

Danish National
RESEARCH DATABASE

OPEN ACCESS INDICATOR



Ministry of Higher
Education and
Science

The Danish Open Access Indicator

PASTEUR4OA Final Conference: Green Light for Open Access

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 @melbaek



Deff Danmarks Elektroniske
Fag- og Forskningsbibliotek

Launch of the Danish Open Access Indicator

- The Danish Open Access Indicator was launched on the 9. March 2016 by the Ministry of Higher Education and Science



Ministry of Higher
Education and
Science

The screenshot shows the website for the Danish Open Access Indicator. At the top, there is a header with the Ministry of Higher Education and Science logo, a language selector (English / Dansk), and a search bar. Below the header is a breadcrumb trail: Home > Research and innovation > Collaboration between research and innovation > Open Access > Publications > Open Access Indicator. The main content area is titled "The Danish Open Access Indicator" and contains a description of the indicator, a list of publications, and contact information. The "Publications" section lists: Vision and targets, Denmark's National Strategy for Open Access, The National Steering Committee, Open Access policy in Councils and foundations, and the Open Access Indicator. The "Kontakt" section lists Hanne-Louise Kirkegaard (Special Adviser) and Jonas Bak (Head of Section) with their phone numbers and email addresses. Social media icons for Print, Read aloud, Facebook, LinkedIn, Twitter, and Send are also present.

Ministry of Higher Education and Science

HOVEDMENU English / Dansk SEARCH SITE

Home > Research and innovation > Collaboration between research and innovation > Open Access > Publications > Open Access Indicator

Open Access

- Publications
 - Vision and targets
 - Denmark's National Strategy for Open Access
 - The National Steering Committee
 - Open Access policy in Councils and foundations
 - Open Access Indicator

The Danish Open Access Indicator

The Danish Open Access Indicator estimates the amount of scientific publications produced at Danish universities which has been published as Open Access and which is freely available on the Internet.

The Open Access indicator monitors how the Danish universities fulfil the targets of the National Strategy for Open Access.

Each year, the Indicator collects data about the Danish production of scientific publications and divides them into three categories:

1. Realised Open Access – Referring to publications that are freely accessible online, without any requirements for payment or other forms of barriers.
2. Unused Open Access potential – Referring to publications that are *not* freely accessible online, but which have been published in journals which allow Green Open Access with an embargo period of up to one year.
3. Unclear Open Access potential – Referring to publications that are *not* freely accessible online and which have been published in journals with an undetermined Open Access policy.

Print
Read aloud
Facebook
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Kontakt

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Danish National Strategy on Open Access

Announced on European Science Open Forum (ESOF) in Copenhagen 24th of June 2014.

