<u>Share</u>, <u>Link</u> and <u>Cite</u> Research Data

announcing the

2020 STM Research Data Year

Why data matters and what publishers can do to support

>50%

Researchers cannot reproduce their own work

Up to 50%

Citation AND productivity advantage
Associated with making data open

€10 billion a year

Estimated cost to the EU
of not making data FAIR

- ## €30 billion 50,000 jobs

Potential impacts by 2030 of the
European Open Science Cloud,
including the Copernicus earth
observation data

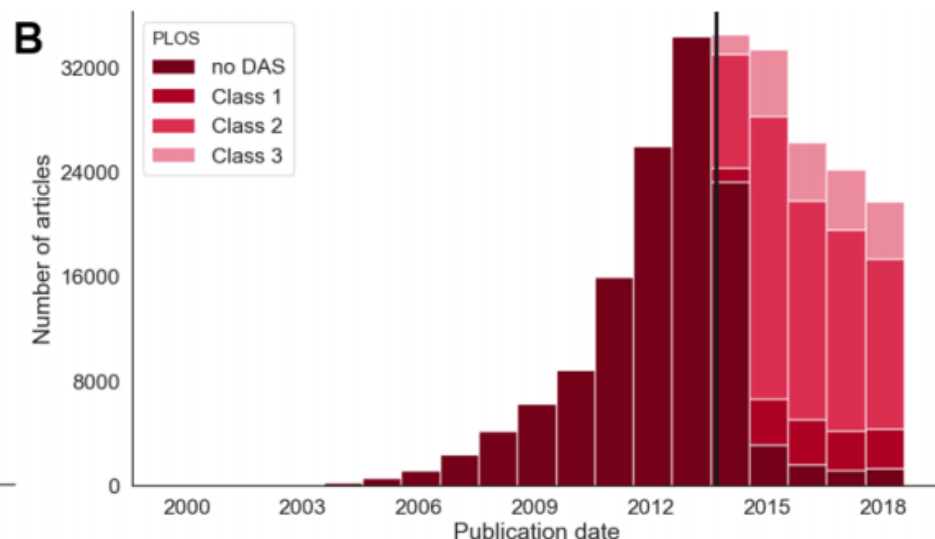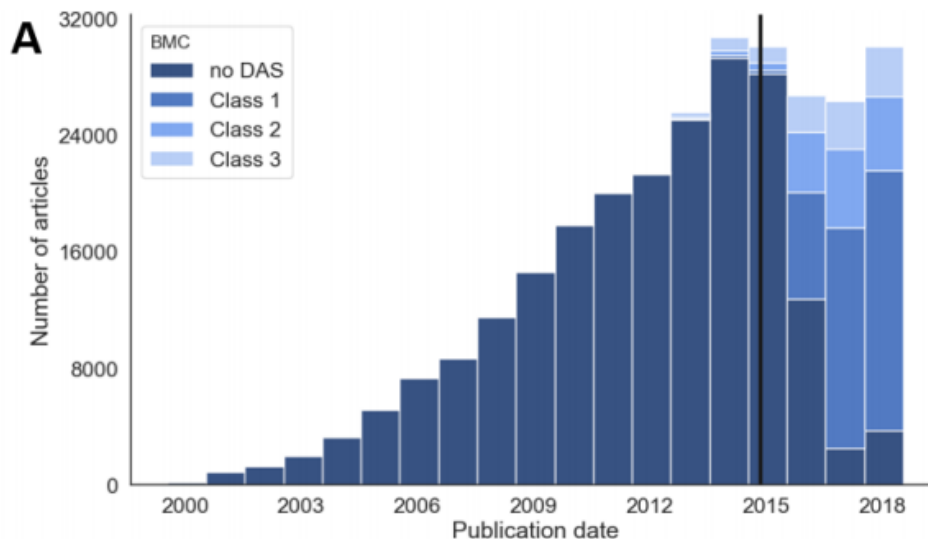SPRINGER NATURE   springernature.com

