

National Current Research Information Systems

Experiences with their Use for Monitoring, Evaluation, Funding, and Studies of Research in Scandinavia

Gunnar Sivertsen

Nordic Institute for Studies in Innovation, Research and Education, Oslo, Norway

NIFU

Outline

- CRIS systems in Scandinavia
 - An integrated national system: Norway
 - Integrating local systems: Denmark and Finland
 - Integrating all systems: Sweden?
 - Nordic collaboration
- Examples of the use of CRIS systems for four purposes
 - Monitoring
 - Evaluation
 - Funding
 - Studies of research
- Discussion: Advantages, limitations, challenges

Outline

■ CRIS systems in Scandinavia

- An integrated national system: Norway
- Integrating local systems: Denmark and Finland
- Integrating all systems: Sweden?
- Nordic collaboraton

■ Examples of the use of CRIS systems for four purposes

- Monitoring
- Evaluation
- Funding
- Studies of research

■ Discussion: Advantages, limitations, challenges

The CRIS can itself be nationally integrated – 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 at 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 is on the principle of open access for all. Cristin will also document, present, and make public the research 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 integration of indexed data.

One **shared national** Current Research Information System for 160 institutions in

- **The higher education sector**
- **The independent research institutes**
- **The hospitals**
- Publications and other outputs are listed only once
- Institutional and international collaboration can be traced in the data

WS

Information letter for Cristin (

Useful links

[Norwegian Scientific Index - N](#)

[to CRIS](#)

[Publication channels](#)

[Cristin seminar](#)

Contact information

Cristin secretariat:

[Email](#)

Postal address:

P.O. box 1059, Blindern

06 Oslo

Board

[Email](#)

Prof. Rice, UIT (chairman)

Prof. Omenaas, Haukeland Un

Prof. Singsaas, NTNU

Prof. Smeland, Oslo Universi

Prof. Fløisand, NIKU

Prof. Anne Sundnes, NIFU STEP

Prof. Gunn Haavardsholm, NFR

Prof. M. Henriksen, NSD

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Prof. Gunn Stangeby, NFR

Server:

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Principles behind a shared national CRIS

Cristin

- Current Research Information System In Norway

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- **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.

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Registration of research outputs and activities

Cristin

 [Norsk versjon](#)

Gunnar Sivertsen
NIFU

- Logoff
- Main page
- Research results/NVI
 - Register result
 - Import publications
 - Quick reference list of persons
 - Quick reference list of journals
 - My authname
 - Search in results
 - Help with results
 - Help with quick reference list
- Researchers
- Projects
- Research units
- Annual reporting
- About Cristin

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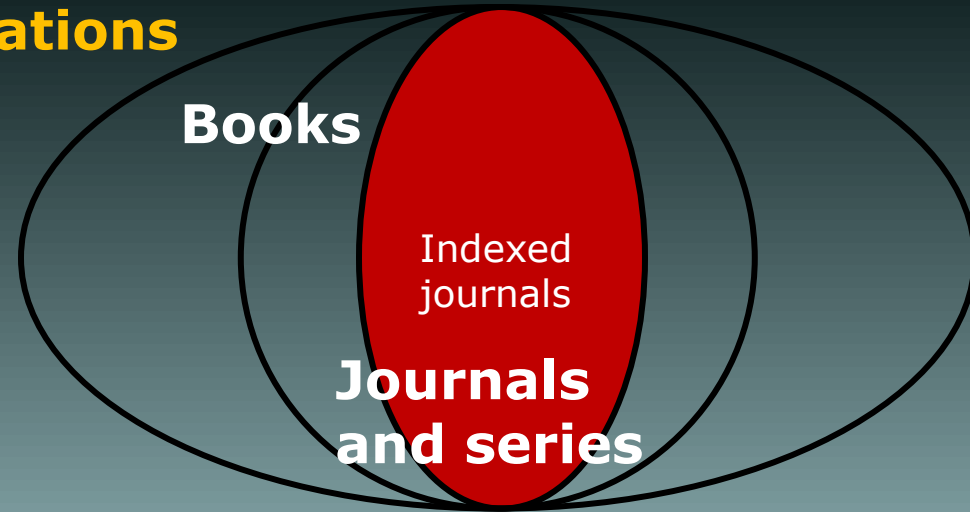
Search criteria:
Surname: Sivertsen *First name:* Gunnar *From:* 2017 *To:* 2017 *All publishing channels*

Showing results 1-1 of 1

1	
Category:	Conference lecture and academic presentation - Scientific 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:	National Current Research Information Systems. Experiences with the Use for Monitoring, Evaluation, Funding, and Studies of Research
Original language:	English
Event:	7.KSWD : Forschung. Daten. Infrastruktur.
Type of event:	Conference
Area of distribution:	International
Organisator:	Rat für Sozial- und Wirtschaftsdaten
City/town:	Berlin
Time:	08.02.17 - 09.02.17
Invited:	Yes
External peer review scheme:	No
Status:	Published/Presented.
Entry no.:	1447252
Created:	2017-02-06 10:11:21 - Gunnar Sivertsen (NIFU)
Edited:	2017-02-06 10:11:21 - Gunnar Sivertsen (NIFU)
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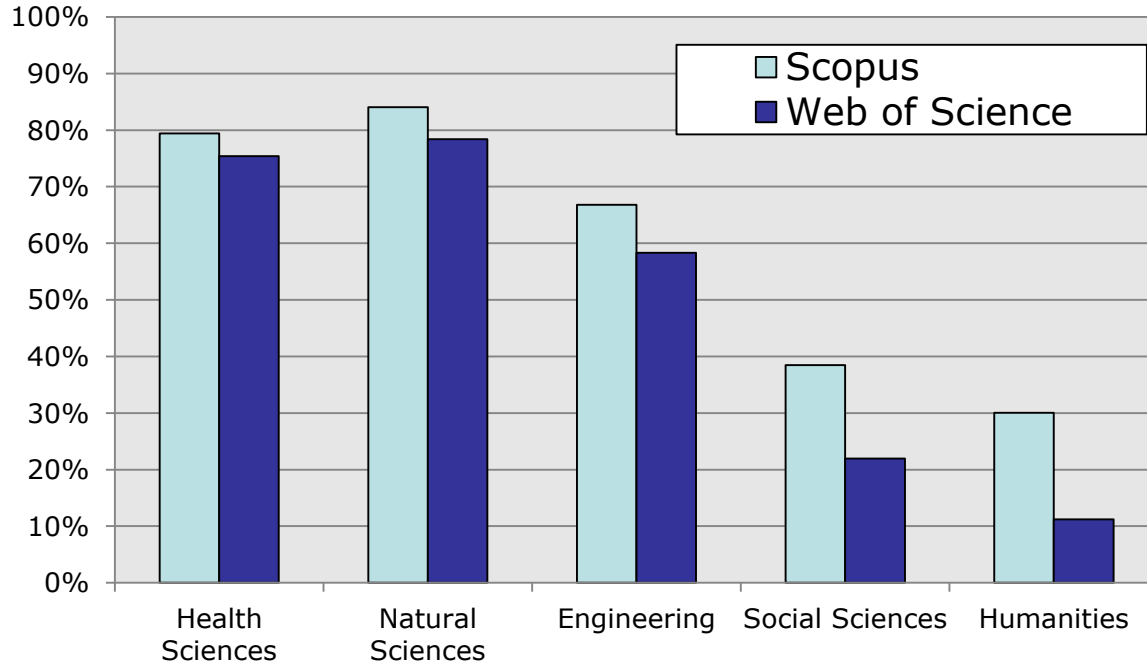
[Edit](#) [Delete](#) [Registrer as journal publication](#) [Register as part of book/report](#)