By (former) Minister for Higher Education and Science Sofie Carsten Nielsen



Photo: NordForsk/Terje Heiestad

Denmark's Open Access goal

2017

2022

80%

Published in 2016

100%

Published in 2021

To peer review scientific articles

The strategy: GREEN Open Access



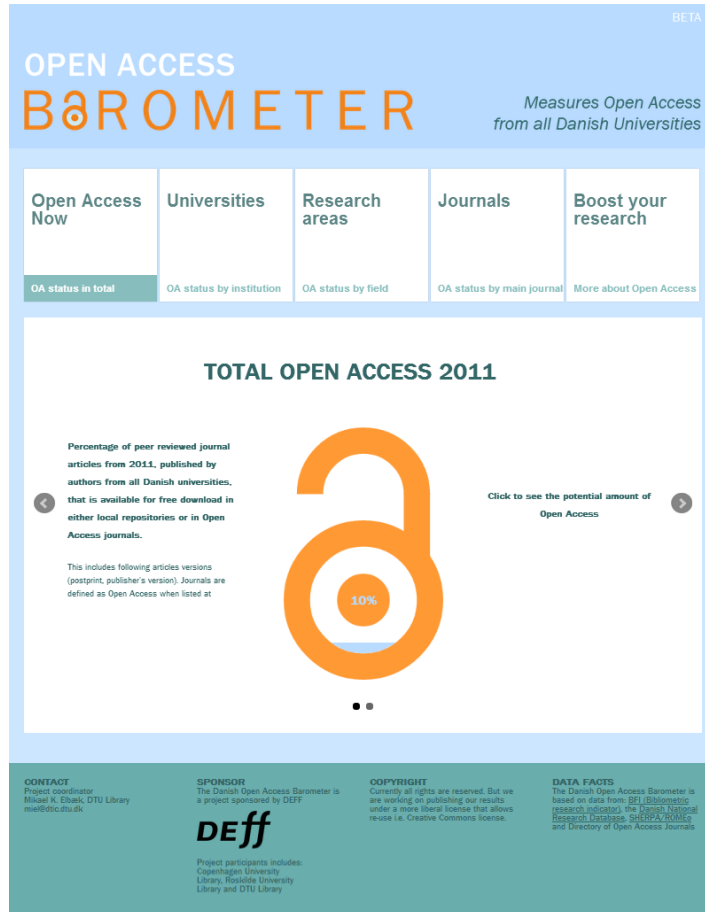
GREEN Open Access



Zdeněk Chalupský

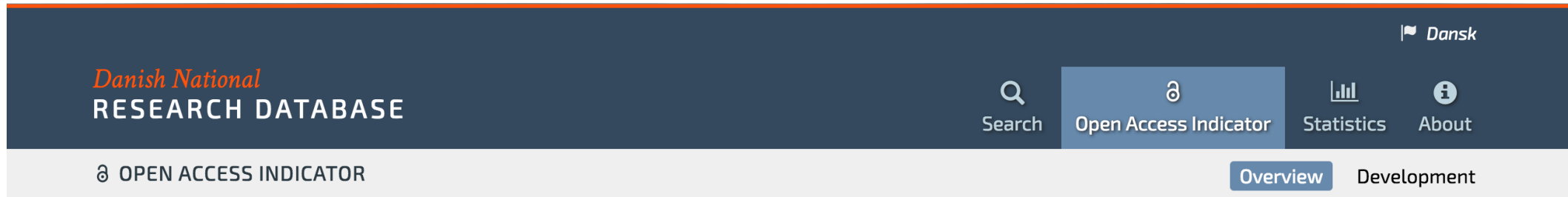
- No additional cost i.e. no hybrid open access
- Negotiation with publishers i.e. National Licenses through DEFF.dk
- Establishment of an OA-publishing service for Danish Journals
- Establishment of a national Open Access indicator

Open Access Barometer pilot project



- DEFF funded project 2012 – 2014
- Based on reuse of metadata from i.e. CRIS, DOAJ.org, SHERPA/ROMEO
- Twitter: #oabarometer
- Reports: <http://projekter.kulturstyrelsen.dk/projekt/dansk-open-access-barometer>

The development of the Open Access indicator



- Working group established by the Ministry of Higher Education and Science
- With the task to specify the development of an Open Access indicator
- In relation to the National Danish Research Database.
- An indicator that can monitor the implementation of the national Open Access Strategy
- First (pilot) result presented in March 2016

Definition of publication types to be measured

- Should conference contributions in proceedings or book series (anthologies) be included
- Final definition:
- *"Scientific articles and conference contributions in journals and proceedings with ISSN"*.
- *Close to the UK REF definition*
 - post-2014 REF "The requirement applies only to journal articles and conference proceedings with an International Standard Serial Number" :
<http://www.hefce.ac.uk/pubs/year/2014/201407/>

Selected (0) History

Publication Statistics

BY INSTITUTION

University of Copenhagen	262,674
Aarhus University	261,756
Technical University of Denmark	156,379
Aalborg University	112,683
University of Southern Denmark	93,822
Capital Region of Denmark	44,372
Roskilde University	33,782
Copenhagen Business School	31,561
Research Institutions in Architecture, Design and Conservation	6,702
Ministry of Culture	4,515
IT University of Copenhagen	2,800
Royal Danish Defence College	928

[More Statistics](#)

Open Access Indicator

NATIONAL

Total	18%
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BY UNIVERSITY

Technical University of Denmark	31%
Roskilde University	29%
Aalborg University	19%
IT University	18%
Copenhagen University	17%
University of Southern Denmark	15%
Aarhus University	13%
Copenhagen Business School	4%

[More Information](#)

Nearly 1 million research publications collected from the research databases of 12 Danish universities and research institutions.

New (March 2016): 2014 Statistics for Open Access implemented. Approx. 130.000 duplicates no longer visible

Open Access Indicator — Statistics for 2014

Open Access Potential

Realized, Unused and Unclear

Indicator Year

2014

View

Open Access Potential:

● Realized ● Unused ● Unclear

Description: [Overview](#); [Technical](#); [At the Danish Agency for Science, Technology and Innovation](#)