Research Data
FIVE ESSENTIAL FACTORS
FOR DATA SHARING

ADVANCING DISCOVERY

White paper

1. Clear policy

2. Better credit

STM50
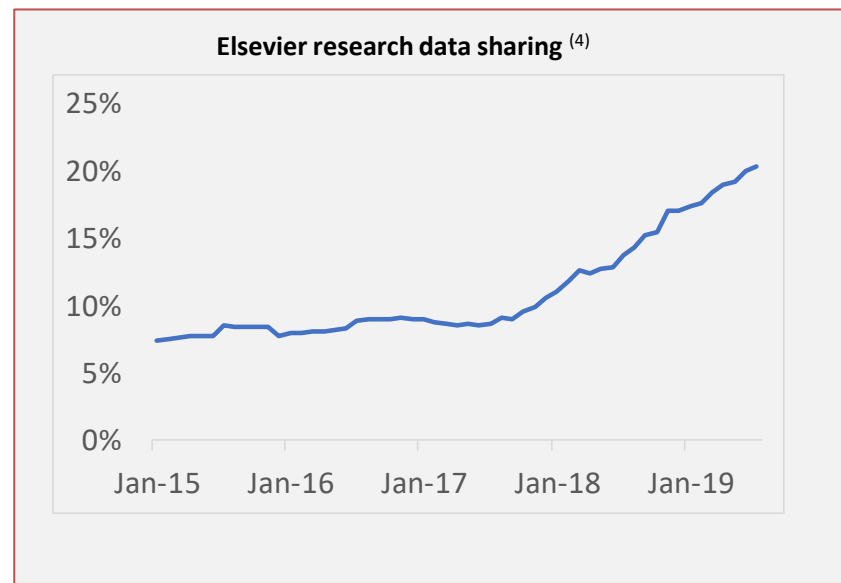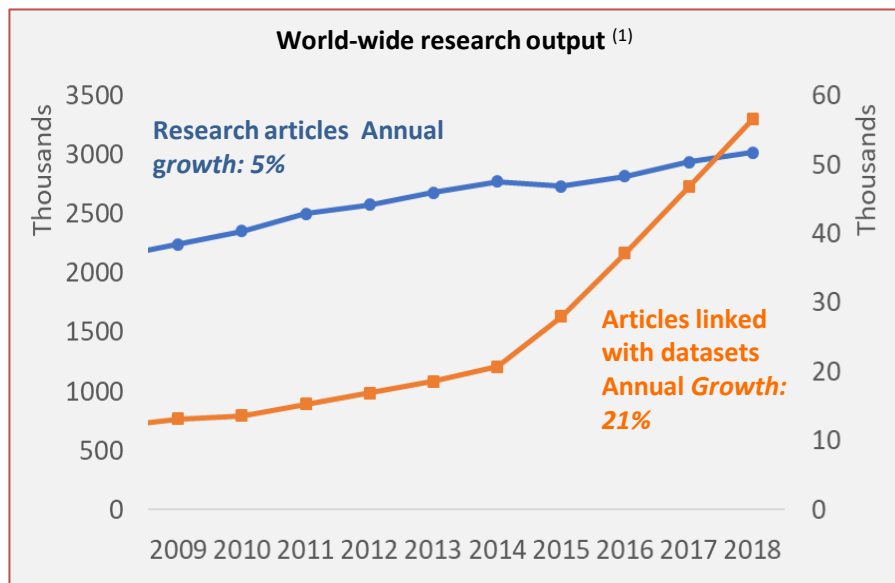The global voice of scholarly publishing

SHARE: Making a statement about research data

- Data availability statements (DAS) are a simple, standard tool for implementing journal research data policies and are increasingly common (**see figure**)
- Also required by some funding agencies policies and can enable compliance monitoring
- Implementation carries some costs but there are benefits, with evidence associating links to data in DAS with a 25% increase in citations   Colavizza et al (2019) https://arxiv.org/pdf/1907.02565.pdf

LINK: Help your authors by sharing data links

World-wide research output [1]

Research articles Annual *growth: 5%*

Articles linked with datasets Annual *Growth: 21%*

3500 · 3000 · 2500 · 2000 · 1500 · 1000 · 500 · 0 (Thousands)

60 · 50 · 40 · 30 · 20 · 10 · 0 (Thousands)

2009 2010 2011 2012 2013 2014 2015 2016 2017 2018

Elsevier research data sharing [4]

25% · 20% · 15% · 10% · 5% · 0%

Jan-15   Jan-16   Jan-17   Jan-18   Jan-19

Sharing and linking research data helps researchers with collaborations, citations +25% [2,3]

The **most simple way** to accomplish this is:

1. **Capture** the research data (link) in the submission process
2. Processes are already in place with **editorial system providers** (with common standards)
3. **Submit data link to CrossRef** as part of standard metadata submission process

It will automatically get into the Scholix.org article-data linking ecosystem! **(magic happens)**

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2020 STM Research Data Year

1st Research Data Workshop for STM members
2 December 2019, London
register now, limited # seats

- And there is more throughout 2020:
  - Workshops
  - Online webinars
  - Hands-on support for implementing DAS and Scholix
- To enable STM publishers to:
    SHARE, LINK and CITE Research Data
    alongside publications