



European Institute of  
Innovation & Technology

# THE EIT: BUILDING BRIDGES AND SHAPING THE FUTURE OF EUROPE



**Alexander von Gabain – Chairman of the EIT Governing Board**

Czech Awareness Day

Prague – 22 January 2013

# ABOUT DISCOVERY, INVENTION, TRANSLATION & INNOVATION

1

## **Discovery:**

Finding out something  
not yet known

2

## **Invention:**

creating or designing  
something not existing  
before

3

## **Translation:**

processing discoveries and/or  
invention into innovation

4

## **Innovation:**

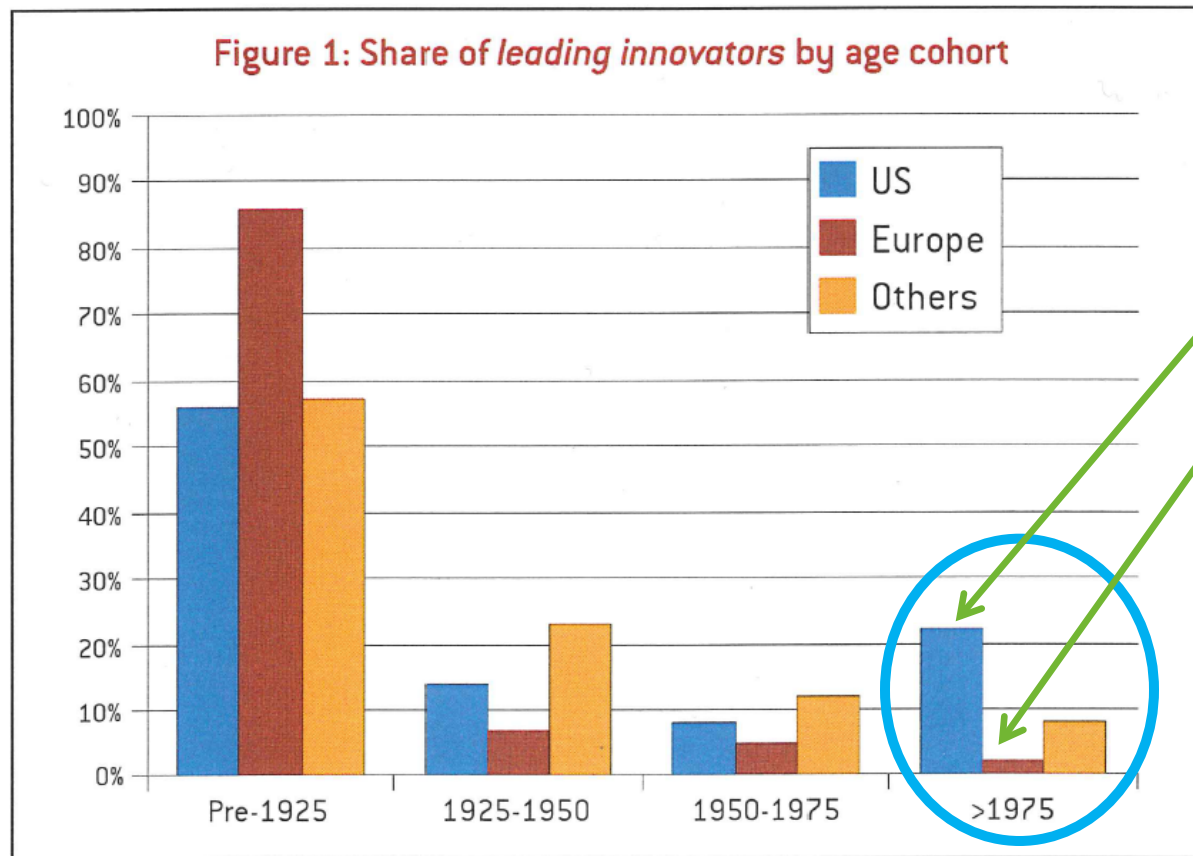
making changes with societal  
impact based on discoveries  
and/or invention

Excellent science & research are  
necessary yet not sufficient ingredients  
for innovation

# EUROPE'S UNLOCKED POTENTIAL TO SUPPORT WORLD-CLASS INNOVATION

- High level of education & solid academic base
- Historical power houses of research
- Top science at many universities and institutions
- Increasing number of centres of excellence
- Impressive corporations and SME in the innovation arena
- Long tradition of product development
- Growing European interactions between national R&D players

