

Towards an integrated research information infrastructure at the Nordic level

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NIFU

Overview

1. European Network for Research Evaluation in the Social Sciences and Humanities (ENRESSH)
2. Nordic collaboration
3. The VIRTAsolution
4. Discussion: Developing CRIS as data sources for studies of research

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European Network for Research Evaluation in the Social Sciences and Humanities

COST is supported by the EU Framework Programme Horizon 2020



ENRESSH

European Network for Research Evaluation
in the Social Sciences and Humanities
COST Action 15137

ABOUT US

WORK GROUPS

- More than 125 participants from 37 countries
- Aims:
 - A better understanding of how the SSH generate knowledge and contribute to society
 - Develop appropriate research evaluation methods for the SSH

WELCOME

TO THE ENRESSH WEBPAGE!

COST (European Cooperation in Science and Technology) is a pan-European intergovernmental framework. Its mission is to enable breakthrough scientific and technological developments leading to new concepts and products and thereby contribute to strengthening Europe's



Four workgroups



1. Conceptual frameworks for SSH evaluation
2. Societal impact and relevance of the SSH research
- 3. Databases and uses of data for understanding SSH research**
4. Dissemination



Example of outcome

Scientometrics (2018) 116:463–486
<https://doi.org/10.1007/s11192-018-2711-0>



Publication patterns in the social sciences and humanities: evidence from eight European countries

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Abstract This study investigates patterns in the language and type of social sciences and humanities (SSH) publications in non-English speaking European countries to demonstrate that such patterns are related not only to discipline but also to each country's cultural and historic heritage. We investigate publication patterns that occur across SSH publications of the whole of the SSH and of economics and business, law, and philosophy and theology publications in the Czech Republic, Denmark, Finland, Flanders (Belgium), Norway, Poland, Slovakia, and Slovenia. We use data from 74,022 peer-reviewed publications from 2014

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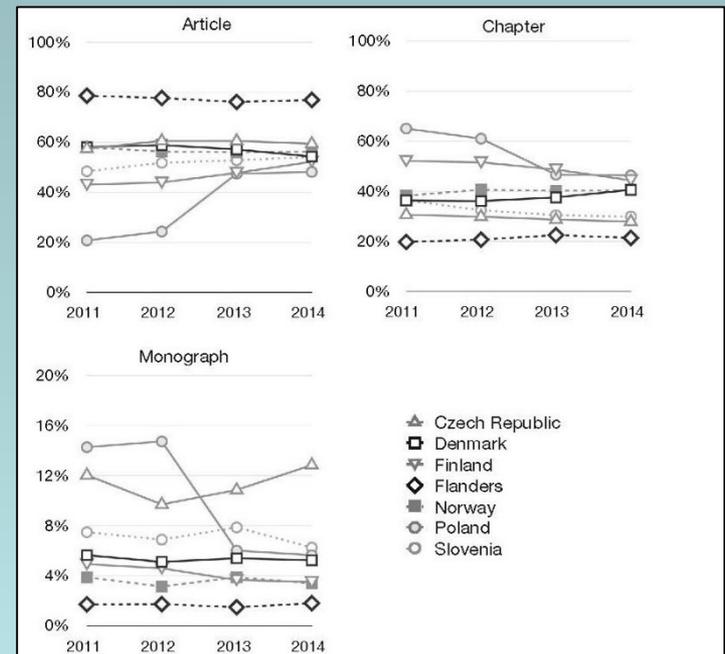
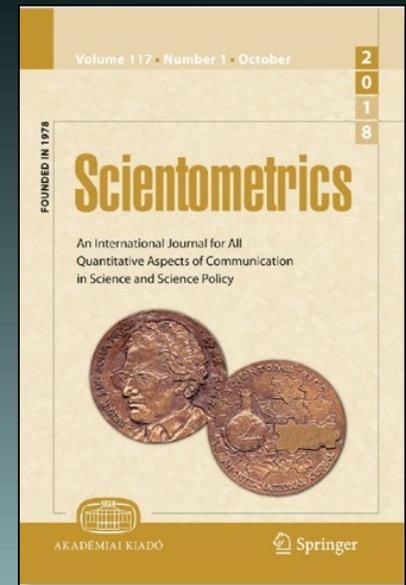
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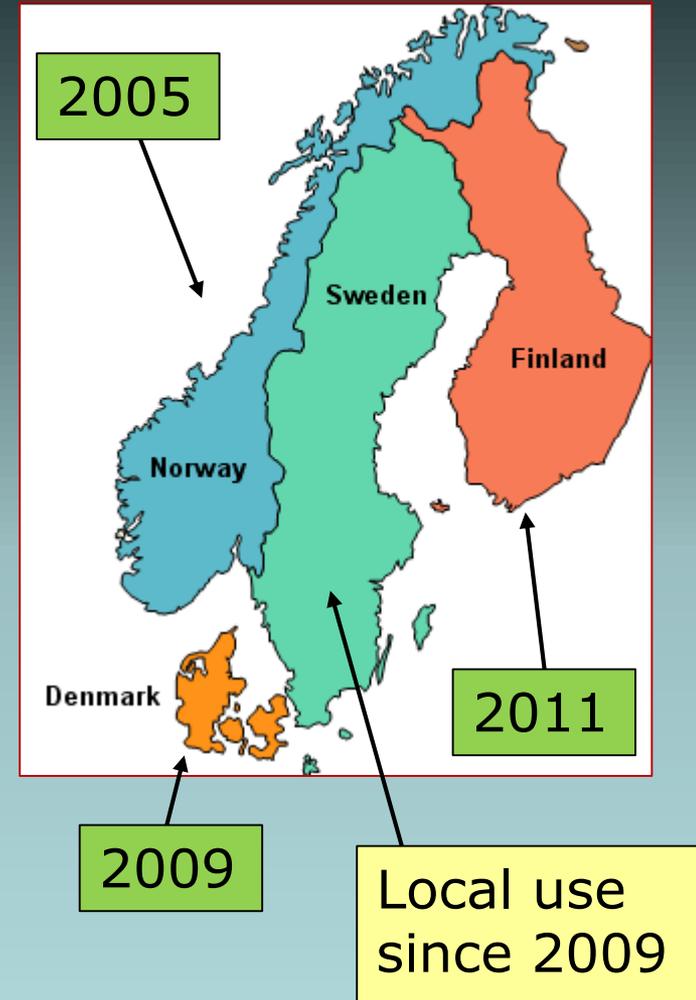
Overview

