



Ministry of Higher Education  
and Science

Danish Agency for Science,  
Technology and Innovation

# Open Access in Denmark – new politics and demands



# Open Science

Open Science covers the work of implementing Open Access to research publications, as well as preserving and ensuring access to research data.

- Open Access to peer-reviewed scientific articles
- Open Access to research data

# Political background – Open Science

- In 2007 the Danish Government endorsed the EU Council's conclusions concerning "Scientific information in the digital age: access, dissemination and preservation".
- Open Access committee placed under the Steering Committee for Denmark's Electronic Research Library (DEFF) – recommendations for implementation of Open Access in Denmark 2011 (report)
- 2012: Commission Recommendation on access to and preservation of scientific information.
- **December 2012: Denmark's national innovation strategy: Denmark – a nation of solutions: Initiative 17: Strengthen commercial access to knowledge: ".....there will be an effort to increase access to publicly financed research articles "**.
- September 2013: Open Access to scientific articles - Internal report, Danish Agency for Science, Technology and Innovation.

## Danish National Strategy for Open Access to Scientific Articles

- Announced on EuroScience Open Forum (ESOF) in Copenhagen 24th of June 2014
- Minister for Higher Education and Science **Sofie Carsten Nielsen** presents the strategy at NordForsk-session: Scientific Impact and Open Access



Foto: NordForsk/Terje Heiestad



# Danish National Strategy on Open Access

## Vision

To create *free access* for all citizens, researchers and companies *to all research articles* from Danish research institutions financed by public authorities and/or private foundations.

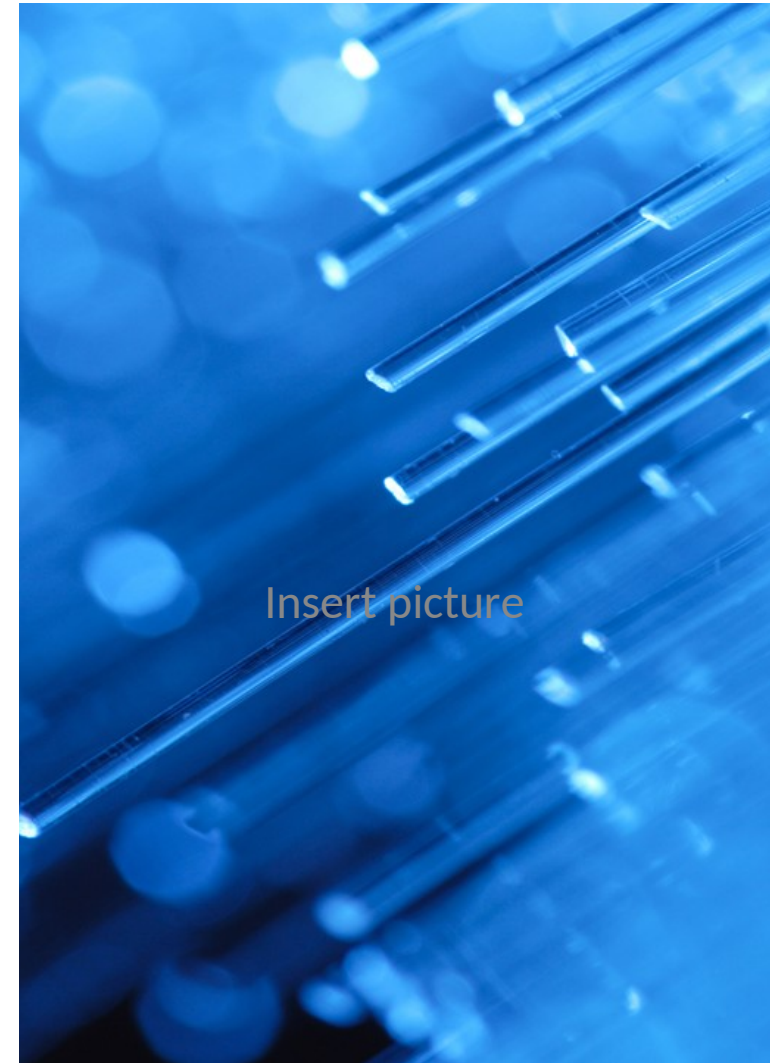


# Danish National Strategy on Open Access to Scientific Articles

## Targets

*To achieve by 2017* via digital archives – repositories – unimpeded, digital access for all to *80 per cent* of Danish peer-reviewed scientific articles from Danish research institutions published in 2016.