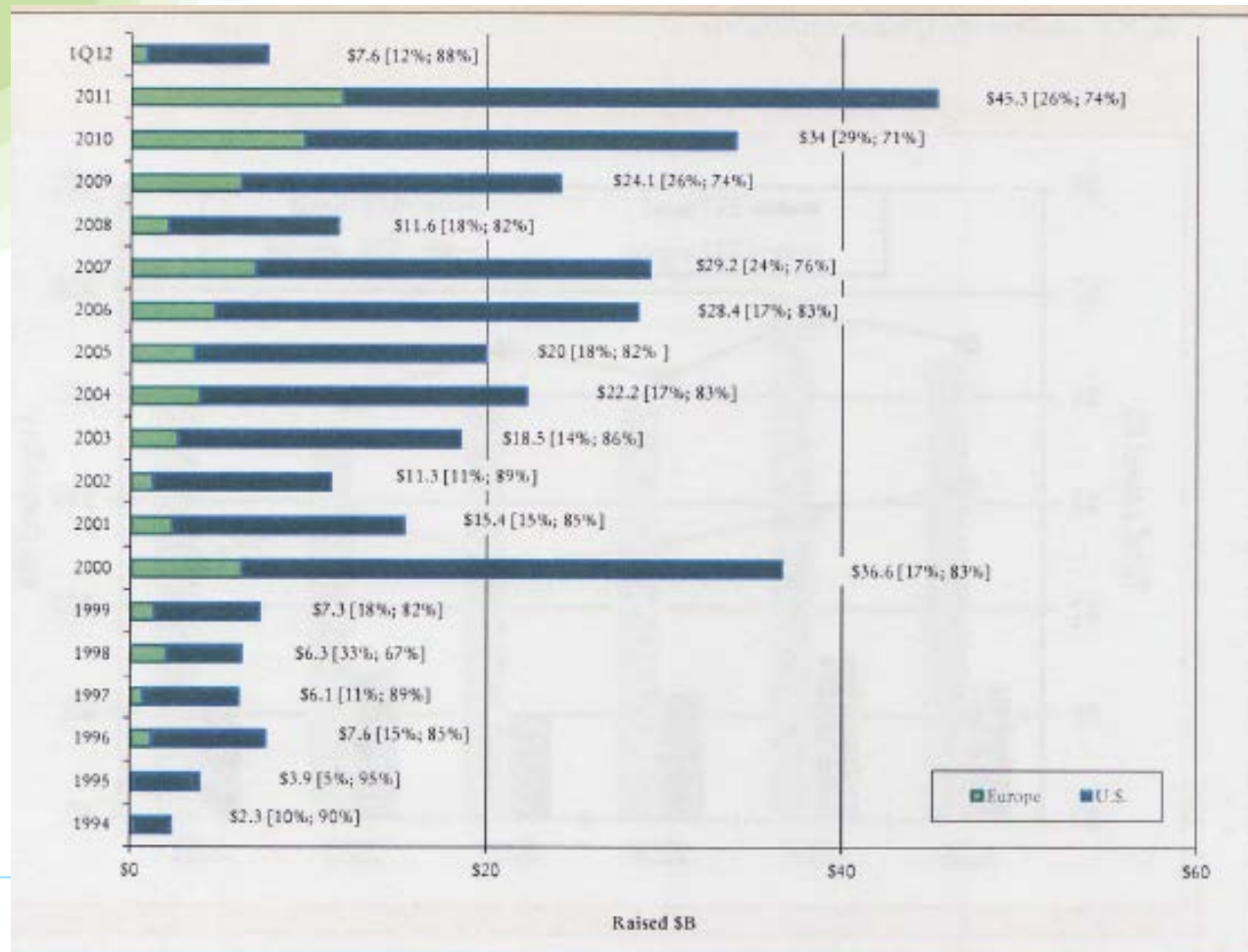
# AGE DISTRIBUTION OF INNOVATIVE COMPANIES: EUROPE V. US AND OTHERS



US: approx.  
**21%**  
EU: approx.  
**2%**

# THE FUEL OF INNOVATION: VENTURE CAPITAL FROM PRIVATE MARKETS

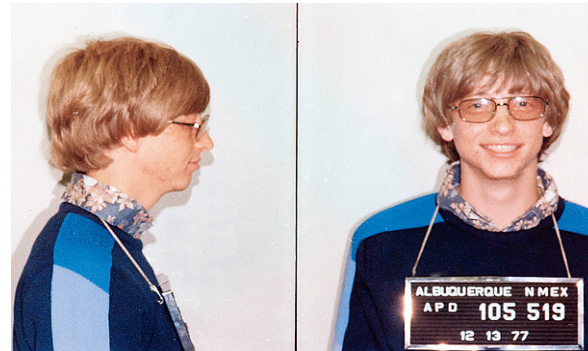
## BIOTECH FUND RAISING: USA VERSUS EUROPE



Source:  
Biocentury,  
May 2012

BEHRING, BATA, CITROEN, SIEMENS, REUTER = EUROPEAN HISTORY  
BOYER, GATES AND JOBS = U.S. REALITY!

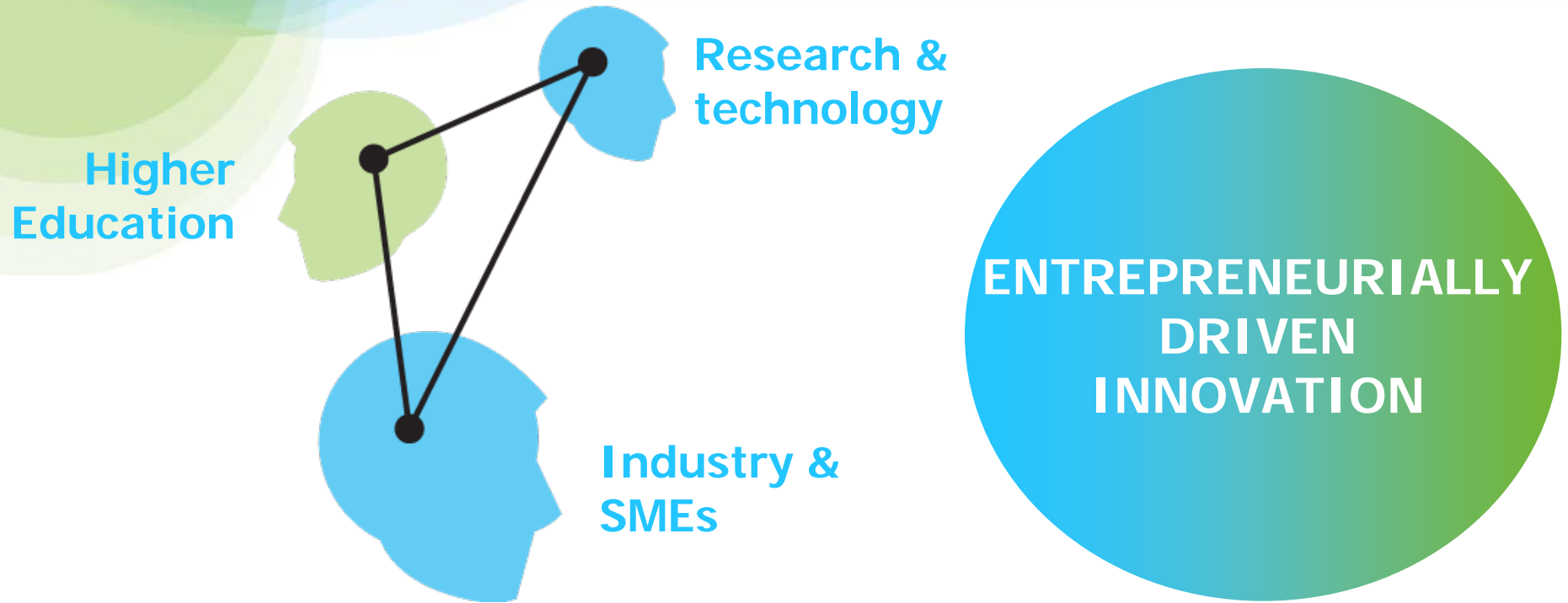
HOW  
to motivate kids  
to set up garage  
companies in  
Europe?