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Implementation of the «Norwegian model»

The model has three components:

- A. A complete representation in a **national database of structured, verifiable and validated bibliographical records** of the **peer-reviewed** scholarly literature in all areas of research;
- B. A **publication indicator** with a system of weights that makes field-specific publishing traditions comparable across fields in the measurement of “Publication points” at the level of institutions;
- C. A **performance-based funding model** which reallocates a small proportion of the annual direct institutional funding according to the institutions’ shares in the total of Publication points.



Components of the «Norwegian model»

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(Part of) CRIS

```
graph LR; A["(Part of) CRIS"] --> A1["A. A complete representation in a national database of structured, verifiable and validated bibliographical records of the peer-reviewed scholarly literature in all areas of research;"]; B["Statistics and measurement"] --> B1["B. A publication indicator with a system of weights that makes field-specific publishing traditions comparable across fields in the measurement of 'Publication points' at the level of institutions;"]; C["Part of the funding formula"] --> C1["C. A performance-based funding model which reallocates a small proportion of the annual direct institutional funding according to the institutions' shares in the total of Publication points."];
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Statistics and measurement

Part of the funding formula

National database – Norway's solution

Cristin

- Current Research Information System In Norway

Research documentation in Norway

Cristin is the new joint research documentation system in Norway. The system will be used by all research institutions in Norway. The Cristin system will be implemented in 2011 in all sectors.

Cristin is both the name of the computer system and an agency for research administration for research institutions, universities and university colleges with its own board. The Board has the professional responsibility for the system. The university assists with administrative services.

Cristin research will provide increased value for society by facilitating that the research in science and technology is on the principle of open access for all. Cristin will also document, present, and make public the research results from financing systems in the higher education sector, research institutes and the regional health services.

Cooperation Cristin is also given other tasks:

Licensing and consortium agreements

Cristin will have national responsibility for negotiating licensing and consortium agreements.

Institutional repositories and open access

Norwegian Open Research Archives (NORA) has worked to promote open access to Norwegian research. Cristin will have the responsibility for the work of open access to the Norwegian research.

Acquisition of indexed data

Cristin will, among other things, have the national responsibility for the procurement and

Principles behind the use of institutional data in a **shared national** Current Research Information System

- **Completeness:** All scholarly publications and other results from research are included
- **Transparency:** Every institution can see and check all other institutions' data. The national database is also online and open to society at large.
- **Multiple use of the data:** CV's, applications, evaluations, annual reports, internal administration, bibliography for Open Archives, links to full text, etc.

