

THE EIT: BUILDING BRIDGES AND SHAPING THE FUTURE OF EUROPE

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Chairman of the EIT Governing Board

EIT Conference: “Fostering Innovation and Strengthening Synergies within the EU”

Dublin, 29 - 30 April 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

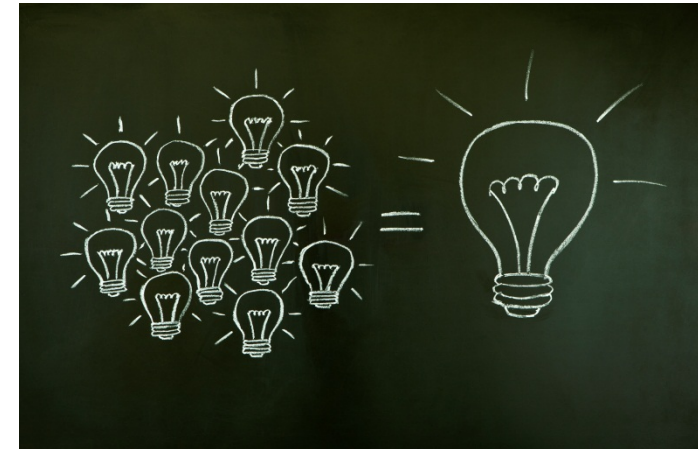
Innovation:

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 & science
- Increasing number of centres of excellence
- Impressive corporations and SMEs
- Long tradition of product development
- Growing European interactions between national R&D players



