

# Kotilava -seminar

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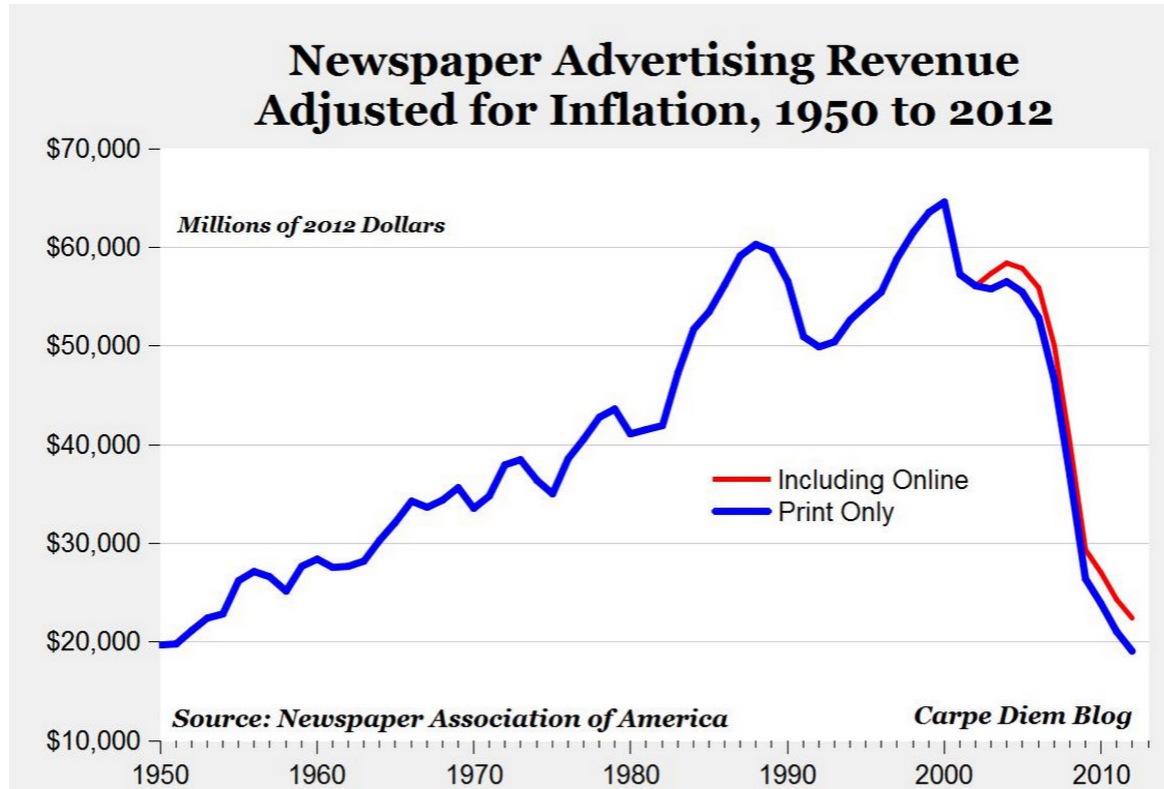
Tuesday 24th of May 2016

