European policy developments in the field of Research Infrastructures

Challenges for the e-infrastructure governance

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EU - BUILDING AN INNOVATION UNION

Launched on October 6, 2010

EUROPEAN COMMISSION

Innovation Union highlights

- European Innovation Partnerships
- European Research Area framework
- Streamlined EU programmes
- New financial instruments
- Reform of standardisation system
- Public procurement of innovation
- Social innovation pilot
- Stronger monitoring

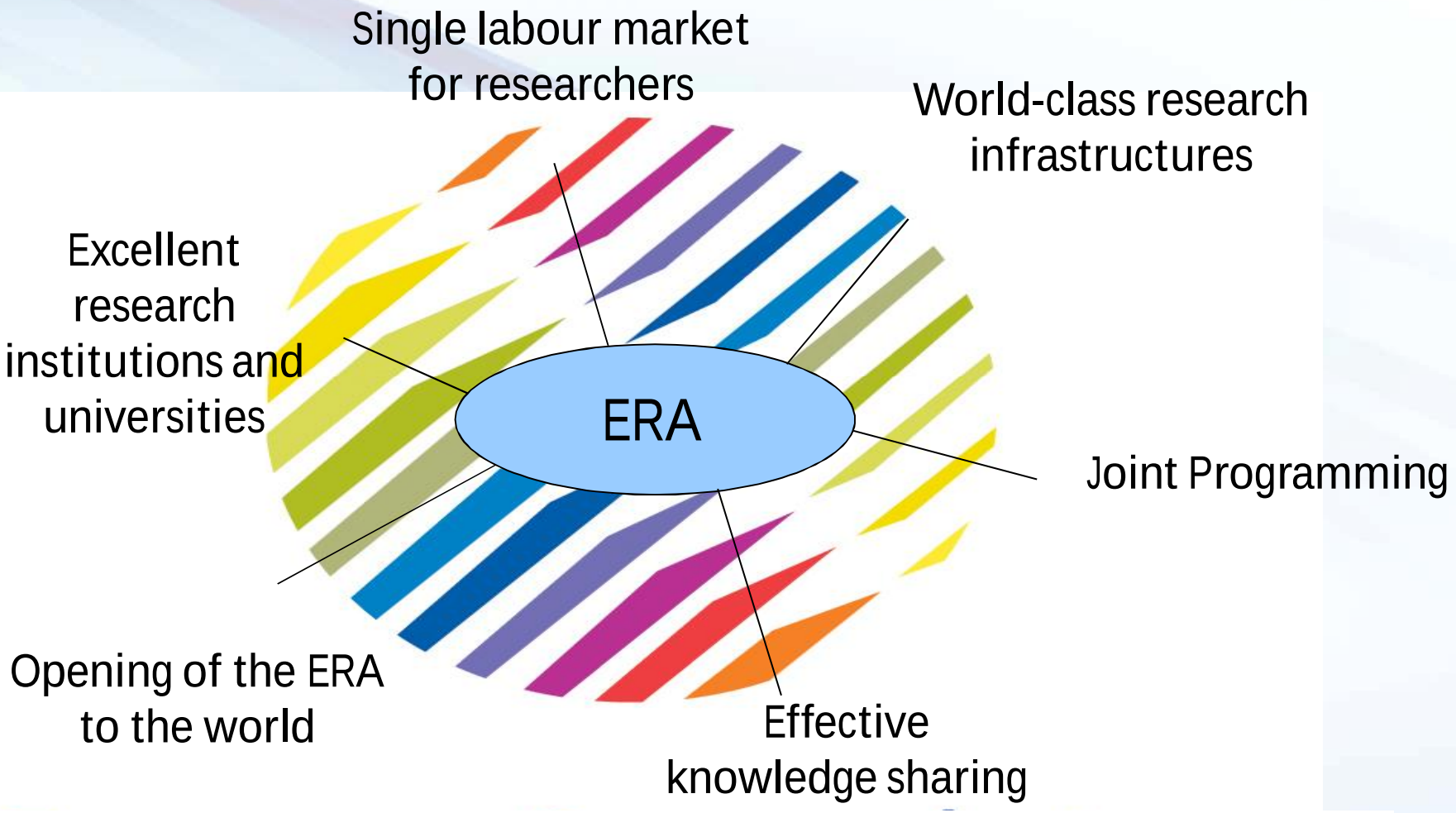
Basics of the development of the European Research Area

The ERA concept combines:

- a European "internal market" for research, where researchers, technology and knowledge freely circulate;
- an effective European-level coordination of national and regional research activities, programmes and policies;
- initiatives implemented and funded jointly.