wanted



# THE EIT PROPOSITION FOR INNOVATION: INTEGRATING THE KNOWLEDGE TRIANGLE



Actors within the knowledge triangle are at the core of the **innovation web** beyond the traditional collaborative R&D consortia

# THE EIT STRATEGY

Place ownership, accountability & entrepreneurship into the centre of innovation

Overcome the silo mentality of the players within and between Member States

Create innovative ecosystems with global impact, targeting societal challenges

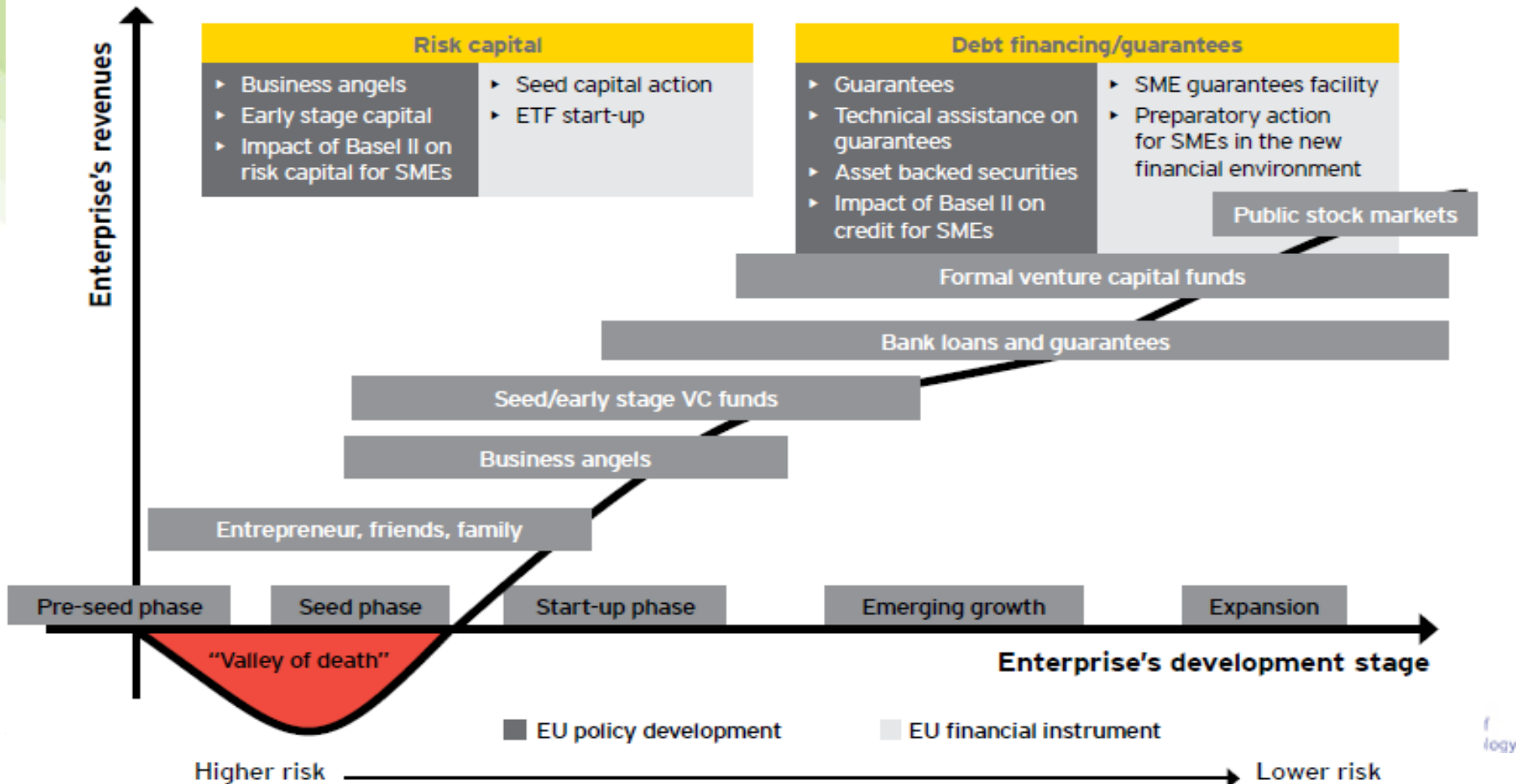
Seed-fund & catalyze the integration of the innovation triangle



# COME IN WITH SEED INVESTMENT WHERE A STEP CHANCE IS MOST NEEDED

SME development and funding instruments

Source: Renda et al. (2006)