WS

Information letter for Cristin (

Useful links

Norwegian Scientific Index - N

to CRIS

Publication channels

Cristin seminar

Contact information

Cristin secretariat:

Head of email

Postal address:

P.O. box 1059, Blindern

06 Oslo

Board

Head of email

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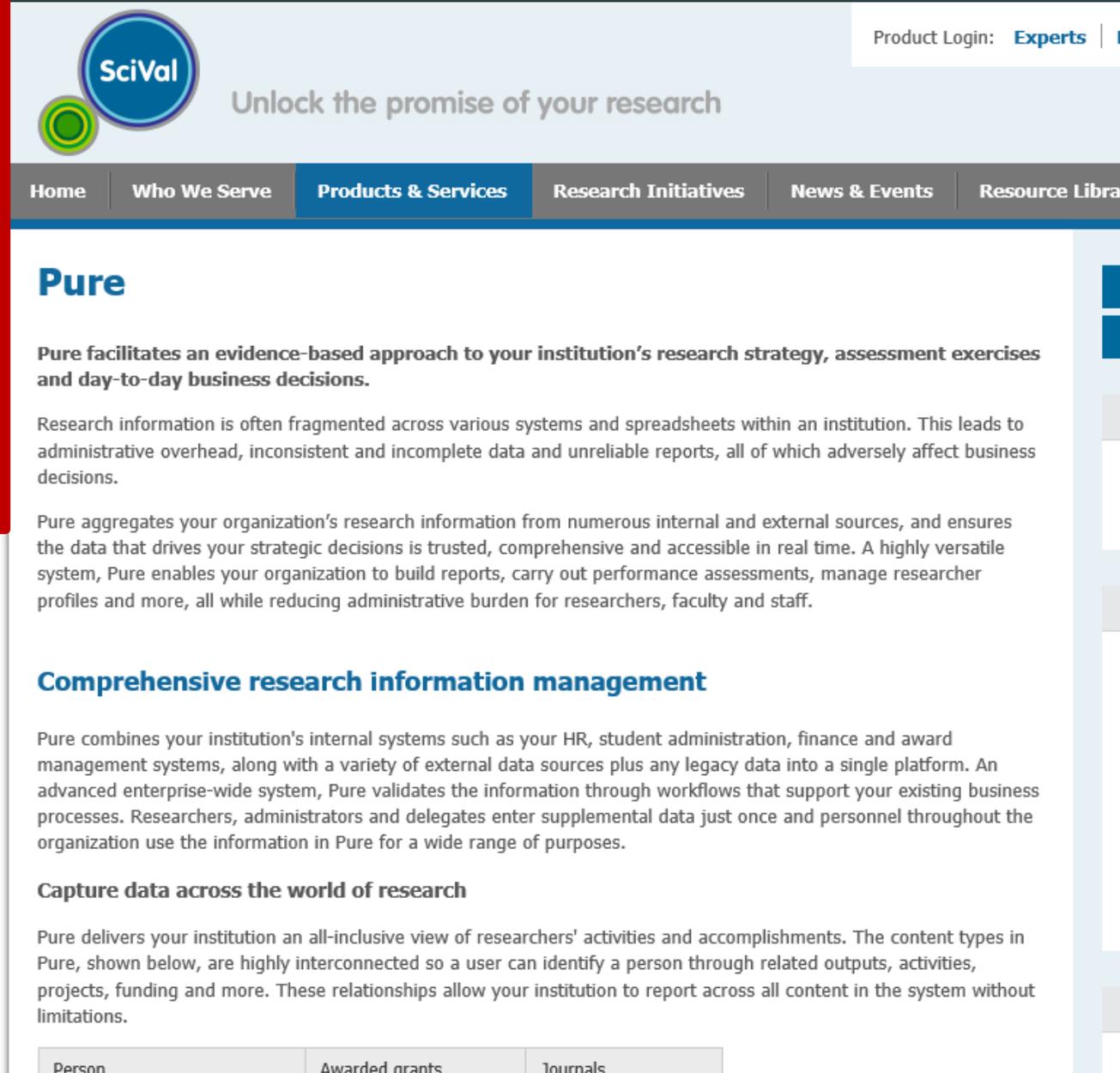
Prof. Gunn Stangeby, NFR

Server:

Eirik Oftedal, UIO

National database – Denmark's solution

- Each university has a local Pure system.



The screenshot shows the SciVal website header with the logo and tagline "Unlock the promise of your research". A navigation menu includes "Home", "Who We Serve", "Products & Services", "Research Initiatives", "News & Events", and "Resource Libra". A "Product Login: Experts" link is visible in the top right. The main content area features a "Pure" section with a sub-header "Pure facilitates an evidence-based approach to your institution's research strategy, assessment exercises and day-to-day business decisions." followed by a paragraph explaining the fragmentation of research information. Below this is another paragraph about Pure aggregating research information. A second sub-header "Comprehensive research information management" is followed by a paragraph describing how Pure combines internal and external data. A third sub-header "Capture data across the world of research" is followed by a paragraph about the interconnected content types. At the bottom, a table lists content types: Person, Awarded grants, and Journals.

Product Login: [Experts](#) | [I](#)

SciVal Unlock the promise of your research

Home | Who We Serve | **Products & Services** | Research Initiatives | News & Events | Resource Libra

Pure

Pure facilitates an evidence-based approach to your institution's research strategy, assessment exercises and day-to-day business decisions.

Research information is often fragmented across various systems and spreadsheets within an institution. This leads to administrative overhead, inconsistent and incomplete data and unreliable reports, all of which adversely affect business decisions.

Pure aggregates your organization's research information from numerous internal and external sources, and ensures the data that drives your strategic decisions is trusted, comprehensive and accessible in real time. A highly versatile system, Pure enables your organization to build reports, carry out performance assessments, manage researcher profiles and more, all while reducing administrative burden for researchers, faculty and staff.

Comprehensive research information management

Pure combines your institution's internal systems such as your HR, student administration, finance and award management systems, along with a variety of external data sources plus any legacy data into a single platform. An advanced enterprise-wide system, Pure validates the information through workflows that support your existing business processes. Researchers, administrators and delegates enter supplemental data just once and personnel throughout the organization use the information in Pure for a wide range of purposes.

Capture data across the world of research

Pure delivers your institution an all-inclusive view of researchers' activities and accomplishments. The content types in Pure, shown below, are highly interconnected so a user can identify a person through related outputs, activities, projects, funding and more. These relationships allow your institution to report across all content in the system without limitations.

Person	Awarded grants	Journals