NATIONAL



BY MAIN RESEARCH AREA



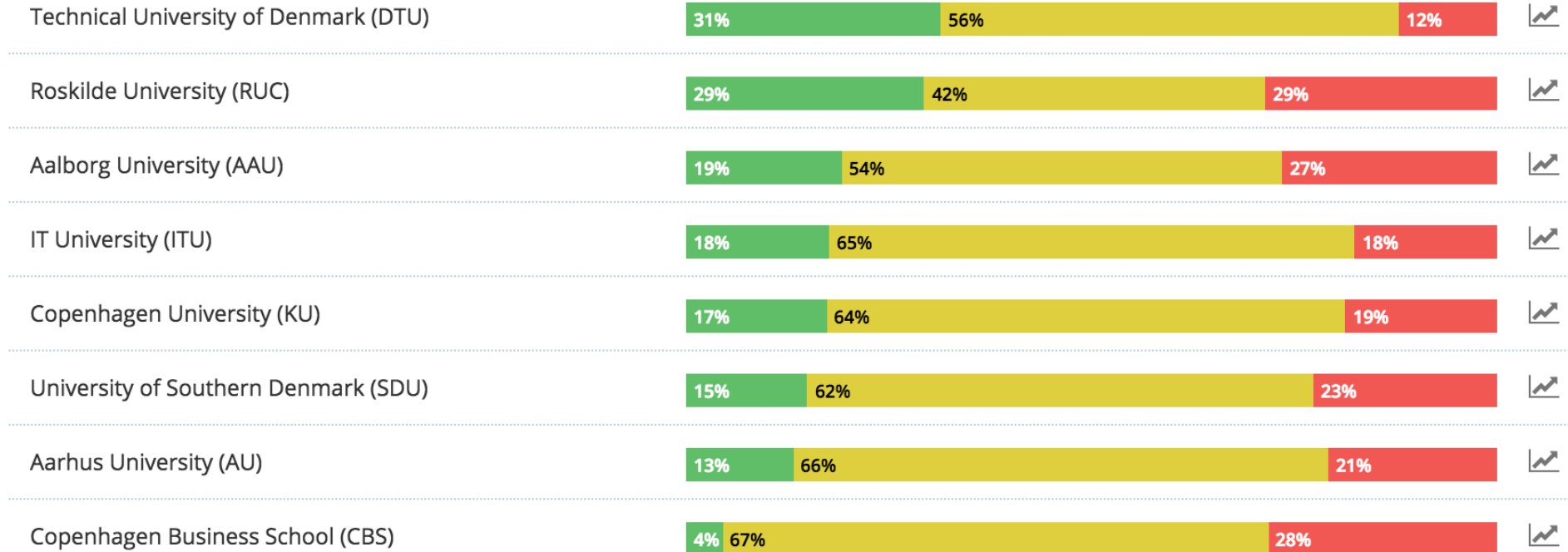
BY UNIVERSITY



Open Access Potential:

● Realized ● Unused ● Unclear

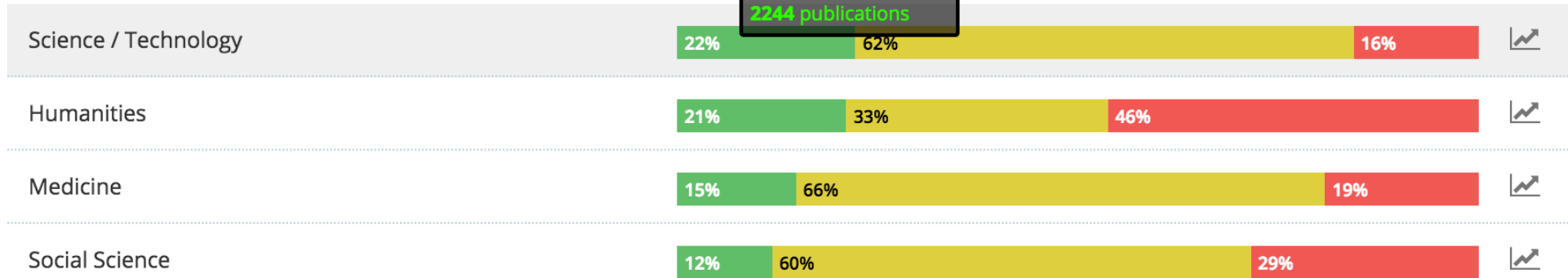
BY UNIVERSITY



Open Access Potential:

