Cooperation for Open Science in Finland

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Finland, what’s that?

- Population 5.5 million, capital Helsinki
- Unitary parliamentary republic, independent since 1917 (part of Sweden until 1809, then part of Russia)
- EU member since 1995, Eurozone member, Schengen area member
- Greatest hits:

Pictures from FINNA.FI
The collections of Finnish archives, libraries and museums at your fingertips.
Eight Ways to Divide FINLAND

- State of existence
  - Exists
  - Doesn’t exist

- Conversational style
  - Brutally honest
  - Never a straight answer
  - Too busy to talk

- The other local language
  - "God dag!"
  - "Tässä on oikea puoli!"
  - "Pekku"

- Population density
  - As dense as France
  - As dense as Siberia

- Animal on warning signs
  - Moose
  - Reindeer

- Number of lakes
  - All the lakes
  - Just a few thousand more

- Tree cover
  - Leafy trees
  - Evergreen trees
  - No trees

- Sun in the winter
  - Below the horizon
  - Behind the clouds

+1 Way to Unite

Picture by Heikki Salko @hezec
Universities in Finland

13 universities
- Represented by Universities Finland UNIFI
- Biggest: University of Helsinki with 32,000 students and 7,500 staff
- Smallest: University of the Arts Helsinki with 2,100 students and 700 staff

25 universities of applied science
- Represented by The Rectors’ Conference of Finnish Universities of Applied Sciences Arene
- Research typically R&D&I with local SME’s
- Biggest: Metropolia University of Applied Science with 16,000 students
- Smallest: Åland University of Applied Science with 600 students
Finnish Research Policy Key Players

Governmental

Ministry of Education and Culture

Academy of Finland

Non-Governmental (but get most of money from government)

FINNISH COMMITTEE FOR RESEARCH DATA
Era of government led Open Science initiatives
From TTA to ATT

Data Resources for Research initiative 2011-2014

Open Science and Research initiative 2014-2017
TTA & ATT Achievements

• Service architecture for research in Finland
• National data management services, such as Fairdata.fi and DMPTuuli
• Open Science operational maturity assessment
• Open Science handbook for researchers
• Recommendations on Citizen Science, data citation, research infrastructure policies, legal issues etc.
Data Management Plan Tool DMPTuuli

• Initiated by University of Helsinki Library, adopted to the ATT initiative
• Funded by Ministry of Education & Culture since 2015
• Based on Digital Curation Centers DMP solution
• In active use in (at least) 15 research organizations
• Developed in multistakeholder working groups and workshops
  • National data management plan requirements and general guidance
  • DMP guidance on managing sensitive data
  • Other working groups, like DMPTuuli user survey working group
• Tuuli project: https://wiki.helsinki.fi/x/b3eZCQ
Ball into the research community’s court
UNIFI Open Science & Data Action Programme

About

Finnish Ministry of Education and Culture’s influential Open Science and Research initiative ended in 2017. How will open science be developed in 2018 and beyond?

To answer this question, Finnish University Rectors Council UNIFI is creating with ministry funding an open science and data action plan for the national research community. The plan will be finalized by the end of May 2018.

PID: http://urn.fi/URN:NBN:fi-fe2018111648265
GOAL: NATIONAL SERVICE ECOSYSTEM

OPEN SCIENCE & DATA

SHARED PRACTICES

JOurnal.FI

OPEN SCIENCE SOLUTIONS FOR RESEARCH LIFE CYCLE

Tuuli

Aila

EMERGING SERVICE NEEDS

MINIMIZED OVERLAP

finto

EMERGING SERVICE NEEDS

KIELIPANKKI

RESEARCH DATA ALLIANCE

CODATA

EUROPEAN OPEN SCIENCE CLOUD

SHARED KNOWLEDGE

RESEARCH DATA ALLIANCE
Recommended action by UNIFi

1. Creating a permanent platform for national open science coordination
2. Recognising the budgetary demands of open science and meeting them
3. National Open Access policy
4. Commitment to DORA on national and institutional level
5. Implementing the Data Citation Roadmap (http://urn.fi/URN:NBN:fi-fe201804106446)
6. Developing research services based on real world user needs & cases
7. Front office / back office division of labor among research organizations and research service providers
8. Enforcing the European Open Science Cloud (EOSC) declaration
Where are we today?
National Open Science Coordination est. 2018
Fairdata.fi

- National integrated services for storing, describing, sharing, and preserving research data
- Provided by MinEdu
- Produced by CSC and National Library of Finland
- Make your data safe, documented and citable
  - IDA – Research data storage service
  - ETSIN – Research data finder
  - QVAIN – Research dataset metadata tool
  - FAIRDATA-PAS – Digital preservation for research data
Metadata flows in Fairdata.fi

IDA
Technical file metadata (frozen data)

QVAIN
Describe and publish research datasets

ETSIN
Browse and search research dataset metadata

METAX
DATA CATALOGS FOR DIFFERENT METADATA SOURCES

METAX API
Describe and publish Research datasets

CRIS DATA

FAIRDATA PAS

The research data hub
KEEPS YOUR BITS

LINKS METADATA AND DATA, OFFERS PIDS

PRESERVES USABILITY

STORAGE

CURATION

REPOSITORY

PRESERVATION

TAKES CARE OF DATA AND METADATA

MANAGES AND SHARES

Data owner
Conclusions: Ingredients for Cooperation

• Low hierarchy, focus on issues instead of egos
• Tight networks: small pool of people wearing many hats at the same time
• Culture of trust and straight-talking
• Little competition among unis due to differing profiles
• Lots of carrots and sticks from the government
• Favorable environment: openness and digitalization a broader trend in Finnish society
Responsibility of organisation

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National guidance

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National cooperation
Thank you!

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