
 - KIC governance and financial models
- International exposure and benchmark against best international and world-class practices



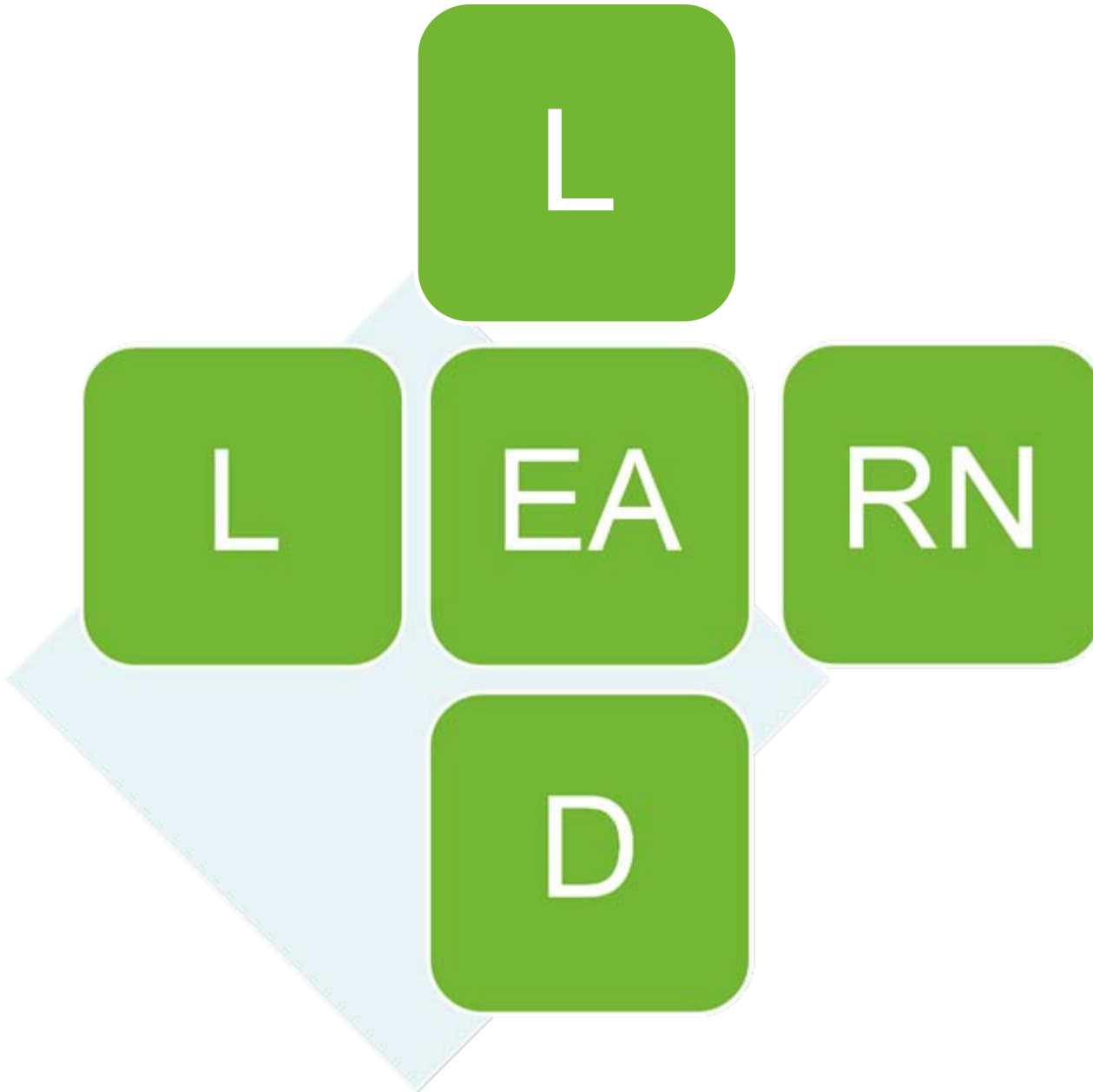
The way forward for the EIT

→ Building and promoting an EIT identity and culture

- Seeking **new ways** of delivering innovation, based on:
 - “Can-do” seizing new and emerging opportunities
 - Clear leadership
 - Entrepreneurship drive
 - Focus on impact: strong economic and societal returns
 - Output driven: Results and tangible deliverables
 - Simplicity
 - Re-balancing risk and control; trust
 - New ways of funding innovation: the EIT Foundation

**→ Make best use of EIT as an icebreaker
in the EU innovation landscape**





Thanks!