# THE OBJECTIVES OF THE EIT

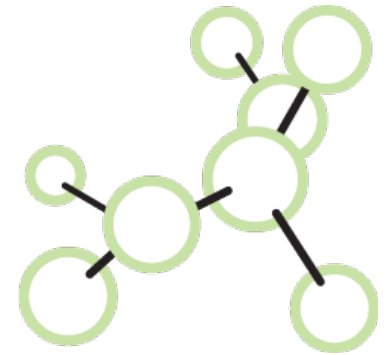
Its aim is to boost the innovation process:

→ from **idea to product**

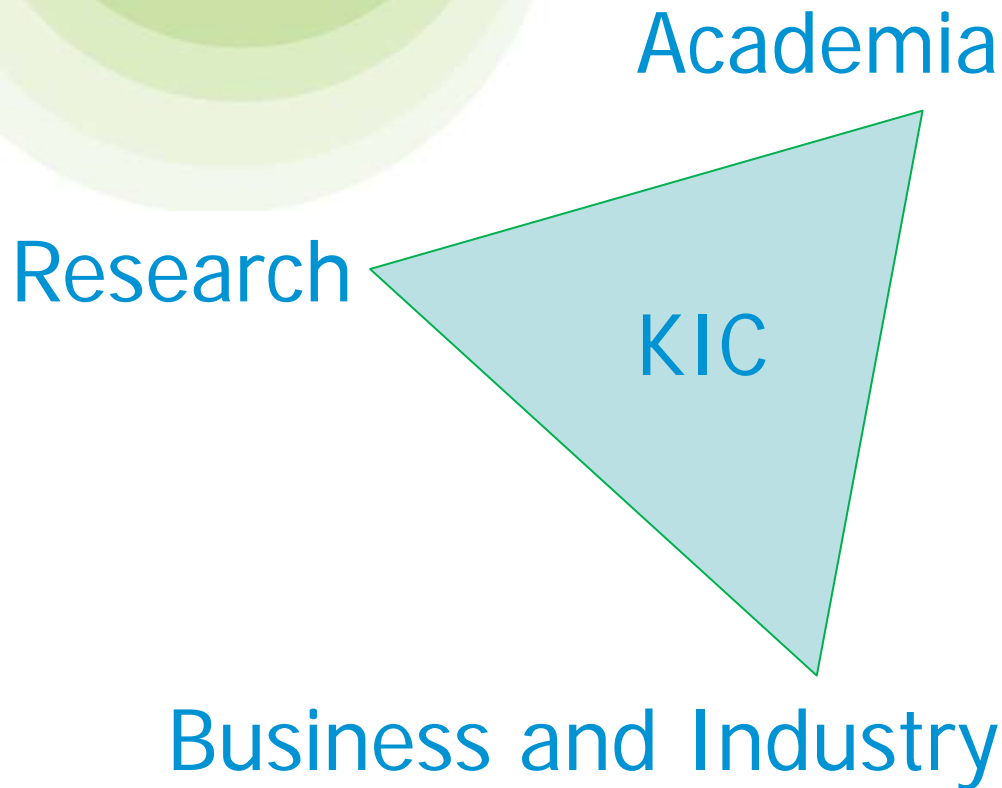
→ from **lab to market**

→ from **student to entrepreneur**

in areas of high societal need through its Knowledge and Innovation Communities (KICs).