ERA building blocks

http://ec.europa.eu/research/era/specific-era-initiatives_en.html



Research Infrastructures are at the core of the knowledge Triangle

e-Infrastructures interconnecting communities

e-infrastructure

European Commission
Information Society and Media

Other measures of Innovation Union

Getting good ideas to market

- **Access to finance**
- **Single innovation market**
- **Openness and creative potential**

Openness and creative potential

Key issues

- Growing importance of **open innovation**
- **Dormant knowledge and intellectual property**

Key measures

- **Open access** to become default principle for publications from EU Research Framework Programme
- Develop **European knowledge market** based on national experiences (e.g. patent pools)

Other measures of Innovation Union

Social and territorial cohesion

European Innovation Partnerships

International cooperation

European Innovation Partnerships

Key issues

- Major **societal challenges** require **joint responses** across policies and across EU
- Numerous **sub-critical, uncoordinated initiatives:**
  - between EU / Member States / Regions
  - Market-side actions (public procurement, regulations, etc)

European Innovation Partnerships are frameworks bringing together main actors and actions

- Around common objectives and targets
- From research to market
- At EU and national levels

European Innovation Partnerships

2010

- **Council, Parliament** to discuss the concept
- **Member States** and **stakeholders** invited to join
- Preparation of **pilot on active and healthy ageing**

2011

- **Others to follow** pending discussions and building on experience with pilot
- **Topics considered**: smart cities, mobility, water, raw materials, agriculture, …

Joint Programming in Research

Boosting the innovation partnerships

- New needs, new ideas, new markets
- Creation of a common knowledge base
- Increased efficiency of research (scale & scope)

Stimulating cultural changes in research management

- Reducing fragmentation of research efforts
- Bridging better research and innovation
- Developing common standards
- Attracting world scientists

Pan-European Research Infrastructures a new Community legal framework

Recent entry into force of ERIC (Aug 09)

Based on the EU Treaty, that allows the Community to set up European entities necessary for efficient execution of Community RTD programmes

The regulation provides an easy-to-use legal tool:

- ... having legal personality recognized in all MS
- ... having a spirit of a truly European venture
- ... being flexible enough (one size doesn't fit all)
- ... with some privileges / exemptions

Making it happen!

A priority for EU Institutions

- **European Council** dedicated meeting in December

Accelerating national reforms

- **Self assessments of R&I systems** under Europe 2020

Tracking progress

- EU target of **3% of GDP** on R&D and **national targets**
- New indicator on **fast-growing innovative firms**
- New **Scoreboard** of 25 indicators

We need addressing the key factors affecting the vision and the capacity to change

- Capacity (or not) to *work together / pool resources* (thus coordination / integration of strategies and actions) to face more complex problems / costly solutions
- Capacity (or not) to develop a *favorable environment* for EU & Int'l research & innovation
- Capacity (or not) to strengthen relations with *education,* the people, and with *industry*
- Capacity (or not) to face *research internationalization*

More EC communications to come within the next 18 months

Data management

1) It is at the core of a Research Infrastructure project

- avoiding “re-inventing the wheel”
- adoption of common standards and practises
- ex-ante evaluation of the different options

2) It is a key issue within the implementation phase of the research infrastructure

- needing specific human resources & procedures
- needed to evaluate capacity & performance
- linked with research-innovation issues

3) It is key for efficient relations between and with other organisations (user, supplier, int'l partner)

- related with access and research services
- related with other users (e.g. policy makers)
- related with suppliers
- related with other knowledge-based org.
- ... in particular at international level

4) It is key for a sustainable use and preservation of the acquired knowledge

- preservation of data and information
- advanced services and communication issues

For new or existing RIs, e-infrastructures pave the way towards an efficient research ‘eco-system’

a) Large facilities
b) Distributed European Facilities
c) Regional Partner Facilities
d) Network of national facilities
e) Linked with universities & schools
f) Network of industrial suppliers / users

Without the joint involvement of the scientific communities and the actors on e-infrastructures, the EU will not succeed in developing an efficient management of this ‘eco-system’