



# **Establishing Innovation Infrastructure**

## **The European Dimension**

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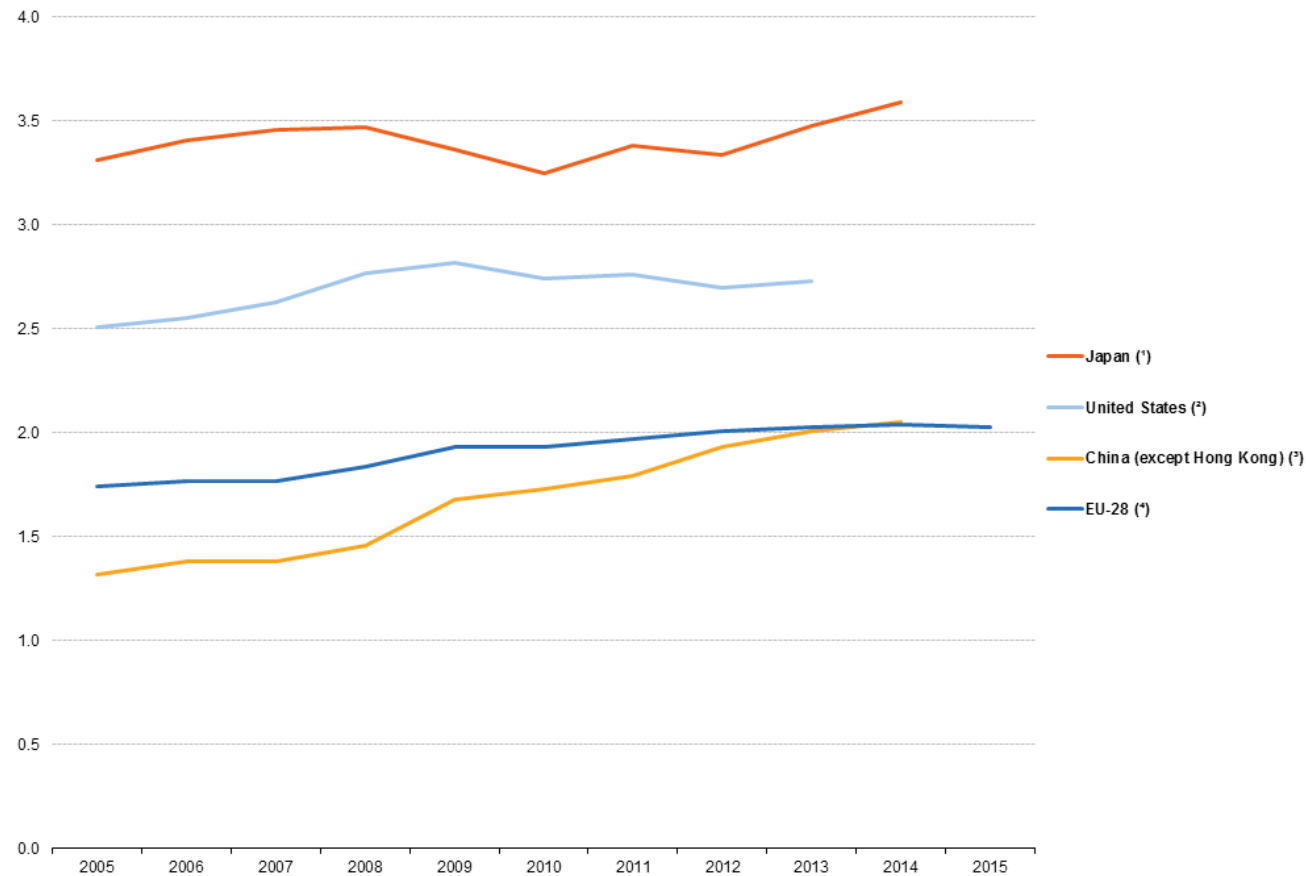


# Overview

- Why invest in innovation infrastructure?
- EC support for R & I (H2020, EIT, RIs, ESFRI)
- EC instruments (InnovFin, SME instrument, TT Capacity building, IP finance, etc)
- JRC & Partners
- Summary



# R & D Expenditure



(\*) 2008 and 2013: break in series. 2015: not available.

(\*) Excludes most or all capital expenditure. 2013: provisional. 2014 and 2015: not available.

(\*) 2009: break in series. 2015: not available.

(\*) 2015: provisional.

Source: Eurostat (online data code: tsc00001)



## Why invest in innovation infrastructure?

- Competitiveness, growth, jobs, societal development (health, energy, climate, etc)
- EU-28 v US, JP and CN
- Physical, but also important human side
- Building capacity for innovation





## EU level processes for innovation

- H2020: programme to facilitate, promote and source cross-border Research & Innovation
- EIT – Knowledge and Innovation Communities
- ESFRI – Key role in EU RI policy
- Access to RIs (JRC + other DGs) policy instr.





## EU level innovation instruments & support

- H2020
- SME instrument – direct financing for companies
- InnovFin (EU/EIB Group)
  - Intermediated/direct investments
  - Loans, guarantees, equity
  - 2.7/H2020 80 B€
- Capacity building efforts (JRC & partners)





## The Joint Research Centre

- JRC EC's in-house science service; provides science based evidence for the whole policy cycle
- IP management & commercialisation (TTO)
- TT capacity building, also geographical angle
  - Macroregional innovation
  - Proof of Concept (Western Balkans)
- Research Infrastructures – accessibility (event)





## Role of intellectual property

- Growing importance of IPRs v physical assets
- Signals uniqueness of product/service
- Function change
  - Monopolistic right
  - Strategic asset – bargaining chip
  - Employed for raising finance (debt and equity)







## Partners

- Other DGs
- EIB Group
- ASTP-PROTON
- WIPO
- Member States and Regions





## What works?

- Structured approach to innovation
- Relevant research infrastructure
- Committed and skilled researchers/technicians
- Technology pipeline (science base)
- Strong IP position – retain & develop value
- Dedicated champions – irrespective of training





## Concluding remarks

- Research & Innovation for European competitiveness
- Physical infrastructure is a basic premise for innovation
- ... as is the human dimension (skill, dedication)
- Strengthening the European dimension – cross border collaborations & accessibility, also for RIs & testbeds
- IPRs as crucial assets
- Dedicated champions necessary





# Gothenburg event Nov 30-Dec 1

(JRC – RISE – EARTO – Teknikföretagen)

*<https://ec.europa.eu/jrc/communities/community/european-tto-circle/event/workshop-best-practices-opening-rtos-researchinnovation>*

- Exchange best practices on opening of research infrastructure to industry in Europe and beyond
- Review different approaches for e.g., business models, quality controls, IPR conditions, funding opportunities, etc., with a view to their possible harmonisation
- Contribute to strategy for test, demonstration and co-creation infrastructure at EU level bringing together different infrastructures in attractive and globally leading industrial environments.