● Realized ● Unused ● Unclear

BY MAIN RESEARCH AREA



Open Access Indicator — Development for: Total

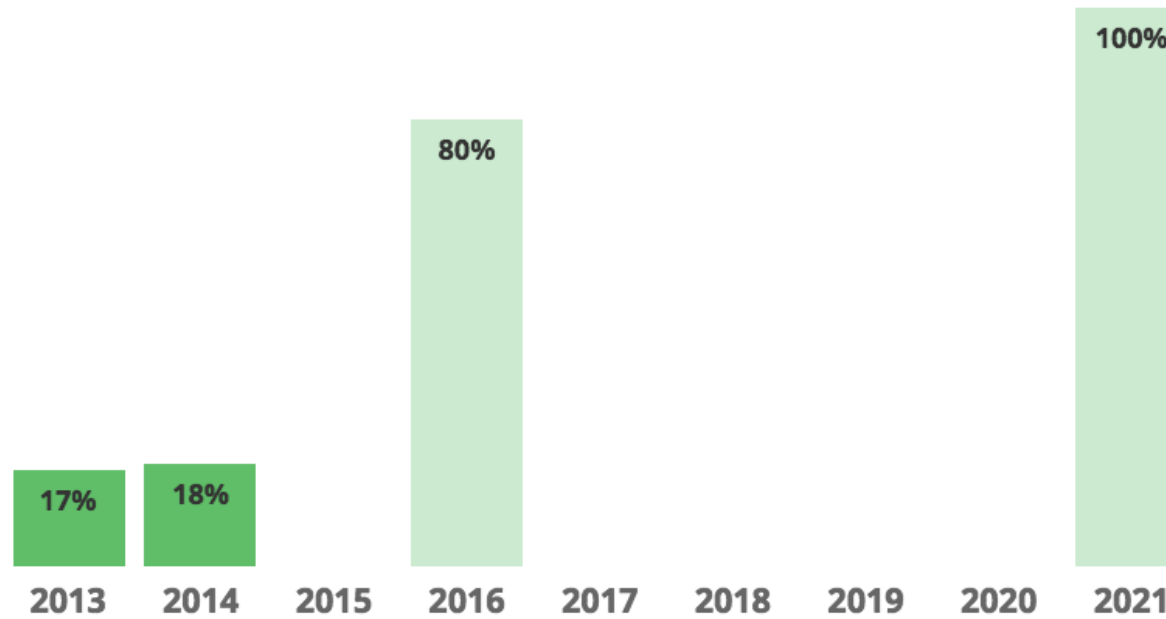
Segment

Total

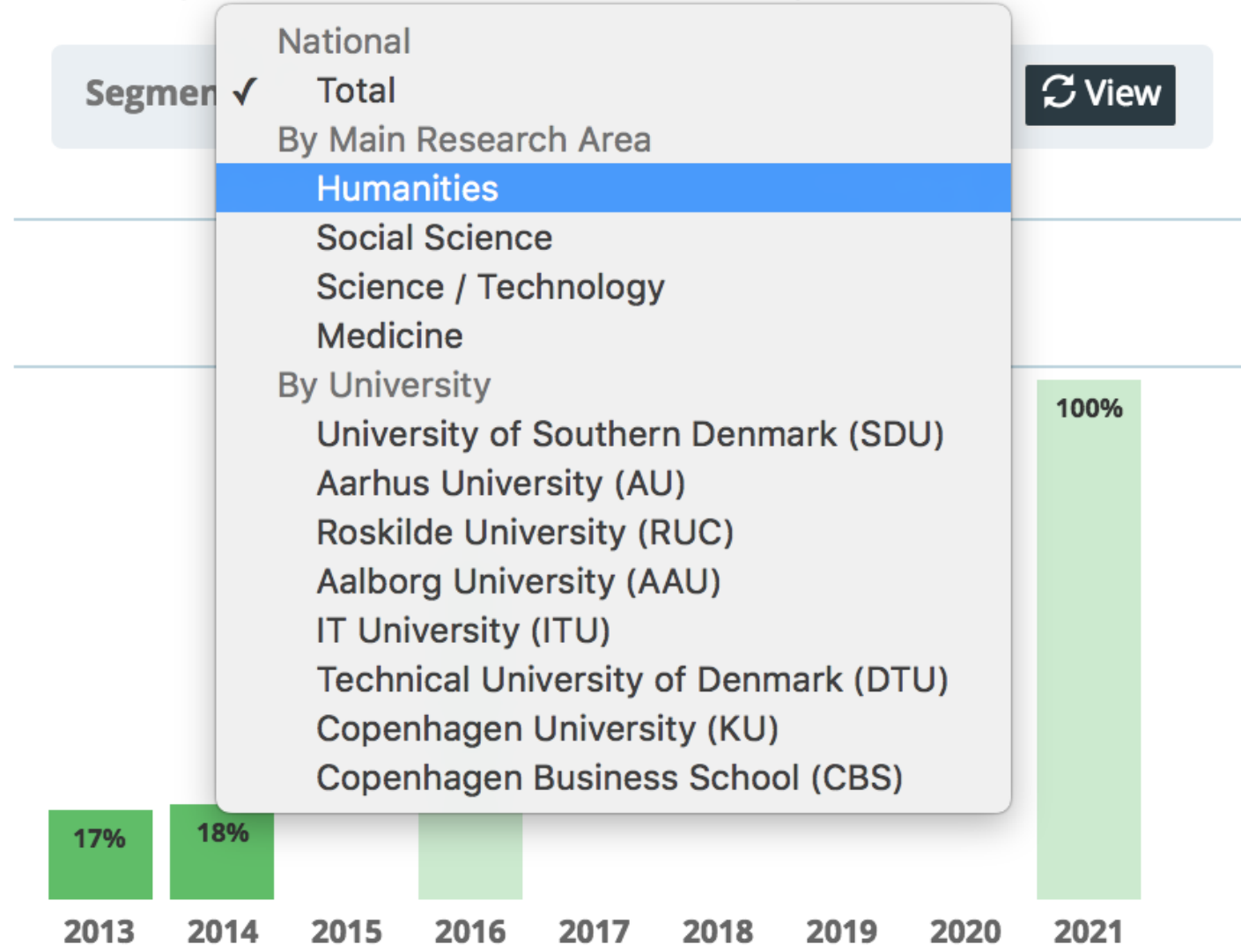
 View

