

# **Digital Infrastructures for Research 2017**

**Thursday, November 30, 2017 - Friday, December 1, 2017**

**The Square Meeting Centre**

## **Scientific Program**

The Call for Abstracts is now closed.

We expect to have the programme online on 26 October.

In the meantime, find out more about the DI4R in the conference's website.

## Topic Area 1: Interoperability

This area will focus on topics related to the interoperability between services from different infrastructures and initiatives at different levels (local, national, international), including:

- > architectures enabling interoperability,
- > protocols and standards for interoperability
- > data and metadata interoperability.

The topic also includes items related to provisioning of federated services for research in Europe and beyond, enabling interoperability at all levels: human, organisational and policies.

## Topic Area 2: Data science and skills

The EC's Open Science Skills Working Group Report defines Open Science skills as needs for researchers to be able to publish under open access, to manage (open) data, to conduct professional research and engage with citizen science.

These skills follow the research life cycle and cover design and setting up research data, data production, management, analysis, open access publishing and other ways to act in and beyond one's own scholarly and disciplinary community, up to interaction with the general public to enhance the impact of science and research. Can you contribute to...

- > What open science training is already available, what is needed to share this expertise?
- > How can training be implemented in the curriculum of researchers? What could or should be the role of universities and research funders?
- > How can we raise awareness among researchers on Open Science practices and behaviour?
- > To what extent and how can we provide training for professional support staff for researchers (data stewards, IT technicians, data scientists, legal experts, discipline specific data managers and librarians)?

> How can we realise outreach and connect with professionals and citizens outside academia?

We are looking approaches, methodologies, initiatives and needs to establish the data science profession, to increase data science literacy and develop skills for the use of advanced digital services for data-driven science.

## Topic Area 3: Impact evaluation and metrics

Measuring the progress of the Open Science adoption and its growing impact is vital for decision-making and funding processes. Metrics are also a reward to scientists for making their work understandable, accessible and reusable by the scientific community. This reward will greatly help to encourage the open science movement. Are you...

- > A scientist who has spent additional time to make your data reusable?
- > A data scientist who has exploited Open Data?
- > An infrastructure that proposes Open Data and/or Services?
- > Funding an open science initiative?
- > Working on the next generation of indicators and metrics?
- > Offering new services in this field?

We want to hear from you. Successes, trials and ideas are all welcome!

## Topic Area 4: Security, trust and identity

This track will provide the platform to discuss security and trust & identity aspects. It will offer an opportunity for e-infrastructures to present their offer to support researchers needs and to report on best practices and technical aspects that help new research infrastructures to build interoperable authentication and authorisation infrastructures.

We invite representatives from research collaborations and research infrastructures to submit papers about:

- > Trust and identity use-cases and how they are addressing them.
- > Gaps in the current services offering
- > Risk assessment as part of the implementation of an Information Security Management System
- > Security in Big and Open Data especially within the e-infrastructures
- > Trust assessment and interoperability for global collaborations, comparative policy frameworks, and maintaining assurance across identity bridges

## Topic Area 5: The EOSC & EDI building blocks

Proposals submitted for this area should focus on the development and provisioning of services and solutions needed to enable researchers to securely collaborate and share resources in a federated environment combining geographically distributed services from multiple providers and further the opportunities of Open Science.

Submissions should highlight:

### **Thematic building blocks to the EOSC**

> how are Research Infrastructures, communities of practice and research projects coming together to jointly provide services to the EOSC?

#### **Common building blocks**

- > Data storage, deposition, management, curation, preservation, data access & reuse
- > Advanced computing: Cloud, High Throughput Computing, High Performance Computing, scalable processing of big data for third-party analysis
- > Findability, accessibility and use of services
- > Scientific applications and workflows, software
- > Open scholarship services and tools
- > Data management plan tools
- > Service management processes and tools

## **Topic Area 6: Business models, sustainability and policies**

Long-term access and provisioning of services require clear governance, engagement rules, policies and funding models. Submissions should focus on the barriers, opportunities and changes in this environment in order to address the non-technical pressures, for example social, financial, legal and policy that influence the present and future opportunities.

## **Posters**

## **Demos**

## **Lightning talks**