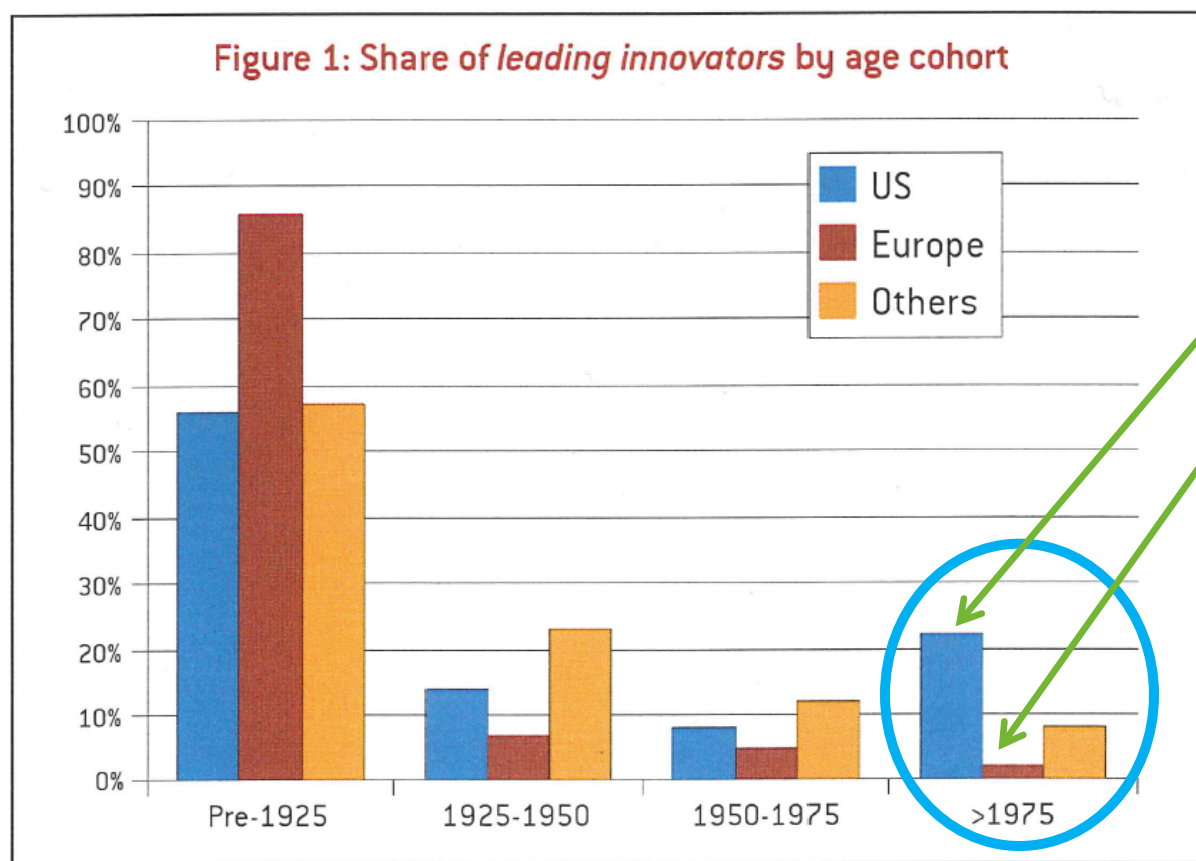
EXAMPLE

BIOTECH – WHAT CAME OUT FOR EUROPE

CREATING VALUE - CREATING JOBS

	Europe	USA
No. of employees	63,000	172,000
Average Investment per year	EUR 6 bn	EUR 18 bn
Public listed	<10%	>30%
Origin of patents from commercial enterprises	~ 28%	~ 52%
Total value of companies	EUR ~30 bn	EUR ~300 bn

THE SMOKING GUN: AGE DISTRIBUTION OF INNOVATIVE COMPANIES



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

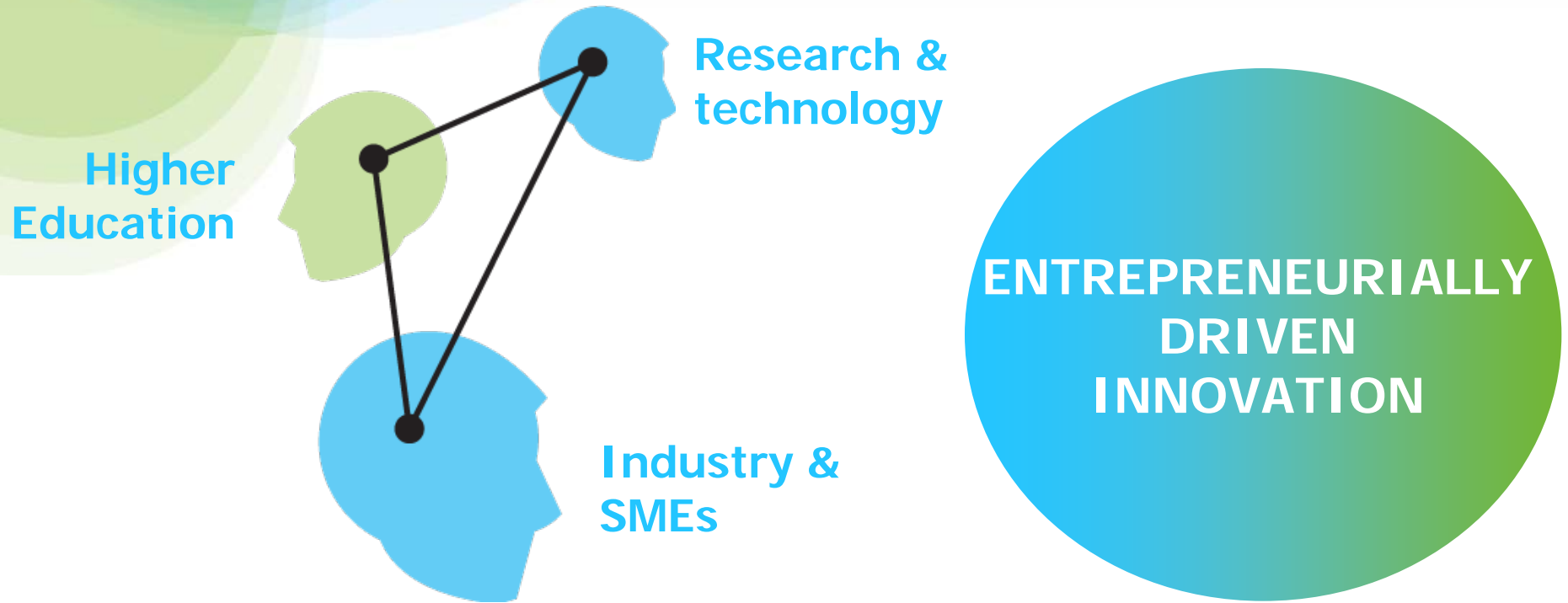
HOW TO ENCOURAGE THE GROWTH OF YOUNG VENTURES IN EUROPE?

