

The background of the slide is a high-resolution, close-up photograph of a printed circuit board (PCB). The board is densely packed with various electronic components, including integrated circuits, capacitors, and connectors. The lighting is dramatic, with strong highlights and deep shadows, creating a sense of depth and complexity. The overall color palette is dominated by the metallic greys and blacks of the board, with a prominent green tint overlaid on the lower half of the image.

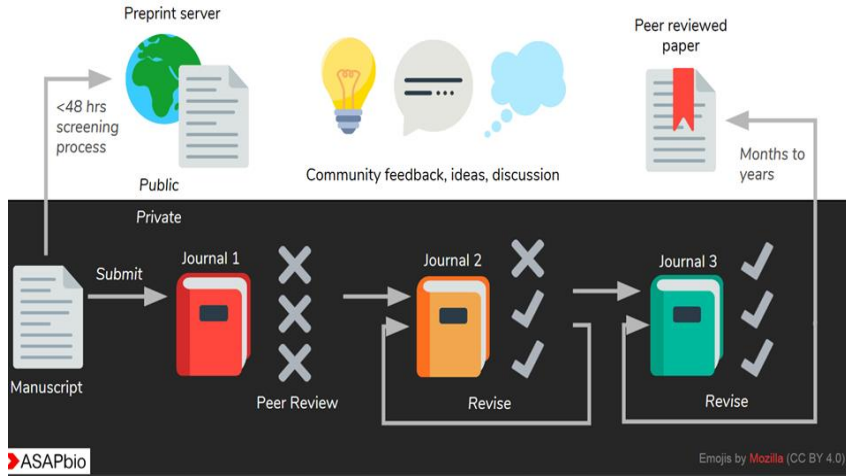
Webinar preprints her og nu
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Hvorfor tale om preprints....

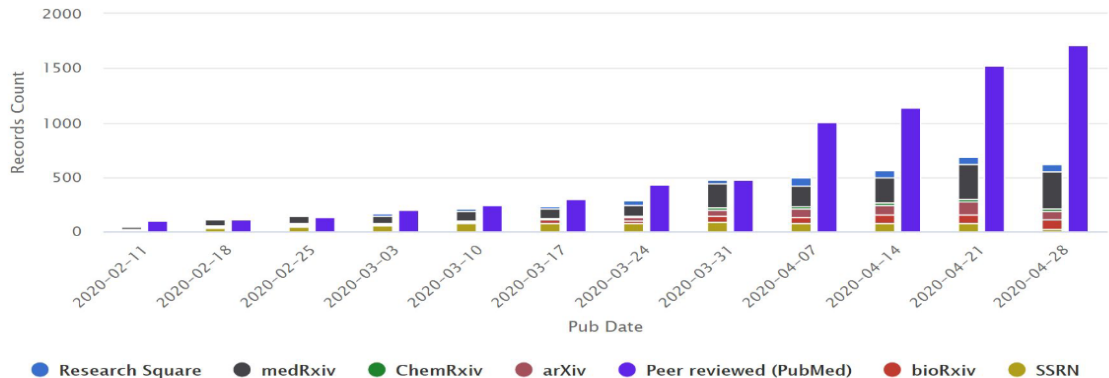
Preprints make work available almost immediately



A significant fraction of COVID-19 research is currently in preprints

Count by Source

Click and drag to zoom



More on preprints and COVID:

- [Curated COVID preprints from CoB](#)
- [Liam Brierley overview article](#)
- [Maiumder & Mandl article on R₀](#)
- [BMJ blog post](#)
- [Use of preprint in UK gov policy](#)

<https://icite.od.nih.gov/covid19/search/>

Webinar programmet

#DeiCwebinar

- **Preprints rolle i videnskabelig kommunikation v. Anna Mette Morthorst @AMorthorst**
- **Om preprints og mulige forbehold v. Charlotte Wien @CharlotteWien**
- **Preprints i praksis v. Martin Dietz @martindietz**
- **Q&A**