*To achieve from 2022* and onwards unimpeded, digital access for all to *100 per cent* of all Danish peer-reviewed scientific articles from Danish research institutions published from 2021 and onwards.



# The National Strategy on Open Access - focus areas

- Primarily the **green model** – the **golden model** is ok if it doesn't imply extra costs for publishing
- Examine the opportunity for a long-term cost-effective transition to the golden model
- Collaboration between relevant actors – **no legislation**
- Ensure that that researchers keep part of their copyright

## The National Strategy on Open Access - focus areas (2)

- The implementation of Open Access is to be monitored on an ongoing basis
- Researchers are to be informed of *the practical use* of the infrastructure by publishing in Open Access
- Companies are *to be informed of the opportunities* to obtain state-of-the-art research for their innovation
- one well-functioning platform for general dissemination of Danish Research findings must be created



# Implementation based on two core principles

- The implementation of Open Access is to **support the possibility for Danish researchers to continue to publish in the most recognized national and international journals,** and also the possibility to publish in Danish-language journals
- **The aggregate public expenditure for scientific publication must not increase** significantly as a result of the implementation of Open Access



# Definitions of key concepts

# Definitions of key concepts - the National Strategy for Open Access

Focus: Scientific articles in journals and anthologies,  
including conference contributions.

Scientific monographs, patents and Ph.D. and  
doctoral dissertations are exempted.

# Definitions of key concepts (2)

## The Green model

Green Open Access refers to publication in a quality-assured journal coupled with parallel filing of the final quality-assured version of the researcher's article in a digital archive – a repository – to which there will be open access for all interested persons via the Internet – potentially after a waiting period if required by the journal.

# Definitions of key concepts (3)

## The Golden model

The journal as such is published as Open Access, and all its articles are made immediately accessible online free of charge. The costs are covered either by an editing organisation or through author processing charges (APC) that are paid for each individual article.

For the time being, this model implies, however, considerable extra costs for public authorities in relation to the existing model of publication according to which payment for reading the articles is covered through subscriptions.





# Why a national policy?

To increase return on  
investment in research for  
the benefit of society!

# What are the benefits?

- **Public service:** Public service will be improved, for instance through improved access by doctors, teachers and so on
- **Industry competitiveness:** The ability to innovate and hence, the competitive position of the companies will also improve
- **Quality of and transparency in research:** Impact both on the integrity and the quality of research, including the appearance of new models of peer review
- **Cross-disciplinary research** and exchange of knowledge and ideas across professional boundaries and scientific fields at the universities will be easier



- **The visibility of researchers and universities** will be reinforced

# Status - Realised potential of Open Access (articles in the bibliometric research indicator )

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	2009	2010	2011	2012	2013
Scientific articles (journals)	12.773	13.402	15.385	16.726	16.263
Scientific articles in Open Access (journals)	620	682	952	1.171	1.790
Realised potential of Open Access	4,9 %	5,1%	6,2%	7%	11%

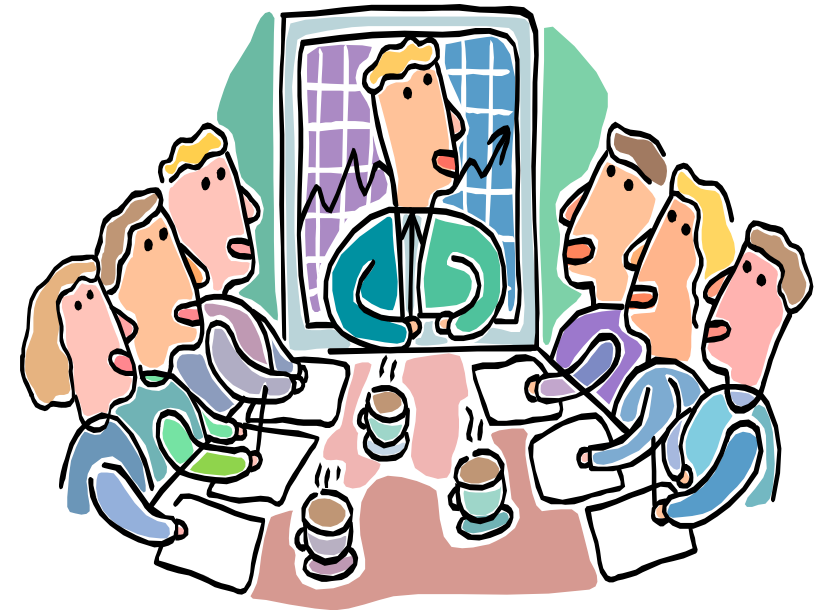


# How to promote Open Access?



# Danish National Strategy on Open Access - How to do it?

- National Steering Committee on Open Access
- Appointed by the Minister for Higher Education and Science in 2014



