



## Research.fi and the lessons learned so far

euroCRIS Working Group Meeting - April 25, 2023

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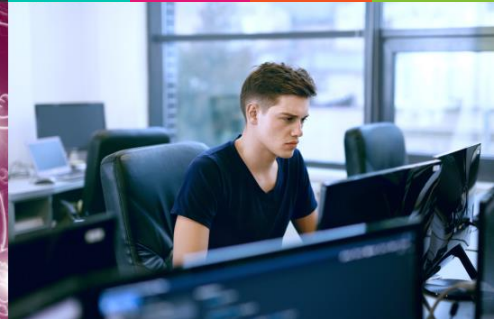
CSC - IT Center for Science



# Contents

1. Research.fi - the Finnish national CRIS system  
Background and some recent developments + future topics
  
2. Three lessons learned

# Research.fi – the Finnish national CRIS system



## Research.fi

- The National Research Information Hub project was launched in 2017
- Owned and financed by the Ministry of Education and Culture of Finland that has authorised the implementation to CSC – IT Center for Science Ltd.
- Information is publicly and freely available in [www.research.fi](http://www.research.fi) launched in 2020



**Research.fi**

**Check  
it out!**



# Search for information on research in Finland

Search target

For example, publication, field of science, keyword

SEARCH

Search help



Publications  
710 610



People - BETA  
243



Projects  
12 579



Research data  
4 854



Funding calls  
311



Infrastructures  
172



Organizations  
84

## Science and research in Finland



### Figures on science and research

Read statistics on research personnel, funding and publishing.

## Latest science and research news

Vapaa-ajan liikunta on yhteydessä parempaan mielenterveyteen nuorilla



24.04.2023

Itä-Suomen yliopisto

Asuntoflippaustoiminnan veroriskit on selvitetty



24.04.2023

Itä-Suomen yliopisto

## Open funding calls

Kevään apurahahaku

Haku aika päättyy 28.04.2023

Finnfoto-Suomen Valokuvajärjestöt ry

Hedmanin juhlavuoden apuraha

Haku aika päättyy 30.04.2023

Hedmanin Säätiö - Hedmanska Stiftelsen

## Research.fi collects and disseminates information on Finnish research



- All information is harvested from external sources – no manual input
- Supports the highly decentralized landscape of systems (e.g. CRIS systems, funders)

Information type	Information sources
Publications	Research organizations
Funding decisions / grants	Funders
Funding calls	Funders
Research data	Research organizations, data services and repositories
Research infrastructures	Research organizations, infrastructure providers
Research news	Research organizations, funders, and other research supporting organizations
Researchers and other research Activities (in beta, coming in 2023)	Research organizations, Researchers, ORCID

# Recent developments of Research.fi in 2022-2023

[Act on Research Information Hub \(1238/2021\)](#)

- Act on Research Information Hub came into force at the start of 2022
  - More straightforward agreement on the delivery of data, enabling the further use and enrichment of data, compilation of the researcher's data and their further authorization, Ministry of Education as the data registrar
- Open funding calls added to Research.fi portal during 2022
  - Direct integrations with suppliers of the systems of most important funders – coverage is more than half of public funding currently
- Open Science monitoring part of Research.fi since November 2022
  - <https://research.fi/en/science-innovation-policy/open-science-and-research-indicators>
- Researchers Profiles in public Beta since November 2022
  - Profiles by researchers and experts in science as part of Research.fi, launch in May 2023
- The first iteration of public REST API at the end of March 2023
  - Including publications, datasets, funding calls and funding decisions currently:  
<https://wiki.eduuni.fi/pages/viewpage.action?pageId=86836501>

# Aims of the Finnish Research Information Hub

R&D analytics  
Visualizations  
Business  
Intelligence  
Landscape

To describe the Finnish research ecosystem and act as an information base for science policy

To help to find Finnish research and researchers

Research.fi portal  
Semantic search  
Linked data

APIs  
Shared data  
model

To support the reuse of existing research information in other services and systems

To support the merit of researchers and increase the visibility of their research output and activities

Researcher's Profiles  
Traditional research outputs  
Other research activities



## Future topics: Researcher's MyData in Research.fi

“The term MyData refers to: 1) a new approach, a paradigm shift in personal data management and processing that seeks to transform the current organisation-centric system to a human-centric system; 2) personal data as a resource that the individual can access and control”

<https://www.sitra.fi/en/dictionary/mydata/>

- Creating a profile at Research.fi is completely voluntary for researchers.
  - The researchers can decide what information they want to publish about themselves
  - The researchers may authorize the disclosure of the information to any party they want, such as funders or other researchers' services
- > Emphasizing the "My" in MyData,
- > Research.fi as MyData operator