--------	----------------	----------

National database – Denmark's solution

- Each university has a local Pure system.
- Annually, data from the local systems are exported to, and integrated in, a national database owned by the Government

Den Bibliometriske
Forskningsindikator Høstresultater

Den Bibliometriske Forskningsindikator

Den Bibliometriske Forskningsindikator (BFI) har til formål at fremme publicering og spredning af viden om dansk forskning. Indikatoren bruges til at beregne point for videnskabelige publikationer (f.eks. artikler i tidsskrifter, bøger eller kapitler i bøger), som konverteres til ekstra penge til universiteterne. Jo mere et universitet producerer af videnskabelige publikationer, desto flere penge får de gennem denne indikator. Der er ikke tale om en indikator, som måler kvalitet. Dansk forskning ligger generelt i top 3 på verdensplan målt på antal videnskabelige publikationer pr. indbygger og på gennemslagskraft (se f.eks. Forskningsbarometeret (åbner i et nyt vindue)).

Den Bibliometriske Forskningsindikator belønner publicering i de mest prestigefyldte og anerkendte tidsskrifter og forlag. Indikatoren er opbygget omkring et IT-system, som består af et lokalt og et centralt niveau. På det lokale niveau indberetter universiteterne deres forskningspublikationer, og på det centrale niveau beregnes pointene. Til gavn for den brede offentlighed kan man via dette system få et samlet overblik over al dansk forskning på nationalt niveau, på universitetsniveau og for hvert fagområde.

[Læs mere om Den Bibliometriske Forskningsindikator \(åbner i et nyt vindue\)](#)



Høstresultater

Se alle de forskningspublikationer, som universiteterne har indberettet, og hvor mange point de er blevet tildelt.

[Se høstresultater »](#)



Adgange

I BFI-systemet kan du blandt andet stille forslag om nye publiceringskanaler, der skal give BFI-point. Læs mere om mulighederne i systemet og log på.

[Log ind »](#)



Support

Hvis du har spørgsmål til systemet eller support, er du velkommen til at kontakte os for Forskning og Innovation.

[Kontakt BFI »](#)

National database – Finland's solution

- The universities have **different** systems
- Annually, data from the local systems are exported to, and integrated in, a national database owned by the Government (the VIRTA solution)

The screenshot displays the JUULI Julkaisutietoportaaali search interface. At the top, the logo 'JUULI Julkaisutietoportaaali' is visible on the left, and 'Suomi' is on the right. Below the logo is a search bar with a dropdown menu set to 'All Fields', a green 'Find' button, and an 'Advanced' link. A checkbox for 'Retain current filters' is checked. Below the search bar, the text 'Search:' is followed by 'Showing 1 - 20 of 7,245 for search: "", query time: 0.16s'. A 'Sort' dropdown menu is set to 'Title'. On the right side, there is a 'Narrow Search' section with 'Remove Filters' and 'Field of Science: N sciences' (partially visible). Below this, there are sections for 'Institution' (University, Research Institute, Health Care District, University of Applied Sciences) and 'Author' (Juvela, M.).

1  **A 0.5-Mbp deletion on bovine chromosome 23 is a strong candidate for stillbirth in Nordic Red cattle**
by: Sahana, Goutam; Iso-Touru, Terhi; Wu, Xiaoping; Sander Nielsen, Ulrik; de Koning, Dirk-Jan; Sandø Lund, Mogens; Vilkki, Johanna; Guldbrandsen, Bernt
Genetics Selection Evolution, BioMed Central, 2016
A1 Journal article (refereed), original research
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2  **1,25-Dihydroxyvitamin D(3) Influences Cellular Homocystine Levels in Murine Preosteoplastic MC3T3-E1 Cells by Directs Regulation of Cystathionine beta-Synthase**