Ministry of Education and Culture

Ministère de l'Éducation et de la Culture



# Digitalization disrupts all branches of industry



# Open Science and Research 2009-2017

Research Data Survey  
Initiative TUTA

Finnish Research  
Data Initiative TTA

2011- 2013

Open Science and  
Research Initiative  
ATT

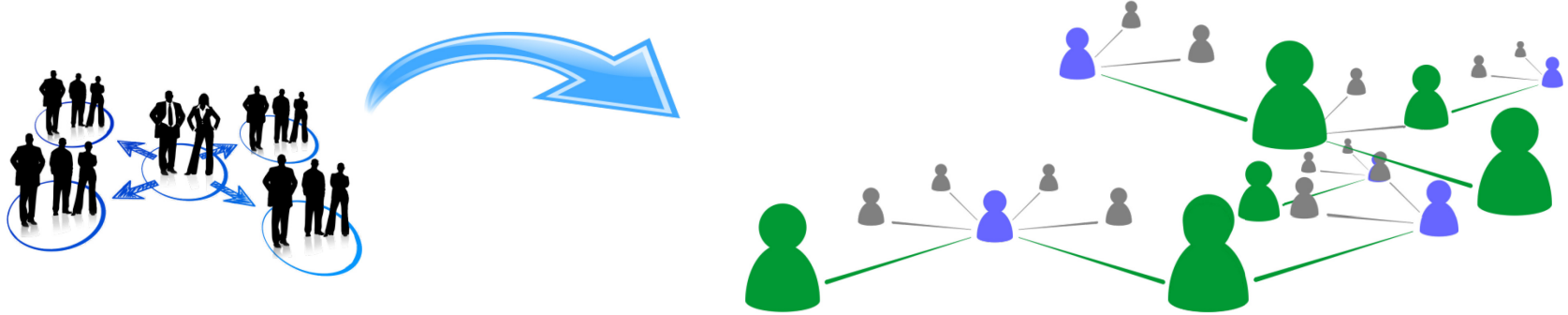
2014

The objectives of the  
Open Science and  
Research Initiative  
(ATT) are to make  
Finland a leading  
country for openness  
in science and  
research by 2017



Open Science and Research Roadmap 2014 – 2017.  
<http://www.minedu.fi/export/sites/default/OPM/Julkaisut/2014/liitteet/okm21.pdf?lang=fi>

