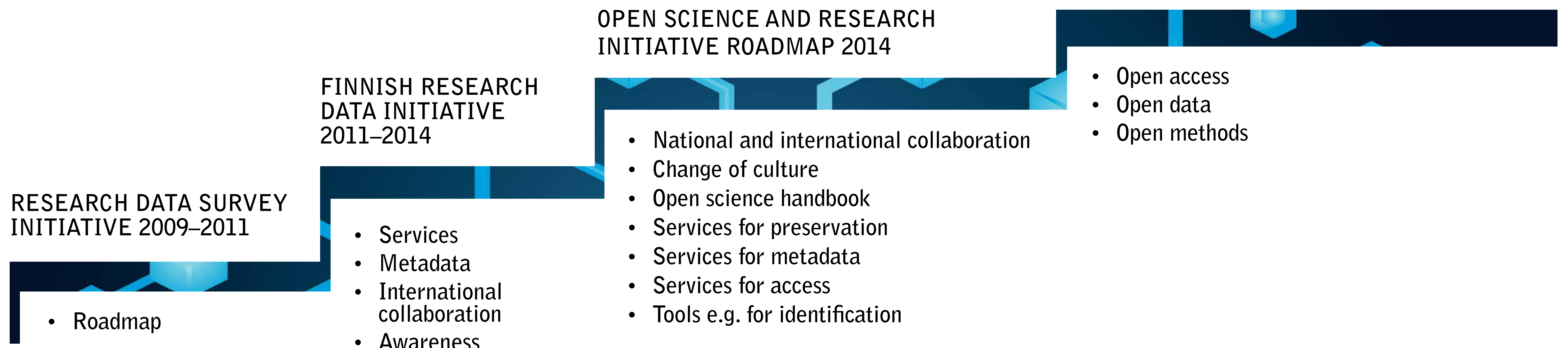


OPEN SCIENCE AND RESEARCH 2009–2017



OPEN SCIENCE AND RESEARCH INITIATIVE TARGET 2017



POLITICAL AND STRATEGIC BACKGROUND

- Government programme 2011: Publicly funded research and administrative data to be made openly available → Finnish Research Data Initiative, 2011–2013, by the Ministry of Education and Culture.
- White paper on improving access to results of scientific research 2014 → Open Science and Research in Finland Initiative for the years 2014–2017, by the Ministry of Education and Culture.

KEY ACTIONS PROMOTING OPEN SCIENCE BY THE MINISTRY OF EDUCATION AND CULTURE

Facilitating common effort

- Dialogue between stakeholders
- Commitment to common actions
- Collaboration and coordination

Building sustainable information infrastructures

- Distributed, federated services
- Service provisioning
- National infrastructure roadmap 2014

Skills development

- Scientist level: data management, principles of open science
- Specialist level: specialists in data management, information management and infrastructure
- Managerial level: skills in enterprise architecture, lifecycle management and cost-benefit analysis

TARGETS FOR THE OPEN SCIENCE AND RESEARCH INITIATIVE 2014–2017

General

- To incorporate open science and research to the entire research process, to improve visibility and impact of science in the innovation system and society at large.
- To foster the research system in Finland towards better competitiveness and higher quality, transparency and innovation.
- To comprehensively promote open publications, open research data and open research methods and tools, increasing skills and knowledge, and providing support services for open science.

On research data and methods

- Research data will be shared through an open information network, the principle of openness applying also to research methods and tools.
- Openness will adhere to ethical principles and respect the judicial context.
- Standardized, generic and machine-readable license are complied with, to ensure there are no unnecessary restrictions to re-use of data.

On scientific publications

- The re-use of publications shall not be unnecessarily restricted, and the terms and conditions of their use will be clearly stated. Standard, generic and machine-readable licenses shall be complied with (e.g. CC BY 4.0).
- The contracts and funding decisions concerning research will support open access to publications.
- Researchers shall have the opportunity to engage in open publishing, irrespective of their scientific field or financial status.
- The contents of research publications shall be openly available via an information network, immediately or as soon as possible, after publication. The maximum embargo periods follow the recommendations of the European Commission: six months for humanities and twelve months for social sciences.
- Institutional Green OA mandates and Gold OA are recommended. Hybrid OA publication is not recommended due to overlapping costs.

KEY ACTORS FOR OPEN SCIENCE, RESEARCH AND INNOVATION IN FINLAND

Ministry of Education and Culture

- Open Science and Research Initiative (ATT)

Research councils and funding agencies

- Academy of Finland and TEKES

Higher education institutions

- As an example, University of Helsinki is a leading player in OA in Finland

Finnish Social Science Data Archive (FSD)

- A national resource center of social science research and education. Archives, promotes and disseminates digital research data. Funded by the Ministry of Education and Culture.

Other actors

- *CSC – IT Center for Science Ltd.* develops and provides IT services for research, education, culture, and administrative purposes
- *The National Library of Finland* provides centralized repository platform services
- *Federation of Finnish Learned Societies* supports publishing activities by providing distribution and storage services and consultation
- *FinnOA* is a group of professionals from academia, libraries and data management, promoting open access to scientific information.

OPENING UP SCIENCE IN FINLAND

Open Science and Research Initiative 2014–2017 (ATT)

