European Commission

Open Innovation
Open Science
Open to the World

– a vision for Europe

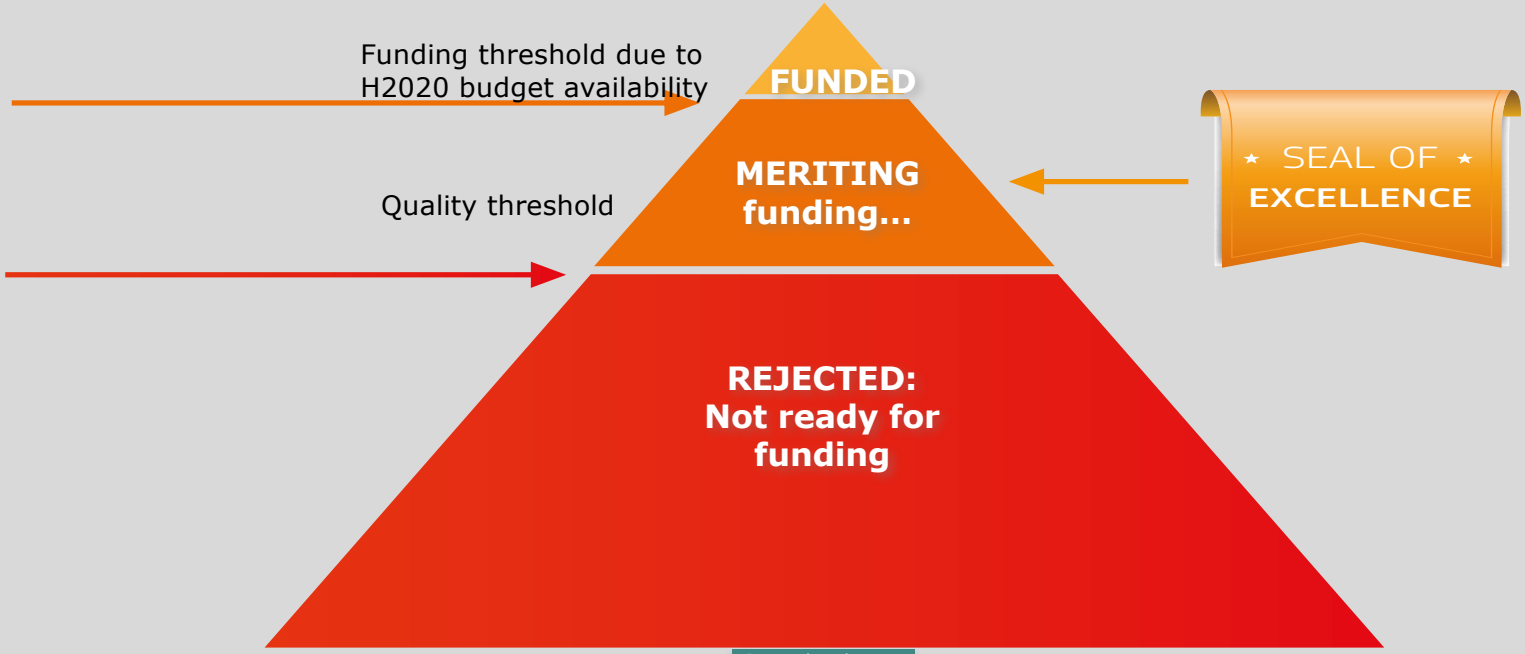
Research and Innovation

Objective of the Course

- *To give an introduction to the conceptual insights behind the policy priorities set by Commissioner Moedas:* ***Open Innovation, Open Science and Open to the World****.*
- *To analyze the introduction of these concepts in* ***the priorities of the European Commission*** *in terms of:*
  - ***research and innovation policy development and***
  - ***sources of evidence and advice for sound policy-making****.*