# Vision 2017: Open research leads to surprising discoveries and creative insights

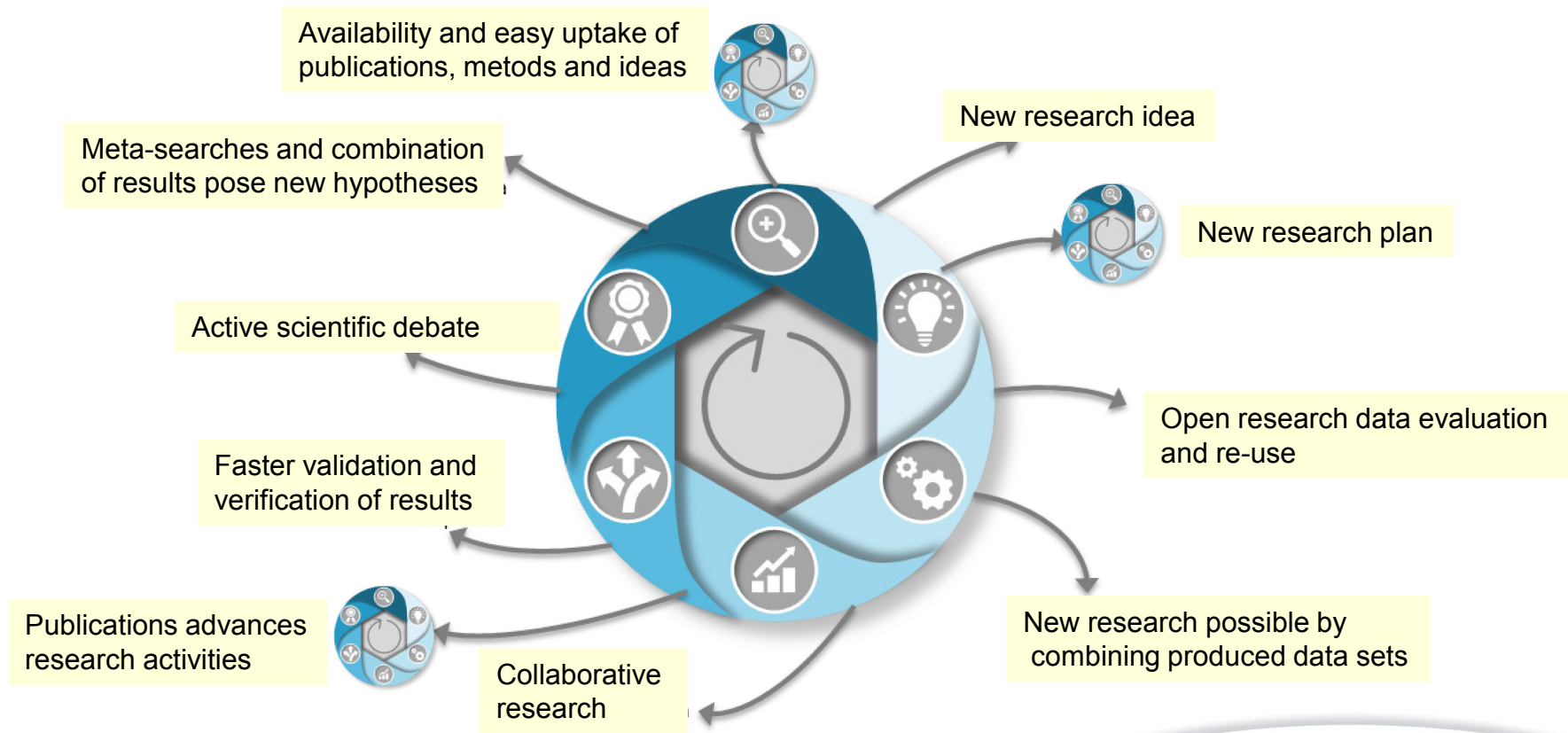


- ✓ Knowing how to harness the opportunities
- ✓ Good basic structures and services



- Openness and repeatability of science and research
- New opportunities for all stakeholders

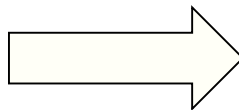
# Science accelerator



# The ATT strategy group set indicators for monitoring the progress

## Open access of publications in the EU assessment

- 65% in 2017
- 75% in 2018
- 90% in 2020



In the EU "Call for Action" the set target is 100% by 2020

## Doctoral programs with open science training

- 90% of programs in 2018
- 100% of programs in 2020

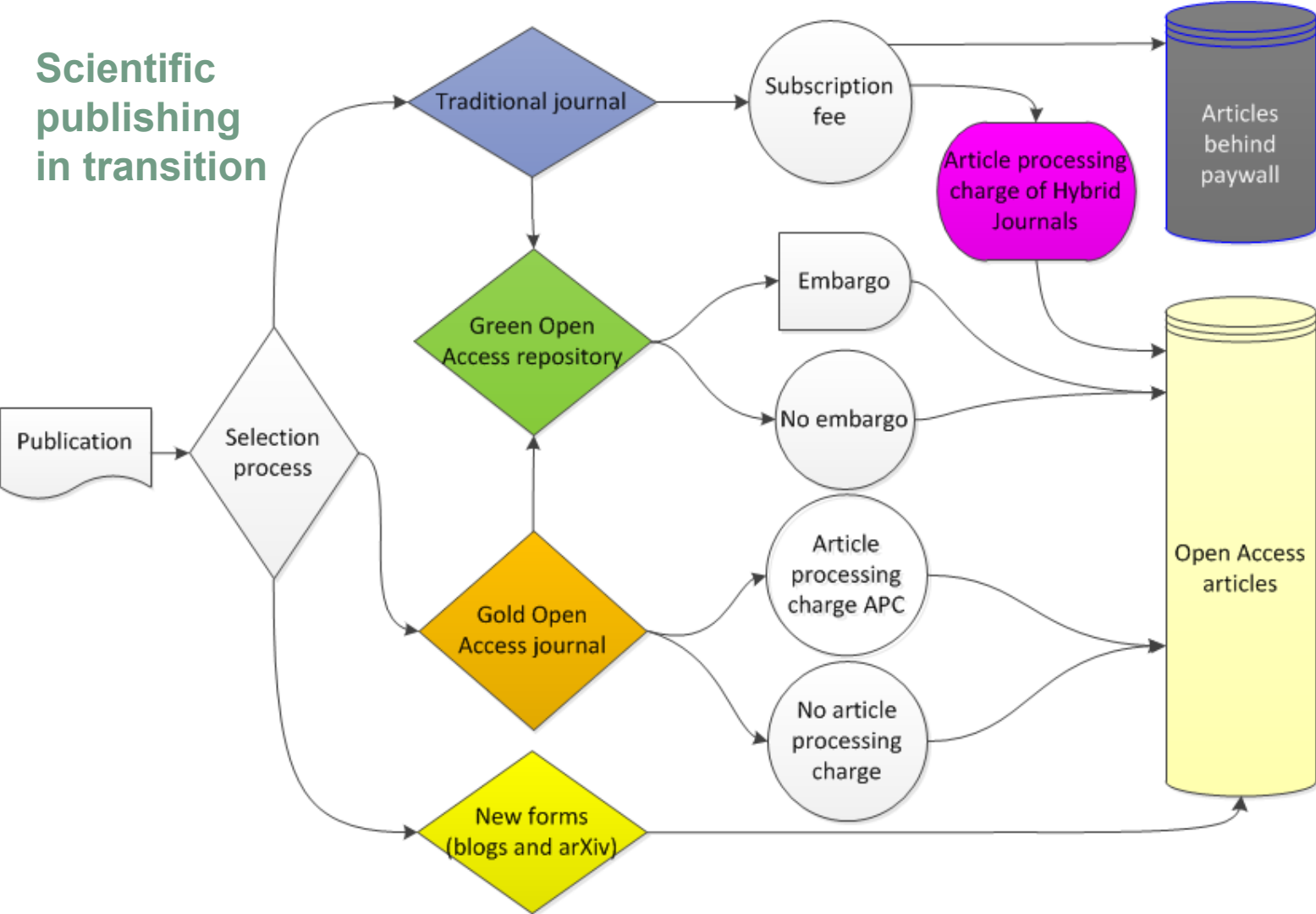
## The number of organisations at the highest level in the analysis of openness of the operational cultures (openness has become a strategic strength)