Coverage of scholarly publications



100 per cent?

Coverage of 70,500 scholarly publications from the higher education sector in Norway 2005-2012.



In order to register data in Cristin, you must be an academic or administrative employee.

- [Main page](#)
- [Research results/NVI](#)
- [Researchers](#)
- [Projects](#)
- [Research units](#)
- [Logon](#)
- [About Cristin](#)

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Search criteria:

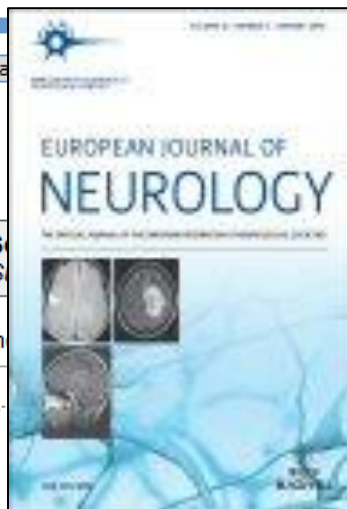
Surname: sivertsen *First name:* gunnar *From:* 2010 *To:* 2011 *Main category:* Journal publication *Main category:* Book *Main category:*

Showing results 1-4 of 4

1. **Gilhus, Nils Erik; Sivertsen, Gunnar.**
Publishing affects funding in neurology. *European Journal of Neurology* 2010 ;Volume 17.(1) p. 147-151
HAUKELAND NIFU UIB
2. **Aksnes, Dag Westreng; Rørstad, Kristoffer; Piro, Fredrik Niclas; Sivertsen, Gunnar.**
Are Female Researchers Less Cited? A Large-Scale Study of Norwegian Scientists. *Journal of The American Society For Information Science* 2010
NIFU
3. **Sivertsen, Gunnar.**
Kilden til Jeppe paa Bierget. Aarhus Universitetsforlag 2010 (ISBN 9788779346284) 294 p.
NIFU
4. **Sivertsen, Gunnar.**
Ludvig Holbergs essay om likestilling. I: *Sakprosa i skolen*. Fagbokforlaget 2010 ISBN 978-82-450-0921-7.
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- [Logon](#)
- [About Cristin](#)



full format

Imported from *Web of Science*

gunnar From: 2010 To: 2011 Main category: Journal publication Main category: Book Main category: Book

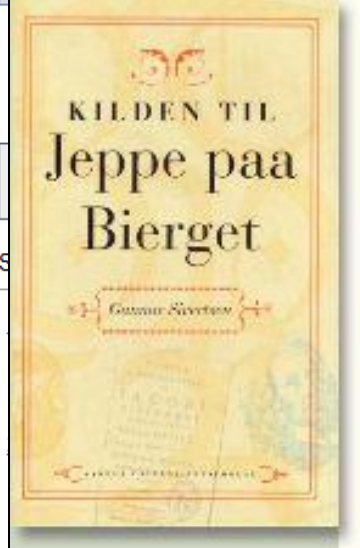
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3. **Sivertsen, Gunnar.**

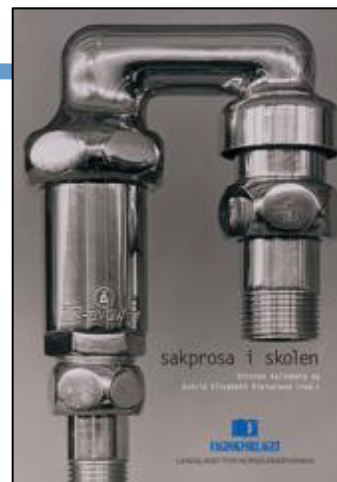
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Cristinv1.0.5, 23.08.2011 drift@cristin.no

