SESSION

Tools for Transparency and Open Access

June 26, 2020 | 15:00–16:30 CEST

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Session Ground Rules

- **This session is recorded.** We'll share the recording and slides afterwards.
- **Questions for the speakers ?** Type them in the **Attendee Chat** on the left side of the screen. The chair will address these at the end of the session.
- **Technical issues.** Check your **settings** as well as your **internet connection**. No luck? Try to rejoin by closing your tab and reusing the link provided.

Thank you for your attention and enjoy the session!

LIBER 2020 ONLINE

SESSION

Tools for Transparency and Open Access

The session will be chaired by Simone Kortekaas, Wageningen University and Research – Library, The Netherlands

- Transparency, provenance and collections as data: the National Library of Scotland's Data Foundry Sarah Ames, National Library of Scotland, United Kingdom
- Library Toolkit for Open Access: Impacts and implications Maurits van der Graaf, Pleiade Management & Consultancy, The Netherlands
- SPEED TALK – An OER for Early Career Researchers to improve Skills on Sharing and Publishing Nicole Krüger; Dr. Tamara Pianos, ZBW – Leibniz Information Centre for Economics, Germany

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Transparency, provenance and collections as data: the National Library of Scotland's Data Foundry

Dr Sarah Ames
Digital Scholarship Librarian
National Library of Scotland
@semames1 | #NLSdata

This talk

Digital Scholarship at the National Library of Scotland

Practical work involved in turning collections into data

How we are promoting and embedding transparency in our practice

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The Digital Scholarship Service

The use of computational methods with National Library of Scotland collections to enable new forms of research

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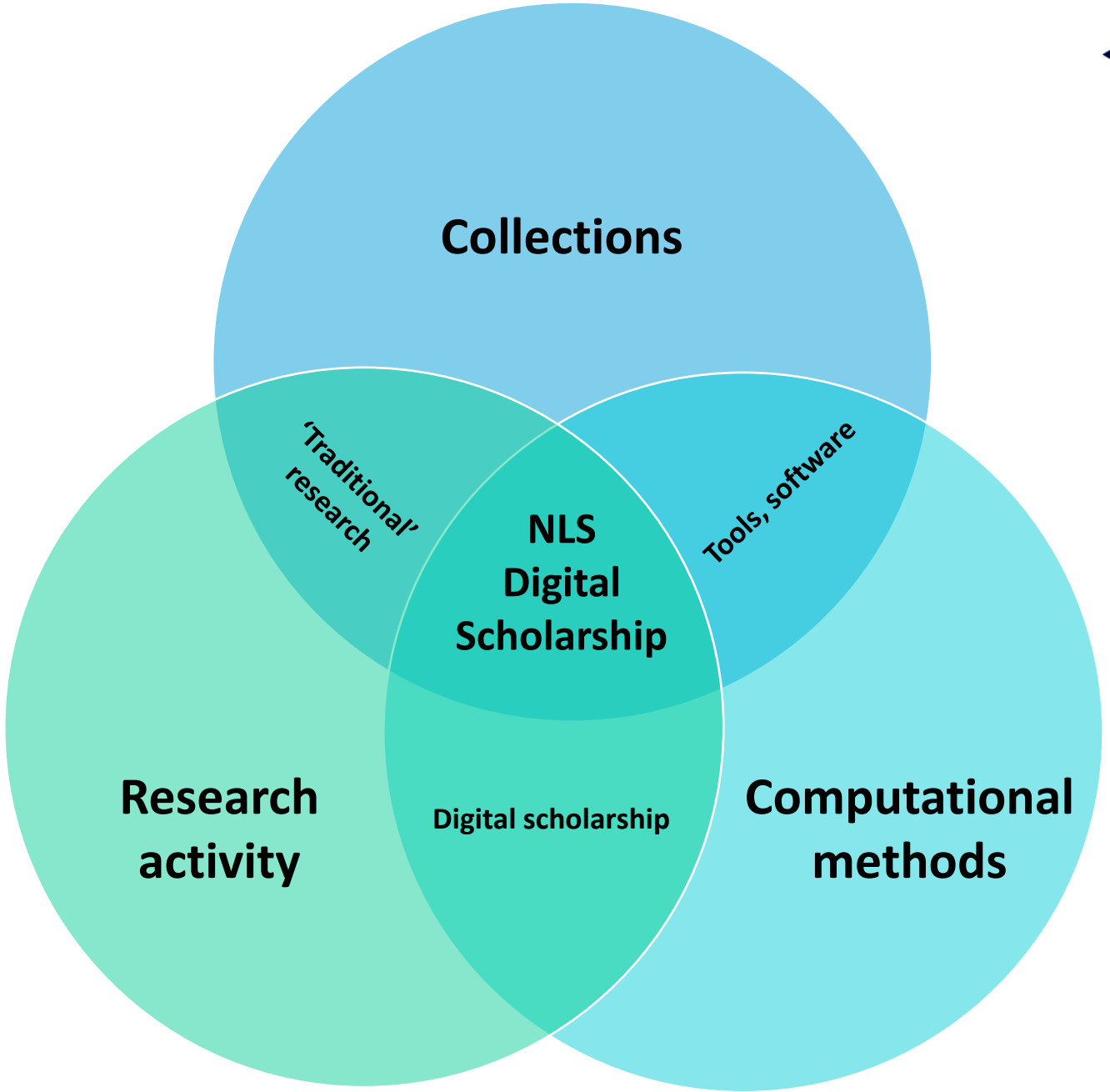

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Digital Scholarship Service

ENCOURAGE, ENABLE & SUPPORT USE OF COMPUTATIONAL RESEARCH METHODS WITH THE COLLECTIONS

ENSURE THAT THE COLLECTIONS ARE USED TO THEIR FULL POTENTIAL

ESTABLISH A LIBRARY CULTURE WHICH UNDERSTANDS DIGITAL SCHOLARSHIP

PRACTISE AND PROMOTE TRANSPARENCY IN OUR DATA CREATION PROCESSES

ANTICIPATE THE FUTURE OF RESEARCH

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ANTICIPATE THE FUTURE OF RESEARCH

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Service levels

Level 1: self-service (data, tools)

Level 2: self-service plus consultation time

Level 3: funded service – partnership/collaboration

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Why ‘service’?

‘Digital humanities in the library isn’t a service’ (Muñoz 2012)

http://trevormunoz.com/notebook/2012/08/19/doing-dh-in-the-library.html

- However:
  - Pragmatics: ‘Service’ vs ‘Project’, ‘Programme’
  - Collaboration often builds on some level of underlying service provision
  - Some users want DIY

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1. Making data available

TEXT

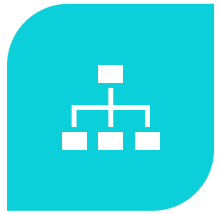
IMAGE

METADATA

AUDIOVISUAL

MAPS

WEB ARCHIVE



CORPORATE

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2. External engagement

Collaboration

Projects

PhDs, residencies, fellowships

Beyond research community

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3. Internal engagement

- Awareness
- Training
- Champions
- Culture

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Collections as data

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Identifying user needs

Pro	Intermediate	Beginner
All the tech skills! Will find a way to get the data no matter how presented But – has expectations of existing standards (where they exist) & consistency	Limited tech skills Understands value of different formats and approaches for research questions: theoretical rather than practical understanding Wants to get hold of the data easily to check what's there Will employ an RA to do the work	No tech skills Wants to use online tools to explore datasets Just wants the text

Plus broader audience includes other libraries (standards, presentation of data etc)

