



The global voice of scholarly publishing

# OPEN... ACCESS, DATA, SCIENCE

## A Publishing Industry View

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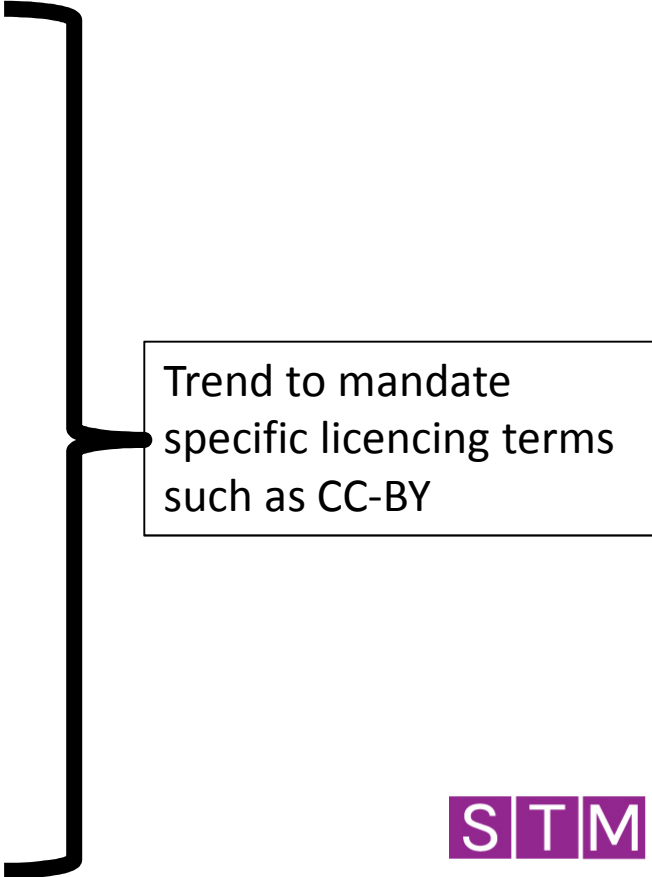
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Twenty years in one slide

**OPEN...** {  
SOURCE  
ACCESS  
DATA  
SCIENCE

# Open Access

- ...free availability online on the open web
- What...version?
  - Un-reviewed preprint
  - Author's final accepted manuscript
  - Final published version
- When...free online?
  - At publication
  - After an embargo
- How...?
  - Pay to publish **GOLD**
  - "nobody pays" **GREEN**
  - Subscription model **DELAYED**



Trend to mandate specific licencing terms such as CC-BY

# Open Access in Practice

## Gold OA:

- No payment to read – full journal
- Final published article
- Often with author payment
- “author pays” model

## Hybrid OA:

- No payment to read – select articles
- Final published article
- Often with author payment
- “sponsored articles,” “author choice,” “open choice,” etc.

## Green OA:

- “self-archiving,” often after delay
- Article versions varies but often accepted author manuscripts
- the “nobody pays” model

	No Subscription	Subscription
Article Publication Charge	Gold	Hybrid
No Article Publication Charge	Subsidised	Subscription

## Delayed access (embargo):

- Free access on journal platform after delay

## Reverse moving wall:

- Free access on journal platform for initial period

# Publisher Responses to OA

- STM Statements
  - 2007 Brussels Declaration
  - 2010 Access Statement
  - 2013 Publishers support sustainable open access
- Practical implementation
  - Almost all STM members have Gold OA journals or offer hybrid options
- Complications
  - Advocates have moved from access to re-use via licence conditions that can effect income
  - Advocates have argued hybrid = “double-dipping” and want offsetting discounts on licenses