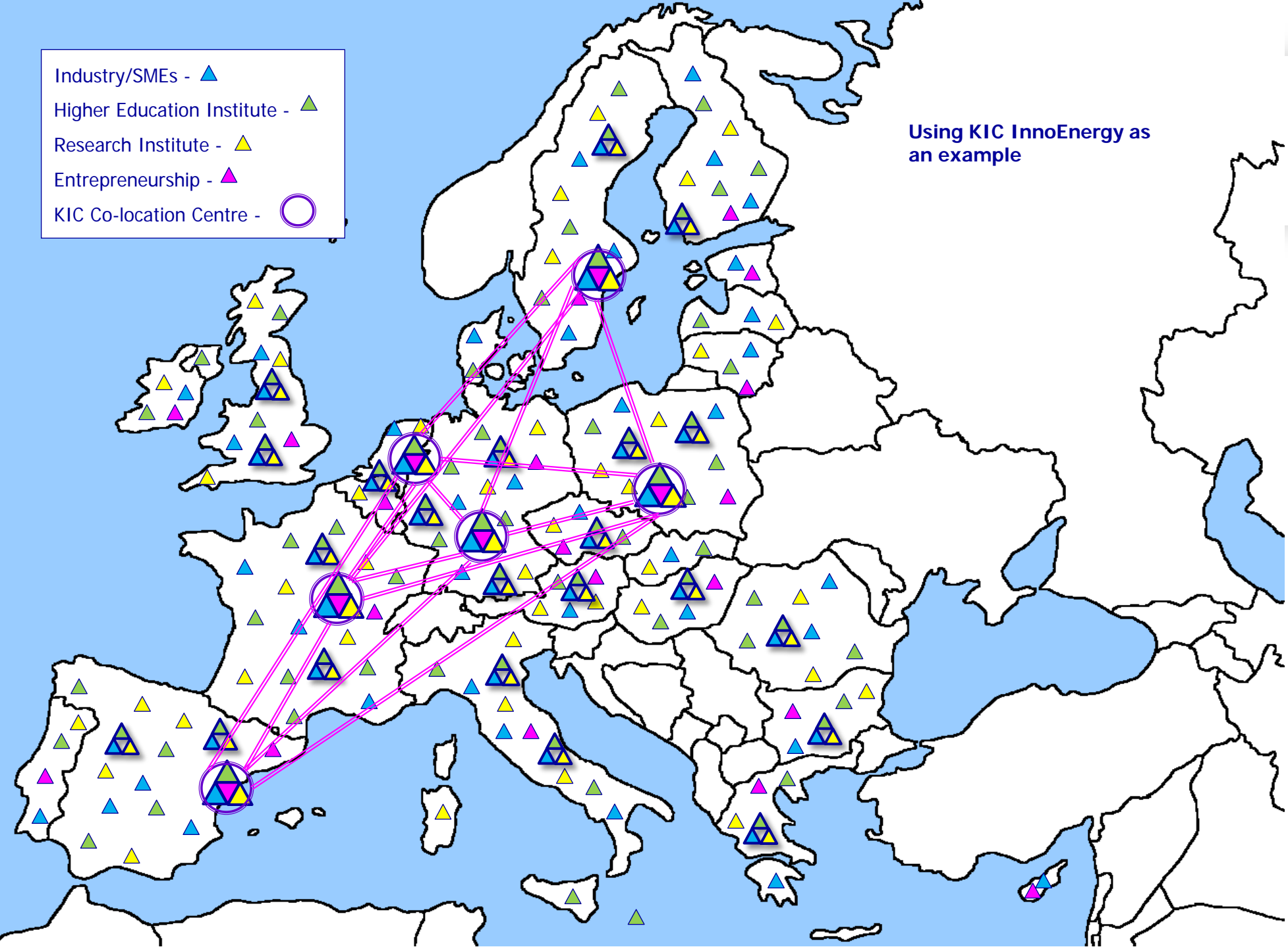
# THE LABORATORY AND THE FACTORY: KNOWLEDGE AND INNOVATION COMMUNITIES



- ▶ Innovation around a common theme
- ▶ Output focused: ideas exploited and entrepreneurs 'launched'
- ▶ Excellence
- ▶ International partnerships
- ▶ Long term, sustainable & autonomous
- ▶ Integration and exchange
- ▶ Bringing people together: co-location
- ▶ Clear governance: CEO and BP
- ▶ Up to 25% EIT funding

- Industry/SMEs - ▲
- Higher Education Institute - ▲
- Research Institute - ▲
- Entrepreneurship - ▲
- KIC Co-location Centre - ○

Using KIC InnoEnergy as an example



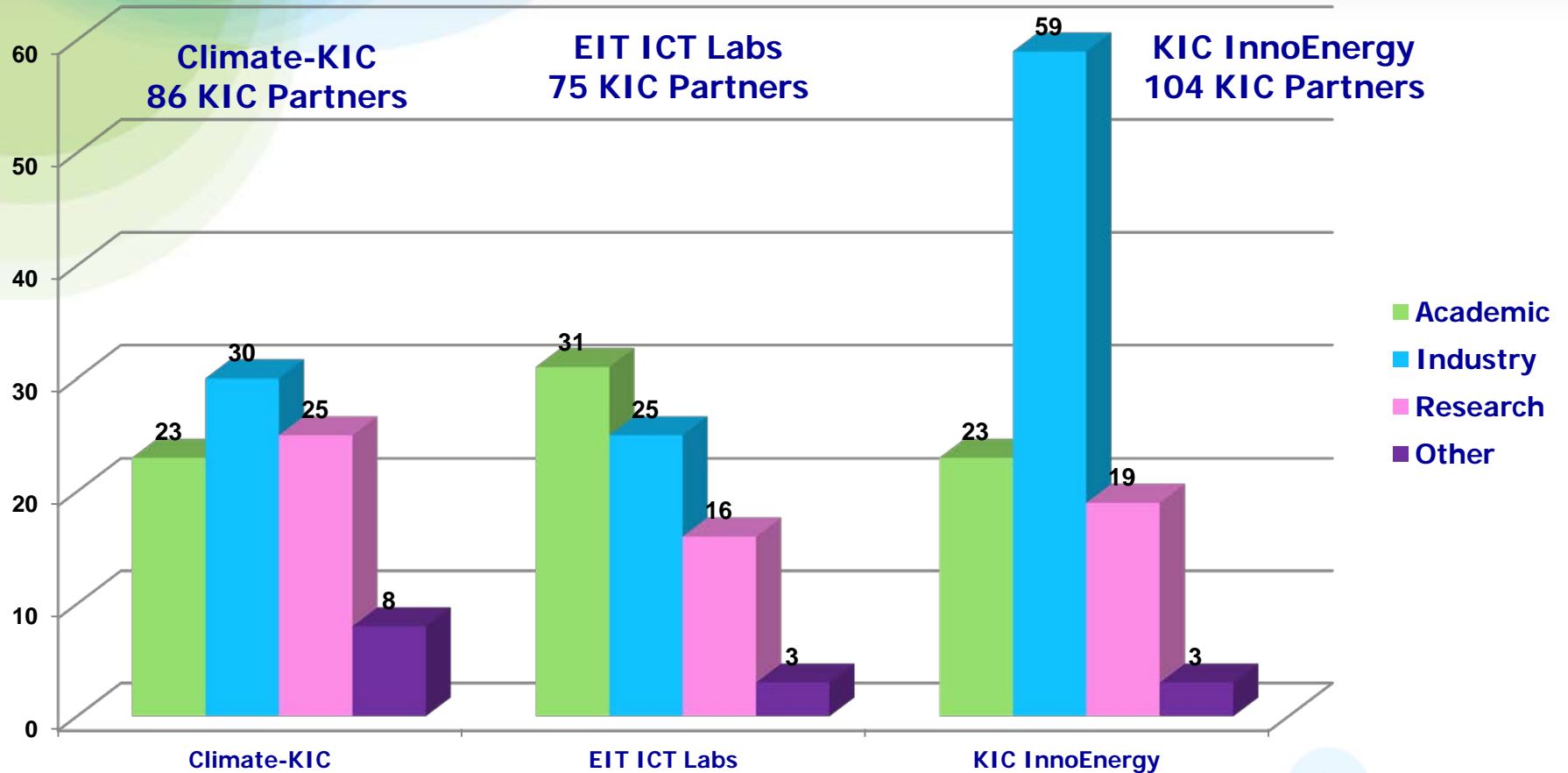


# CO-LOCATION CENTRES

- Each KIC has a handful of major nodes in different EU countries
  - World class centres: universities, business schools, industries or industry clusters, research organisations
  - Linking to other groups and centres in Europe and beyond
- Each major node is – and has – a co-location centre
  - Where the knowledge triangle comes together
- Bringing people together for
  - Mentoring
  - Exchange of ideas
  - Cultural understanding
  - Learning and training
  - International experience
  - Support
  - Collaboration
  - Inspiration