Knowledge Exchange –DeiC har været partner fra 2020

KE consists of partner organisations in six countries:



DFG (German Research Foundation, Germany)



Jisc (United Kingdom)



The Danish e-infrastructure Cooperation (Denmark)



SURF (Netherlands)



CSC IT Centre for Science (Finland)



CNRS Centre national de la recherche scientifique (France)

Knowledge exchange works to enable Open Science

A European partnership
to improve services for
higher education and
research

Knowledge Exchange is a collaboration between six national organisations, each responsible for supporting the development of ICT infrastructure for higher education and research

Preprints rolle i videnskabelig kommunikation

- Forskellige opfattelser og brug af preprints i forskningsverdenen
- Infrastrukturer og services
- Preprints i fremtiden?



credit: '[Practices, drivers and impediments in the use of preprints](#)' Authors: Andrea Chiarelli, Rob Johnson, Stephen Pinfield, Emma Richens

Resultater fra Knowledge exchange

- The overall objective is to explore the place of preprints in the research lifecycle from the points of view of **researchers, research performing organisations, research funding organisations and preprint servers/service providers.**
- Particularly, we aimed to investigate:



Core benefits for researchers



Attitudes of institutions and funders



Usage by researchers



Incentives and disincentives for researchers



Values, strategies and aims of service providers

credit: '[Practices, drivers and impediments in the use of preprints](#)' Authors: Andrea Chiarelli, Rob Johnson, Stephen Pinfield, Emma Richens

Hvad er et preprint?

Differing definitions: ambiguity is unavoidable in the landscape

A version of a paper ready to be submitted

A very early draft of a paper posted to receive comments from the community

A research output that hasn't been completed as a paper for review

A research output that is not expected to make it to the published stage (e.g. quality is too low, lack of necessity)

The author's accepted manuscript posted on a preprint server as a new version (even if this is, at least in theory, a post-print)

A version of an article uploaded to an institutional repository to comply with national/funder policies

Due to disciplinary differences, a definition cannot be artificially forced on the research community.

The study started with the following working definition of a “preprint”: A version of a research paper prior to peer review and publication in a journal.

Most common
↕
Least common

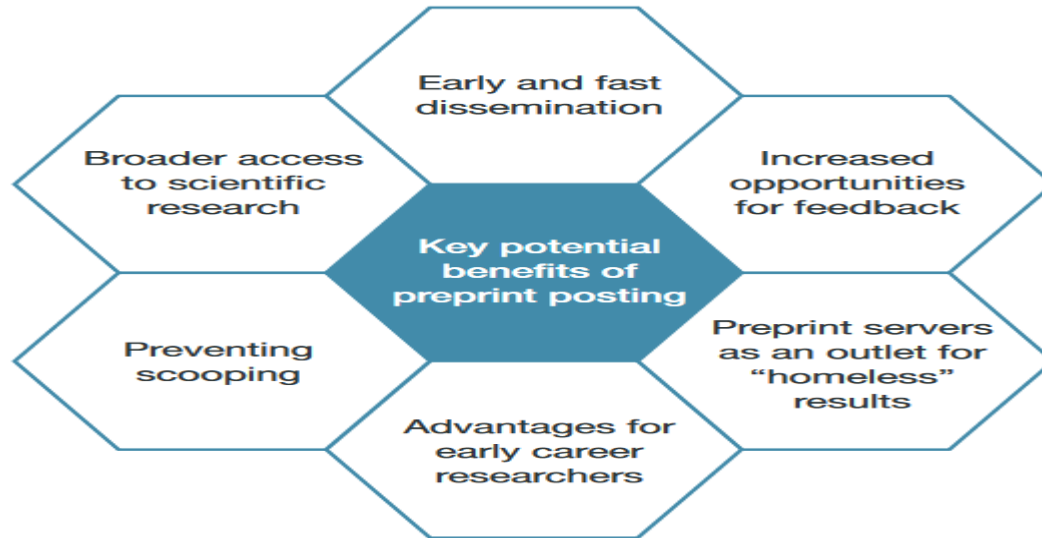


The vast majority of interviewees understood the proposition of a preprint.