Realized Open Access Potential:

● Actual ● Projected (c.f. National Strategy)



Open Access Indicator — Development for: Total



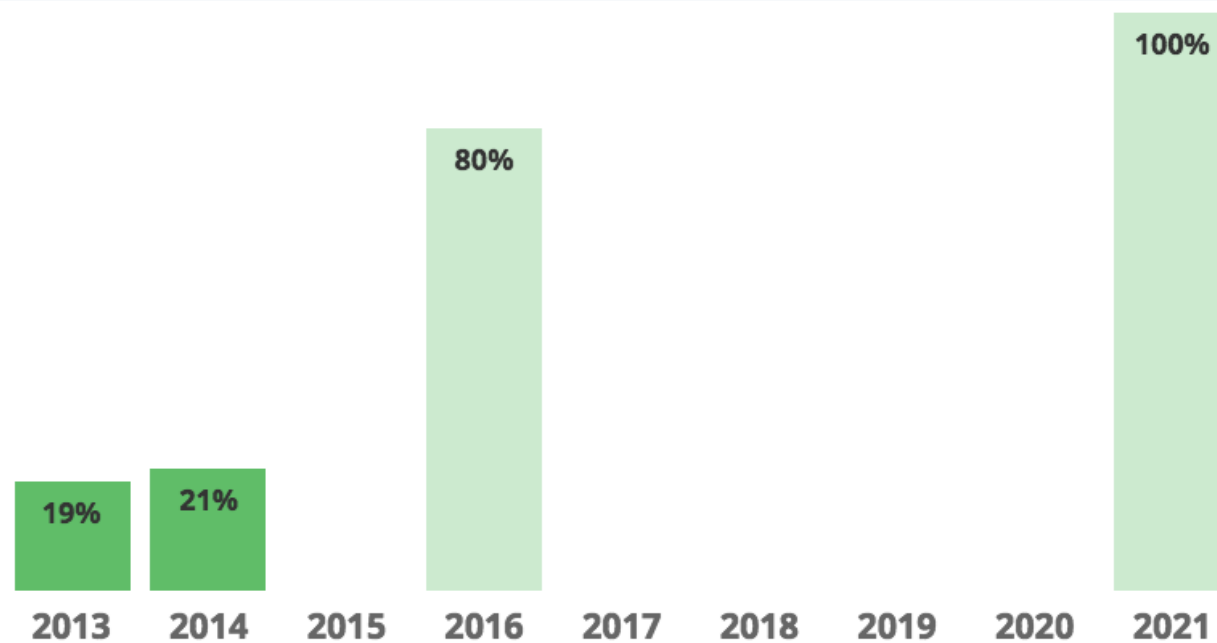
Open Access Indicator — Development for: Humanities