Europe has a history of brilliant entrepreneurs but data suggest we need an *'entrepreneurial renaissance'* to strengthen our ability to compete globally



wanted

THE EIT PROPOSITION FOR INNOVATION: INTEGRATING THE KNOWLEDGE TRIANGLE



Partners and people within the knowledge triangle are at the core of the **innovation web** beyond the traditional 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

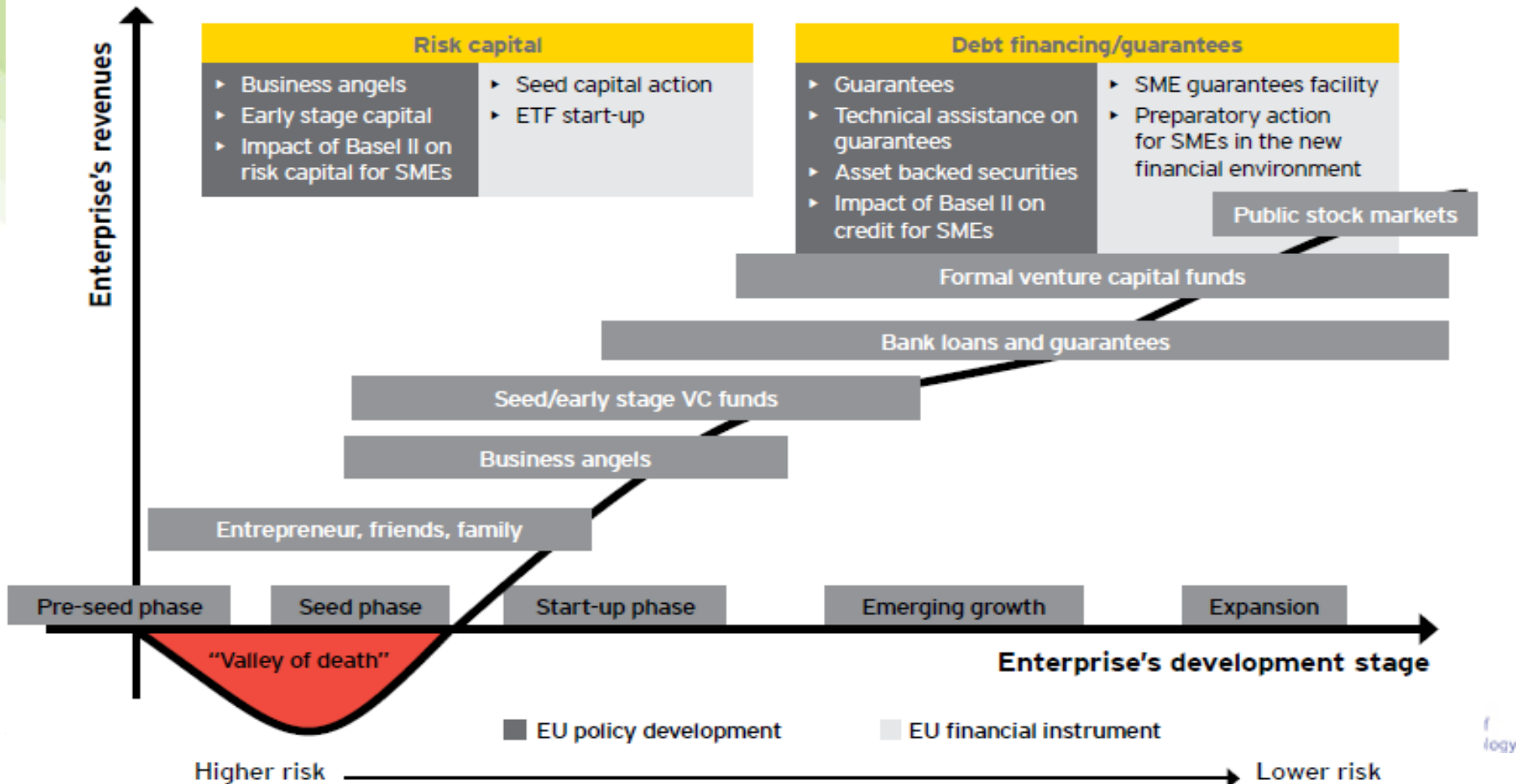
Create innovative ecosystems with global impact, targeting societal challenges