There exist clear differences between preprints and published articles, with peer-review being the most significant one.

credit: '[Practices, drivers and impediments in the use of preprints](#)' Authors: Andrea Chiarelli, Rob Johnson, Stephen Pinfield, Emma Richens

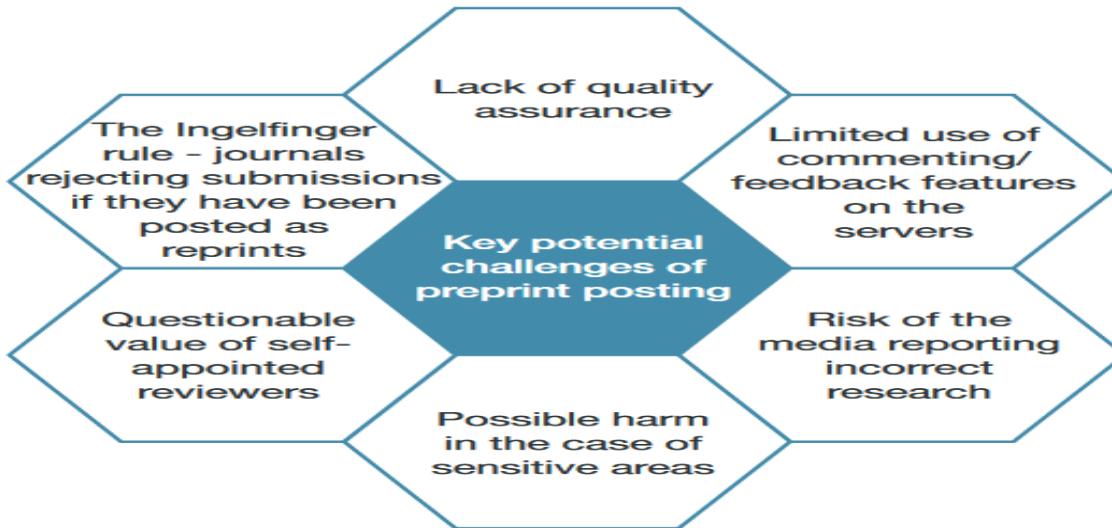
Mulige fordele ved preprints



Some researchers are supporters of preprint posting and tend to be early adopters and follow emerging community trends. They are committed to open scholarship and embrace new practices believing that their benefits

Credit: Andrea Chiarelli, Rob Johnson, Stephen Pinfield, Emma Richens [Accelerating scholarly communication - The transformative role of preprints](#). DOI 10.5281/zenodo.3357727

Mulige udfordringer ved at dele preprints



Others are more sceptical and feel that preprints might be just 'yet another job'. In their view, the challenges of posting preprints outweigh the benefits

Credit: Andrea Chiarelli, Rob Johnson, Stephen Pinfield, Emma Richens [Accelerating scholarly communication - The transformative role of preprints](#). DOI 10.5281/zenodo.3357727

Hvad afgør tilliden til preprints?



Stating “not peer-reviewed” as a watermark or banner is considered to be enough to inform readers:

- It is believed that not much else could be done; and
- It is the re-user’s job to be responsible when reusing information found online.



Trust in a given preprint typically varies based on whether:

- The preprint is widely discussed on social media;
- The preprint has received comments online (e.g. on the preprint server);
- The preprint has already been cited;
- The preprint has been reported on by a magazine/newspaper;
- A colleague has recommended the preprint;
- The preprint server itself is seen as credible.