Added references to a monograph and an article in an edited volume



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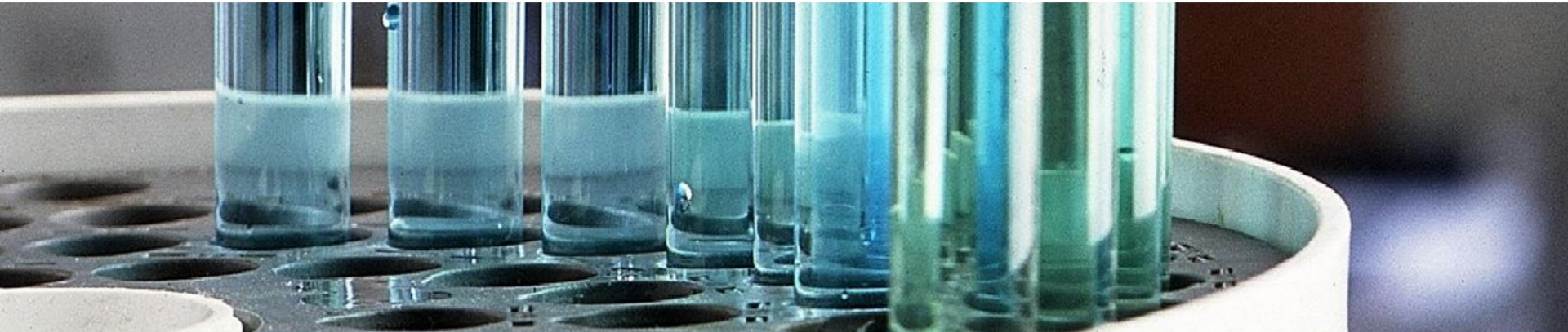
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Commercial CRIS-solutions for institutional purposes have become widespread



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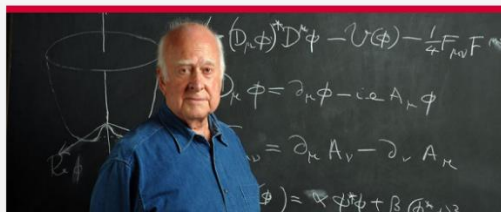
Contact us

What is PURE?

PURE is the University's Current Research Information System (CRIS). Information held in PURE relates to research-active staff and their projects and collates research activity information (mainly publications but also other types of output such as professional activities, impacts and press clippings). PURE allows for relationships and associations to be created between research inputs and outputs, thus providing a broad picture of research activity at the individual, research unit, School, College, and University levels.

In addition to providing many of the University's current research management and reporting needs, data from PURE is also used to populate the Edinburgh Research Explorer (<http://www.research.ed.ac.uk>) which provides a public view on the University's research activity. Units are also able to access data held in PURE to feed information into their own local web presence, such as publication lists and staff profiles.

PURE is also used to aid delivery of the University's submissions to external exercises such as the Research Excellence Framework (REF). Through the Research Explorer, PURE also acts as the University's Open Access repository.



National integration of data - the Danish 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.

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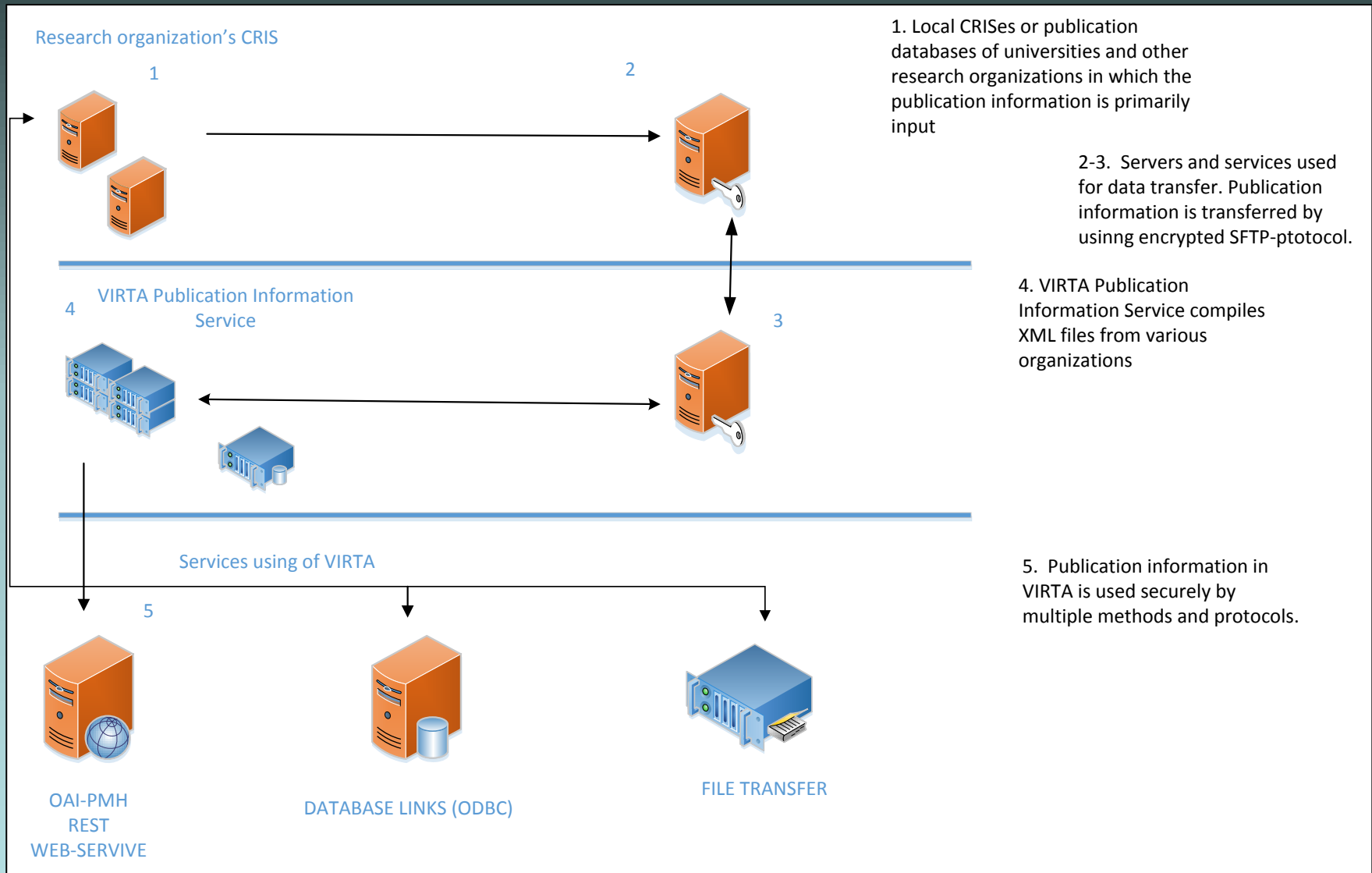


Support

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

[Kontakt BFI »](#)