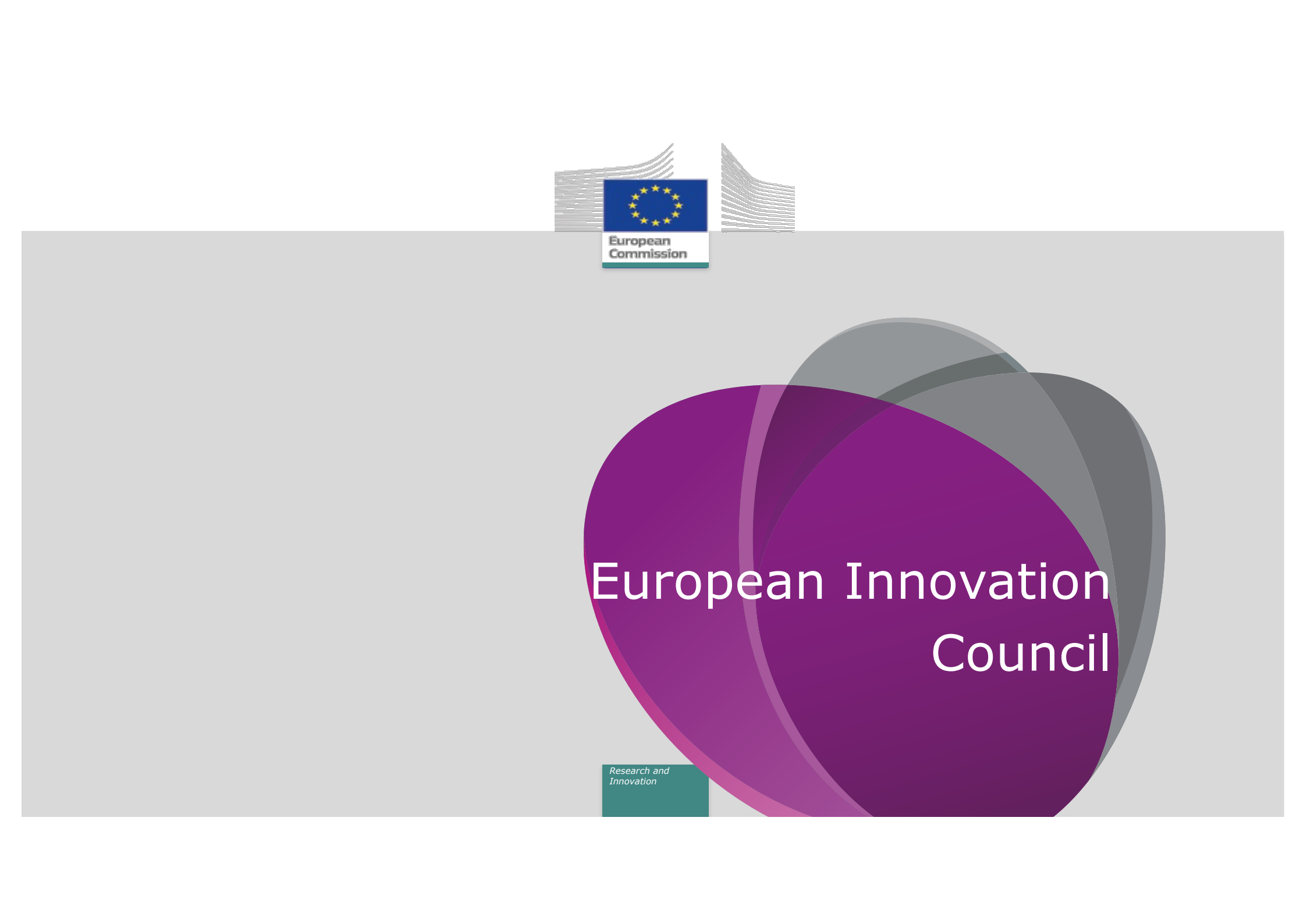
European Commission

Identifying proposals for the Seal of Excellence

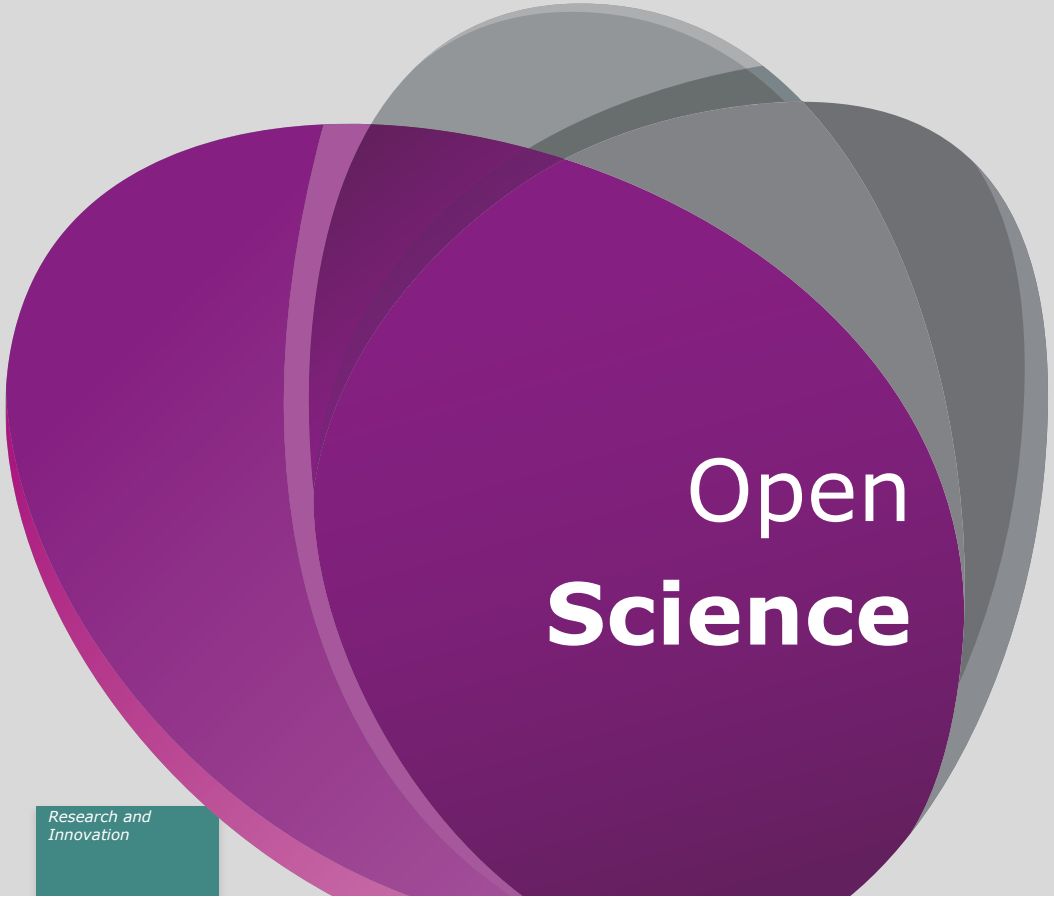


Research and Innovation

Open Innovation


European Commission
European Innovation Council
Research and Innovation

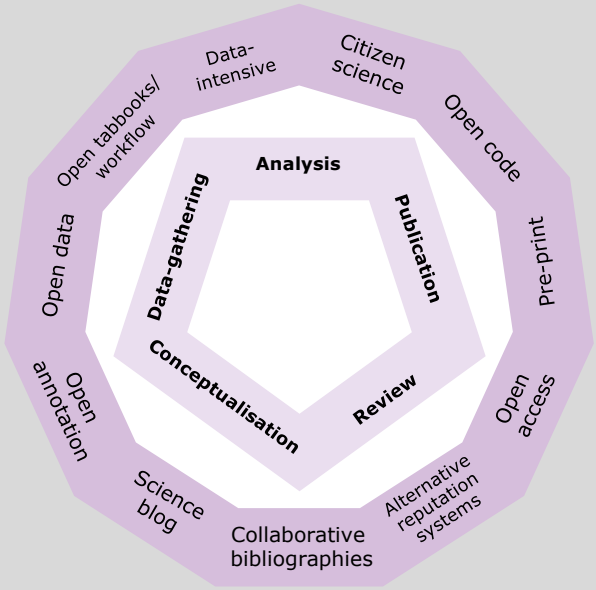
European Commission



Research and Innovation

European Commission

Open Science – opening up the research process



Source : http://ec.europa.eu/research/consultations/science-2.0/background.pdf

4 reccomendations for policy actions

1. First, we recommend the removal of the barriers that extreme competition for limited resources creates for Open Science

