

**EARTO-EIRMA  
Joint Conference 2015**

**Infrastructures and Resources  
Sharing between Industry & RTOs  
in Europe**



**Session 3**

***Lessons Learned***

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# Lessons learned from the EU Framework Programme for R&D

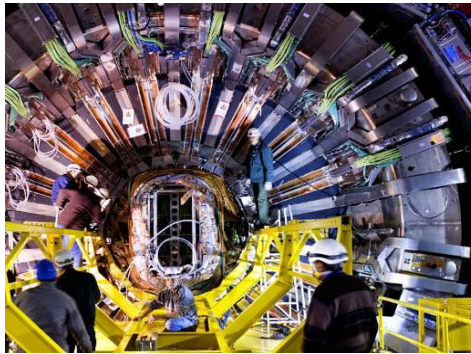
**Peter Dröll, Acting Director**

Innovation Union and European Research Area  
DG Research and Innovation  
European Commission

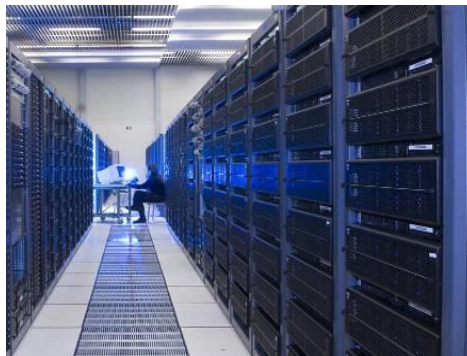
# Research Infrastructures - A Definition