National integration of data - the Finnish solution (VIRTA)



National integration of data - the Finnish solution (VIRTA)

Data sources	Local CRISes or publication databases of HEIs, university hospitals, state research institutes
Updates	Automatically and real time (statistics compiled once a year)
Data format	XML
Corrections, supplementations	Possible any time
Temporal coverage	All data from previous years to present can be transferred
Identification of authors	Name, ORCID
Identification of duplicates, faults and Publication Forum channels etc.	Identified automatically and real time

Outline

■ CRIS systems in Scandinavia

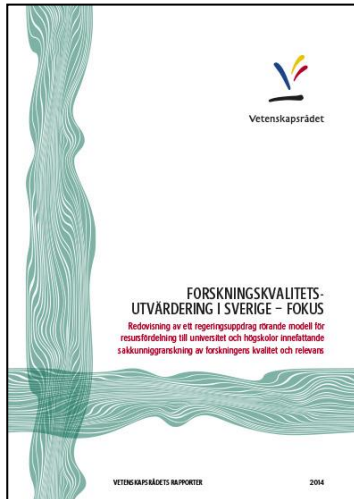
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■ Examples of the use of CRIS systems for four purposes

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■ Discussion: Advantages, limitations, challenges

The special case of Sweden



- 2014-2016: Proposal (rejected) for a new performance-based model based on peer review, and with
 - “a more indirect data collection method in which data is almost exclusively collected from existing sources”.
- Which calls for further development of “PRISMA” – a **fully integrated research information system** in Sweden

Welcome to Prisma

Prisma is the application system jointly used by Formas, Forte and the Swedish research Council. You can apply for research grants and manage your funded grants. As a reviewer, here is where you can perform all the information and review tasks.

[Create personal account](#)

Get started with Prisma
Here you find a quick guide that explains how to apply for research grants in Prisma.
[Quick guide](#)

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Do you have any questions about how to create your account, invite participating researchers or register your application?
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If you can not find answers to your questions in our online help, you are free to contact Prisma's support.
[Contact the support](#)

formas FORMAS
Kungsbron 21, Box 1206, 111 82 Stockholm.
Telephone: +46-8 775 40 00.

FORTE FORTE
Forskningsrådet för hälsa, arbetsliv och välfärd
Östra Järnvägsgränd 27, Box 894,
101 37 Stockholm. Telephone: +46-8 775 40 70.

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Nordic collaboration on system development, including online dynamic registers of scholarly publication channels



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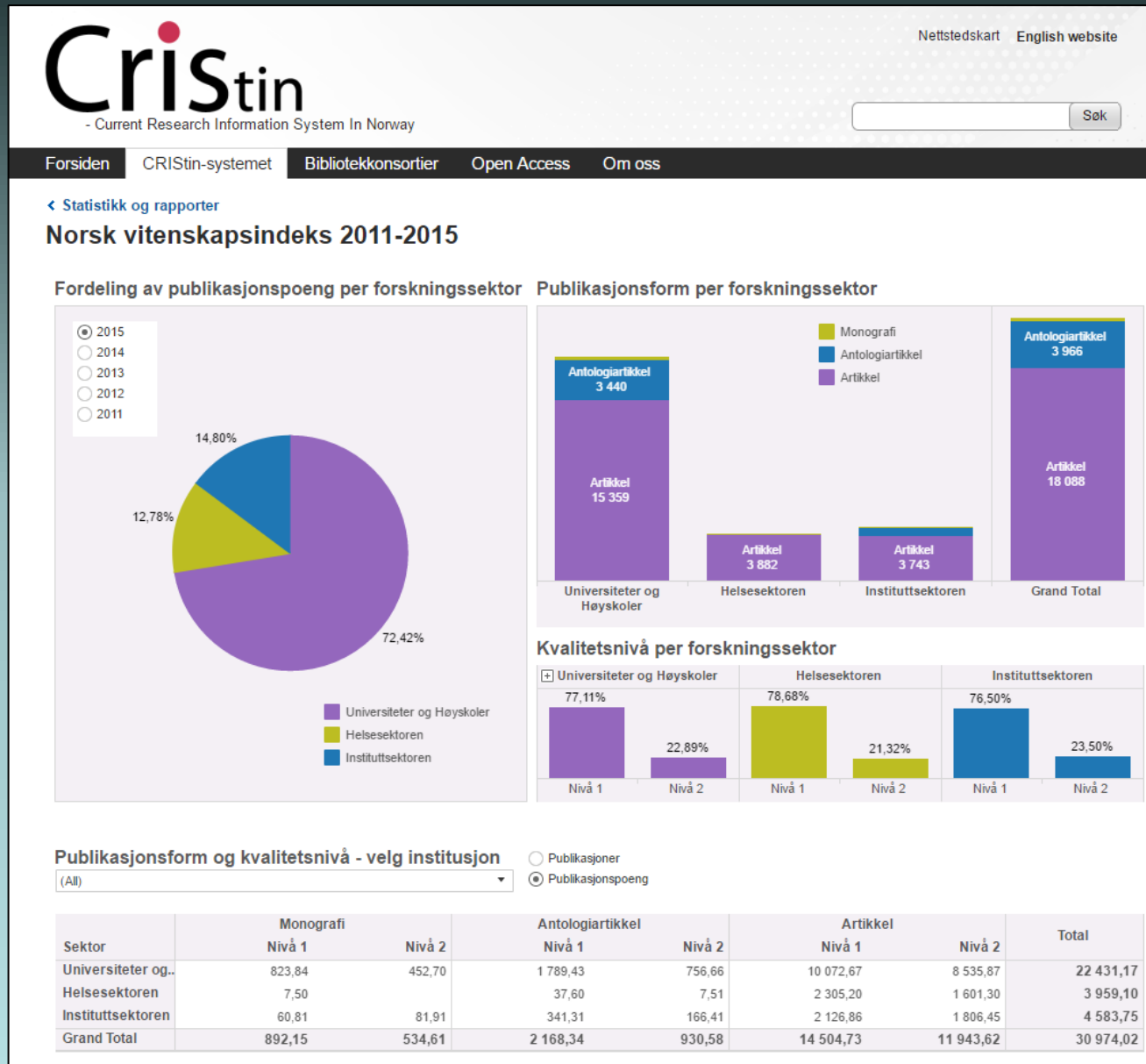
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Statistics since 2011



Possible to drill down to the institutional and departmental level

Vitenskapelig publisering

Rapport Dokumentasjon

Institusjonene rapporterer antall publikasjoner og forfattere til DBH. Denne rapporten kan vise enten *publikasjonspoeng* og *forfatterandeler*, eller *antall publikasjoner* for et gitt år.