# Detailed view of which information is shared to which actor via API

## Jakaminen

Maija Virtanen  
1234 5678 9012 3456

**Kohteet, joille minun tutkijan tiedot -profiilini jaetaan**

Tässä näkyvässä voit hallinnoida kohteita, joille jaetaan Tutkijan tiedot -profiilisi. Muille kohteille kuin tiedeajatutkimus.fi profiili jaetaan datamuodossa rajapinnan kautta.

tiedeajatutkimus.fi	<input checked="" type="checkbox"/> Käytössä	
Organisaatio X	<input checked="" type="checkbox"/> Käytössä	<a href="#">Poista...</a>
Palvelu Y	<input checked="" type="checkbox"/> Käytössä	<a href="#">Poista...</a>

**Hae lisää kohteita**

Voit lisätä kohteita, joille profiilisi jaetaan.

View on controlling the actors with access to personal information

## Tiedot ja tietolähteet

Maija Virtanen  
1234 5678 9012 3456

58 valittu [Aseta julkiseksi Tiedeajatutkimus.fi:ssä](#) [Piiilota Tiedeajatutkimus.fi:ssä](#) [Jaa kohteille...](#)

Rajaa

**Tila profiilissa**

Julkinen  
 Ei julkinen

**Tietokokonaisuus**

Yhteystiedot  
 Tutkimustoiminta  
 Yhteystiedot  
 Affiliaatiot  
 Koulutus  
 Julkaisut  
 Tutkimusaineistot  
 Hankkeet  
 Aktiiviteetit ja palkinnot

**Lähde**

Orcid  
 Helsingin yliopisto  
 Turun yliopisto

<input checked="" type="checkbox"/>	Tieto	Sisältö	Tiedeajatutkimus.fi	Lähde	Jakaminen
<input checked="" type="checkbox"/>	Nimi		Julkinen		1 valittu
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<input checked="" type="checkbox"/>	Puhelinnumero	Näytä	Ei julkinen		
<input type="checkbox"/>	Linkit	Näytä	Ei julkinen		
<input type="checkbox"/>	Kuvaus	Näytä	Ei julkinen		1 valittu
<input type="checkbox"/>	Avainsanat	Näytä	Julkinen		1 valittu
<input type="checkbox"/>	Affiliaatio	Näytä	Julkinen		3 valittu

tiedeajatutkimus.fi  
Organisaatio X  
Palvelu Y

## Future topics: eOSC | FAIRCORE4EOSC

- Developing EOSC-Core components to enable a FAIR EOSC ecosystem 2023-2025
- Realize the potential in combining CRIS-like information from national sources on European level, aggregating this information to RDGraph and OpenAIRE
- Showcase the CERIF data model as common for exchanging information between organizational and national CRIS systems & OpenAIRE
  - Included in the case study: Research.fi (Finland), HELIX (Greece), Open Knowledge Base (Netherlands)
  - To use refactored CERIF at <https://github.com/EuroCRIS/CERIF-Core>
- Introducing RAiDs to CRIS-domain + organizations
- Have a template for integration of further national research information systems with the EOSC Core

# Lessons learned so far



# 1. Cooperation is the key

- From 2021, the management of the Research.fi is based on one steering group, in which representatives of research organizations and other key stakeholders are represented. <https://wiki.eduuni.fi/x/3YZpD>
- Various national working groups are used while developing further features
  - e.g. working groups on Researchers Profiles, Infrastructures, Publications etc.
  - Especially important on decentralized landscape of CRIS systems, organizations can remain autonomous but still have a say in all things related to national level developments
  - Assigned by the ministry on most crucial work – formal structures help
- Use of existing networks and forums to support and disseminate work
  - e.g. Finn-ARMA Network <https://wiki.eduuni.fi/x/E592C>

## 2. Keep current processes running

- Facilitate also the ongoing processes and keep on improving them together with HEIs
  - e.g. national publication collection has been enhanced since the beginning – a lot of fine tuning and making things flow better
- Broader integration of source systems results into more work which needs to be taken into consideration while setting targets and allocations
  - Need to take care of things like: data flows, PID-handling etc. on more specific level

### 3. Sustainability and longevity matters

- Research.fi currently has filled most of the targets set in 2017 for the Research Information Hub project
  - The amount of user stories and requirements hasn't gotten any smaller – quite the opposite
- Priorization and strategy work (ongoing since 2022) plays even more important role and needs facilitation on national level
- Aim for things that benefit the whole of research
- Credibility also on setting targets and roadmaps



**Thank you!**

More information:

[www.research.fi](http://www.research.fi)

[www.csc.fi/tutkimustietovaranto](http://www.csc.fi/tutkimustietovaranto)  
[tiedejatutkimus@csc.fi](mailto:tiedejatutkimus@csc.fi)

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[github.com/CSCfi](https://github.com/CSCfi)