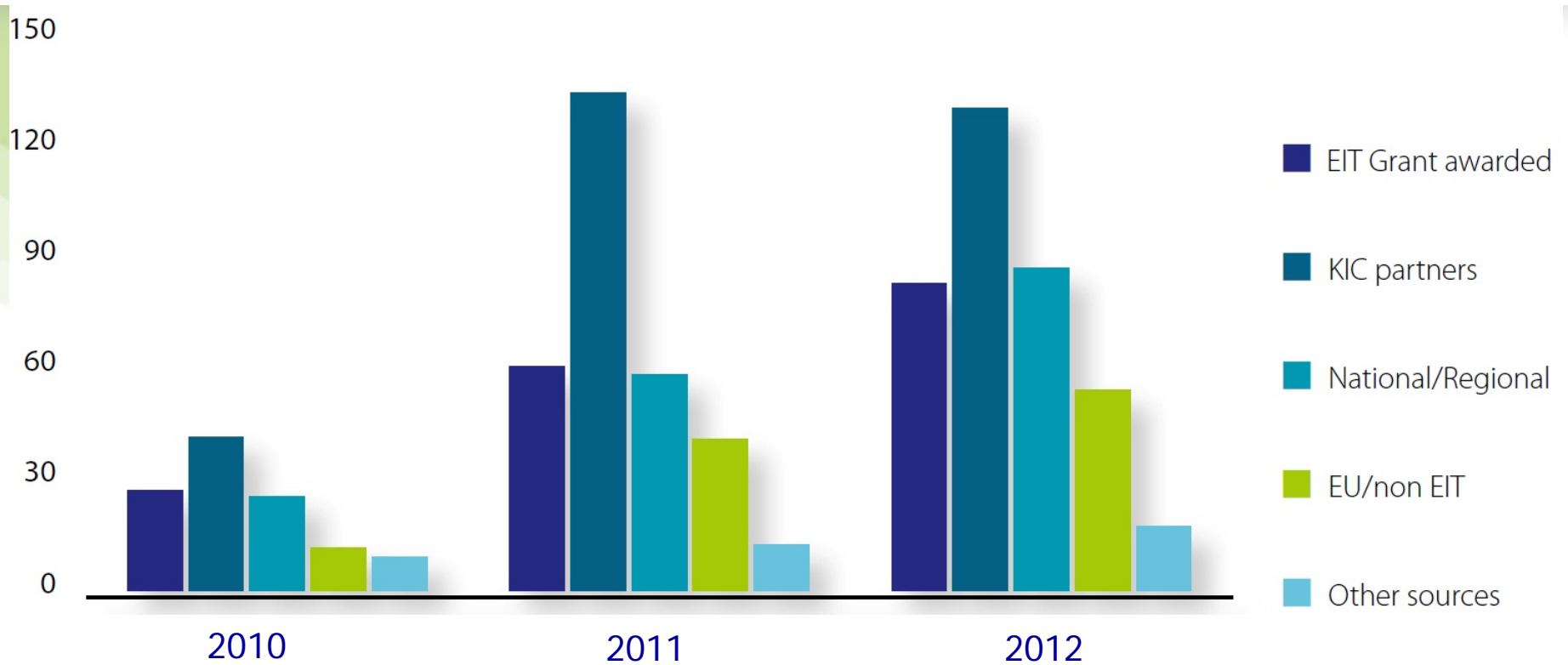
# KIC PARTNERS: 2010-2012

## 2012 KIC Partners



In 2012, the three KIC brought together over **260 KIC Partners**

# SOURCES OF KIC FUNDING: 2010-2012



**Total KICs Budget per year - Sources of funding (in million €)**



# KICs EUROPEAN IMPACT AND GOOD PRACTICE

## Climate KIC:

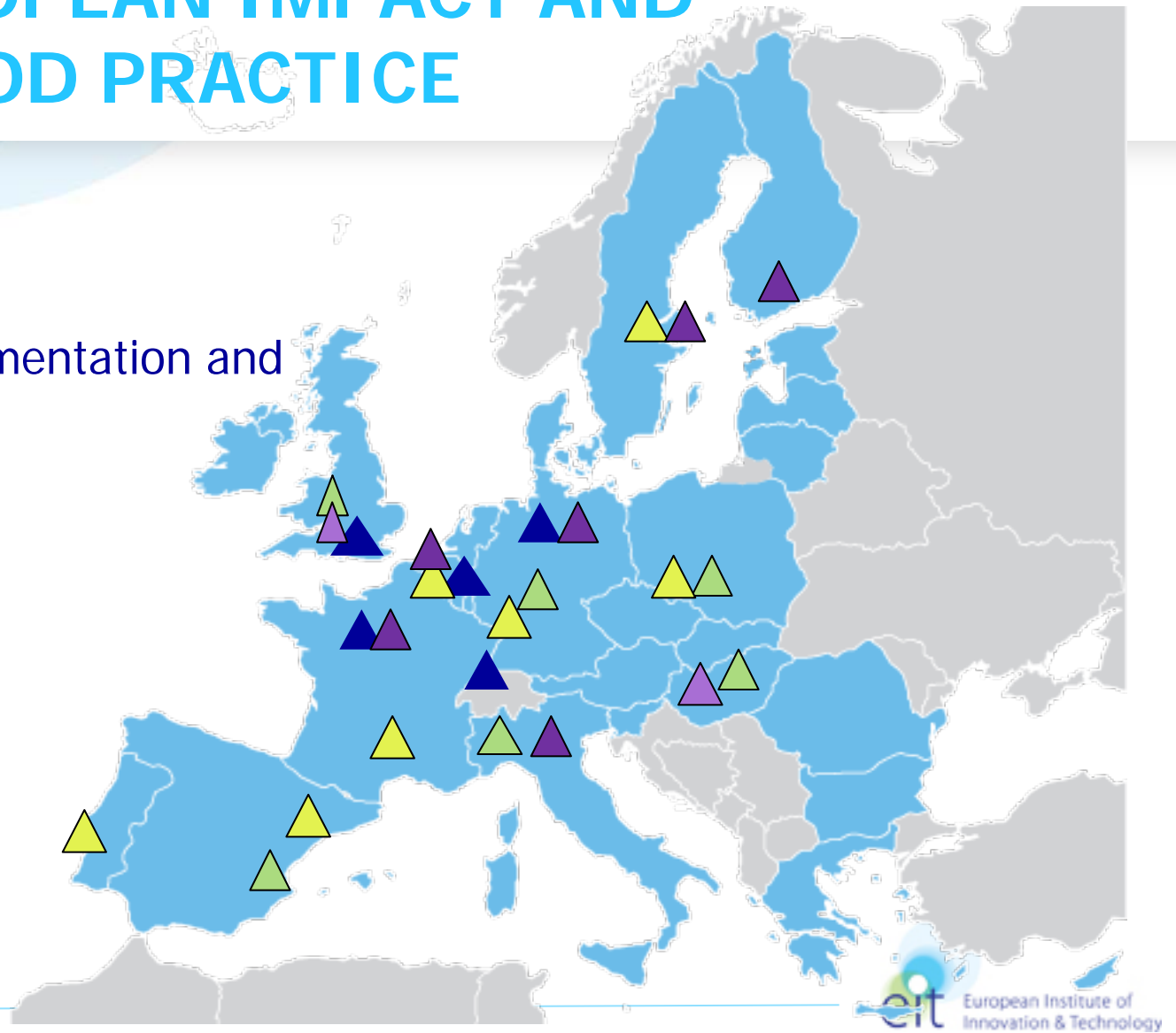
- ▲ Co-location centre
- ▲ RIC (Regional Implementation and Innovation Centre)

## EIT ICT Labs:

- ▲ Co-location centre
- ▲ Associate Partner

## KIC InnoEnergy

- ▲ Co-location centre



# Climate-KIC

- **Mission:** to accelerate significantly the innovation required for a transformation to a low-carbon economy, and to ensure Europe benefits from new technologies, company growth and jobs
- **Thematic Focus Area:** assessing climate change and managing its drivers, transitioning to resilient, low-carbon cities, advancing adaptive water management and developing zero carbon production systems
- **Governance:** CEO - Mary Ritter, Chairman - John Schellnhuber
- **Partners** inc. Bayer, EDF, GDF Suez, DSM, Schipol Airport ETH Zurich, Imperial College London, Potsdam Institute for Climate Impact Research PIK, Technische Universität Berlin, Forschungszentrum Jülich GmbH, l'Institut national de la recherche agronomique INRA, Delft University of Technology & Utrecht University,...

# KIC InnoEnergy

- **Mission:** To become the leading engine of innovation in the field of sustainable energy.
- **Thematic Focus Area:** energy from chemical fuels, renewables, clean coal technologies, sustainable nuclear and renewable energy convergence, intelligent, energy efficient buildings and cities and European smart electric grid and electric storage
- **Governance:** CEO - Diego Pavia, Chairman - Karl-Friedrich Ziegahn
- **Partners** inc. EnBW, Vattenfall, Karlsruhe Institute of Technology (KIT), Grenoble Ecole de Management, CEA, EDF, VITO, ESADE, Gas Natural Fenosa, TNE, K.U. Leuven, ABB, KTH, AGH University of Technology, Central Mining Institute,...