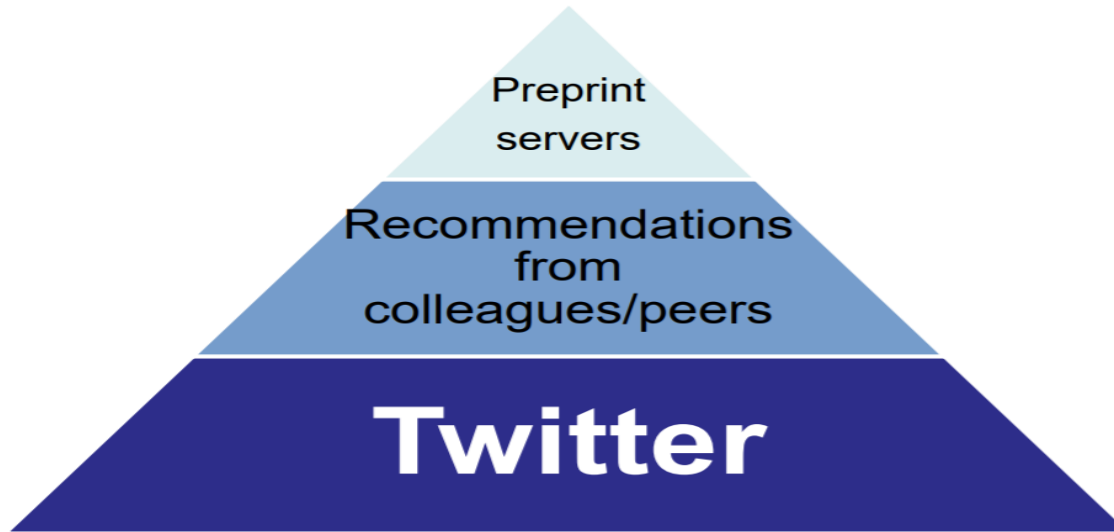
credit: '[Practices, drivers and impediments in the use of preprints](#)' Authors: Andrea Chiarelli, Rob Johnson, Stephen Pinfield, Emma Richens

Faglige forskelle, kultur og adfærd

- Preprints are closely associated to the move to open science. The level of awareness of preprints is often higher when people are following developments in this landscape.
- Awareness and practices around preprints vary significantly by discipline and even within a single research area.
- Researchers tend to use discipline-specific servers for posting their work (where available) as opposed to generalist ones.
- Citing preprints is widely accepted but it would be helpful if servers could provide help regarding the best way this can be done.
- Researchers are often unaware of licensing options and their implications.

credit: '[Practices, drivers and impediments in the use of preprints](#)' Authors: Andrea Chiarelli, Rob Johnson, Stephen Pinfield, Emma Richens

Based on our interviews, researchers and preprint servers often rely on Twitter for preprint discovery and sharing purposes.



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Infrastrukturer og services indenfor forskningsområder



- Established preprints culture
 - arXiv (since 1991): mostly, physics and mathematics, but other disciplines are in-scope
 - WoPEC, then RePEc (1993): economics



- Growing preprints culture
 - bioRxiv (2013): biological sciences
 - PsyArXiv (2016): psychological sciences
 - ChemRxiv (2017): chemistry