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 EIT's OBJECTIVES

Its aim is to boost the innovation process:

→ from **idea to product**

→ from **lab to market**

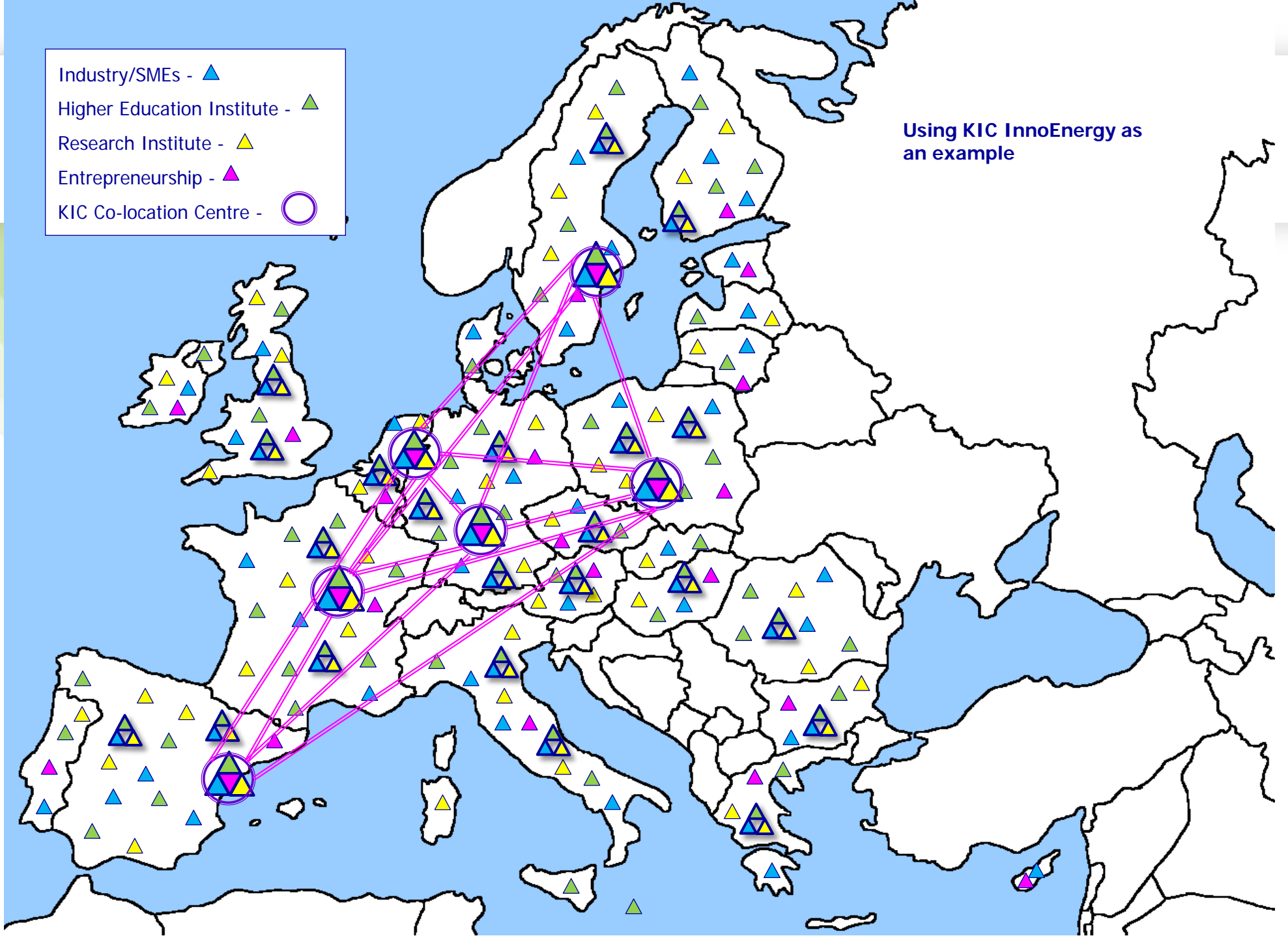
→ from **student to entrepreneur**

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



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

Using KIC InnoEnergy as an example



KICs EUROPEAN IMPACT

Climate KIC:

