More than a CRIS – how CRIStin is building a national infrastructure for Open Access

Repository Fringe  August 1 2016

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Agenda

- Research in Norway
- CRIStin
- CRIStin and OA
- New national guidelines for Open Access
- New CRIStin 2.0
Research in Norway

- Population 5.2 million, of which 32% has a higher level of education (4 or more years after secondary education)
- 8 universities
- 39 colleges
- 56 research institutions
- 38 research hospitals
Research funding

- One major research funder – the Norwegian Research Council – providing grants of about £8 billion per year, divided in different programs.
- EU is an important funder though we are not, and never have been, members of the union.
Publication Indicator

- System for measuring publication activity
- Basis for allocating research funding
- Distributes approx. 2 per cent of the total funds
- Register of approved channels, either on level 1 (adhering to scientific principles) or level 2 (the top 20% articles published in journals with more prestige)
A true national CRIS April 2012

Data collected in the national CRIS
Distributed to the institutions for local use

- Universities & university colleges
- Specialised health care
- Research institutes

- 1.1.2011: 12 inst
- 1.4.2011: ~50 inst
- 1.4.2012: ~160 inst
CRIS\textit{tin}'s three main tasks

- CRIS system
- Licence Agreements
- Open Access

Established January 2011

Owned by the Ministry of Education and Research in cooperation with the Ministry of Health and Care Services

Yearly budget $\approx 3$ MEUR

17 employees + developers
E-licence

- Negotiate and administer 35 e-licence packages on behalf of 175 institutions
- In the process of buying a system for consortia management as well as JUSP
- Focus on reusing more data from the CRIS
CRIS database

- Contains some 1.2 million records
  - Scientific publications
  - Book chapters
  - Reports
  - Lectures
  - Media contributions

in addition around 11000 projects
Scientific publications

Bibliographic databases (50%)

Own registration

Co-author’s registration

CRIS tin Manual control by author institutions

Publication reports delivered to Ministries
Reuse of CRISTin data

- Researchers can generate publications lists to be used in application for grants from the NRC
- Institutions can reuse data from the CRIS via web services
- CRIS data integrated with ethical committees for advance approval for medical research projects
- Norwegian Research Council use data to follow-up projects
- Authorities use data for monitoring Open Access
- Use of Tableau software will increase statistics usage
Benefits

- One place to register information – Avoids duplication of work
- One national centre of knowledge – Everyone knows who to contact
- Synergies as a result of daily contact between the three teams
- One system to integrate with => now doing things that were impossible with 160 individual institutions
- Lots of data about lots of connections
Old CRIS tin vs CRIS tin 2.0

- Historically a reporting tool
- In need of a total makeover
- New version phased in gradually

- An information system on Norwegian research
- Focus on integration
- From CrisIN to CrisOUT
Main goal: Integration engine

- Institution
- Researcher
- Project
- Publication
- Journal
- Dataset
Main goal: Integration engine
What about Open Access?

- NORA – Norwegian Open Research Archive
- Some institutions run their own repositories, some 70 institutions participate in the BIBSYS Brage repository service
- 21 institutions have Gold OA funds
- Norwegian Research Council’s program STIM-OA will cover up to 50% on Gold OA APCs until 2019
NORA

Alt i norske vitenarkiv i en tjeneste (NORA)

Søk

Sorter etter:
Relevanse
Dato

Innføring av operasjonsroboter i spesialisthelsetjenesten. Kunnskapsbasert helsetjeneste - eller "toys for boys"? (2014)
Høymark, Siv Cathrine - Master thesis

Sekundærvernsaker etter rus i fosterlivet. Litteraturstudie og eliteintervju. (2014)
Hungsnes, Inger Helene - Master thesis

Omklassifisering i earn out-saker (2014)
Torsnes, Henrik Magnus - Master thesis

Satans sorratiske sannhetssvitne (2014)
Nore, Eirik Mikal - Master thesis

Machiellis politiske poesi- En idéhistorisk analyse av Niccolò Machiellis diktserie "Capitoli" (Di Fortuna, Dell'Ambizione, Dell'Ingratitudine & Dell'Ocassione) (2014)
Wilhelmsen, Ranveig Roaas - Master thesis

