

Open Science

How do you get credit?

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The Nordic e-Science Globalisation Initiative

Open Access to Scientific Data



NordForsk



Reinforced Nordic collaboration on data resources

Challenge for researchers

Riding the wave
How Europe can gain from the rising tide

Final report of the High Level Expert Group on Scientific Data
A submission to the European Commission
October 2010

Open Access to Research Data
– Status, Issues and Outlook

The FOURTH PARADIGM
DATA-INTENSIVE SCIENTIFIC DISCOVERY

EDITED BY TONY HEY, STEWART TANSLEY, AND KRISTIN TOLLE



e-IRG “Blue Paper” on
Data Management

OECD Principles and Guidelines for Access to Research Data from Public Funding



AD
No.14

LERU ROADMAP FOR RESEARCH DATA

LERU RESEARCH DATA WORKING GROUP



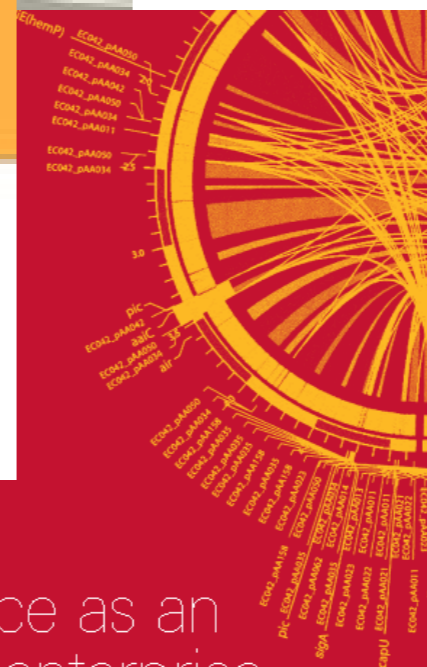
LEAGUE OF EUROPEAN RESEARCH UNIVERSITIES

University of Amsterdam - Universitat de Barcelona - University of Cambridge - University of Edinburgh - University of Freiburg - Université de Genève - Universität Heidelberg - University of Helsinki - Universitat Leiden - KU Leuven - Imperial College London - University College London - Lund University - University of Milan - Ludwig-Maximilians-Universität München - University of Oxford - Pierre & Marie Curie University - Universidad Pablo de Olavide - University of Strasbourg - Utrecht University - University of Zurich



Science as an open enterprise

June 2012



Global Research Data Infrastructures: Towards a 10-year vision for global research data infrastructures

Technological & Organisational Aspects of a Global Research Data Infrastructure
A view from the experts

www.grdi2020.eu | info@GRDI2020.eu

Funded under the Seventh Framework Programme (FP7) - Infrastructures, "Capacities - Research Infrastructures" - Project Number: 246682



This is not easy ...



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Nordic Council of Ministers report on Nordic collaboration on data (2012)

Organisational **challenges**

- Scattered data resources
- Authorities lacking research perspective
- The lack of a common language – researchers versus authorities
- Specific challenges for register-based research – access to personal data
- Researchers hesitation towards data sharing despite existing infrastructures
- Lack of Nordic perspective in national strategies targeting research data resources

Legal **challenges**

- Different legislation regarding mainly personal data in different Nordic countries and between different authorities
- The revision of the EU Data protection legislation – how will it affect the national legislation and possibilities for register-based research

Financial **challenges**

- The importance of cost-efficient research
- Not all existing data resources can survive
- Funding incentives for data sharing
- Pooling of national funds for Nordic research benefit

Ethical **challenges**

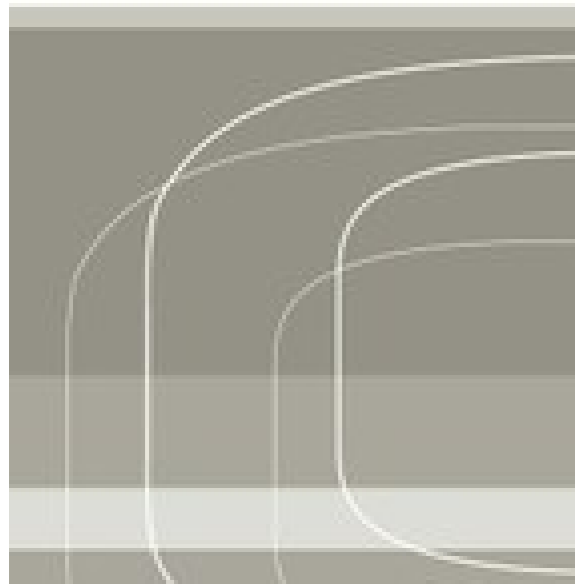
- Keeping the societal trust
- Create an ongoing open ethical debate on the Nordic level
- Decide on the role of ethical advisory boards and ethics committees

