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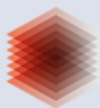
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Global Perspectives on Open Science: Policy-Driven Research Infrastructures

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NII
National Institute of Informatics

The Implementation of the Swiss National Strategies on Open Access and Open Research Data

swissuniversities supports various endeavours that enable open access to science and research: the shared use of research data (Open Research Data), free access to scientific publications (Open Access), and other innovative areas of open science. On the basis of the respective national strategies and a federal funding programme, swissuniversities and its partner organisations strive to make all publicly funded scholarly publications freely available and to make research data as open as possible based on the FAIR principles (Findable, Accessible, Interoperable and Reusable). This talk will give an overview over the federal policy landscape and the means by which it is implemented.

Four years of NFDI: How the scientific communities move towards a shared vision of ONE NFDI

Over recent years, the 26 NFDI consortia have significantly advanced research data management (RDM) services and infrastructures within their respective scientific communities. Beyond this domain-specific progress, the consortia have collaboratively developed a shared vision for a cohesive research data ecosystem spanning multiple disciplines. Cross-cutting topics such as Authentication and Authorization Infrastructure (AAI), knowledge graphs, data management plans, metadata standards, terminologies, open educational resources, legal and ethical frameworks, and industry engagement have been extensively addressed within NFDI Sections. This presentation provides an overview of the collaborative achievements of the NFDI consortia in building these basic services and outlines their anticipated future contributions to the European Open Science Cloud (EOSC).

Open Science at CERN: Policies & Infrastructure

The European Organization for Nuclear Research (CERN), the world's leading particle physics research laboratory, has long been recognized as a global leader in Open Science. Motivated by an early mandate to widely share research outputs, as well as by the global collaborative nature of the discipline of high energy physics, CERN has pioneered a range of different initiatives that have shaped the open science movement. This talk will highlight how policies meet practice at CERN, and will specifically explore the organization's approach to infrastructures to support open science at the organizational/disciplinary level, but also for the global scientific community.

NII RDC as Open Science Research Infrastructure

The National Institute of Informatics (NII) Research Data Cloud (RDC) serves as a pivotal infrastructure for advancing open science. By providing a robust platform for data sharing, management, and analysis, NII RDC facilitates collaboration among researchers and promotes transparency in scientific research. This infrastructure supports a wide range of scientific disciplines, enabling researchers to access and utilize diverse datasets efficiently. Furthermore, NII RDC integrates advanced technologies to ensure data security and integrity, thereby fostering trust and reliability in the research community. As a cornerstone of open science, NII RDC contributes significantly to the democratization of knowledge and the acceleration of scientific discovery.