Publikasjonspoeng er et vektet uttrykk for publiseringsaktivitet og nivå, og benyttes i finansieringsmodellen for universiteter og høyskoler. Ved å klikke på verdiene i denne kolonnen kan du vise beregningsgrunnlaget. Forfatterandeler blir summert opp på de ulike institusjonsnivåer. For en publikasjon blir hver enhet kreditert ut fra andelen av publikasjonens forfattere som er tilknyttet enheten.

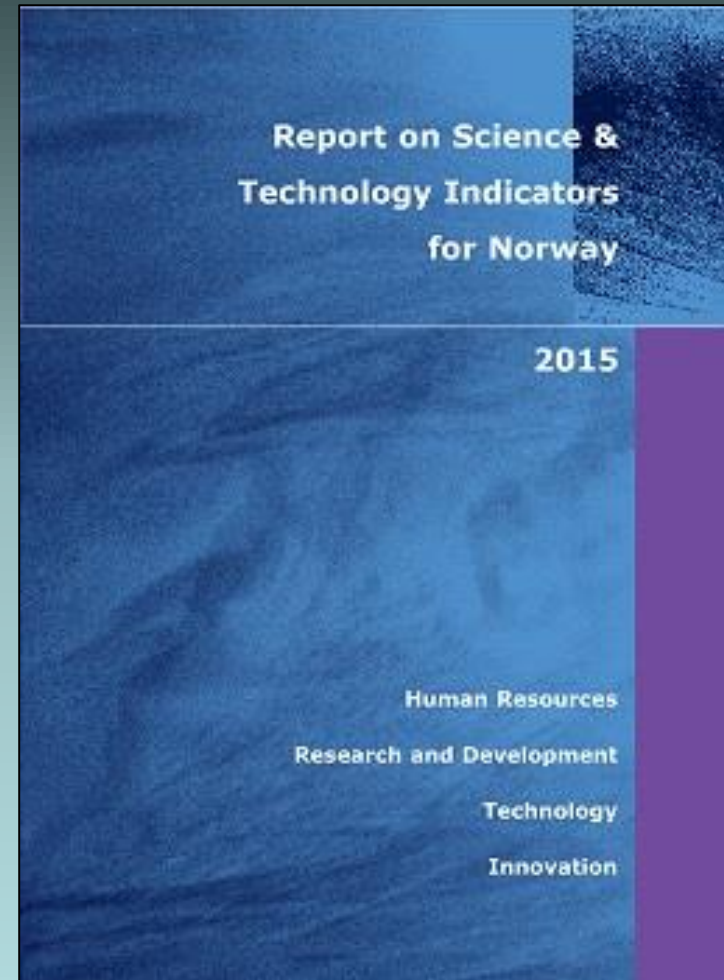
Årstall: 2015 ☒ Publikasjonspoeng og forfatterandeler ☐ Antall publikasjoner [Tilbakestill]

Publikasjonspoeng og forfatterandeler 2015

Merk: Fra og med 2015 benyttes ny beregningsmåte for publikasjonspoeng.

Enhet	Publikasjons- poeng	Poeng kvinner	Endring poeng	Andel poeng	Forfatter- andeler	Publiseringsnivå		Publikasjonsform		
						Nivå 1	Nivå 2	Periodika artikler	Antologi- artikler	Mono- grafier
Totalt:	21 971,9	7 358,2	43,8 %	100,0 %	11 632,8	78,8 %	21,2 %	74,1 %	24,2 %	1,7 %
Universiteter	17 704,7	5 678,1	47,9 %	80,6 %	8832,6	76,2 %	23,8 %	76,6 %	21,9 %	1,5 %
Norges miljø- og biovitenskapelige universitet	948,1	329,2	42,2 %	4,3 %	473,4	83,4 %	16,6 %	87,2 %	11,7 %	1,1 %
Norges teknisk- naturvitenskapelige universitet	4380,6	1154,3	44,7 %	19,9 %	2269,5	76,8 %	23,2 %	79,6 %	19,6 %	0,8 %
Universitetet i Agder	683,0	206,5	22,6 %	3,1 %	436,5	83,7 %	16,3 %	62,4 %	35,1 %	2,5 %
Universitetet i Bergen	3058,4	999,2	56,3 %	13,9 %	1413,5	74,7 %	25,3 %	80,6 %	17,8 %	1,6 %
Universitetet i Nordland	284,0	106,5	75,5 %	1,3 %	180,6	73,7 %	26,3 %	52,5 %	43,8 %	3,7 %
Universitetet i Oslo	5826,9	1928,5	51,1 %	26,5 %	2663,8	72,5 %	27,5 %	75,1 %	22,9 %	2,0 %
Universitetet i Stavanger	739,1	219,6	48,0 %	3,4 %	429,0	80,6 %	19,4 %	72,8 %	25,6 %	1,6 %
Universitetet i Tromsø - Norges arktiske universitet	1784,4	734,2	42,9 %	8,1 %	966,3	78,5 %	21,5 %	74,9 %	23,9 %	1,2 %
Statlige vitenskapelige høyskoler	606,5	149,3	68,9 %	2,8 %	331,7	69,8 %	30,2 %	77,4 %	20,8 %	1,8 %
Arkitektur- og designhøgskolen i Oslo	0,0	0,0	0,0 %	0,0 %	32,6	41,7 %	58,3 %	71,6 %	25,4 %	3,1 %
Høgskolen i Molde, Vitenskapelig høyskole i logistikk	98,0	32,2	94,5 %	0,4 %	62,4	93,1 %	6,9 %	75,1 %	24,9 %	0,0 %
Norges handelshøyskole	246,2	45,0	69,6 %	1,1 %	114,7	70,2 %	29,8 %	82,6 %	13,9 %	3,5 %
Norges idrettshøgskole	262,3	72,1	60,5 %	1,2 %	105,1	65,5 %	34,5 %	77,0 %	22,0 %	1,0 %
Norges musikkhøgskole	0,0	0,0	0,0 %	0,0 %	16,9	61,6 %	38,4 %	63,5 %	36,5 %	0,0 %
Statlige høyskoler	2 878,0	1 292,7	28,6 %	13,1 %	1968,8	90,4 %	9,6 %	64,5 %	33,6 %	1,9 %
Høgskolen i Bergen	246,5	116,5	59,2 %	1,1 %	139,5	89,3 %	10,7 %	66,3 %	31,7 %	2,0 %
Høgskolen i Buskerud og Vestfold	353,8	149,7	36,6 %	1,6 %	217,7	90,3 %	9,7 %	65,9 %	32,4 %	1,7 %
Høgskolen i Gjøvik	217,1	49,3	87,6 %	1,0 %	154,3	92,9 %	7,1 %	58,0 %	41,1 %	1,0 %
Høgskolen i Harstad	21,9	11,2	4,3 %	0,1 %	20,0	100,0 %	0,0 %	62,6 %	37,4 %	0,0 %
Høgskolen i Hedmark	180,1	88,0	24,1 %	0,8 %	125,3	91,8 %	8,2 %	55,5 %	42,5 %	2,0 %
Høgskolen i Lillehammer	115,3	23,2	26,4 %	0,5 %	80,4	90,6 %	9,4 %	64,9 %	31,5 %	3,6 %
Høgskolen i Narvik	59,9	11,6	-4,4 %	0,3 %	38,2	93,2 %	6,8 %	94,4 %	5,6 %	0,0 %
Høgskolen i Nesna	41,8	16,4	136,5 %	0,2 %	44,8	98,8 %	1,2 %	30,5 %	69,5 %	0,0 %