Technical **challenges**

- How to go from pilot project to large-scale infrastructure solutions
- Technical solutions need political support
- Importance of monitoring technical solutions in other initiatives and projects



Reinforced Nordic collaboration
on data resources
Challenge for researchers



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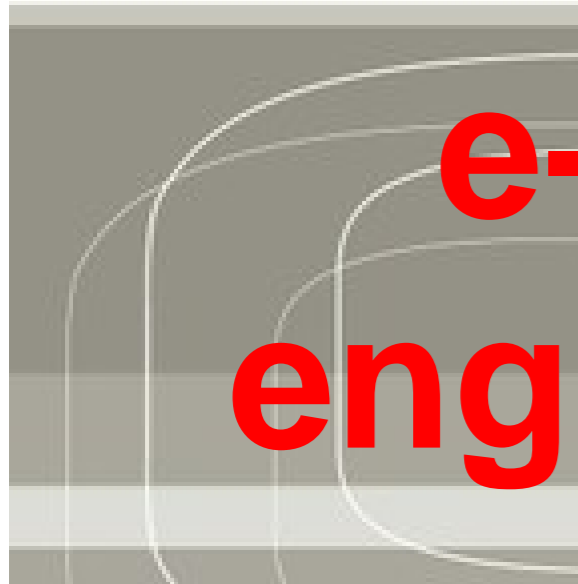
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And what about the
researchers and
e-science research
engineers perspective?



Reinforced Nordic collaboration
on data resources
Change Infrastructure



... researchers have doubts...



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- Those data/results are mine !!!!!
- I am still analyzing the data/using the results !
- I do not have the resources needed !
- I cannot trust data/results produced by someone else !
- My findings will be discredited !
- **What's in it for me ?**



Norway – Open Data initiative in 2008



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- Political goal: implement OECD principles
- Discussed at stakeholder conference
- Initiative stopped, the task seemed overwhelming!



Norway – New initiative in 2013

- Goal: Establish and implement a policy for Open Access to research data from research funded by the Norwegian Research Council
- Knowledge base: Survey among 1500 Norwegian researchers



Major findings of the Norwegian survey



Norwegian researchers:

- Share data and want to share data
- Generally agree on Open Access to data principle, and on challenges and barriers

Three main barriers:

- Lack of time and resources for preparing data
- Lack of infrastructure
- **No rewarding system, possibility even negative rewards (loss of future possibilities to publish articles)**

Do not explicitly state "we miss competence/e-science research engineers"

Sweden

- January 2013: Assignment to the Swedish Research Council: Develop national guidelines for Open Access to research publications and data
- Will probably appear in the Research Bill November 2016



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- Articles in refereed journals
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But the instructions for assessing the merits of the applicant are not that restrictive

How significant is the applicant's scientific productivity, impact and other merits in a national and international perspective, in relation to the research area, and the applicant's career age? Here the emphasis should be put on the recent scientific achievements (including up to the last eight years).

The SRC guidelines for reviewers (44 pages) do not mention open science, sharing of research results, and definitely not experience as an e-science research engineer

- "Ensuring Open Access" is one of nine principles in the strategy 2016-2020
- Nordic eScience Action Plan 2.0, Action 5: Nordic Pilot Projects within Open Science
- Restricted call – additional Open Science efforts within Centers of Excellence in the Arctics programme
 - Evaluation by Open Science experts
 - Added value compared to initial plans of the center



- Report ordered by the Nordic Council of Ministers: Open Access to Research Data – Status, Issues and Outlook
- Nordic Open Science and Research Forum 2016, Helsinki, November 22-23 (Finnish Presidency of the NCM)

On the agenda:

- Open Science Impact Study
- Open Science and Research Award



Planned NordForsk Action



Pilot on Open Science research

- planning and evaluation of the call for proposals
- evaluation of proposals and contracts
- reporting and final evaluations

Key objective: Support research where publications, research data, methods, software and educational resources are openly made available as far as possible and as early as possible.

- Interesting arena for the national actors in the Nordic countries
- Enable Nordic collaboration to take a lead within an internationally important area



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Thank you for your attention!

<http://www.nordforsk.org/>

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