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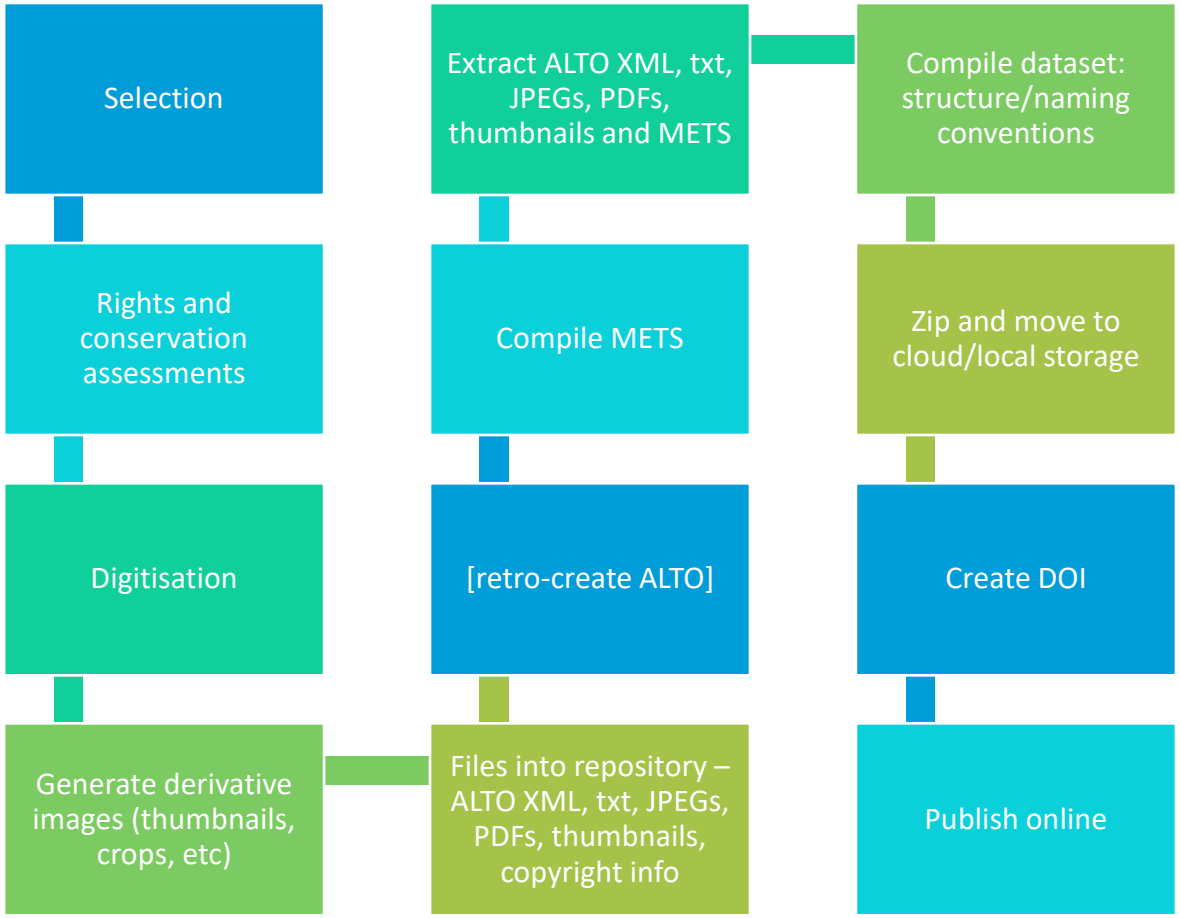
Changing processes: digitisation to data



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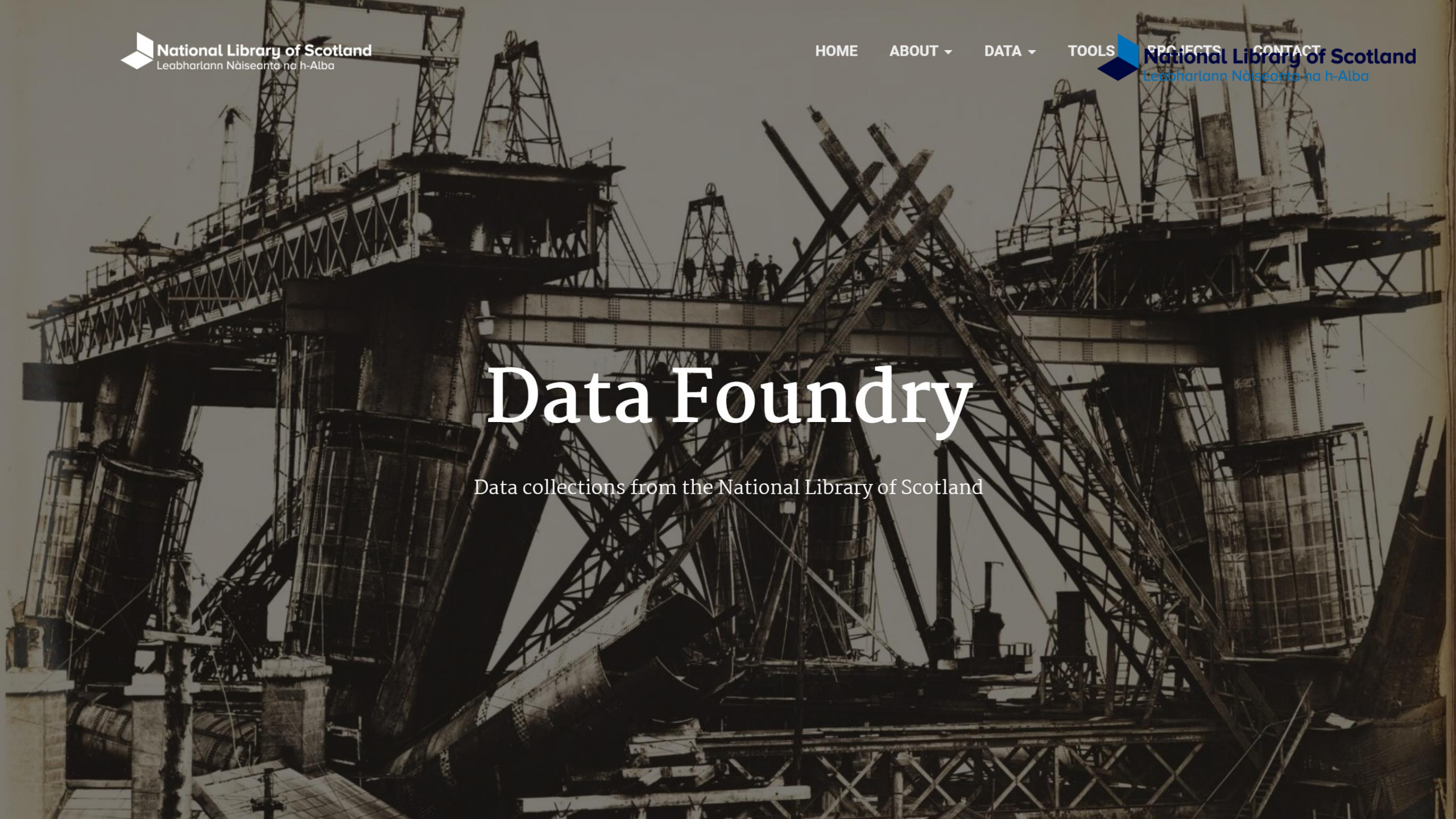
Making decisions

- Standards:
  - METS/ALTO and Plain text
  - MARC/Dublin Core
  - Tiered downloads
- Image sizes/quality to include
- Storage (local/cloud)
- Selecting the first five datasets
- What metadata to include and what is available
- How to be transparent: gathering and presenting dataset context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HOME
ABOUT
DATA
TOOLS
PROJECTS
CONTACT
National Library of Scotland
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Data Foundry
Data collections from the National Library of Scotland

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A whole-Library effort

- Developers
- Curators
- Digitisation
- Metadata
- Rights
- Access
- External Relations

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Embedding transparency in our practice

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The value of transparency

- Open practices: conveying processes, transformations, decision making
- ‘Reproducible research’
- Acknowledging and reducing bias
- Providing counter-narratives

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Our principles

National Library of Scotland data

Open

The National Library of Scotland publishes data openly and in re-useable formats.