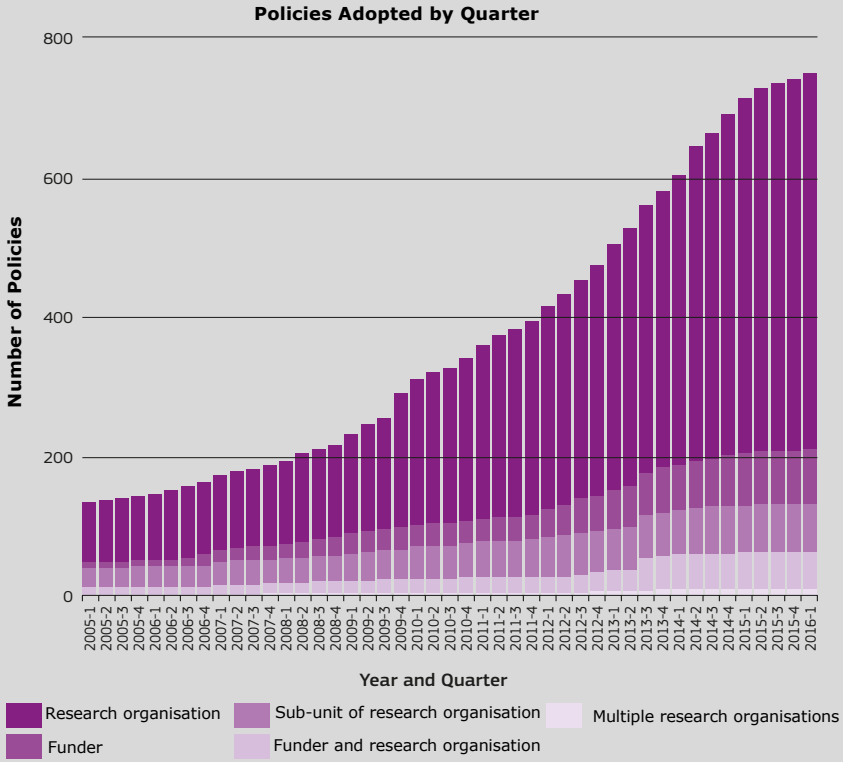
- We recognize that this will involve a fundamental rethinking of how research is funded and how researchers are rewarded.
- For funding, we recommend that:
  - Funding success rates should be brought back to a position where Europe's best researchers can reasonably expect to attract and maintain funding for their best work.
  - It is also critical to support as many highly qualified, early-career researchers as possible - due to the proven difficulty in predicting productivity,