Used in official statistics



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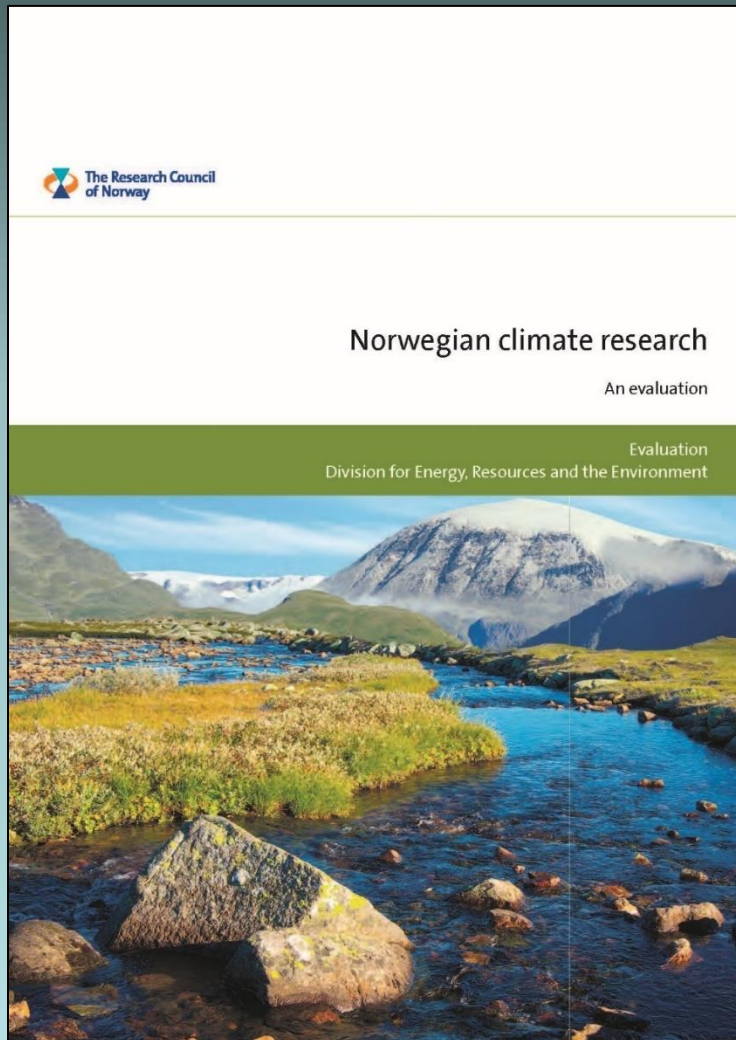
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Informing peer review panels in national research assessments



The Research Council of Norway

Search

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You are here: Home page > Policy and strategy > Evaluations > Subject-specific evaluations

Denne siden på norsk

POLICY AND STRATEGY

Strategy plans

Priority initiatives for 2018

The institute sector

Evaluations

Subject-specific evaluations

Institute evaluations

Evaluation of the Research Council's own activities

Evaluation of political reforms

Report on Science & Technology Indicators for Norway

Evaluation of humanities research in Norway

The Research Council are now conducting an evaluation of the entire field of the humanities. Research and teaching activities will be viewed in an overall context, and special focus will be placed on the societal impact of the research carried out.

The evaluation of humanities research in Norway started in autumn 2015 and is expected to be concluded in spring 2017. The evaluation will be conducted by international experts with extensive knowledge in the relevant subject fields.

The Research Council aims to evaluate all humanities research groups of a suitable size in universities, university colleges and research institutes.

According to national statistics, there are 3 100 persons employed in academic positions in the humanities in Norway. Together they comprise 1 300 R&D full-time equivalents (FTE). Norway invests roughly NOK 1.8 billion in humanities research annually.

Objective of subject-specific evaluations

The aim of the subject-specific evaluations is to provide a critical review of the Norwegian research system in an international perspective, as well as to provide specific recommendations on measures to encourage increased quality and efficiency of research.

These recommendations are intended to serve as a tool for the institutions themselves in their own strategic development efforts, for the Research Council in developing funding instruments and for the public authorities in developing policy.

