

# ESFRI Working Group on investment strategies in e-infrastructure

Sverker Holmgren

Chair of the WG

(Chair of e-IRG)

# Background

Competitiveness Council Conclusions May 28-29  
2015:

*ESFRI is invited to explore mechanisms for better coordination of Member States' investment strategies in e-infrastructures, covering also HPC, distributed computing, scientific data and networks.*

# The Working Group

ESFRI decided to

- *draw also on the competence of the e-Infrastructure Reflections Group (e-IRG)*
- *create an ad-hoc working group with a time-limited mandate*
- *ask the working group to provide input and draft recommendations to ESFRI on how to address the Council conclusions.*

# The Goal of the Working Group

- *analyse the investment strategies of the Member States in e-infrastructures for research and innovation, including high performance and distributed computing, scientific data and networks, and formulate recommendations for how mechanisms for coordinating these strategies could be implemented.*

# Timeline

**Step 1:** Recommendations (alternative scenarios) on the short-to-medium term strategy for investments in HPC will be provided

**Step 2:** Further recommendations on coordination of Member States' investment strategies also in the other fields of e-infrastructures, including recommendations on governance and life-cycle management structures

- preliminary findings (focused on HPC) presented in Q2 2016
- final report submitted to the Council in Q4 2016.

# Members of the Working Group (TBC)

- \* Chair: Sverker Holmgren – SE (e-IRG) - NordForsk
- \* Pascal Fouillat - FR - Ministry of Higher Education and Research,
- \* Herber Zeisel - DE - Federal Ministry of Education and Research,
- \* Tony Hey - UK - Department of Business, Innovation and Skills,
- \* Fernando Ballesterro - ES -Ministry of Economy and Competitiveness ,
- \* Ondrej Novak - CZ - Ministry of Education, Youth and Sports,
- \* Joao Nuno Ferreira - PT - Ministry of Education and Science, National Research Council,
- \* Peter Bronniman - CH - State Secretariat of Education, Research and Innovation,
- \* Massimo Cocco - IT – EPOS and Ministry of Education, University and Research
- \* Rosette Vanderbroecke – BE (e-IRG) - BELSPO and Flemish Supercomputer Centre
- \* Arjen van Rijn - NL (e-IRG) – Nikhef,
- \* Leif Laaksonen- FI (e-IRG) - CSC,
- \* Lajos Balint - HR (e-IRG) - National Information Infrastructure Development Institute,
- \* Norbert Meyer - PL (e-IRG) - Poznan Supercomputing,
- \* Ana Proykova - BG - HPC lab in Sofia Tech Park,
- \* Octavi Quintana-Trias – EC DG RTD
- \* Augusto Burgueno-Arjona – EC DG CNCT

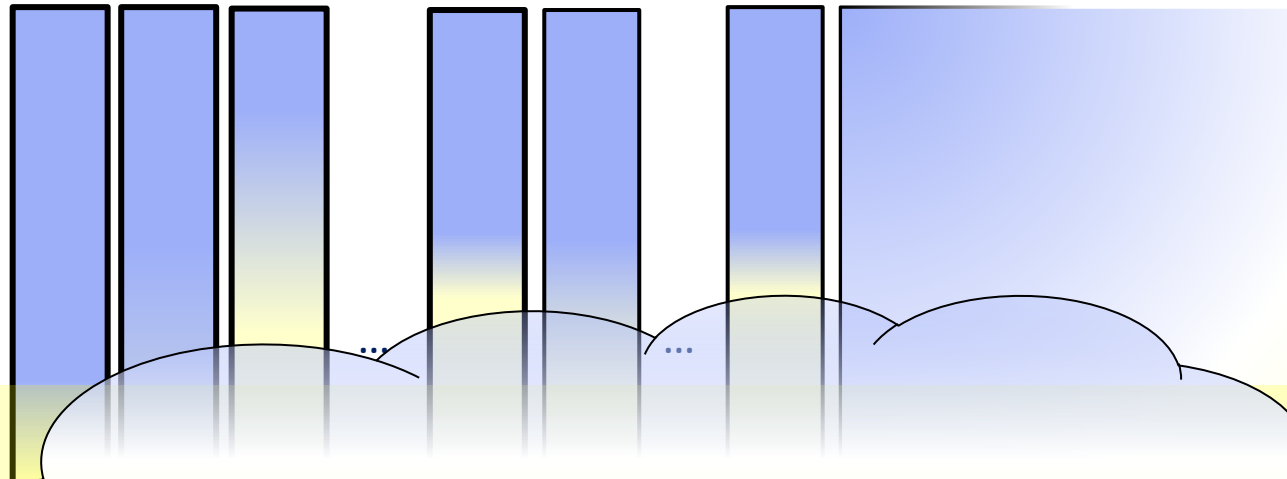
# The EOSC

- there is indeed a need for a converging e-infrastructure landscape (as perceived by researchers and research infrastructures)
  - See e.g. the interview with ESFRI Chair John Womersley, [www.nordforsk.org/en/publications/publications\\_container/nordforsk-magazine-2015/view](http://www.nordforsk.org/en/publications/publications_container/nordforsk-magazine-2015/view), pp 45-47.
- the e-infrastructure commons as described by e-IRG provides a foundation for this
- additional discussions are needed to fully include aspects of research data and of open science

# The e-Infrastructure Commons

ESFRI RIs, EIROs, other RIs

International  
research projects



**The e-Infrastructure Commons**

Tools and Services

Data

Computing

Networks/Connectivity

Open e-IRG Workshop, "Progress of the e-Infrastructure Commons: integration and interoperability - funding and revenue models", Amsterdam March 9, 2016.



# The e-Infrastructure Commons

Three distinct elements:

1. **Governance:** A platform for coordination of the services, with a central role for European research, innovation and research infrastructure communities.
2. **Service provisioning:** Sustainable and interoperable e-infrastructure services, promoting a flexible and open approach where user communities are empowered to select the services that fulfil their requirements.
3. **Innovation:** Projects providing the constant evolution of e-infrastructures needed to meet the rapidly evolving needs of user communities.

# The EOSC

- a common view of the EOSC among the different actors/stakeholders is urgently needed
  - Some concerns are expressed among funders over the perceived competing agendas of various organisations/actors
- the implementation of the EOSC must be very firmly anchored in the needs of researchers and research infrastructures
  - Significant work on trust-building and ensuring sustainability will be needed

# The EOSC

- the ecosystem of European research is very wide
  - ESFRIs and EIROs are part of this and could contribute, but it is not likely that "a single solution" will work out for all fields of research and innovation
- existing knowledge, initiatives and structures should be used in the best possible way (but changes may be needed)
- The key questions are going to be over funding and governance