



Horizon2020

Workprogramme 2016-2017

e-IRG Workshop

Athens



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What does the Specific Programme say on e-infrastructures?

- *"The aim is to achieve by 2020*
- *a world-leading capability in networking, computing and scientific data in*
- *a single and open European space for online research*
- *where researchers enjoy leading-edge, ubiquitous and reliable services for networking and computing,*
- *and seamless and open access to e-Science environments and global data resources."*
-

... and more:



- *"To achieve this goal, support will be given to:*
- ***global research and education networks***
- *providing **advanced, standardised and scalable inter-domain services on-demand;***
- ***grid and cloud infrastructures providing virtually unlimited computational and data processing capacity;***
- ***an ecosystem of supercomputing facilities, advancing towards exascale;***
- ***a software and service infrastructure, e.g. for simulation and visualisation;***
- ***real-time collaborative tools; and***
- ***an interoperable, open and trusted scientific data infrastructure"***

10/20/12

Towards the work programme 2016-2017

Strategic programming: actors

- **Advisory Groups**
- **Programme Committees**
- **Horizon Groups (EC interservice groups)**
- **Other key stakeholders (for RI eIRG, ESFRI, ...)**
- Harmonised set of questions address all AGs and all stakeholders



**Step 1
Spring 2014**

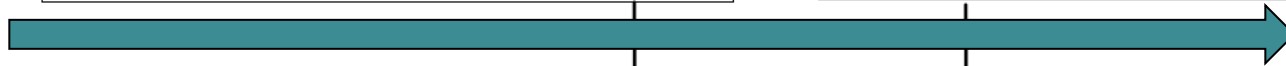
Consultation paper on drivers and criteria for programming

- discussion with strategic programme committee configuration on priority setting process

Consultation paper on opportunities and priorities for R&I

- AGs and key stakeholders
- orientation on context and key questions
- + annexes

By June 2014



**Step 2
Summer 2014**

- **Draft priorities/programming paper**
- **Draft scoping papers:** expected impacts and priorities, supported by quantitative evidence

Orientation documents

By 15 July

By 15 September

**Step 3
Autumn 2014**

Priorities/programming paper development

- discussion with strategic programme committee configuration
- Output: draft strategic programme**

By 16 October

WP scoping papers development

- discussion with the programme committee configurations
- Output: WP scoping papers**

By end November (tbc for RI)

Stakeholder consultation – vision?

- **What is the vision for e-Infrastructure in 2020?**
- **What steps should we take to achieve that vision in 2016 and 2017?**

Stakeholder consultation – practice?

- What are the **focus areas**?
- What should be the main **priorities**?
- What is **missing** in the WP2014-2015?
- What should **continue**? What should **not** continue?

Harmonised approach

- The following questions were presented to all Advisory Groups
- The main stakeholders are invited to consider these questions and to provide their responses (by end June)

Question 1

What is (or are) the **biggest challenge(s)** in the field concerned which requires immediate action under the next Work Programme? Which related innovation aspects could be targeted?

AG:

- Integration → Commons
- Long term funding → flexible funding solutions
- To create business models for eIs
- Big data challenge – data handling initiatives such as RDA
- EU-level quality process for opt-outs for public funding
- Open data, open access
- Skills

Question 2

What are the **key assumptions** underpinning and driving the future developments and expectations for research infrastructures and e-infrastructures, in particular in relation to the challenge(s) identified above (for example, regarding research & innovation, demand side and consumer behaviour, policy needs, or the concerns and expectations of citizens and civil society)?

AG:

- Fierce global competition
- Science more and more multidisciplinary and data-intensive
- Prioritisation – not all can be publicly funded

Question 3

What is the **output** that could be foreseen, what could the **impact** be, what would **success** look like, and what are the opportunities for **international linkages**?

AG:

- 1st class sustainable RIs and services open to industry and research, public, policy makers
- Less fragmented funding model
- VREs – interoperable, open and innovative infrastructures for better collaboration and intercultural communication in EU and worldwide

Question 4

Which are the **bottlenecks** in addressing these areas, and what are the inherent **risks** and **uncertainties**, and how could these be addressed?

AG:

- Lack of skills, culture of appreciation of data scientists
- Short term politically popular winning over long term perspective
- Unclear funding synergies, funding constraints
- Governance structures for Ris
- Legal barriers

Question 5

Which **gaps** (science and technology, policy) and **potential game changers** need to be taken into account?

AG:

- Changes in political priorities – risk to long term planning
- Harmonisation of legislation required in EU
- Global harmonisation and standards

Question 6

In which areas is the strongest potential to leverage the EU knowledge base for **innovation** and, in particular, ensure the **participation of industry and SMEs**?

AG:

- **Data RI:**
 - Open access to data
 - Partnerships between Ris and other companies
 - New data analytics of commercial value
 - Emergence of new businesses around data handling and analysis competences (SMEs)
- **E-infrastructures as testbeds**

Question 7

What is the best **balance** between **bottom-up** activities and **support to roadmaps** or to the **societal challenges**?

What is the best way to address **cross-cutting activities**, such as social sciences and humanities, responsible research and innovation including gender aspects, and climate and sustainable development?

Which types of **interdisciplinary activities** should be supported?

AG:

No clear solutions for optimal balance...



Thank you!