

Research Data Infrastructures

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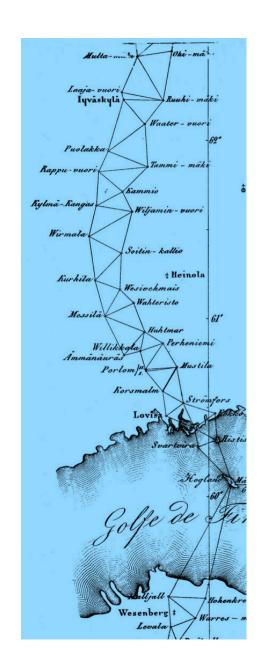
27.9.2012 - Visit of National Science and Technology Library, PRC

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h	Millim.	Millim.	Millim.
merid.	10.60	11,16	9,64
I I	10,01	10,76	9,53
2	9,81	10,72	9,40
3	9,63	10,52	9,31
4	9,72	10,66	9,35
5	9,85	10,76	9,50
6	10,01	11,01	9,59
1 000	10,07	11,03	9,62
7 8	9,69	11,03	9,58
1	9,97	10,79	9,43
9	9,95	10,63	9,12
II	9,95	10,32	8,89
12		9,98	8,45
13	9,74		8,25
14	9,72	9,90 9,83	8,11
15	9,66	10,08	8,11
16	9,72 9,85	10,40	8,31
17	10,01	10,70	8,63
18	10,23	11,23	8,89
1	10,52	11,55	9,25
19	11,05	11,84	9,70
21	10,70		
22		11.88	9,81
23	2 0 3	11,58	9,94
20	10,40	11,00	9,07



What is Research Data?

- Data that is produced during a research
 - Observation, measurements
 - Documentation, interviews, questionnaries
 - Language corpuses, etc.
- Data that can be used in research
 - Data from other research projects
 - Statistics, registers, catalogues, etc.





The Fourth Paradigm of Science

Observations 1500s

Theories 1700s

Calculations 1960s

Information 2010s



Problems of Research Data Today

Problems of Research Data

- Unorganized
- Often deleted after research
- Hard to find
- Hard to re-use

Reason of These Problems

- Researchers do not merit from research data management
- They do not have adequate storage space, managament tools, etc.
- Little standardization, common practices, etc.





Finnish Vision of Good Research Data Governance

Policy:

• Finland has a national research data policy.

Services:

• Policy is supported by common digital services.

Access:

• Data created with public funding is accessible for research.

Funding:

• Long-term stable funding for research data infrastructures.

Academic Merits:

• Researchers merit from research data output.



Research Data Policy

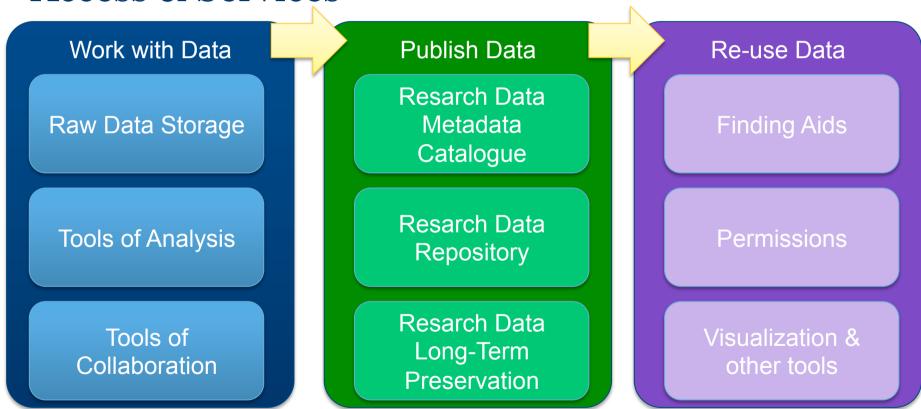


- Government-level decisions on general principles
- Current Government Programme:
 - "Information resources produced using public funding will be opened up for public and corporate access
 - in an easily reusable format".

(http://valtioneuvosto.fi/hallitus/hallitusohjelma/en.jsp)



Access & Services





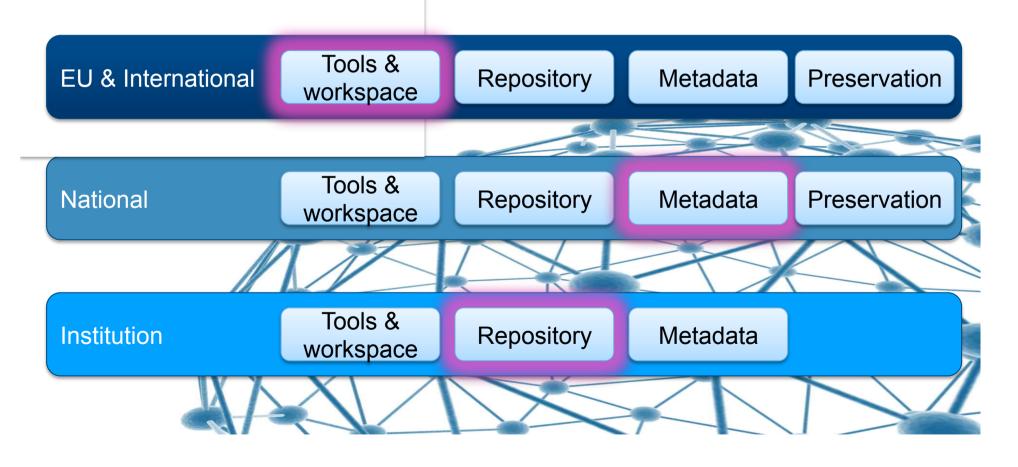
Existing Services

National Services by CSC – IT Centre for Science; http://www.csc.fi

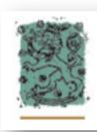
- Research Data Storage Service
- Application Services analysis tools
- Authentication Service (universities & research institutions)



Easy for Researcher – Seamless Interoperability between Service Providers







Ministry of Education and Culture

Opetus- ja kulttuuriministeriö

Undervisnings- och kulturministeriet

Research Data Project 2012 - 2014

- Metadata Working Group
 - Recommendations on Metadata
- Data Infrastructure Working Group
 - A proposal for a national research data infrastructure
- Long-Term Preservation Group
 - Will build on National Digital Library outcomes, <u>http://www.kdk.fi/en/long-term-preservation</u>
- Public Data Registries Group
 - Plans how to better open public data resources for research