**Research infrastructures:** facilities, resources and services used to conduct research and foster innovation

Knowledge-based resources



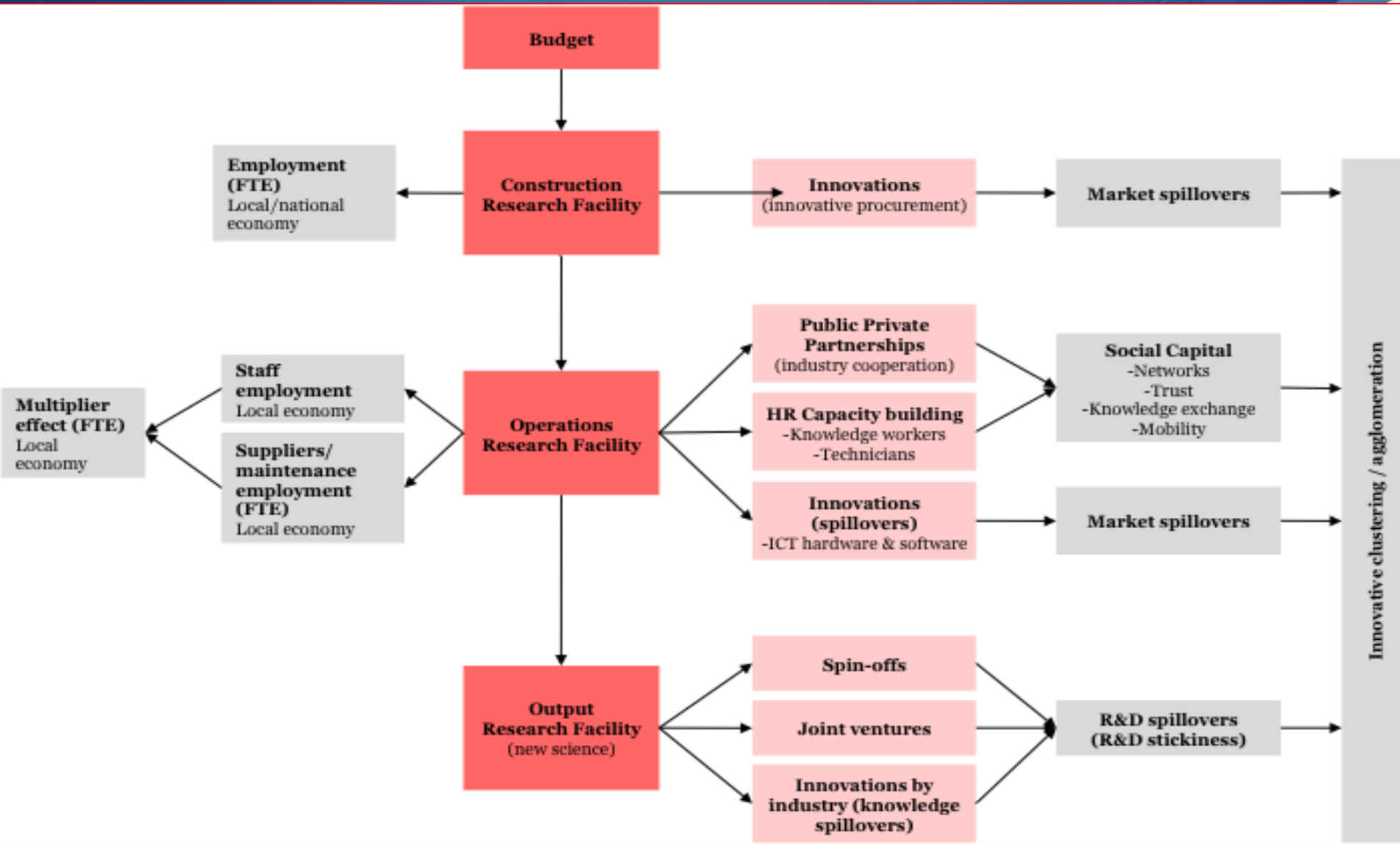
Major scientific equipments



e-infrastructures

# Research Infrastructures and Industry - Social and economic impacts

FP7 Evaluation - EPIRIA report



# *Research Infrastructures and Industry - Opportunities*

## ***💧 Industry as user:***

innovation resulting from use of a facility by industry

## ***💧 Industry as supplier :***

innovation resulting from provision of techn. advances

# Research Infrastructures and Industry - Barriers

*FP7 Evaluation - EPIRIA report*

- ◆ **Rules for access to the RI:** centred around the 'science case' (academic criteria, peer review by scientists)
- ◆ **Limits set to the use of RI by industry** (e.g. PRACE: 5%)
- ◆ **Risk avoidance:** among industry players (especially SMEs), in particular if access needs to be paid for
- ◆ **Insufficient communication:** overall lack of understanding of the potential user community in the industry sphere
- ◆ **Lack of a clear framework:** uncertainty about industry access

# Research Infrastructures and Industry - Horizon 2020 overview

## Excellent science

- European Research Council
- Future and Emerging Technologies
- Marie Curie actions
- **European Research infrastructures (including e-infrastructures)**

## Societal challenges

- Health, demographic change, wellbeing
- Food security, sustainable agriculture, marine - maritime research, bio-economy
- Secure, clean and efficient energy
- Smart, green, integrated transport
- Climate action, resource efficiency, raw materials
- Inclusive, innovative and reflective societies
- Secure societies
- *Spreading excellence & Widening Participation*
- *Science with and for Society*

## Industrial leadership

- Leadership in enabling and industrial technologies (ICT, space, nanotechnologies, advanced materials and advanced manufacturing and processing, biotechnology)
- Access to risk finance
- Innovation in SMEs

# Research Infrastructures and Industry - Horizon 2020 specific

Stimulate innovation both in the infrastructures themselves and in their supplier by supporting:

- ◆ (a) R&D partnerships with industry to **develop industrial supply in high-tech areas** such as scientific instrumentation or ICT;
- ◆ (b) pre-commercial procurement by research infrastructure actors to drive forward innovation and act as early adopters of technologies;
- ◆ (c) **stimulate the use of research infrastructures by industry**, e.g. as experimental test facilities or knowledge-based centres; and
- ◆ (d) encourage the integration of research infrastructures into local, regional and global innovation ecosystems



# Example 1 : Access Rules

Research Infrastructures supported in H2020 are encouraged to provide access to industry under specific conditions



Elettra Sincrotrone Trieste

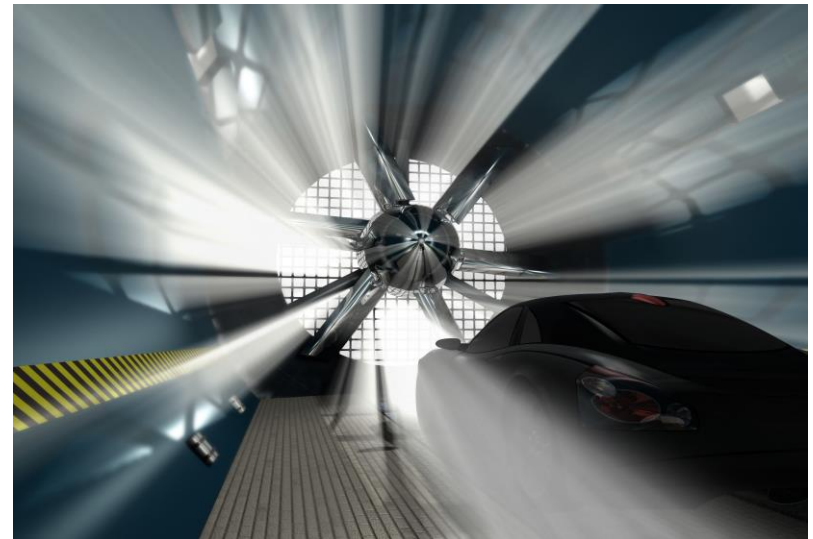
Example: Up to 10% of the available experiment time in synchrotron is set aside for proprietary access (first come first served basis, confidentiality guaranteed, results available only to customer)

# Example 2: customised services

Customised services to facilitate access for industry incl. SMEs supported in Integrating Activities projects



Bio NMR



ESWIRP – Wind Tunnels

# Next step 1: New Horizon initiatives

## Co-innovation

- for future detection and imaging technologies
- beyond traditional demand-supply relationship

## Technological Infrastructures

- for large-scale platforms combining R&D and validation
- long-term partnership around strategic agenda



# *Next step 2: Improving framework conditions for industry participation*

## Charter of Access

Sets out **non-regulatory principles** and guidelines to be used when defining rules and conditions for Access to Research Infrastructures:

- promotes the use of RI to all users incl. industry
- primarily targeted at those responsible for the definition of Access rules and conditions to any given RI incl. commercial ones
- all access modes are covered including market-driven access