Transparent

We take the provenance of our data seriously, and are open about how and why it has been produced.

Practical

We present datasets in a variety of file formats to ensure that they are as accessible as possible.

1. Communicating transparency

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Shining light on invisible labour

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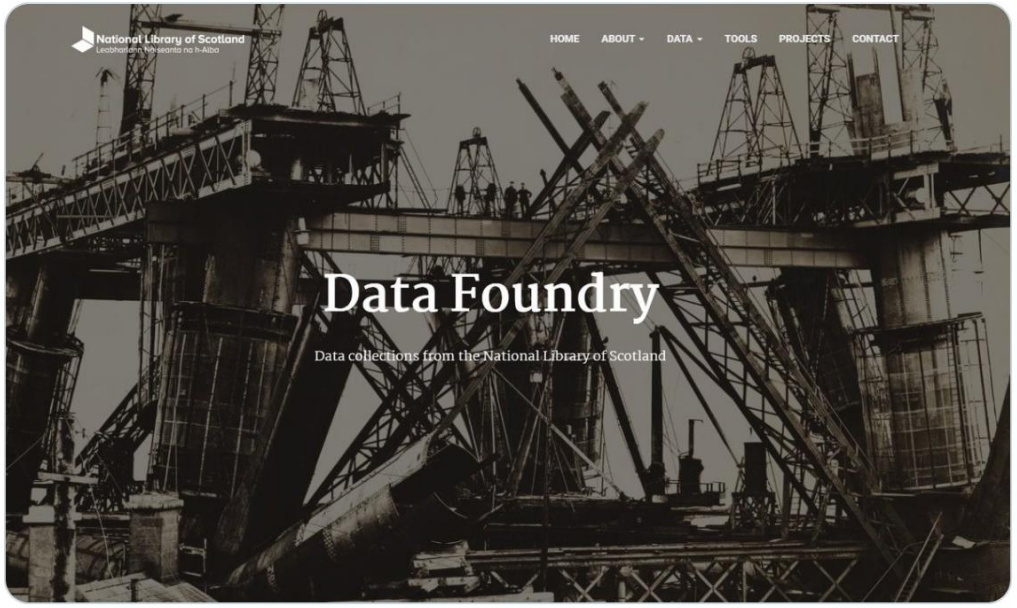
@natlibscot

Today for #DayofDH2020 we'll be tweeting about our Data Foundry data.nls.uk and taking you behind the scenes to explain how we turn collections into data.

#NLSdata #dayofdh



1:44 PM · Apr 29, 2020 · Twitter Web App

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@natlibscot

The Data Foundry is the home to the Library's 'collections as data' – where you can find our collections in machine-readable form.

#NLSdata #dayofdh #dayofdh2020

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otland

2020 we'll be tweeting about our s.uk and taking you behind the scenes to explain how we turn collections into data.

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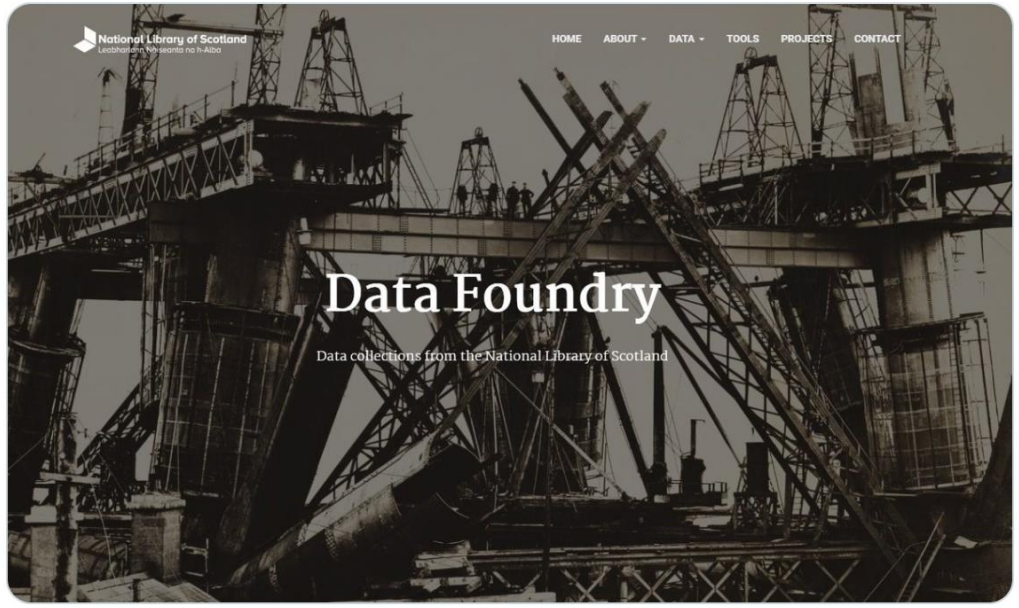

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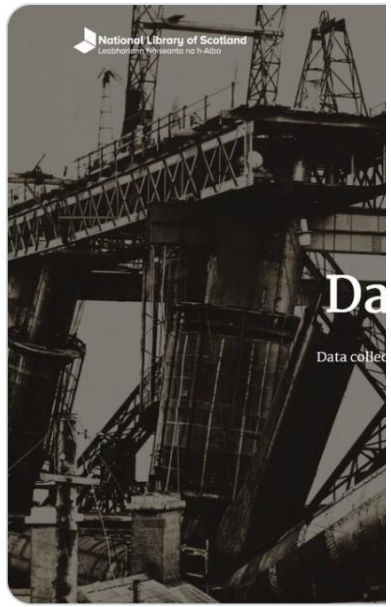

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Making collections available as data is a Library-wide effort. Our curators select items to digitise. Our Rights Team assesses permissions and the Conservation Team ensures that items are in the right condition for digitisation.

#dayofdh2020 #dayofdh #NLSdata

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The Data Foundry is the home to the Library's 'collections as data' – where you can find our c(

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Our Collections Support team locate and deliver items to our digitisation studio, where the Digitisation Team 'captures' material. The digital images are then converted into text. These images and text are then stored and preserved.

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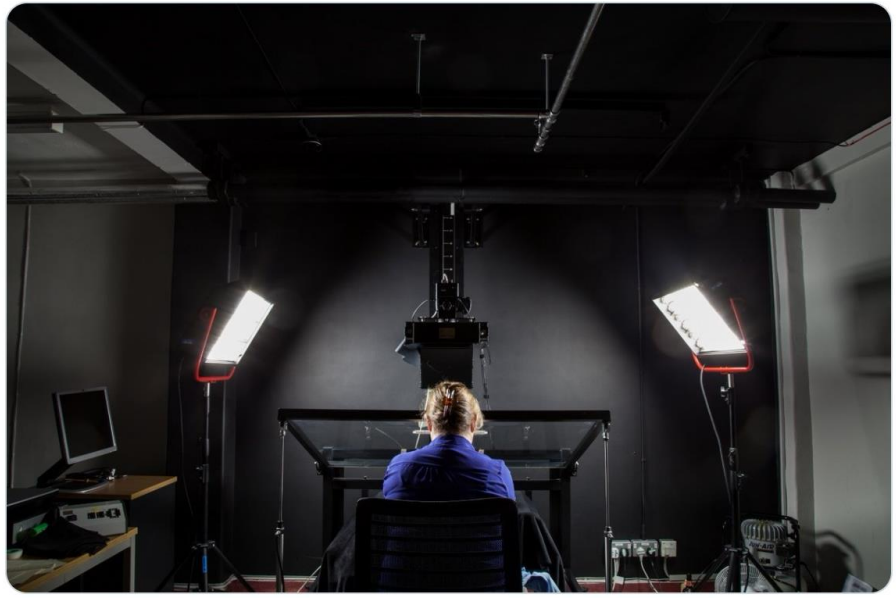

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The Metadata Team creates descriptions for the items. And our Developers work hard to pull together metadata from multiple systems to package the collections up as complete 'datasets'.