ADVANCING OPEN ACCESS AND DATA POLICIES

Research and Innovation

European Commission

Growth of Open Access Repository Mandates and Policies



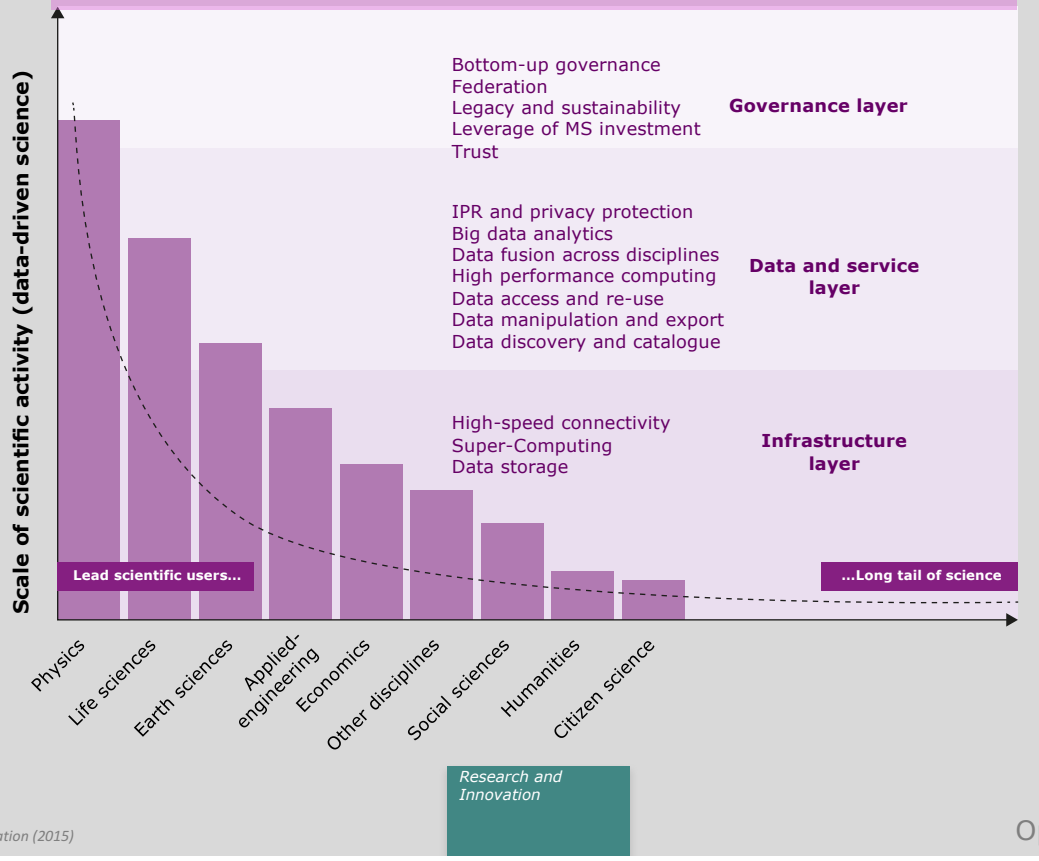
Research and Innovation

Source: http://roarmap.eprints.org/

Open Science

European Commission

Governance of the European Open Science Cloud



Research and Innovation

Source: DG Research and Innovation (2015)

Open Science

European Commission

Open Science: From Open Access to Open Scholarly Communication

Source: http://innoscholcomm.silk.co

2. Second, we recommend the full Implementation of Open Access publishing and numbers of publications

- We are concerned that monopolisation and cartelisation of publishing are not compatible with Open Science – too many papers are hidden behind pay-walls for too long after publication
- We believe the goal must be the development of new funding and business models to provide an affordable and sustainable Open Access publishing system.
  - In the interim, we recommend Green Open Access as a useful solution for immediate pre-publication sharing of Open Science research, using, for example, posting on recognized pre-print servers and data publishing platforms.
  - But the ultimate goal must be Open Access of the final peer-reviewed publication and the underlying data.
- Funding agencies can play a key role in achieving this goal
  - Gates Foundation where from 1 January this year, all publications emerging from Gates funded research must be immediately available in their final form - thus excluding some top journals

3. Our third recommendation focuses on Open Data – where we identify an urgent need to establish both competence and confidence in the practice of Open Data

- We identified three core challenges for the practice of Open Data:
  - Data management and data sharing
  - Establishing a holistic interoperable infrastructure and
  - Creating a culture for openness
- We recommend that these should be supported by
  - training programmes for best practice for data management skills
  - Promoting awareness of existing data repository options
  - Assessment and rewarding of data reuse
  - explicit career tracks for data and software specialists
    -

European Commission

Researchers Career

Research and Innovation

4th RISE OS reccomendation

- For evaluation of a researcher's work, we strongly recommend that:
  - Metrics should not substitute for meaningful assessment.
  - Assessment criteria should also reward reagent, protocol and data sharing, and open resource development

European Commission

Scientific panel for health suggestions

Research and Innovation

What if we have a EuHRI?' or EHRC - potential gain

Reduced waste of resources in duplications of research and evidence building

- Increased opportunity to translate research for societal and economic benefit (Impact)
- Take full advantage of inputs from each country to promote interdisciplinary "Team Science" (http://www.acmedsci.ac.uk/file-download/38721-56defebabba91.pdf/)
- Offer the opportunity for pan-European registries and bioresources (biobanks) and repository for serving as a Research Agency for clinical trial databases etc

What if we have a EuHRI?' - potential gain

- Enable a combination of funding of research using EU funds, national funding and industry support
- Provide a sound mechanism for developing standard operating procedures for pan-European Research
- Create connectivity between research activity, growing research capacity and developing clinical and non-clinical careers
- Enable a more efficient way of combining the experience of different countries in helping others in building their research activity
- Visibility of health research under European leadership
- Create a stronger connection to other large bodies dealing with research such as the NIH and collaborative projects with them.
- Increased opportunities to contribute to Global Health agenda

Thanks for your attention!

Prof. Dainius Pavalkis, Member RISE HL
Member Scientific Panel for Health

Dainius.pavalkis@lsmuni.lt

Thank’s to Maria da Graça Carvalho for some matherials of this report