by: Kriebitzsch C; Verlinden L; Eelen G; van Schoor NM; Swart K; Lips P; Meyer MB; Pike JW; Boonen S; Carlberg C; Vitvitsky V; Bouillon R; Banerjee R; Verstuyf A
JOURNAL OF BONE AND MINERAL RESEARCH, 2011
A1 Journal article (refereed), original research
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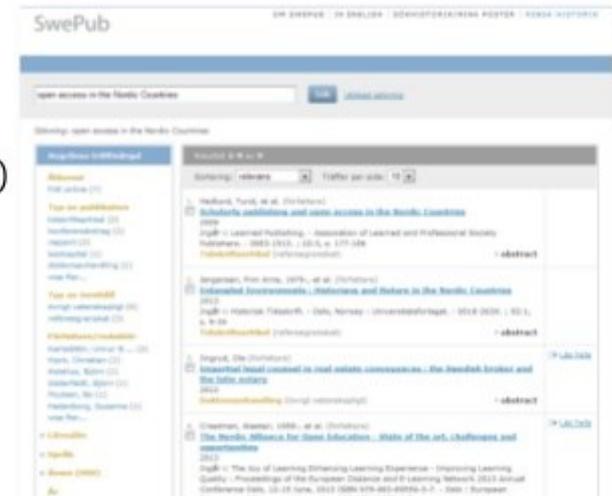
3  **1,3-Dipolar cycloaddition of nitrones to a nitrile**

National database – Sweden's solution

- The universities have **different** systems
- SwePub harvests data from local publication databases

SwePub – national research publication database

- Run by the National Library
- Harvests records from 40 publication databases using OAI-PMH protocol
- 1 100 000 + Swedish publication records aggregated
 - 70 000 new per year
 - links to full texts



Nordic List: Nordic collaboration on online dynamic registers of scholarly publication channels



Example of journal register: LIS in Norway

You are here: [Home](#) / [Scientific fields](#) / [Library and Information Science](#)

Library and Information Science

Scientific panel: National Academic Council for Information Science

ISSN Channels ISBN Publishers Nominations Comments

Search the list for name or ISSN



Level 2019	Level 2020	ISSN	e-ISSN	Publication channel	Prod (NO)	Prod (V)	Sitering	Level DK	Level SF
2	2	0925-9724	1573-7551	Computer Supported Cooperative Work (CSCW)	10.3	59	1.44	2	2
2	2	0905-0167	1901-0990	Scandinavian Journal of Information Systems	6.3	22	0.47	2	1
2	2	0022-0418	1758-7379	Journal of Documentation	5.7	178	1.23	2	3
2	2	0020-0255	1872-6291	Information Sciences	4.6	2274	2.28	2	1
2	2		1536-9323	Journal of the AIS	4.2	90	1.97	2	3
2	2	0268-4012	1873-4707	International Journal of Information Management	3.9	267	2.82	2	2
2	2	2330-1635	2330-1643	Journal of the Association for Information Scienc...	3.4	592	1.96	2	3
2	2	0740-8188	1873-1848	Library & Information Science Research	3.0	103	1.67	2	3
2	2	0306-4379	1873-6076	Information Systems	2.5	258	2.25	2	2

Collaborations also with



NPI NORWEGIAN PUBLICATION INDICATOR



Home Scientific fields Publishers Organisation About NPI Log in en ▾

You are here: Home / Scientific fields / Library and Information Science

Library and Information Science

Scientific panel: National Academic Council for Information Science

ISSN Channels ISBN Publishers Nominations Comments

Search the list for name or ISSN

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2	2	0925-9724	1573-7551	Computer Supported Cooperative Work (CSCW)	10.3	59	1.44	2	2
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NSD DBH

ERIH PLUS

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c/o NSD
Harald Hårfagners gate 29
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Tel +47-55 58 21 17
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ERIH PLUS

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The European Science Foundation (ESF) signed in January 2014 a memorandum of understanding with the Norwegian Social Science Data Services (NSD) to transfer the maintenance and operations of the European Reference Index for the Humanities (ERIH) to NSD. The ERIH database operated by NSD is called ERIH PLUS.

Search

Title or ISSN:

Show disciplines

Criteria for inclusion

To be included in ERIH PLUS, journals must meet the following minimum requirements:

1. Established procedures for external peer review
2. Academic editorial board (or an equivalent)
3. Valid ISSN code, confirmed by the international ISSN register