#dayofdh2020 #dayofdh #NLSdata

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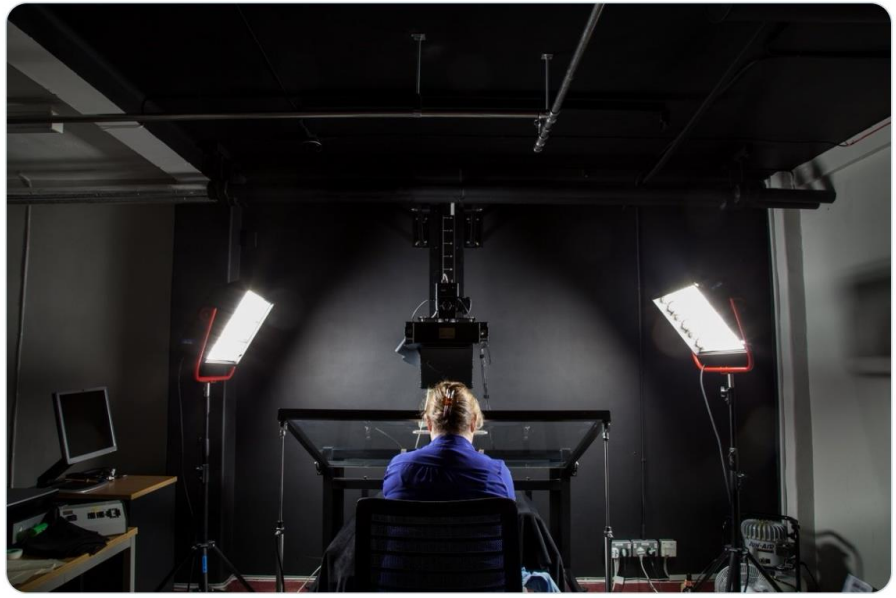

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A full dataset includes: image files, ALTO XML (the positioning of words on a page) and METS files (bibliographical information, technical information about the digitisation process and rights information). More here > data.nls.uk/about/standard...

#NLSdata #dayofdh2020 #dayofdh

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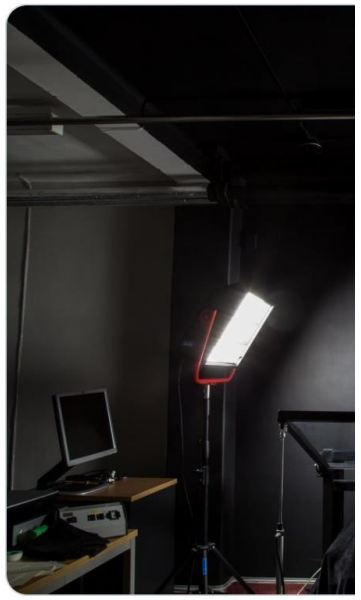

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Being open and transparent about the digitisation and data-creation process is very important to us, so we include as much information as we can about how items have been digitised, and why.

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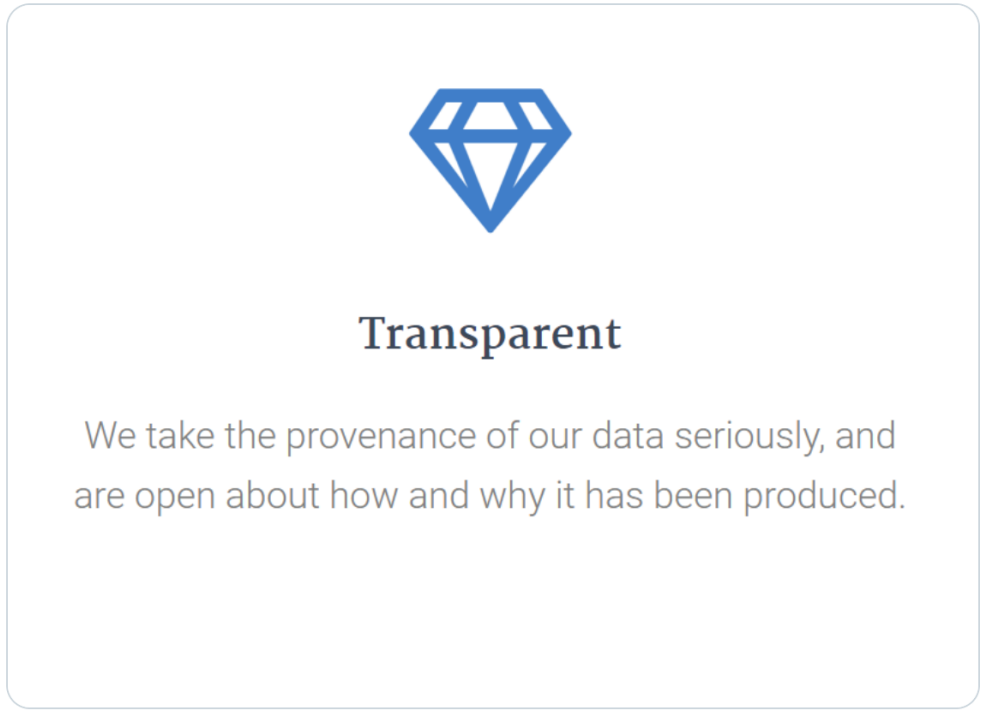

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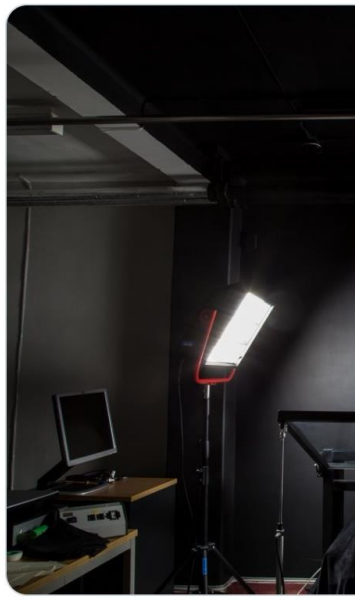

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Some of our datasets are really big, with many millions of words and thousands of files, so we store them in the cloud. We also make smaller sample downloads available, together with just the text files.

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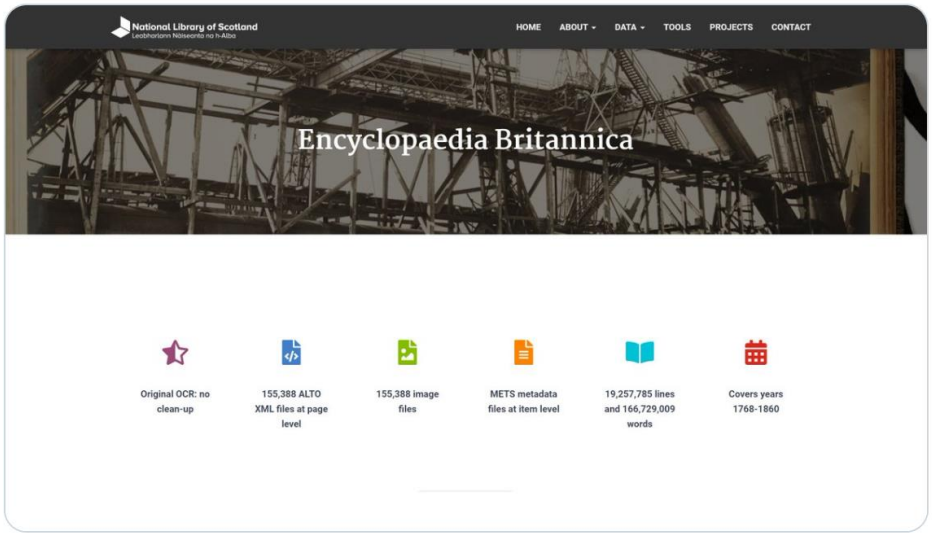

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When we publish the dataset, we give it a DOI (Digital Object Identifier). This provides a more stable link than a URL, and is a permanent form of identification for the dataset.