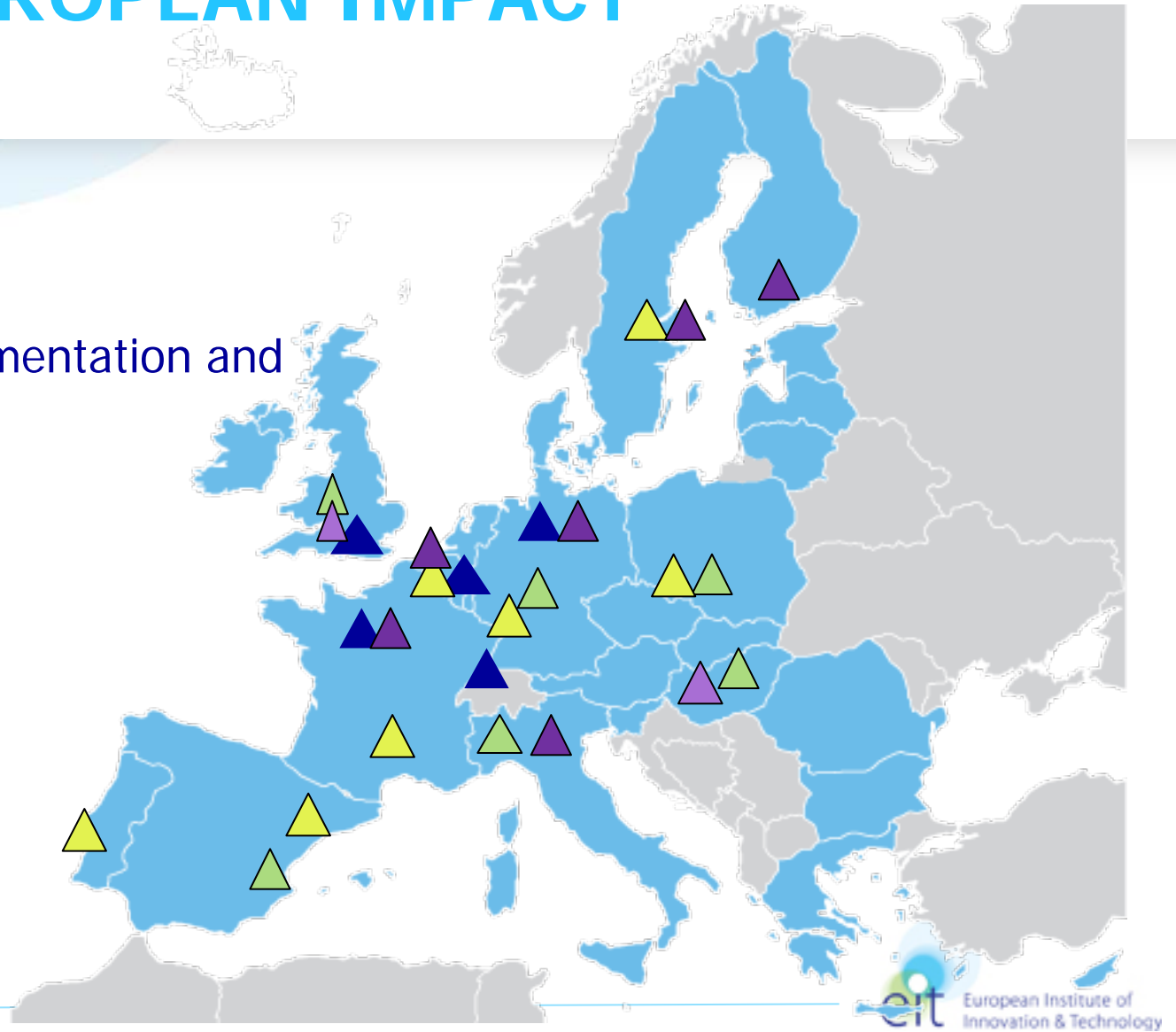
- ▲ Co-location centre
- ▲ RIC (Regional Implementation and Innovation Centre)

