

Openness as the fundamental Grand princple challenges Citizens Increase in data produced and used number of publications **Technological** number of researchers developments Diversity of scientific Recruitments Ways of and community conducting evaluations research

Finnish Open Science and Research Initiative (ATT) 2014-2017

- The purpose of the Initiative was to promote science and research by making them more open and increase their social impact by improving the management and use of research-generated information.
- Roadmap of Open Science and Research
- Examples of outputs
 - The Open Science and Research Handbook
 - Production of training material and sessions
 - Development of services such as IDA-research data storage service and the databank of Finnish research infrastructures
 - Evaluation of Openness in the Activities of Research Institutions and Research Funding Organizations

External evaluation in 2016 The impact of the Finnish Open Science and Research Initiative (ATT)

- All in all, the ATT Initiative has been a dynamic, multi-actor and multilevel facilitator of the transformation towards open science.
- The current collaborative and practical approach has been praised.
- Impact of the ATT initiative

- Interest level: Strong impact

- Strategic level: Affected on the strategies or policies of the target groups

Operational level: Weak impact

Open Science in Finland now coordinated by The Federation of Finnish Learned Socities

Why international collaboration and discussion is essential?

- Science is international by nature
 - It develops at the same time in many different places
 - No country, organization or community can make a sustainable approach for open science in isolation

Currently it is not easy to navigate in the field of open science

 We need real time active coordination and learning at the international, national and local level as well as between them

Openness is essential for the renewal, quality and impact of science and research

- Science is a shared knowledge
 - Openness allows to build on the shoulders of the giants
- Limited access to already existing scientific knowledge limits the possibility for breakthroughs
 - Openness increases the access
- Reliability of the building blocks for scientific work is essential
 - Openness supports reproducability
- Trust is essential for the interest to use the scientific knowledge
 - Openness helps the outsiders to see what scientific community is doing and how