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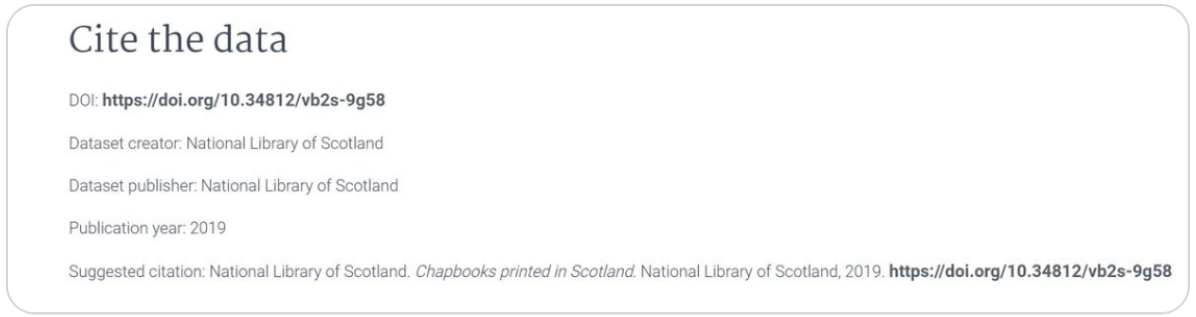

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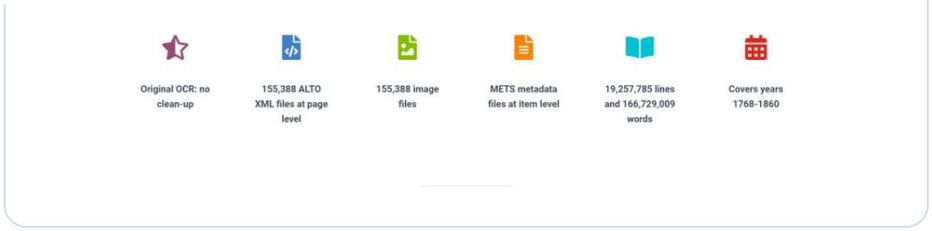

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Making collections available as data enables new and exciting uses of the collections, from academic studies to artistic works. Take a look at some exciting and novel projects using #NLSdata > data.nls.uk/projects

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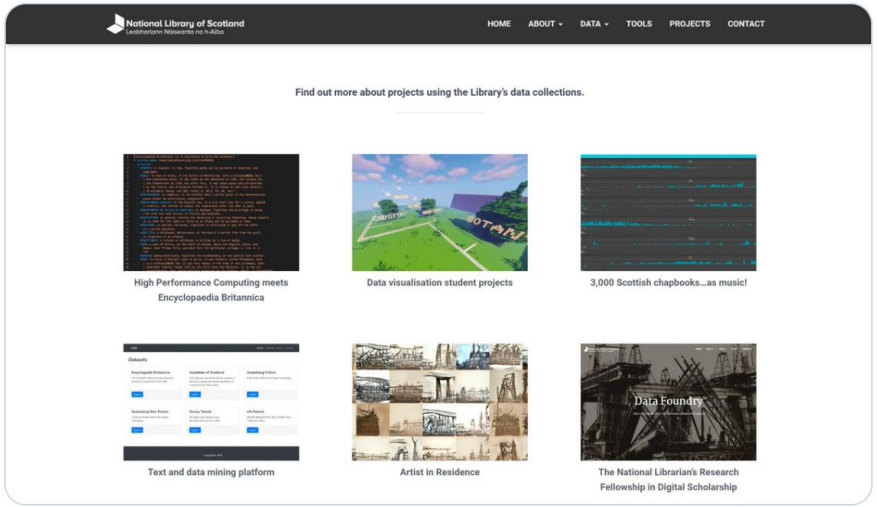

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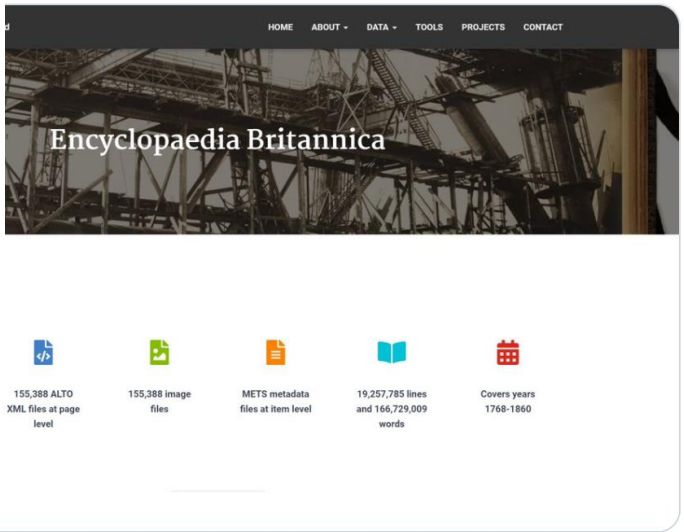

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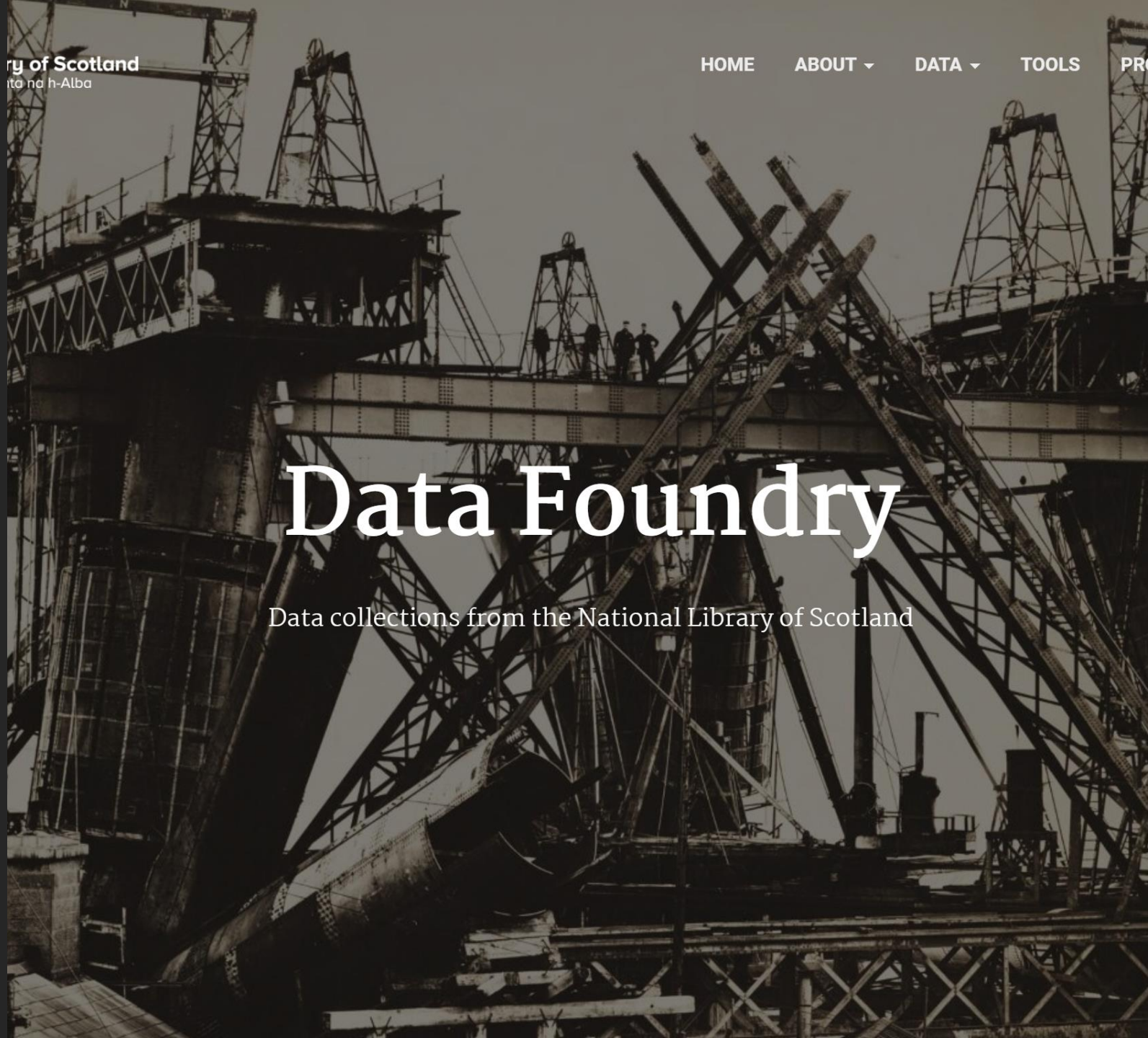
Conferences