EIT ICT Labs:

- ▲ Co-location centre
- ▲ Associate Partner

KIC InnoEnergy

- ▲ Co-location centre

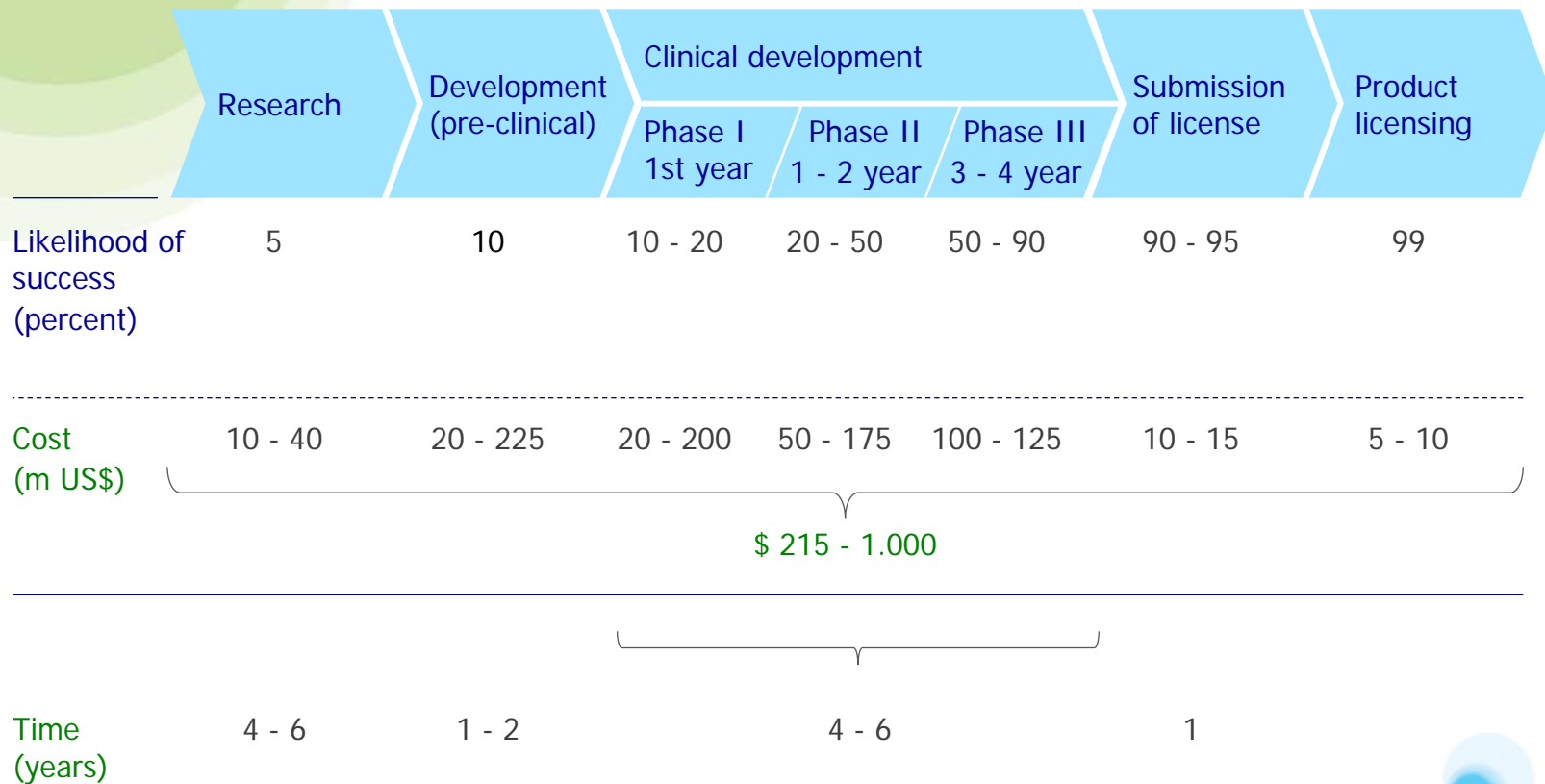


KIC ACHIEVEMENTS SINCE THEIR IMPLEMENTATION IN 2010

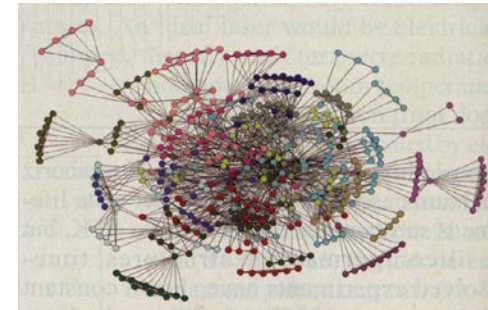
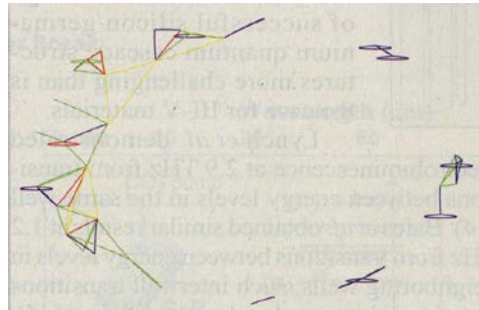
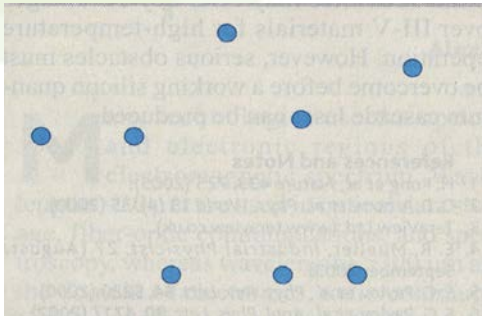
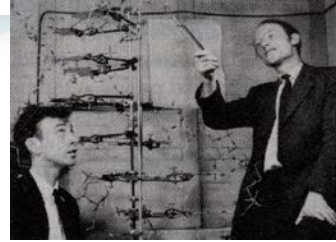
- **17** innovation hotspots spread across Europe
- More than **350** partners from business, higher education and research and other relevant institutions
- Approx. **300 million €** EIT investment into the existing three KICs with more than **1.1 billion €** leveraged from external sources
- KICs have recruited more than **1000** students into about **20** specific educational programmes integrating interdisciplinary innovation and entrepreneurship
- Approx. **90** innovation projects initiated by the KICs, **108** start-up companies, 400 business ideas incubated.

INNOVATION IS COMPLEX, TAKES TIME AND NEEDS INVESTMENTS AND IS RISKY

Example: development of new pharmaceuticals