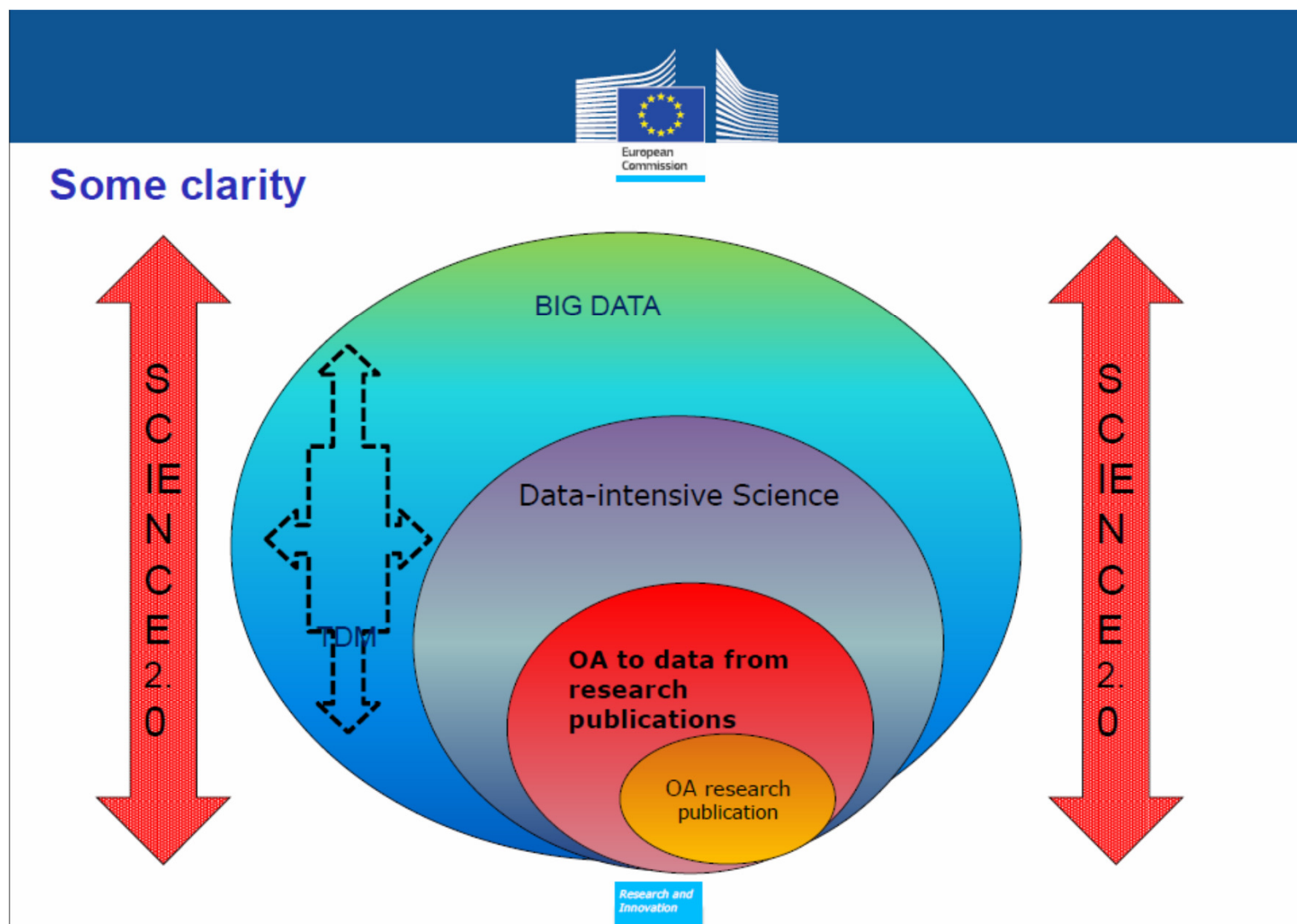
# Open Data

- Widely accepted that data should be open (Brussels Declaration 2007)
- Implications of data-intensive science
  - Researchers will want machine-readable access to data underlying published articles for TDM
  - Linking between articles and databases essential
  - Datasets to become unit of publication
  - Databases and journals will converge
- Issues for publishers
  - Enabling TDM
  - Managing and citing data (DATACITE)
  - Establishing “data journals” with sustainable models

# Science 2.0

- Concept over decade old
  - Refers to digital approaches to research
  - Formalised by EC 2014 consultation
- EC vision, Science 2.0 from three trends:
  - Significant increase in research outputs
  - Rise of data-intensive science
  - Increase in no. of researchers & audience (public too)
- EC sees consequences as
  - Move to open access
  - Increased speed of publication
  - Changes to peer review

# EC: Science 2.0 to Open Science





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# Open Science and Publishers

- Science evolves bottom up not top down
- Fundamentals of research process unchanged in “open” science, not yet any new paradigms for publication
- Publisher initiatives such as DOI, ORCID, article of future, facilitating TDM are appropriate enabling responses, but...
- Stakeholder discussions that include publishers over big data and data citation essential