2. Value of clarity in online presentation of data



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Open Data Publication Plan

Open Data Plan

- Level of open data (3*)
- Formats
- Where we publish data
- Frequency of publication
- Open Data Register

https://data.nls.uk/about/

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Encyclopaedia Britannica

Original OCR: no clean-up

155,388 ALTO XML files at page level

155,388 image files

METS metadata files at item level

19,257,785 lines and 166,729,009 words

Covers years 1768-1860

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Rights information

Encyclopaedia Britannica: up to 1853

Items in this collection up to 1853 are free of known copyright restrictions. For details visit the Library's **copyright page**.

Encyclopaedia Britannica: 1854–1860

Items in this collection between 1854 and 1860 are likely to be free of known copyright restrictions. For details visit our **copyright page**.

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Download the data

Trial the data

Download a sample of the dataset for initial evaluation.

File contents: 1 plain text readme file; 832 ALTO XML files; 1 METS file; 832 image files.

File size: 132 MB compressed (220 MB uncompressed)

Download sample dataset

All the data

File contents: 1 plain text readme file; 1 CSV inventory file; 155,388 ALTO XML files; 195 METS files; 155,388 image files.

File size: 23.5 GB compressed (44.0 GB uncompressed)

Caution: large dataset

Download full dataset

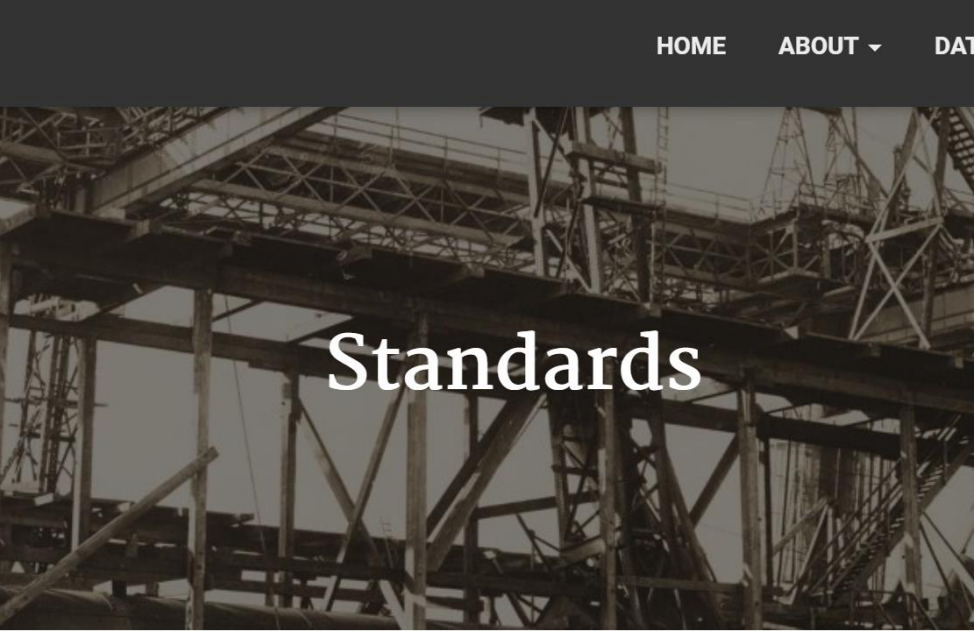
Just the text

File contents: 1 plain text readme file; 1 CSV inventory file; 195 plain text files.

File size: 336 MB compressed (946.88 MB uncompressed)

Download text data

3. Data provenance



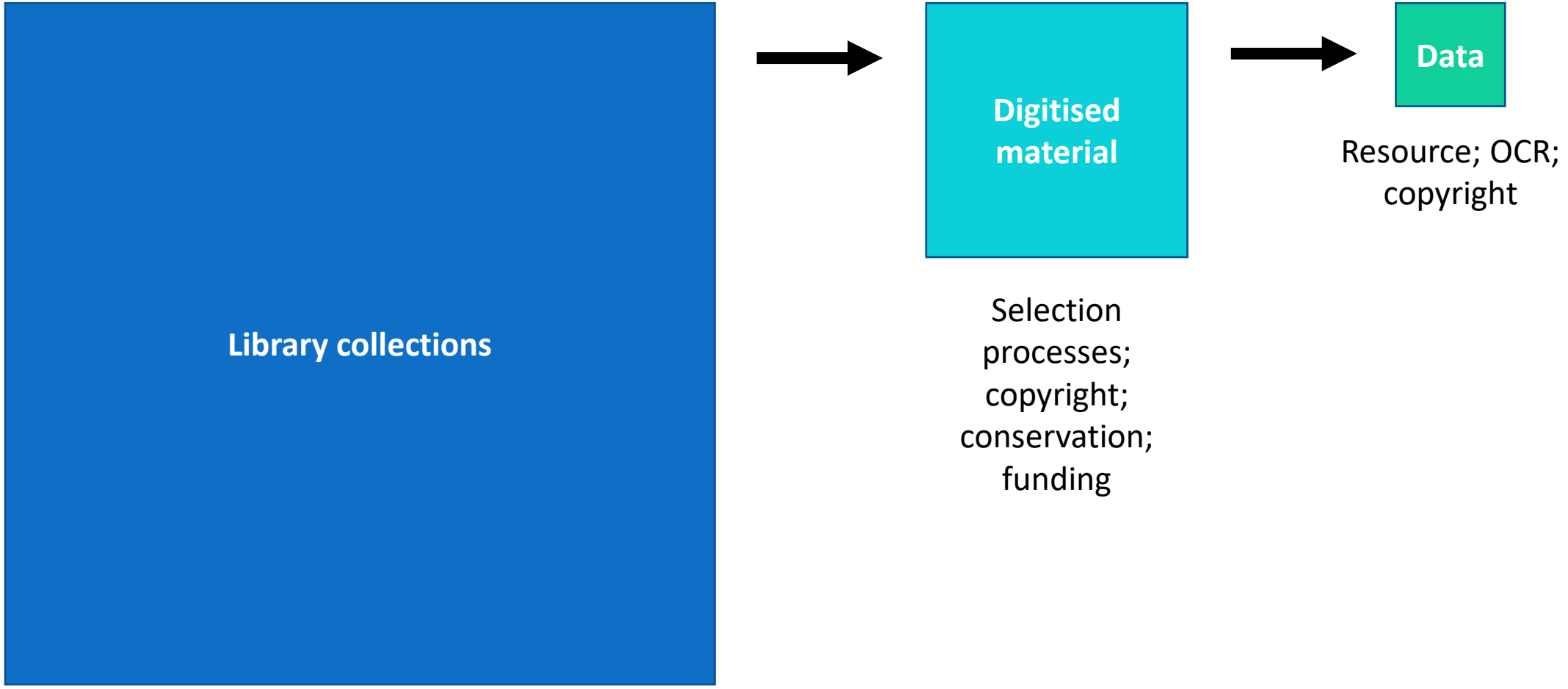
National Library of Scotland
Leabharlann Nàiseanta na h-Alba