NEW PARADIGMS IN INNOVATION: FROM SINGLE GENIUSES TO COMPLEX NETWORKS



- Go for the best individuals
- Make sure they understand the master plan
- Make sure they form a strong team
- Create respect for the involved competence areas
- Complement strength/weakness profiles of the team members

Source:
Science,
Vol. 308,
p. 640

EIT INNOVATION - AN INTEGRATED APPROACH TOWARDS SUCCESSFUL KICs



MANAGEMENT WILL BE KEY ON THE EIT JOURNEY TO UNLOCK INNOVATION IN THE KICs

- THE EIT NEEDS TO MANAGE AND TO MONITOR THE INVESTMENT INTO THE KICs
- THE KICs NEED TO MANAGE COMPLEXITY TO BUILD THEIR PAN EUROPEAN 'INNOVATION FACTORIES'
- ENTREPRENEURS AND INTRAPRENEURS FOSTERED WITHIN THE KICS NEED TO BE EDUCATED TO TAKE ADVANTAGE OF MANAGEMENT SKILLS
- THE GROWTH OF KIC PARTNERS RELIES ON MANAGEMENT SKILLS
- HOWEVER, A SMART BALANCE BETWEEN ENTREPREUNERIAL 'OBSESSION' AND MANAGERIAL SKILLS NEEDS TO BE MAINTAINED

... Innovation powered by the EIT! ...

... Research on the move! ...

... Entrepreneurs in the making! ...