- 10 % of HEIs in 2017
- 25% of HEIs in 2018
- 50% of HEIs in 2020

## Of new datasets

- 25% are licenced in 2017 and 30% in 2018
- In 2020 50% of new datasets are licenced and their metadata are found in national metadata catalogues

# Scientific publishing in transition



In 2014 of the journals provided by the big publishers:

- 13 % full OA journal
- 69 % hybrid journal
- 19 % full subscription journal.

# Most important developments in 6 research workflow phases

	Discovery	Analysis	Writing	Publication	Outreach	Assessment
Trends	social discovery tools	datadriven & crowdsourced science	collaborative online writing	Open Access & data publication	scholarly social media	article level (alt)metrics
Expectations	growing importance of data discovery	more online analysis tools	more integration with publication & assessment tools	more use of “publish first, judge later”	use of altmetrics for monitoring outreach	more open and post-publication peer review
Uncertainties	support for full-text search and text mining	willingness to share in analysis phase	acceptance of collaborative online writing	effect of journal/publisher status	requirements of funders & institutions	who pays for costly qualitative assessment?
Opportunities	discovery based on aggregated OA full text	open labnotes	semantic tagging while writing/citing	reader-side paper formatting	using repositories for institutional visibility	using author-, publication- and affiliation-IDs
Most important long-term development	multidisciplinary + citation-enhanced databases	collaboration + data-driven	online writing platforms	Open Access	more & better connected researcher profiles	importance of societal relevance + non-publication contributions
Potentially most disruptive development	semantic/concept search + contextual/social recommendations	open science	collaborative writing + integration with publishing	circumventing traditional publishers	public access to research findings, also for agenda setting	moving away from simple quantitative indicators

Kramer, Bianca; Bosman, Jeroen (2015): 101 Innovations in Scholarly Communication - the Changing Research Workflow. figshare. <http://dx.doi.org/10.6084/m9.figshare.1286826>  
Retrieved 20:05, May 25, 2015 (GMT)

# HowOpenIsIt?

OPEN ACCESS SPECTRUM

Journals can be more open or less open,  
but their degree of openness is intrinsically  
independent from their:

- Impact • Prestige • Quality of Peer Review
- Peer Review Methodology • Sustainability
- Effect on Tenure & Promotion • Article Quality



[www.arl.org/sparc](http://www.arl.org/sparc)