# EIT ICT Labs

- **Mission:** EIT ICT Labs intends to turn Europe into the global leader in ICT innovation by establishing a new type of partnership between leading companies, research centres and universities in Europe.
- **Thematic Focus Area:** smart spaces, smart energy systems, health and wellbeing, digital cities of the future, future media and content delivery and intelligent mobility and transportation systems
- **Governance:** CEO – Willem Jonker , Chairman – Henning Kagermann
- **Partners** inc. Alcatel Lucent, Fraunhofer, KTH, Nokia, Aalto University, Ericsson, INRIA, Philips, Orange, SAP, Siemens, TRENTO Rise, Universite Paris Sud, Telecom Italia, VTT,...

# KIC ACHIEVEMENTS SINCE THEIR IMPLEMENTATION 2010

- **17** innovation hotspots spread across Europe
- More than **280** partners from industry, research, academia and other relevant institutions
- Approx. **170 million €** EIT seed investment topped by the three KICs with more than **600 million €** derived from external sources
- KICs have recruited more than **1000** students into about **20** specific educational programmes integrating interdisciplinary innovation and entrepreneurship
- Approx. **100** relevant innovation projects initiated by the KICs, **27** start-up companies, about **35** newly filed patent applications and **100** novel services and products in the pipeline



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# The role of the EIT Headquarters

# Triennial Work Programme 2013-2015

## *Priorities*

- 1. Consolidation of current KICs**
- 2. Preparing for the EIT's next round of KICs**
- 3. Enhancing the EIT's impact as an Institute**



# EIT DRIVING CROSS-KIC AGENDAS

## EDUCATION

Promoting excellent education for creativity, innovation and entrepreneurship by high quality EIT labelled degree programmes, fostering a vibrant EIT student & alumni community.