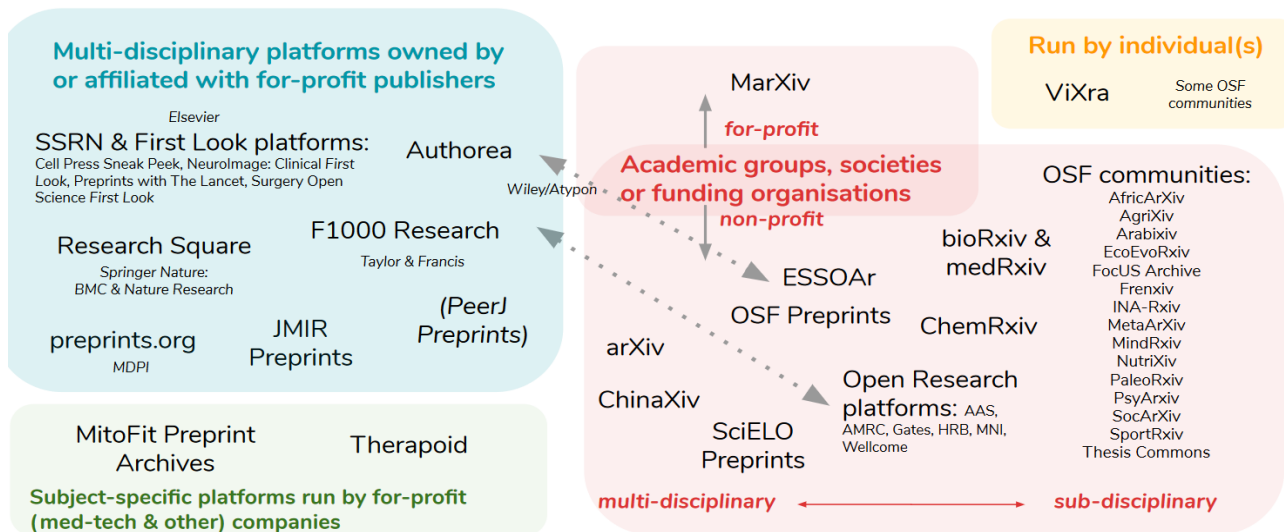
- Future developments
 - medRxiv (2019?): medicine and health sciences

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Preprint landskabet

Landscape of platforms

- Access to money, staff, time, publishing know-how
- Philosophy on amount of gatekeeping versus speed & transparency
- Motivations: from publisher-driven preprints to publishing-disruptive preprints

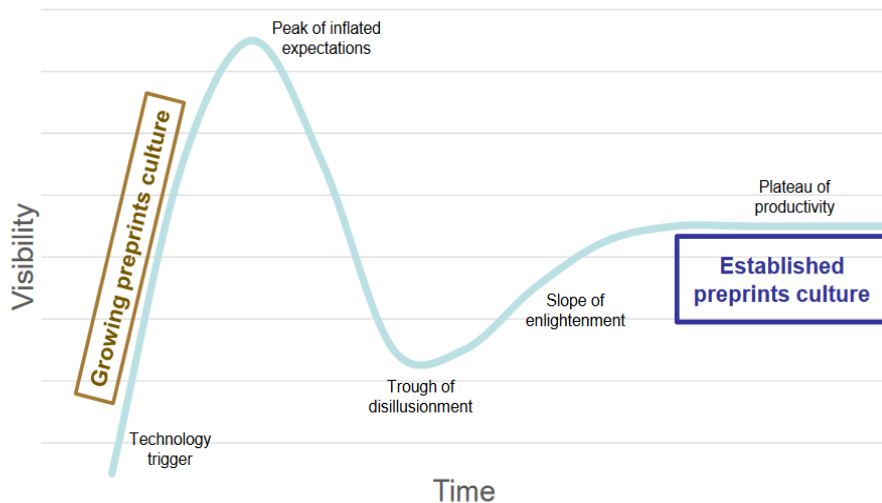


[list of preprint repositories.](#)

Slide by Naomi Penfold - <https://zenodo.org/record/3626770#.XraqE2hKh3h>

Udviklingen i preprints – momentum og hvad så?