# National Steering Committee on Open Access

## Target

To coordinate the implementation and development of the National Strategy for Open Access

# Mandate - The National Steering Committee for Open Access

- The public expenditure for scientific publication must not increase significantly
- Danish researchers' freedom of publication must not be restrained
- The national strategy is the basis for the Steering Committee's work
- The Steering Committee may suggest to the Minister changes of the strategy

# Target group - the National Steering Committee on Open Access

- The 8 Danish Universities
- Public research councils and public and private foundations
- Governmental research institutions
- Denmark's Electronic Research Library (DEFF)
- Researchers and research areas

# Working modalities – The National Steering Committee on Open Access

- The committee is run by the Danish Agency for Science Technology and Innovation
- The steering committee must ensure that external stakeholders can contribute to the committee's work
- The committee itself decides and organises what to be done according to its mandate
- The committee can decide to set up task forces for special issues of a technical character
- The committee must report to the minister at least every half year



# Members of the Steering Committee (1)

Director General **Hans Müller Pedersen** (Chairman), The Danish Agency for Science, Technology and Innovation

Professor **Jan Philip Solovej**, The Danish Council for Independent Research

Professor **Birgitte Possing**, Danish National Research Foundation

Forskningschef **Anne-Marie Engel**, Lundbeck Foundation

Scientific Officer **John Peter Wittschieben**, Novo Nordisk Foundation

Direktør **Erland Kolding Nielsen**, The Royal Library on behalf of the governmental research institutions (SEDIRK)

Chairman **Børge Obel**, Denmark's Electronical Research Library (DEFF)



Dean **John Renner Hansen**, University of Copenhagen

# Members of the Steering Committee (2)

- Library Director **Per Lindblad Johansen**, Aarhus Universitet
- Library Director **Mogens Sandfær**, Technical University of Denmark
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- Library Director **Bertil F. Dorch**, University of Southern Denmark
- Senior Librarian **Niels-Henrik Gylstorff**, Aalborg Universitet
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- Senior consultant **Lars Nondal**, Copenhagen Business School
- Senior Librarian **Claus Vesterager Pedersen**, Roskilde University
- Associate Professor **Espen Aarseth**, IT University of Copenhagen
- Senior Adviser, P.h.D, **Charlotte Greve**, University Colleges Denmark
- Head of Division **Kresten Bay**, Ministry of Culture Denmark (observer)



# Timetable 2014-2015 - The National Steering Committee on Open Access

- **1st meeting 23 April:** Organising of the task
- **2nd meeting 17 June:** Discussion of which initiatives to implement
- **3rd meeting 24 September:** Decision on initiatives, set up of task forces and discussion of incentives
- **November** - Progress report to the Minister
- **4th meeting 28 January:** Reports from the task forces and discussion on incentives and preparing the next steps etc.

# Selected initiatives in 2014-2015

- Implementing of **ORCID (researcher-ID)** - DEFF
- Redesign og konsolidation of the **Danish Research Database** – DEFF
- Development of an **Open Access Barometer** – task force has been set up
- **Technical solution for Danish Journals with Open Access** - task force has been set up

# Funding

No funding – only limited seed money  
for smaller projects!

# Open Access - parameters for succes (1)

## Universities and Governmental Research Institutions

- Local Open Access policy supported by management
- Local infrastructures must be in place
- Campaigns, incentives and service directed at researchers
- Information to companies of the opportunities to obtain state-of-the-art research for their innovation
- **Realise the potential for legal Open Access which is **unexploited!****

# Open Access - parameters for succes (2)

## Public research councils and public foundations

- Enforce the Open Access policy adopted in 2012!

## Private research foundations

- Support the national strategy by adopting local policies on Open Access

# Open Access - parameters for succes (3)

## Denmark's Electronic Research Library (DEFF)

- Negotiations with publishers in favour of targets of the National strategy

## Researchers

- Use the right to green Open Access, if the journal allows Open Access
- Ensure that researchers keep part of their copyright



# Open Access - parameters for succes (4)

## Government

- Political support for and focus on Open Open Access
- Push the process forward by coordinating measures, e.g. running and chairing the National Steering Comittee on Open Access
- International cooperation and alignment of policies



Uddannelses- og  
Forskningsministeriet

# Thank you!

More information on Open Access can be found on the Danish  
Ministry of Higher Education and Science's webpage:  
[www.ufm.dk](http://www.ufm.dk)