## ENTREPRENEURSHIP

Promoting a risk taking mindset and culture by creating more favourable environments for passionate entrepreneurial talent and entrepreneurship driven innovation to flourish.



## WORLD-CLASS INNOVATION

Developing innovative ecosystems to create and grow world-class, breakthrough innovations, optimising exploitation of KIC synergies and complementarities at European level (cross-border).

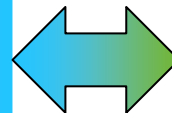
# EIT ADDED VALUE AGENDAS

## MONITORING

Develop an overall framework for managing, monitoring and measuring performance and impact of EIT and KICs' activities, focusing on achievements, outputs and generation of both economic and societal impact benchmarked against best international practices.

## SIMPLIFICATION

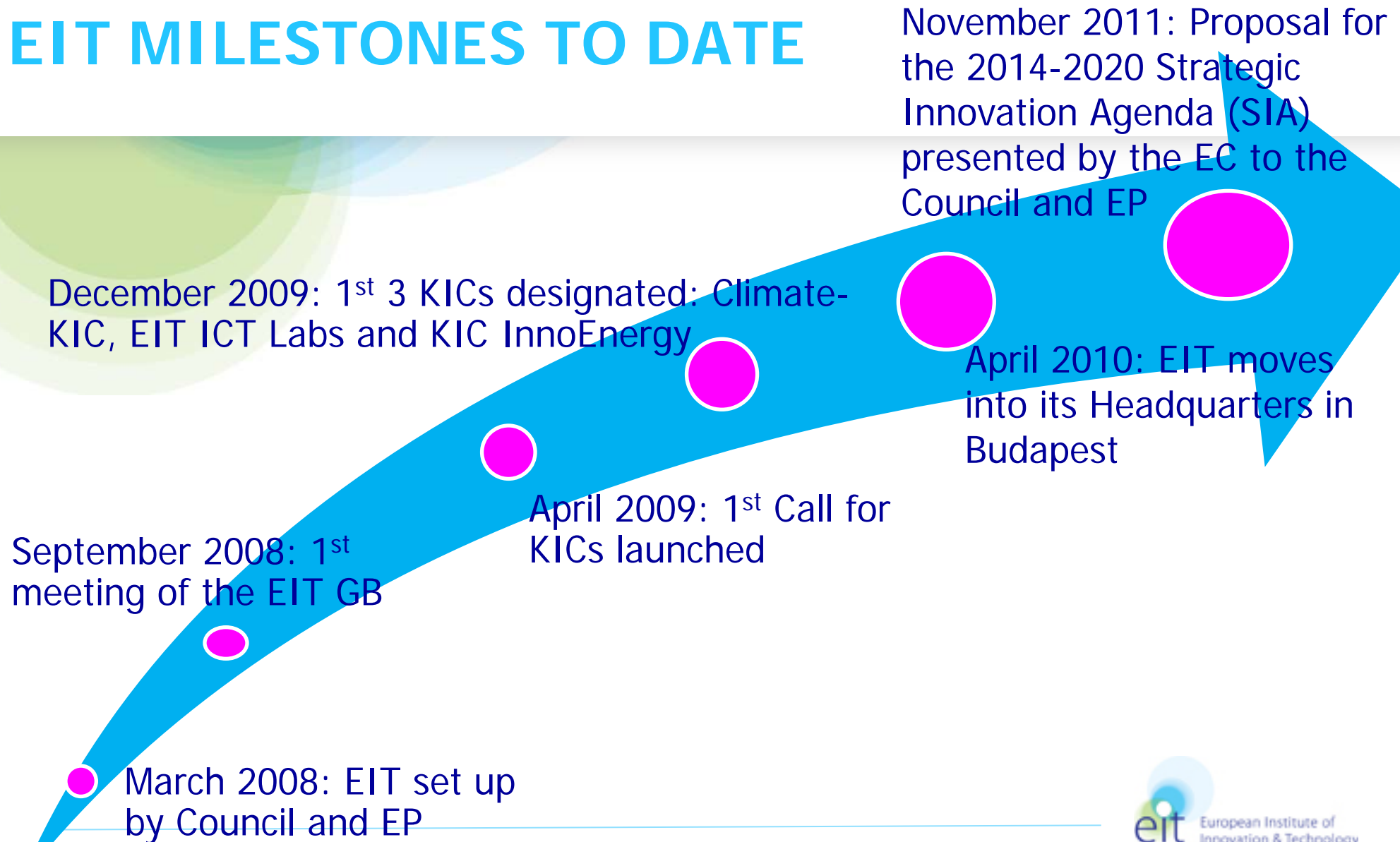
Simplification is embedded in the EIT operation and an integral part of its supporting function towards the KICs. The EIT will deliver a simplification agenda in key areas such as contractual agreements, simplified reporting, lumps sums and flat rates.



## OUTREACH & DISSEMINATION

The EIT must increasingly foster knowledge exchange, dissemination of results and innovation models via outreach activities realising provisions of the SIA such as an overall EIT community, Stakeholders Platform/Forum and the EIT Fellowship programme

# EIT MILESTONES TO DATE



# The future of the EIT

- Consolidate the current KICs and set up 6 further KICs:
  - 2014: healthy living & active ageing, food4future, raw materials
  - 2018: added value manufacturing, smart secure societies & urban mobility
- Together with the KICs create ecosystems
  - that attract private investors and public funds (e.g.: EIB and EDB)
  - that become accepted and interconnected by/with the global innovation arena
  - that become financially self sustainable in the long term
- EIT to become a hub providing knowledge to all stakeholders within the innovation knowledge triangle