The hype cycle can be used to qualitatively show the maturity of preprints in different disciplines through five phases:



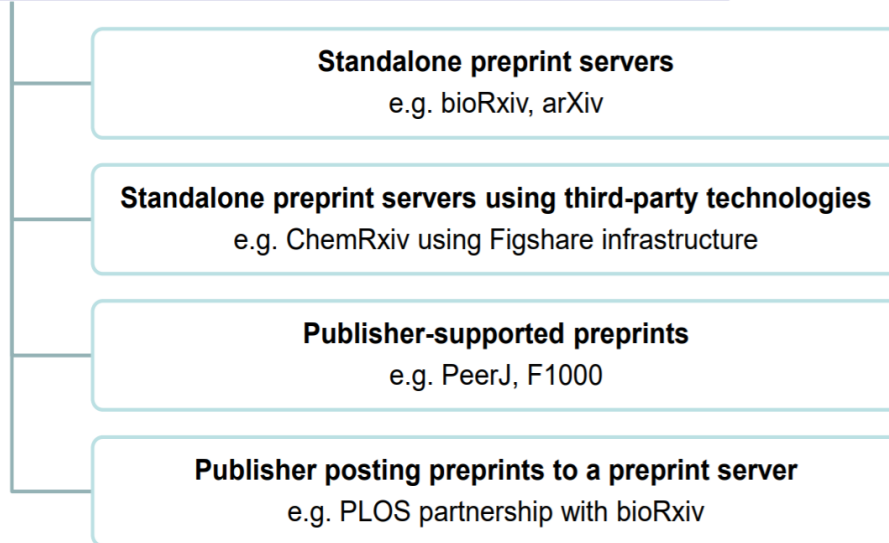
Fenn, J., & Raskino, M. (2008). *Mastering the hype cycle: How to choose the right innovation at the right time*. Cambridge, MA: Harvard Business Press

- ▶ **Scenario 1 – Turn of the tide:** the second wave of preprint servers fades, and preprints remain a major component of scholarly communication only in the fields where they already are, i.e. those served by arXiv and RePEC
- ▶ **Scenario 2 – Variable adoption:** preprints grow in some additional fields such as those within the scope of bioRxiv, PsyArXiv and ChemRxiv but not all
- ▶ **Scenario 3 – Preprints by default:** preprints grow in all fields (at different paces) and are accepted by the research community at large



Fremtidens preprint publicering...

Current models for preprint servers



A key question is whether preprints and preprint servers should be **author-driven or publisher-driven.**

credit: '[Practices, drivers and impediments in the use of preprints](#)' Authors: Andrea Chiarelli, Rob Johnson, Stephen Pinfield, Emma Richens

Alternative modeller m. open peer-review



Richard Sever
@cshperspectives

Plan U: just mandate preprint deposition and let a downstream ecosystem of overlays/journals with various business models evolve in response to community needs. Side benefit: speeding up science massively...

1. Solves the access problem
2. Makes research available ASAP
3. Allows everyone to experiment (or not) with peer review so we can really explore how/when/if to evaluate work in C21st.
4. Makes 3) easier because hosting, DOI, etc. already taken care of by bioRxiv, etc.

Assistant Director of Cold Spring Harbor Laboratory Press
Editor of CSH Perspectives, bioRxiv Co-Founder

Hvad kan der arbejdes videre med?

- Responsibilities and business models
- Involvement of commercial players vs community ownership
- Evidence of advantages and disadvantages
- Pathways to awareness raising
- Approaches to training and support

Credit: Andrea Chiarelli, Rob Johnson, Stephen Pinfield, Emma Richens [Accelerating scholarly communication - The transformative role of preprints](#). DOI 10.5281/zenodo.3357727

Læs mere på Knowledge Exchange website

Kilde til de fleste slides er hentet fra følgende slidedeck '[Practices, drivers and impediments in the use of preprints](#)'
DOI: <http://doi.org/10.5281/zenodo.2654832>

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Læs mere om KE's arbejde med preprints <https://www.knowledge-exchange.info/event/preprints>, herunder den afsluttende rapport: [Accelerating scholarly communication - The transformative role of preprints](#)
DOI 10.5281/zenodo.3357727

Følg med Knowledge Exchange nyheder på [Knowledge Exchange](#)
og på [DeiC's hjemmeside](#)

Eller på twitter [@knowexchange](#) og [@DeiC1](#)

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