4. Publication of all original articles with abstracts in English and/or another language relevant for the field
5. Information on author affiliation and address
6. International or national authorship

See full details about criteria and approval procedures.

ERIH PLUS Conference 2015 in Bergen

NSD will host an ERIH PLUS Conference in Bergen May 28-29 to mark the start of ERIH PLUS. The conference will start with a meeting for the ERIH PLUS Advisory Group on the 28th of May at NSD. On the 29th of May there will be a Conference seminar on Hotel Radisson BLU for the Advisory Group, The National Experts and the NSD staff working with ERIH PLUS. The aim of the Conference is to create a forum for common understanding of ERIH PLUS.

Bergen and Strasbourg, 9th July 2014

The European Science Foundation (ESF) and the Norwegian Social Science Data Services (NSD) are pleased to announce that the transfer of the European Reference Index for the Humanities (ERIH) to NSD has been completed and ERIH PLUS is now accessible at the NSD website:

<http://erihplus.nsd.no/>

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VIRTA: Intregating information about research publications from Finnish organizations

All Fields ▾



[Advanced](#)

The Juuli portal contains information on the research publications produced at Finnish organizations.

The publications of Finnish universities and hospital districts are included starting from year 2011, and the publications of universities of applied sciences starting from 2012. A number of state research institutes have joined the data collection starting from 2014 and 2015.

The data has been obtained from the research organizations as part of the annual data collection conducted by the Ministry of Education and Culture. Starting from 2016 some of the organizations have been providing their data automatically on a daily basis to the [Virta Research Information Service](#), from which the data is harvested into Juuli. For these organizations the portal contains information on more recent publications as well.

Statistical analyses on publication data can be obtained from the Vipunen reporting portal (www.vipunen.fi) that contains not only data on publications but also other information related to the operations of research universities and universities of applied sciences.

Juuli is maintained by the National Library of Finland in collaboration with the Finnish Ministry of Education and Culture and CSC - IT Centre for Science.



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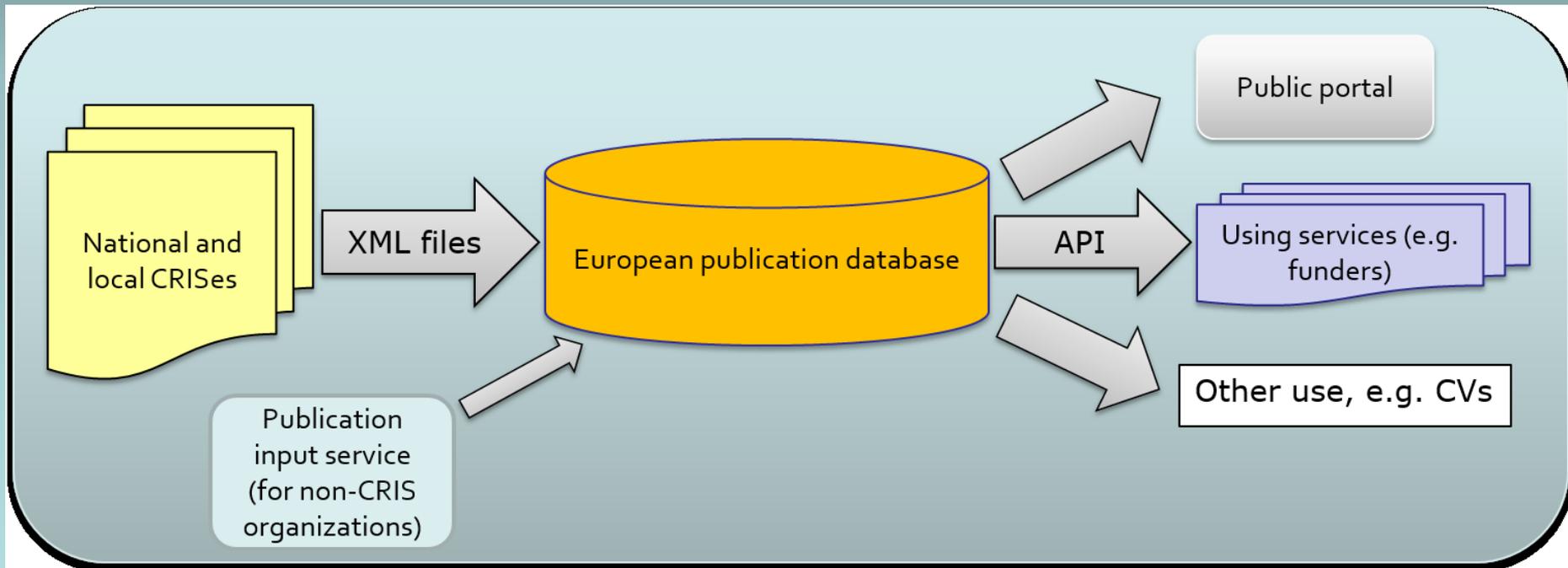
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- [Search Tips](#)
- [Ask a Librarian](#)

Principles for a European solution

- VIRTAs Publication Information Service compiles real time information on publications at the national level
- VIRTAs can provide a convenient and cost-efficient way of developing a European publication information database
- The concept and the technical solution are expandable to compilation of data from countries and organizations across Europe
- Requires common European standardizations and definitions for data content – as already provided by CERIF (www.eurocris.org)

Principles for a European solution

- Any European country or single organization can provide its data
- Data transfer from national or local CRISes in a standardized format – annually or more frequently
- All data freely available in a public portal and for services



Objectives of a European Research Information Service

- **Completeness:** All scholarly publications and other research outcomes are included