Segment Humanities

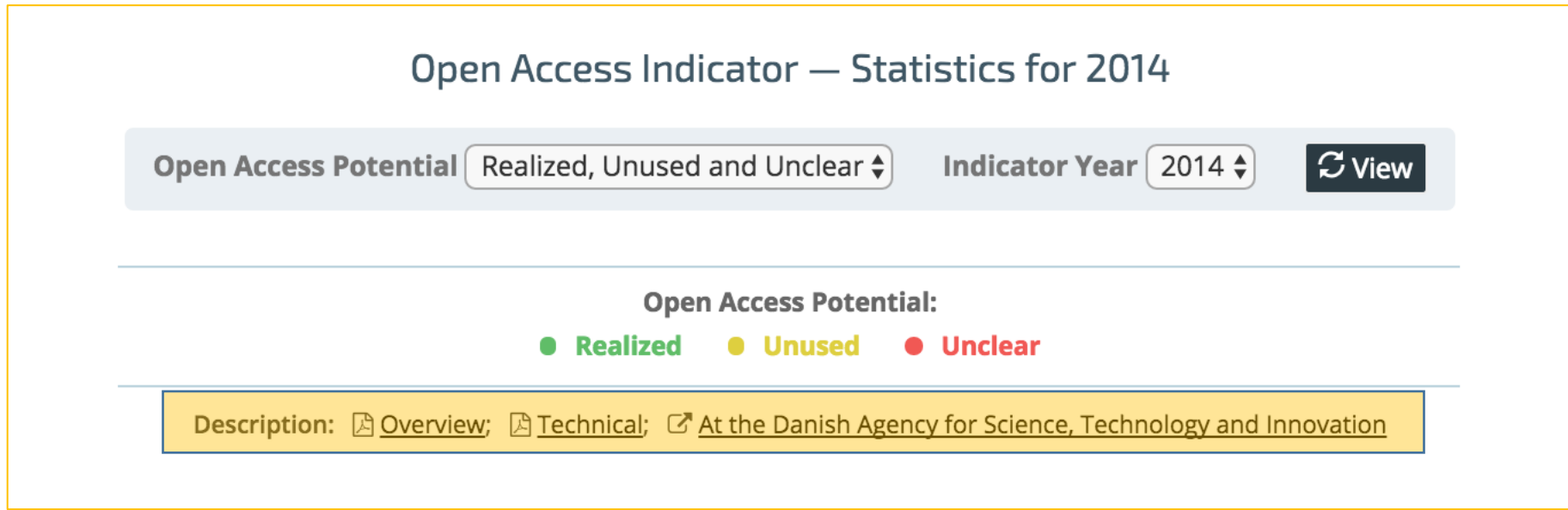
[View](#)

Realized Open Access Potential:

● Actual ● Projected (c.f. National Strategy)



Transparency and reuse



↓ DOWNLOADS
(Indicator year: 2014)

[Summary data](#)

[Publications in scope](#)

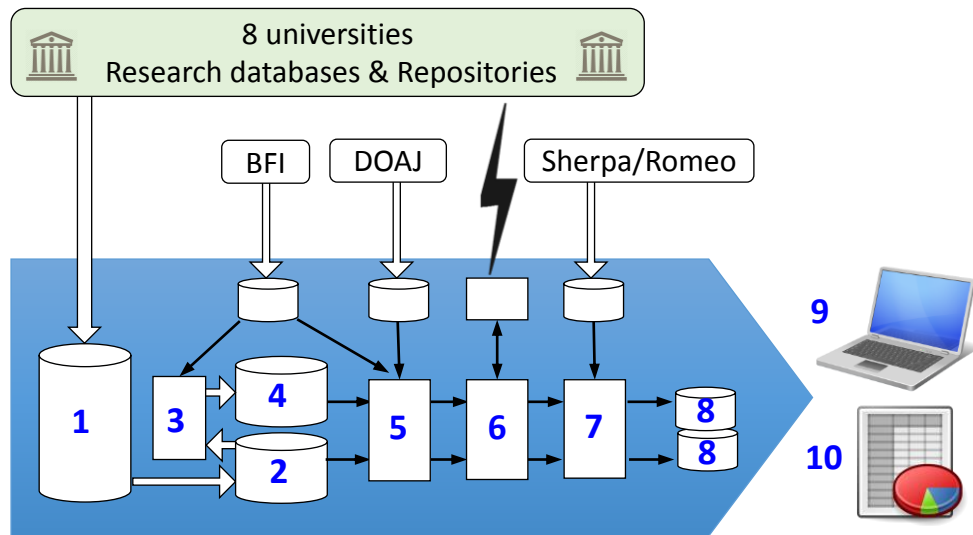
[Records in scope](#)

The datasets behind the online visualisations

The scope. All publications (deduplicated) in scope. The basis of the summations and aggregations

The scope. All publications (including duplicates) in scope. The basis of the summations and aggregations at the university level.