Language Choice Insight into Code-switching on Facebook by Bangladeshi Users (2014)
Rahman, Nasreen Sultana - Master thesis

Mobil App med helseopplysninger – en mulighetsstudie innenfor det norske lærverket (2014)
Andersen, Knut Henrik - Master thesis
Flow of data around the CRIS (today)

Bibliographical records
(Multiple sources: SCOPUS etc.)
Flow of data around the CRIS (next step)

Bibliographical records
(Multiple sources: SCOPUS etc.)
Potential for Green Open Access

How can we use the bibliographic records in the CRIS to boost Open Access?

40% of articles registered in the CRIS could have been self-archived in a repository but is not.
Check for candidates

Green Open Access articles:

• Check each record in the CRIS against SHERPA/ROMEO
• If a positive hit, send record to a separate list
• Repository manager receives list and contacts author for uploading
• Repository manager has to do the final clearance
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<th>Endret</th>
<th>Postnr</th>
<th>Forfatter/Forlaget</th>
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National guidelines for Open Access

1. Researchers should publish their research Gold OA
2. If not Gold OA, researchers must make accepted version available in a repository (Green OA) with maximum embargo periods of 6/12 months
3. All institutions shall ensure that research articles are deposited in a repository. Only articles thus deposited may be candidates in the funding system
National guidelines contd.

4. E-licence agreements shall include measures that allow open access, are transparent with regard to terms and conditions and ensure that the transition is budget neutral.

5. Publicly funded institutions to contribute to funding of Gold OA.

6. All institutions shall establish or revise their own guidelines in line with the national.

7. Ensure that the necessary infrastructure is in place.
Recommendations

- Recommends a national repository
- Improved functionality for depositing in a repository
- The working group recommends that functionality is added to CRIStin that automatically deposits all Gold OA articles.
- Strengthening the cooperation around agreements with international publishers

Report: [http://www.cristin.no/english/open-access-eng/national-guidelines-for-open-access-to-research-re/national-guidelines-for-open-access-to-research-results.pdf](http://www.cristin.no/english/open-access-eng/national-guidelines-for-open-access-to-research-re/national-guidelines-for-open-access-to-research-results.pdf)
Note:

- Mandatory deposit – a first step to ensure later availability to accepted versions in repositories.
- A national repository – separate instances with institutional profiling, but one database. No more messy metadata, no more duplications.
- CRIS tin to negotiate hybrid OA through national deals.
- Better statistics and indicators. Looking at European initiatives, and also talking to Denmark and Sweden regarding indicators.
CRIStin 2.0 and Open Access

• A national CRIS
• A national NORA (harvester for all Norwegian repositories)
• An organization with responsibility for both
CRIStin 2.0 and Open Access

Functionality in the CRIS-system

- Uploading full text publications + transfer to (multiple) institutional repositories (or a national repository)
- Harvesting OA-publications from institutional repositories into NORA
- Integration with DOAJ and Sherpa/Romeo
- Reports to the institutions on Open Access
  - The Green potential (around 50% of all journal articles)
- Reports to funders on Open Access (per project)
CRIS tin 2.0 and Open Access

Planned functionality in the CRIS-system

Full synchronization between CRIS and NORA (C2.0)
- Statistics, indicators (ref EU project OpenAIRE2020)
  - Reports to the ministry on Open Access
  - (More) Reports to funders on Open Access
- Gold OA articles transferred automatically
- Information on «openness» of journals in the CRIS (DOAJ, Sherpa/Romeo) (C2.0)
- More reports to the institutions on OA (C2.0)
  - Quality of metadata
  - Missing metadata
Summary

• A national CRIS, a national harvester (NORA), a national consortium negotiating e-licences and one centralized organization to manage it all

• A new mandate to deposit all research output. A new national repository to contain it all. An integrated CRIS/NORA to ensure flow of publications and metadata

• A showcase for Norwegian research output widely disseminated

• Reuse of data to the benefit of all

• Good statistics and indicators on the growth of Open Access
Questions?

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