

ICRI 2018

Parallel Session 1 - Internationalisation of Research Infrastructures

Maud Evrard (Rapporteur)
Head of Policy Affairs / Science Europe

Session 1 overview

- **Objective** - reflect on:
 - The need to increase visibility of RIs (and their services) to (international) users;
 - The challenges of transnational access and international sharing of results
 - The respective roles of national authorities, funding agencies, institutions, researchers
- **4 streams**
 - 1A: Identifying and stimulating broader stakeholder involvement
 - 1B: Fostering cooperation and synergies while avoiding unnecessary duplication of facilities and services
 - 1C: Optimizing use, and outcomes, of national RIs through international participation
 - 1D: Devising mechanisms for stimulating and supporting international collaboration
- **Outcomes**
 - Open discussion on issues facing facilities and main challenges in addressing them
 - More questions than answers, mutual learning

1A: Identifying and stimulating broader stakeholder involvement

Breaking up the silos



- Data silos:
 - interoperability (brokering/translation strategy vs regulation)
 - research data management (beyond sharing)
 - Standards, QA/QC vs inclusiveness
- Silos between governments, academia, businesses, citizens
 - Commercial sector engagement: satellite data provision, LT sustainability of RIs
- Imbalance between Global North & Global South: transfer of skills preferable to technology transfer
- New comers vs Founders; opening stakeholders pool vs commitment / ownership
- TransNational Access (EU FP): one to one relation building, unique opportunity for researchers to foster career and internationalisation of their research

1B: Fostering cooperation, synergies while avoiding unnecessary duplication of facilities and services

It's all about Cs



- **Coverage:** Distributed RIs in environmental science - ensuring effective coverage of the planet in order to get its « *pulse* »
- **Culture:** Fostering cooperation between national-based research communities; Building a community; Overcoming cultural barriers in how science is done
- **Capacity:** Technology, Human, Data Management
- **Co-design** with users and stakeholders towards a clear goal
- **Costs:** Scaling up from the project level, Coordination of Funding, Long-term operation and maintenance, Data management
- **Competition & Cooperation:** Ensuring that competition occurs at project level whilst ensuring services provision by RIs. Role of funders? Calling for community to come together and develop a common vision. Does the interplay depend on type of facilities? Their maturity? Importance for society?

1C: Optimizing the use, and outcomes, of national RIs through international participation

- **Access** – French case (Full cost analysis 2016: €1.4 billion)
 - Access types: **Excellence / merit based**, industry (limited 2%), eInfrastructures (/)
 - Access policies: depend on: (i) RI types (international, European, national), (ii) funding sources (ministry or research organisation levels)
- **Pricing** – Norwegian Research Infrastructure Resource Model
 - Challenges: cultural change from “*free access*” to “full cost access”; keep administration minimal (flat rates); RI capacity definition (funding for idle time)
 - RIs costs eligible in all funding schemes, then focus on the science and maximizing of the use of RIs through international participation
- **Data:**
 - “Use it or lose it”: provides new insights and keeps data structure up to standards for interoperability
 - Generate some to use some: Every data user should also generate data – commitment
- **Should we move towards transnational research institutions to**
 - React to global imperatives (more rapidly, strategically than inter-governmental organisations)?
 - Advocate for- and lead the development and operation of major international RIs?

1D: Devising mechanisms for stimulating and supporting international collaboration

The Match Makers



- **Voluntary alignment model** – GSO “good practice” framework
 - 14 key principles: Merit-based access, data policies, international mobility, socio-eco impact
 - Encourage alignment, accelerate partnerships
- **Grassroots processes** – example of astro(particle), particle and nuclear physics
 - Road-mapping exercises: Charge-based; Grassroots regional-based; Grassroots theme-based
 - Community consensus development : commissions and Working Groups
 - Personal connections: at seminars, workshops and conferences
- **Bi-/multilateral agreements, conventions** – Kurchatov Institute role in megascience
- **International mapping of RIs** – RISCAGE project
 - “who does similar things as you do at international level”
 - “What do you do? How do you do it? Who are you?”
- **Definition, common terminology** – as prerequisite to a successful match making?

Thank you
for your
attention!

Maud Evrard
Science Europe
Phone: +32.2.226.03.09
Email: maud.evrard@scienceeurope.org