Another aim of this evaluation is to identify areas in which Norway can play an internationally leading role. The participating institutions will be asked to specify research groups that are, or have the potential to be, at the international forefront.

Attachments

Evaluation of research within the Humanities in Norway 2015 (mandate) PDF - 126 KB





Contact


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Interplay between research and teaching activities

Research in the humanities is an important basis for providing high-quality

Outline

■ CRIS systems in Scandinavia

- An integrated national system: Norway
- Integrating local systems: Denmark and Finland
- Integrating all systems: Sweden?
- Nordic collaboration

■ Examples of the use of CRIS systems for four purposes

- Monitoring
- Evaluation
- Funding
- Studies of research

■ Discussion: Advantages, limitations, challenges

"The dual funding system"

(Public sources)

Government

Research Councils

Projects and Programmes
Competition

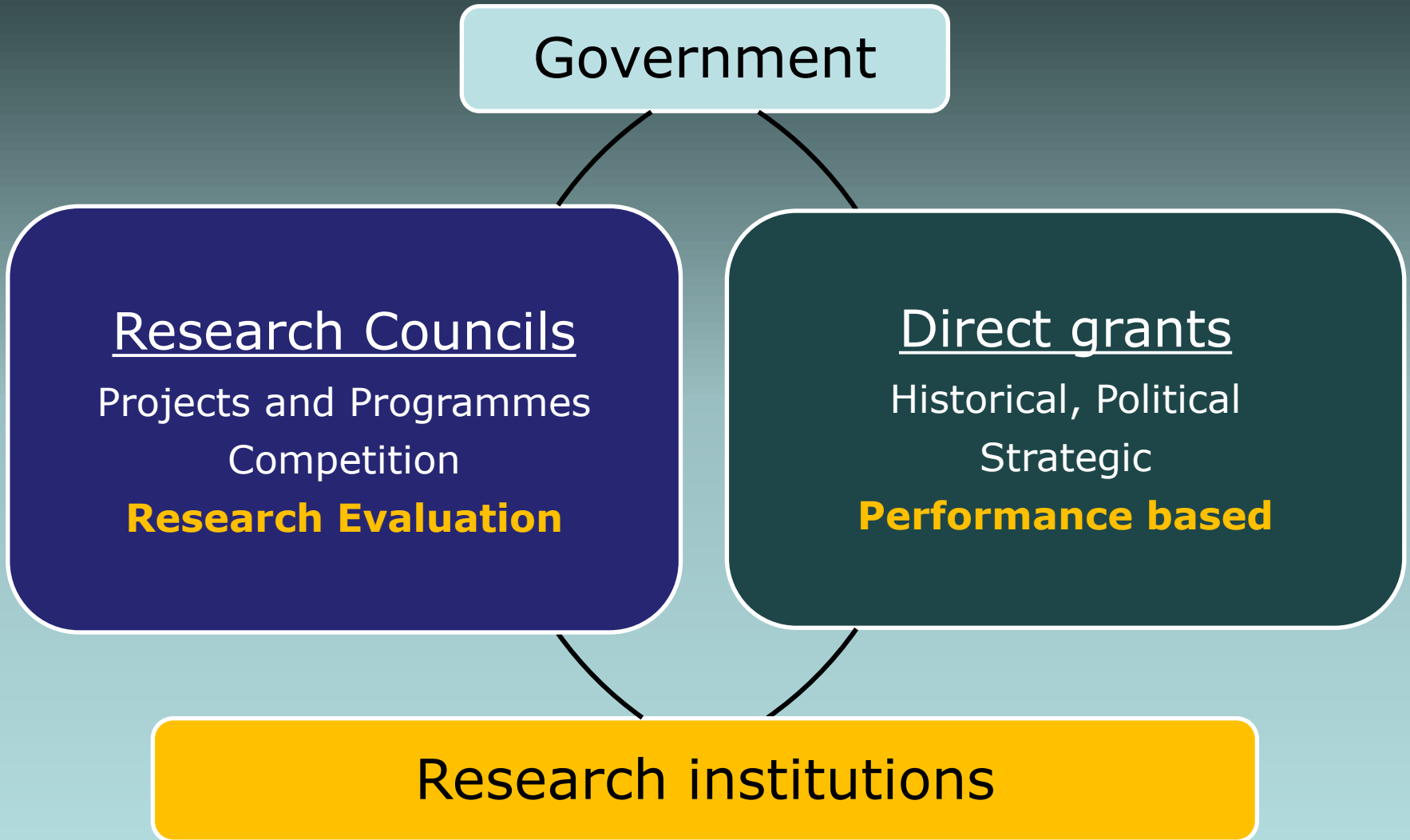
Research Evaluation

Direct grants

Historical, Political
Strategic

Performance based

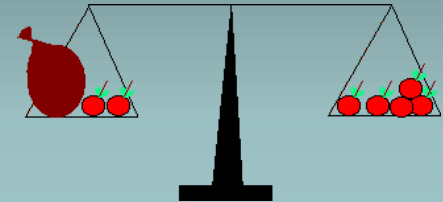
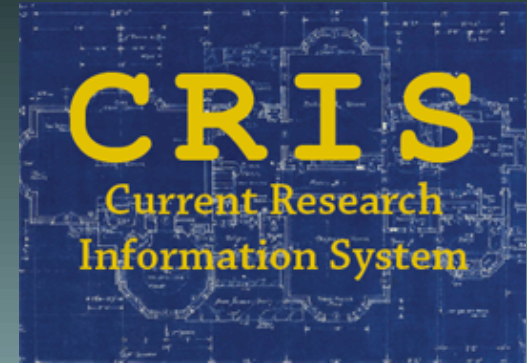
Research institutions



«The Norwegian model» (Denmark, Finland, Norway)

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.