Architecture of the Open Access Indicator (1/2)

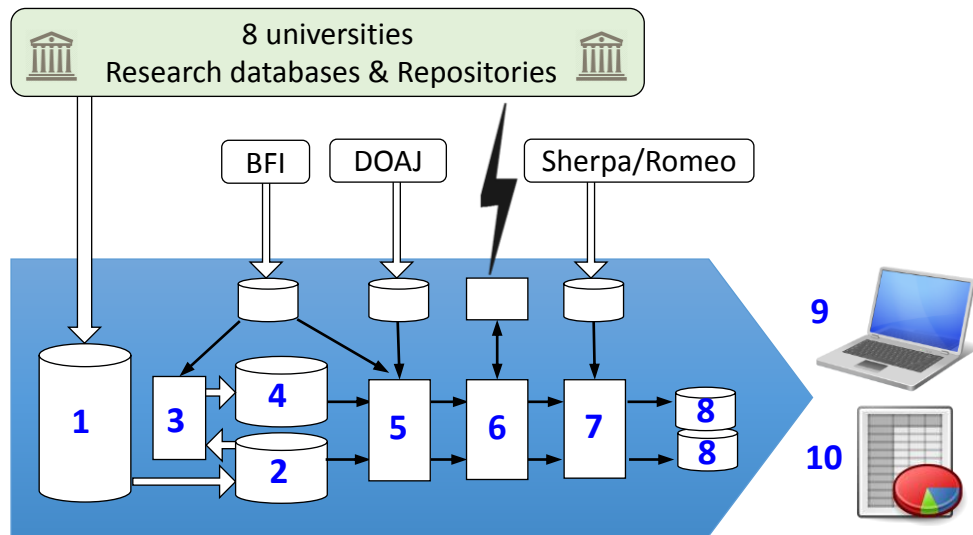


1. OAI-PMH harvest from universities
2. Subset with duplicates (for university calculation)
3. Deduplication using data from BFI (Bibliometric Research Indicator)*
4. Resulting in the “target field without duplicates”.

*What is the Bibliometric Research Indicator

- Or just BFI
 - *B* for Bibliometric
 - *F* for Forskning = research
 - *I* for Indicator
- Funding allocation model based on points given to institutions based on publishing in
 - A number for “expert” selected publication channels: journals and selected publishers for books
 - A common data model, all institutions have focus on providing as correct and full data as possible, because it is used for the allocation of funds.

Architecture of the Open Access Indicator (2/2)



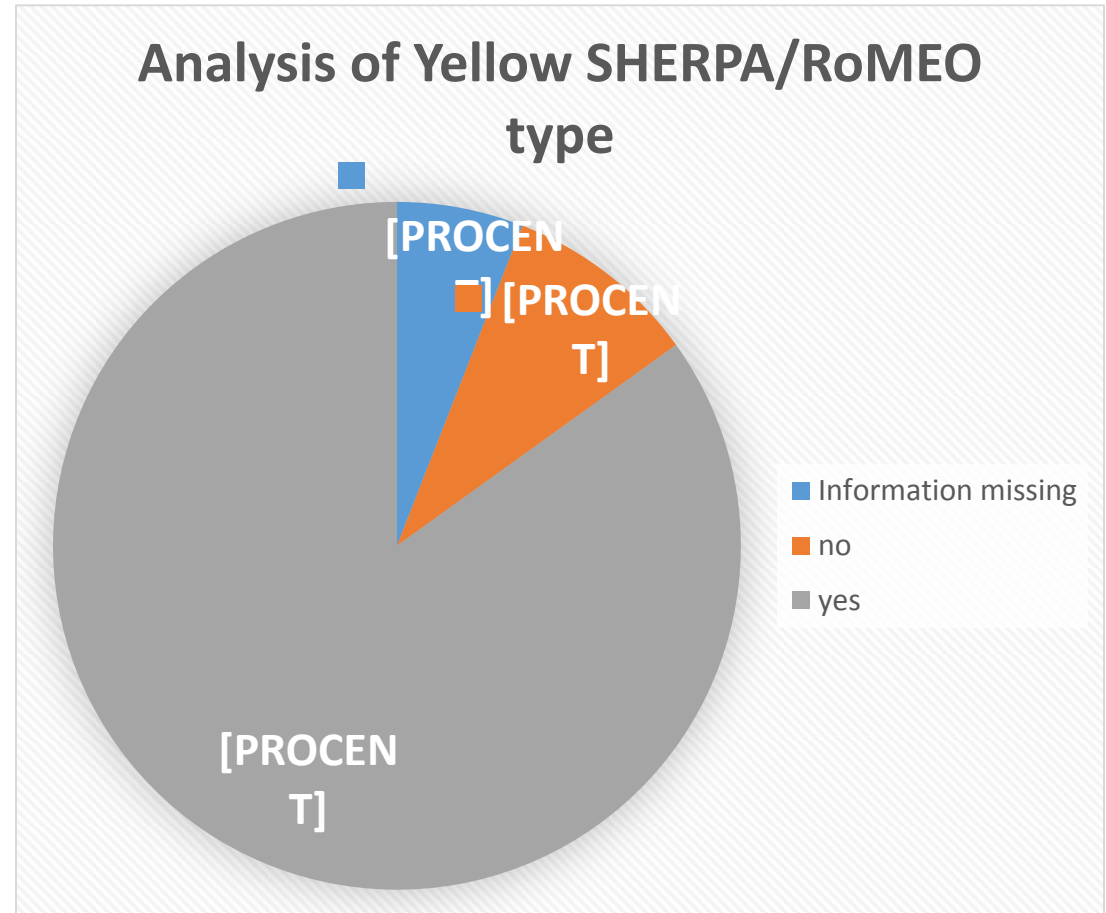
5. Check with DOAJ for Gold OA status in combination with BFI authoritative journal list
6. Check whether the article may be downloaded from the university (Green Open Access)
7. Check whether the article is published in a journal with Green OA potential using Sherpa/Romeo*
8. Two outputs:
 - a. University statistics (with duplicates)
 - b. National statistics (without duplicates)
9. Published on the Danish National Research Database
10. Download as CSV file