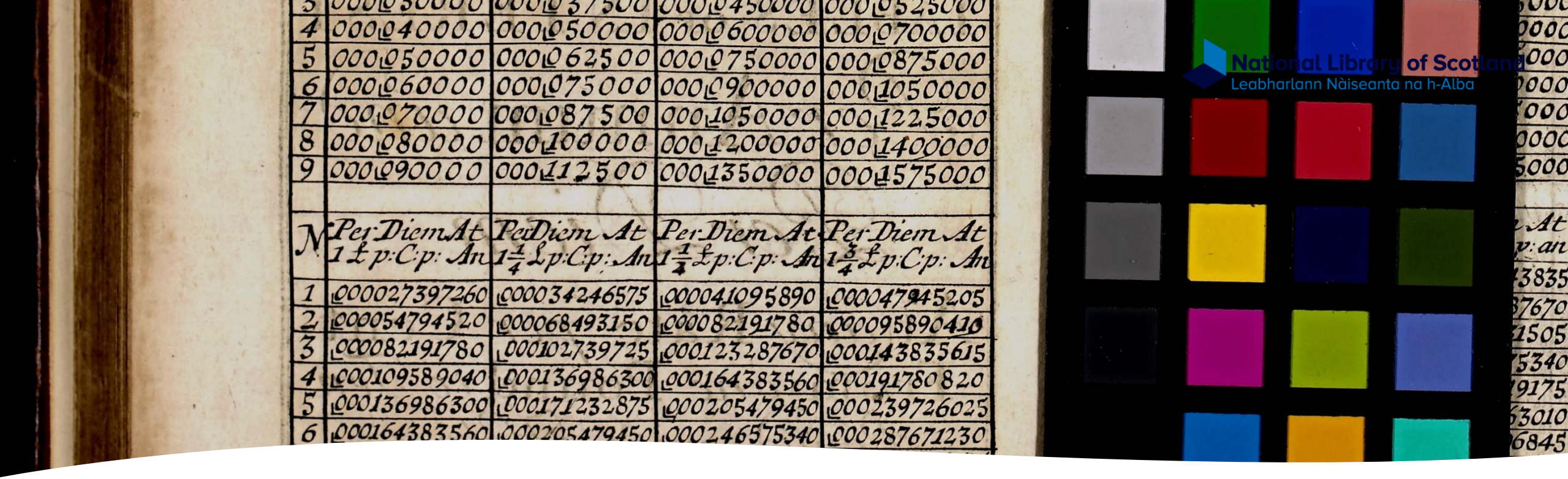
Standards

- https://data.nls.uk/about/standards/
- METS implementation
- Technical provenance information…but what about reasoning and decision making process?

National Library of Scotland
Leabharlann Nàiseanta na h-Alba

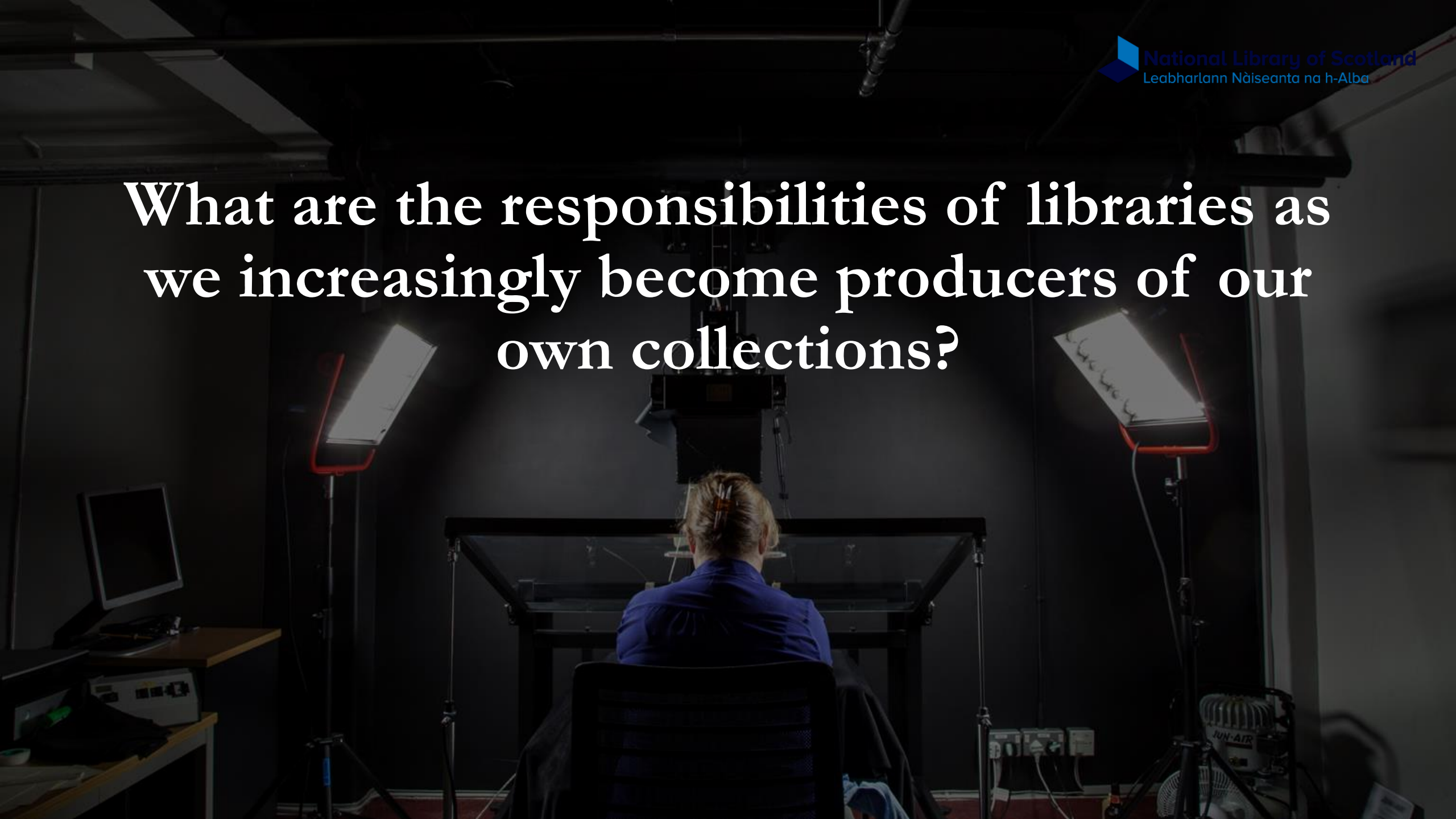
Collections in context?





Contextualising our data collections

- What do we digitise?
- Where?
- Why?
- Who is involved in the selection process?
- What funds it?


National Library of Scotland
Leabharlann Nàiseanta na h-Alba
What are the responsibilities of libraries as we increasingly become producers of our own collections?