- **Coverage:** Any European country or institution can join
- **Quality:** Revision process and shared standards and definitions to improve commensurability and uniformity
- **Transparency:** Every institution can see, check and compare all other institutions' data
- **Usability:** CV's, applications, evaluations, administration, policy, research, information retrieval
- **Availability & Open Access:** Online infrastructure for research literature, metadata with links to full texts, OpenAIRE

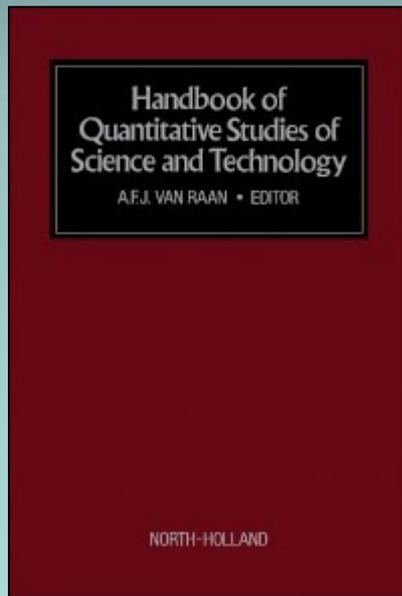
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Published in August 2019:

Gunnar Sivertsen: Developing Current Research Information Systems (CRIS) as Data Sources for Studies of Research

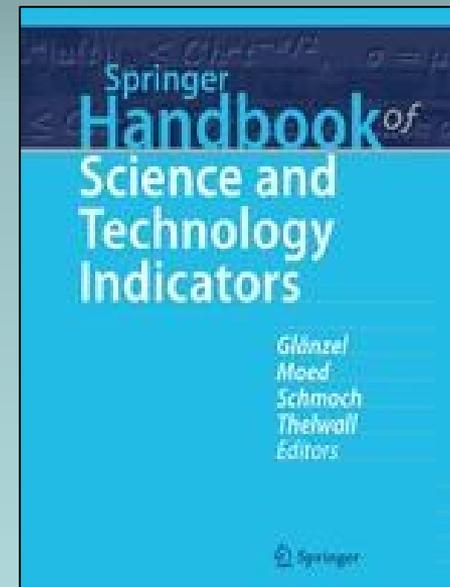
A chapter in the handbook for the first time



1988



2005



2019

The new opportunities

- Current research information systems (CRIS) are increasingly being used to standardize and ease documentation, communication and administration of research.

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The new opportunities

- Current research information systems (CRIS) are increasingly being used to standardize and ease documentation, communication and administration of research.
- With **broad coverage** and **sufficient completeness**, **data quality** and **standardization**, CRIS systems can also be used as data sources for **studies of research**.
- Making CRIS **interoperable and comparable** across institutions and countries is **necessary** for the further development of CRIS for research purpose.

The remaining challenges

- Most of the remaining challenges are **not** related **technical** solutions, but to an efficient production, sharing and use of **contents**.

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- The same is true for e.g. CASRAI, CrossRef, DataCite and ORCID.

The remaining challenges

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- The **main challenge** is **creating comparable contents** on the basis of shared definitions, classifications and authority records.
- **CERIF** is only part of the solutions to this challenge.
- The same is true for e.g. CASRAI, CrossRef, DataCite and ORCID.
- **OpenAIRE** needs data that are **already created and harvestable with comparable contents**. OpenAIRE thereby **efficiently demonstrates** the main challenges without being able to solve them.

Thank you for your attention!

Cristin

 [Norsk versjon](#)

Gunnar Sivertsen
NIFU

- Logoff
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- Research results/NVI
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 - Quick reference list of journals
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Search criteria:

Surname: sivertsen *First name:* gunnar *From:* 2019 *To:* 2019 *All publishing channels*

Showing results 1-1 of 1

4	
Category:	Conference lecture and academic presentation - Lecture
Person(s):	Author, Sivertsen, Gunnar NIFU Nordic Institute for Studies in Innovation, Research and Education - NIFU Nordic Institute for Studies in Innovation, Research and Education
Original title:	Towards an integrated research information infrastructure at the Nordic level
Original language:	English
Event:	EuroCRIS Membership Meeting Spring 2019
Type of event:	Conference
Area of distribution:	International
Organisor:	EuroCRIS
City/town:	Espoo
Time:	27.05.19 - 29.05.19
Invited:	Yes
External peer review scheme:	No
Plenary session:	Yes
Status:	Published/Presented.

Entry no.:	1700401
Created:	2019-05-27 11:23:27 - Gunnar Sivertsen (NIFU)
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