*Definition of Open Access potential

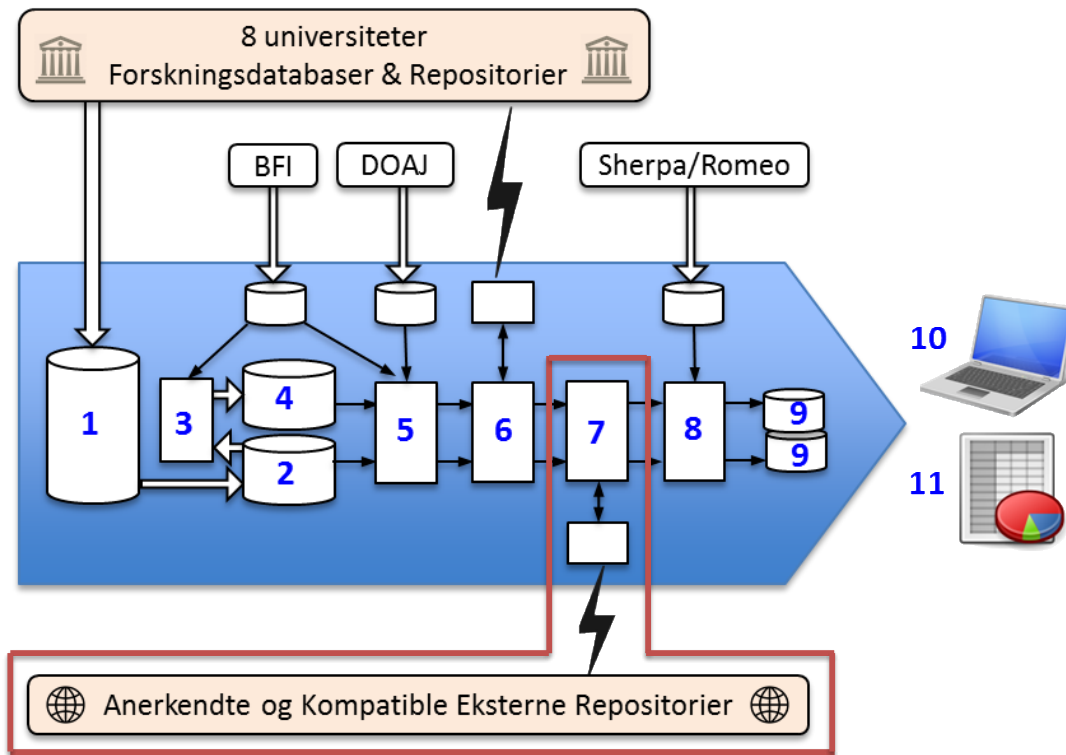
- In the DEFF OA-barometer pilot project the 'green' category alone was used as the indicator for OA-potential
- However this will produce false-negatives
- Commissioned a survey of the actual potential
- SHERPA/RoMEO categories:
 - Green = OA Potential (pre and postprints)
 - Blue = OA Potential (postprints)
 - Yellow ≈ likely OA Potential
 - White ≠ not likely to have OA Potential
- Analysis concluded to include "Yellow" in the calculation of OA-potential

*Definition of Open Access potential

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Coming add-ons and possible improvements



- Add External repositories and authoritative check repository list, including Danish universities OJS-servers
- Handling the OA-potential calculation better including long embargo periods and exceptions in national licenses
- More frequent measurements/harvests (monthly)

Thank you!

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