Direct grants

Historical, Political

Strategic

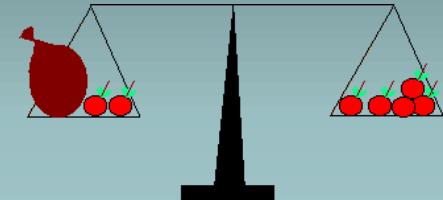
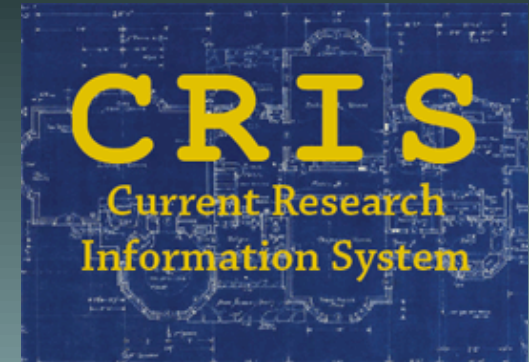
**Performance
based**

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Necessary for
getting complete,
quality-assured data



Direct grants

Historical, Political

Strategic

**Performance
based**

A bibliometric indicator with a balanced representation of all fields

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Abstract

As research in progress, we present two studies aimed at redesigning the bibliometric indicator of the “Norwegian Model” as response to an evaluation in 2013. The indicator is supposed to give a balanced representation of all fields, also those that are constructed as “peripheral” in traditional bibliometrics because of limited coverage in databases. The first study deals with balancing between different field-dependent co-authorship practices in the indicator, the other with the possible addition of a measurement of citation impact that could be applicable across all fields.

Keywords

Bibliometric indicators; productivity; citation impact; co-authorship; fractionalization; publication patterns; evaluation; the Norwegian model.

Submission type: Research in progress paper.

Relevant track: Data infrastructure for research metrics.

Introduction

The so-called “Norwegian Model” (Schneider 2009; Sivertsen 2010; Ahlgren et al. 2012), which so far has been adopted at the national level by Denmark, Finland and Norway, partly

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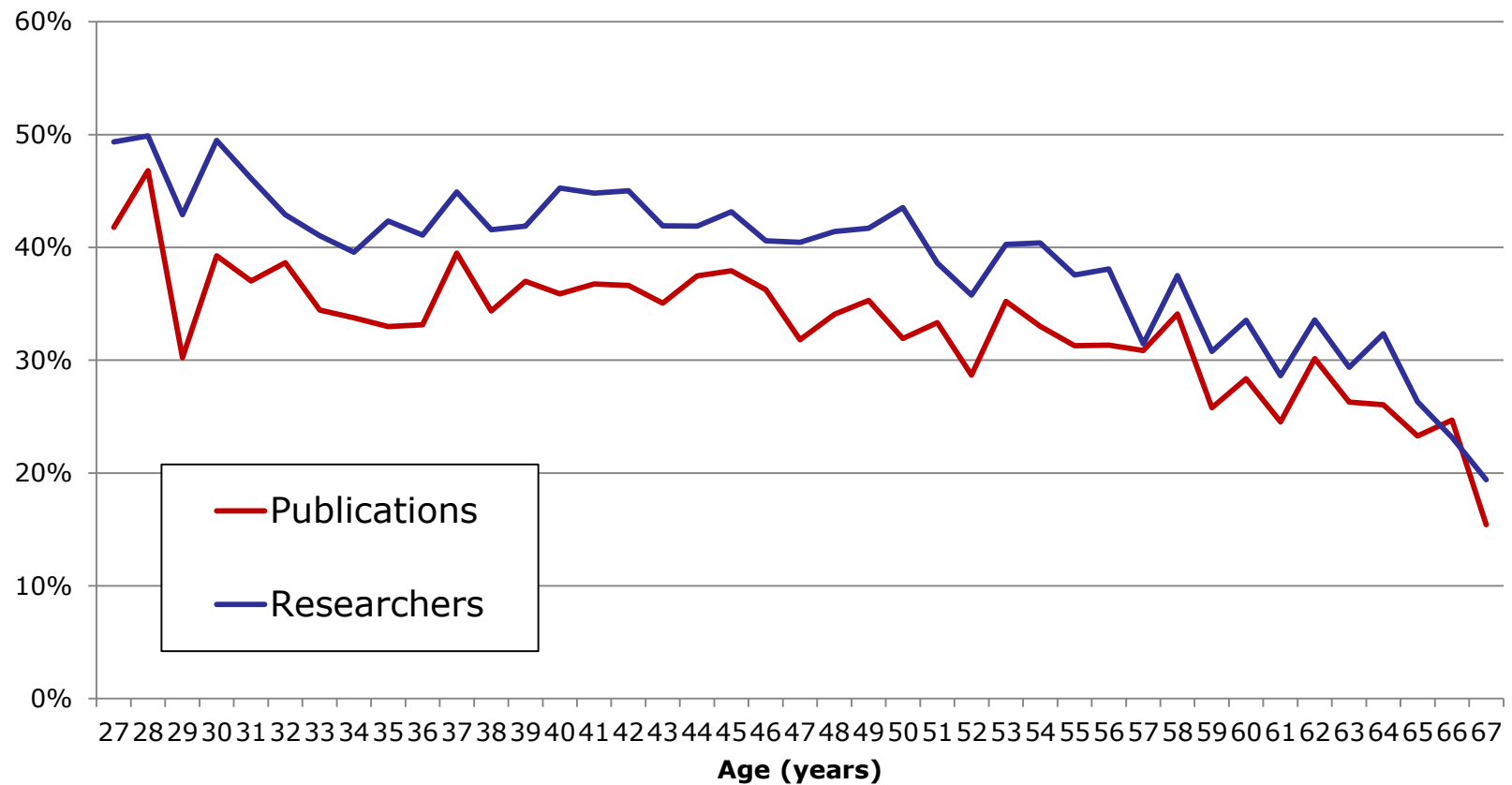
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Based on 13,630 publications from 17,314 researchers in 2011

Figure 1. Age and women's share of Norway's researchers and their total scientific publication output in 2011



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Advantages, limitations, challenges

■ Advantages

- Completeness, a balanced representation of all fields
- Publicly available shared information
- Multiple use of data for several purposes on different levels in the research system

■ Limitations

- International benchmarking not possible so far

■ Challenges

- Costly if not running for multiple purposes
- Responsible use and interpretation of data
- Commercialization of tools – and of data?
- Making performing and funding organizations share and use the same data