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PLOS ONE, 2011, 4(3).  
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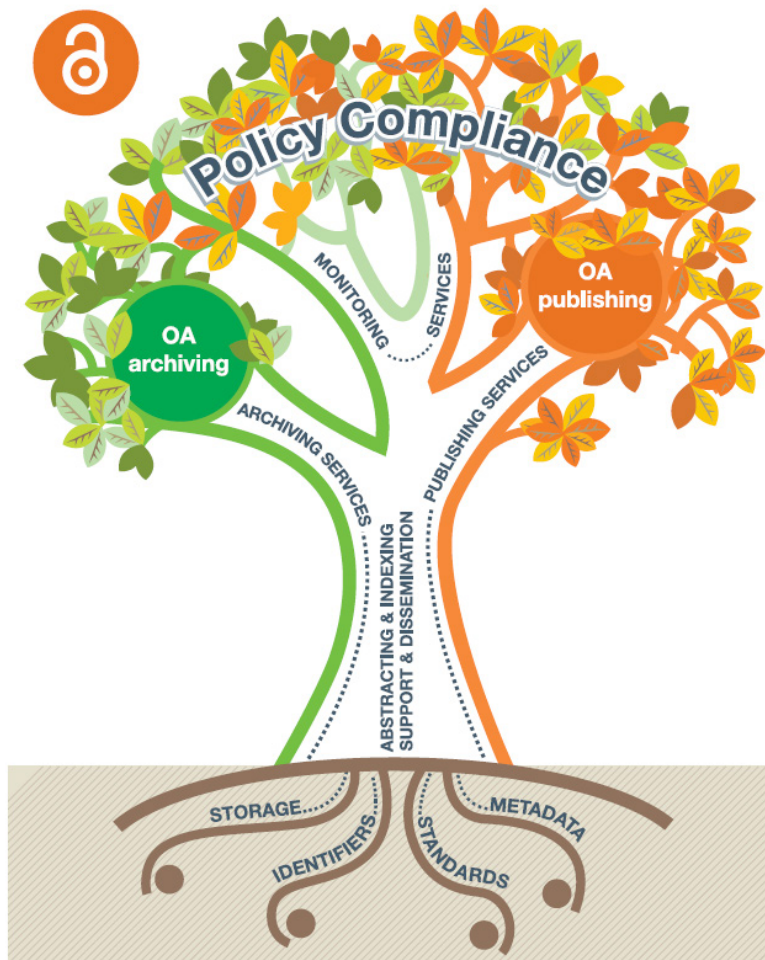
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How open is it? Open Access Spectrum. 2012 SPARC and PLOS, licensed under CC BY

Figure 1: How OA services enable OA publishing, OA archiving and policy compliance



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“Putting down roots: Securing the future of open-access policies”

This workshop and report was initiated by Knowledge Exchange  
[knowledge-exchange.info](http://knowledge-exchange.info)

Authors: Rob Johnson and Mattia Fosci  
[www.researchconsulting.co.uk](http://www.researchconsulting.co.uk)  
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Workshop held: 10 November 2015  
Report dated: January 2016



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# Business models for Open Access publishing

- Freemium
- Community publishing
- Subsidisation by one or many institutions
- Hard copy sales and print on demand
- Article processing charges
- Advertiser or sponsor model
- Pay what you want
- Disjuncted Journal Model
- etc.

BUSINESS PLAN TOOLKIT Publishing an Open Access Journal. SPARC Europe 2016 CC-BY 4.0

Open Access Publishing Services – OPuS 2014.  
<http://www.sampan.eu/downloads/OPuS-VisionOnTheFutureOfAcademicPublishing.pdf>

# How to improve the academic publication market?

1. Improve transparency of costs.
2. Enable greater competition in the publishing market. Research institutions will have to make greater efforts to establish non-commercial publication models of high quality.
3. Increase cross-border cooperation between funders, including common funding models.
4. Make Open Access part of the official government policy.

Falk Reckling 2015. Open Access Publishing at Springer.

<http://scilog.fwf.ac.at/en/article/2835/open-access-publishing-at-springer>



## Some key reasons for switching to OA publishing

- Citation advantage for authors
- Helps authors to comply with funder policies
- New income possibilities enabled by digitization
- KOTILAVA -project

# Want to know more?



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