TII 2015 Annual Conference
Innovating Innovation: Exploring New ways to create

Innovation addressing societal challenges – 20 years of EU innovation policy

Singapore, 18 May 2015

DG Research and Innovation
WOW!
Outch!
The relative size of the EU 2010 - 2050

World GDP (constant USD), Source: Global Europe 2050
Can innovation change the course?
Innovation – and ...

... THE PUBLIC UNDERSTANDING
- synonymous with "hope"
- "dangerous" (Flaubert)
- the common misunderstandings

... THE OECD DEFINITION ...
- new/significantly improved product or process

... THE ACTORS
- companies
- public sector (incl. academia)
- "third sector"
- the "crowd"
Innovation and competitiveness

Business R&D intensity and multi-factor productivity

Source: DG Research and Innovation – Economic Analysis unit


Research and Innovation
Innovation and jobs

Source: DG Research and Innovation - Economic Analysis unit (2013)
Data: Eurostat, Innovation Union Scoreboard 2013
EU Innovation policy – the start

Green paper on innovation

1995

Great stuff!
EU innovation policy – the development

First generation: *linear concept*
focus on TT, academia-business links

2nd generation: *innovation systems*
focus on networks, clusters

Third generation: *mainstreaming*
e.g. environment, cohesion policies

2010: *Innovation Union*

Scott D. Anthony

1) Lone inventor
2) Corporate labs
3) Rebels/start-ups
4) Corporate catalysts
WOW ?
Innovation performance - international

Average annual growth rates in Summary Innovation Index 2007-14

South Korea: 4.8%
China: 3.6%
EU: 2.4%
Brazil: 1.8%
Japan: 1.7%
Australia: 1.0%
India: 1.1%
United States: 1.0%
Canada: -0.6%
Russian Federation: -1.6%
South Africa: -1.8%
Innovation Union: achievements

- Innovation at the top of Europe's political and economic agenda
- Broad concept of innovation / Mainstreaming
- Integral part of European Semester
- Internal market for innovation:
  - The unitary patent
  - Venture capital passport
  - Innovation friendly state aid framework
  - EU public procurement
- Horizon 2020: single research and innovation framework programme (e.g. including prizes, innovation procurement, etc.)
- Innovation partnerships (EIPs)
Research and Innovation Programme

HORIZON 2020 BUDGET (in current prices)

- **Excellent Science**: EUR 24.4 billion
- **Industrial Leadership**: EUR 17.0 billion
- **Societal Challenges**: EUR 29.7 billion
- **European Institute of Innovation and Technology**: EUR 2.7 billion
- **Euratom (2014-2018)**: EUR 1.6 billion
- **Other**: EUR 3.2 billion
Horizon 2020 approach to innovation

- All forms of innovation: design, business models, social, public
- Increased support to activities closer to users and markets:
  - Piloting, demonstration, prototyping
  - Support to innovation “market demand”:
    - standards
    - public procurement
    - inducement prizes
    - bottom-up activities (more flexible call for proposals)
  - A new SME instrument (on “Leadership in enabling and industrial technologies” e “Societal challenges”)
  - More extensive use of financial instruments with leverage effect
  - Support through EIT / KICs
Horizon and International cooperation (1)
Horizon and International cooperation (2)

- **General opening**
  - Horizon 2020 is fully open to participation of entities from across the world

- **Targeted activities**
  - In a number of topics inclusion of international partners may be
    - Encouraged
    - Required

- **Coordinated calls**
  - Used for specific actions, e.g. identified through Joint S&T Coordination Committees
    - Paired calls, linked evaluations, two contracts

- **Specific activities for policy support**
  - Part of Societal Challenge "Inclusive, Innovative and Reflective Societies"
Next generation – policy: Opening up to an ERA of innovation

- Education: from STEM to STEAM
- Spaces: from (corporate) garage to Fablabs
- Scaling: from (super) angels to crowd
- Governments: from fixing failures to creating markets