National Library of Scotland
Leabharlann Nàiseanta na h-Alba

Thank you!

sarah.ames@nls.uk
@semames1 | #NLSdata

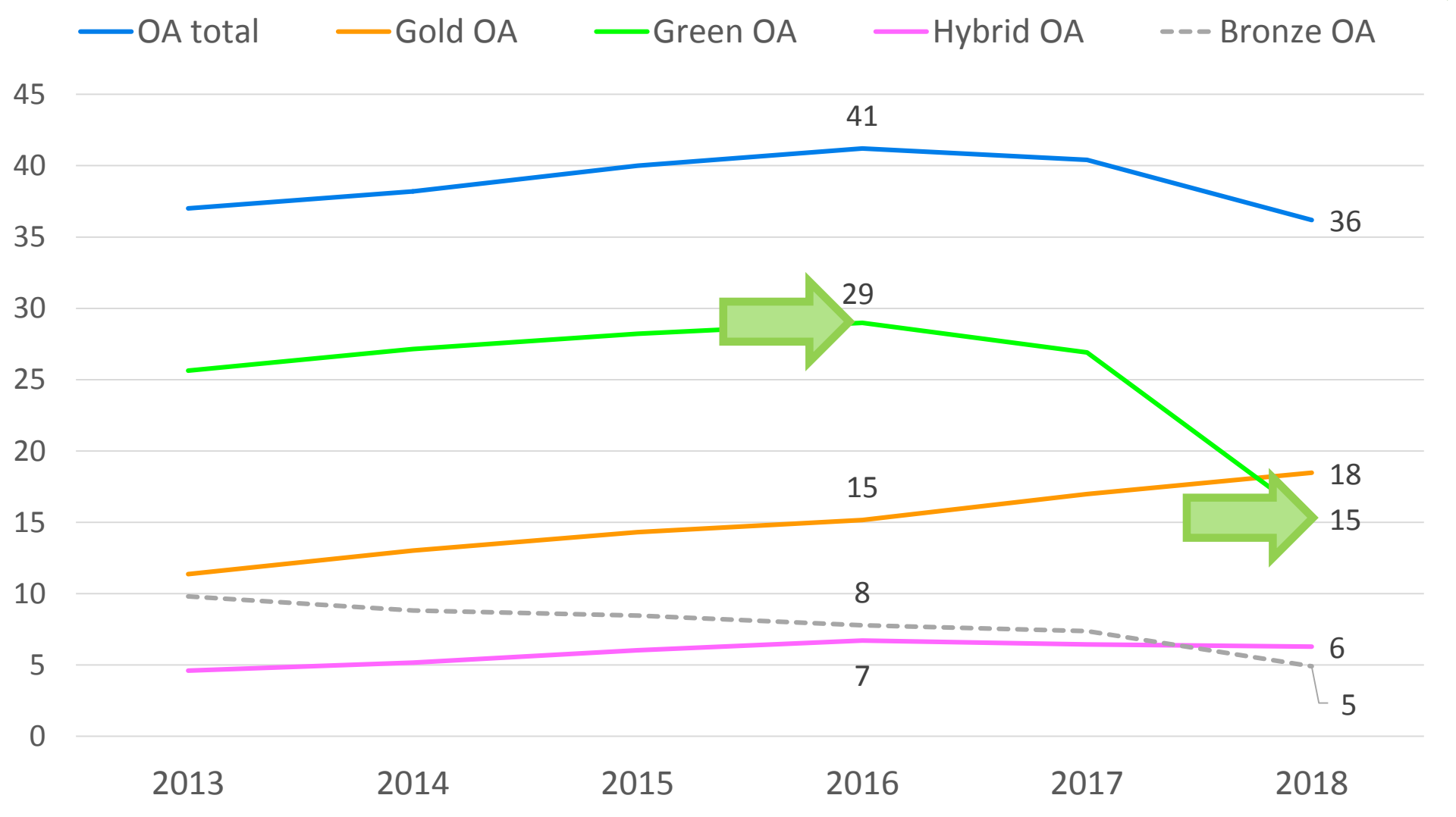
pleiade

LIBRARY TOOLKIT FOR OPEN ACCESS: *IMPACTS & IMPLICATIONS*

LIBER2020: Maurits van der Graaf Pleiade Management & Consultancy

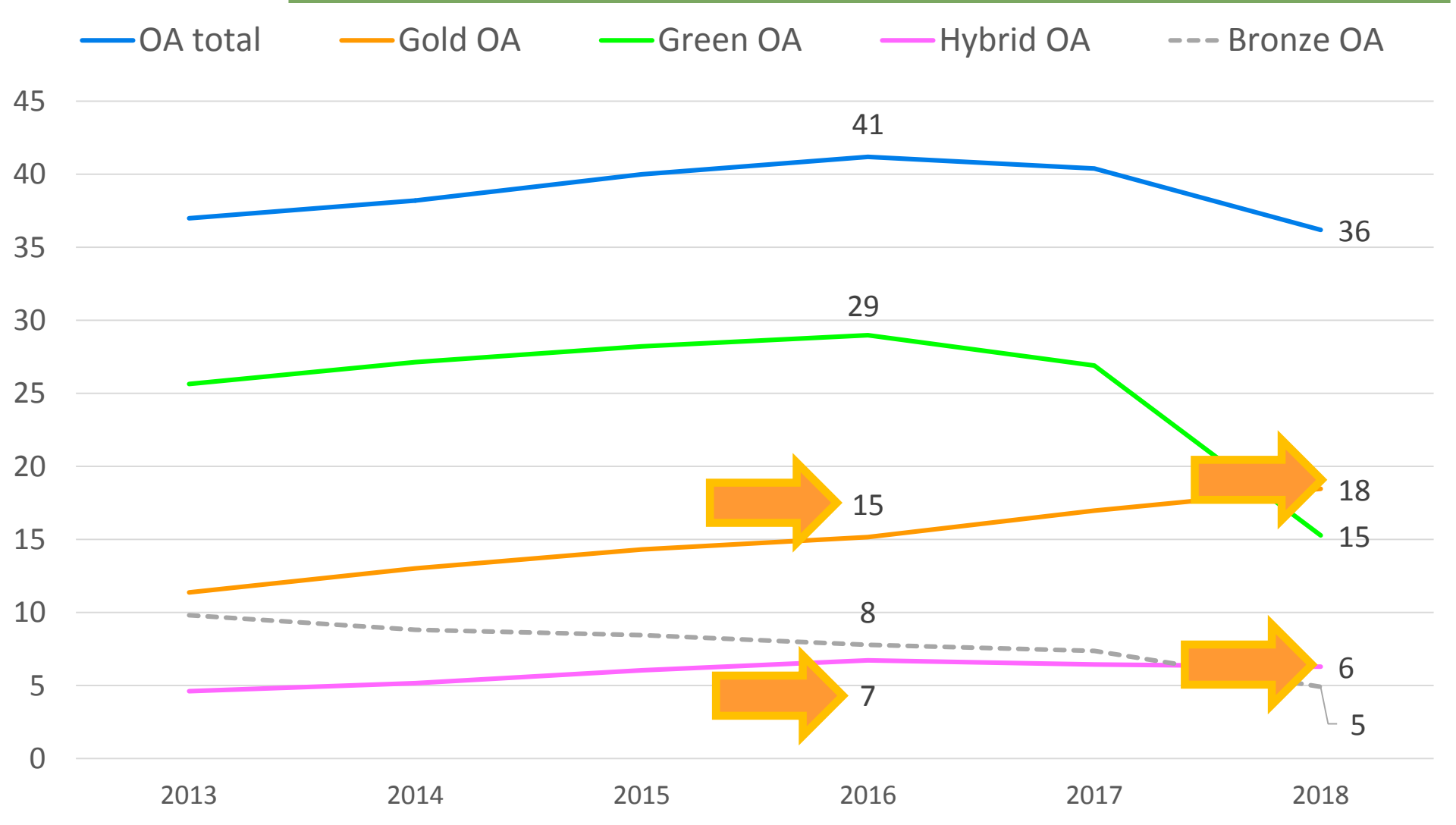
% OA articles per publication year

Data from the European Open Science Monitor (2018)



% OA articles per publication year

Data from the European Open Science Monitor (2018)



% OA articles per publication year

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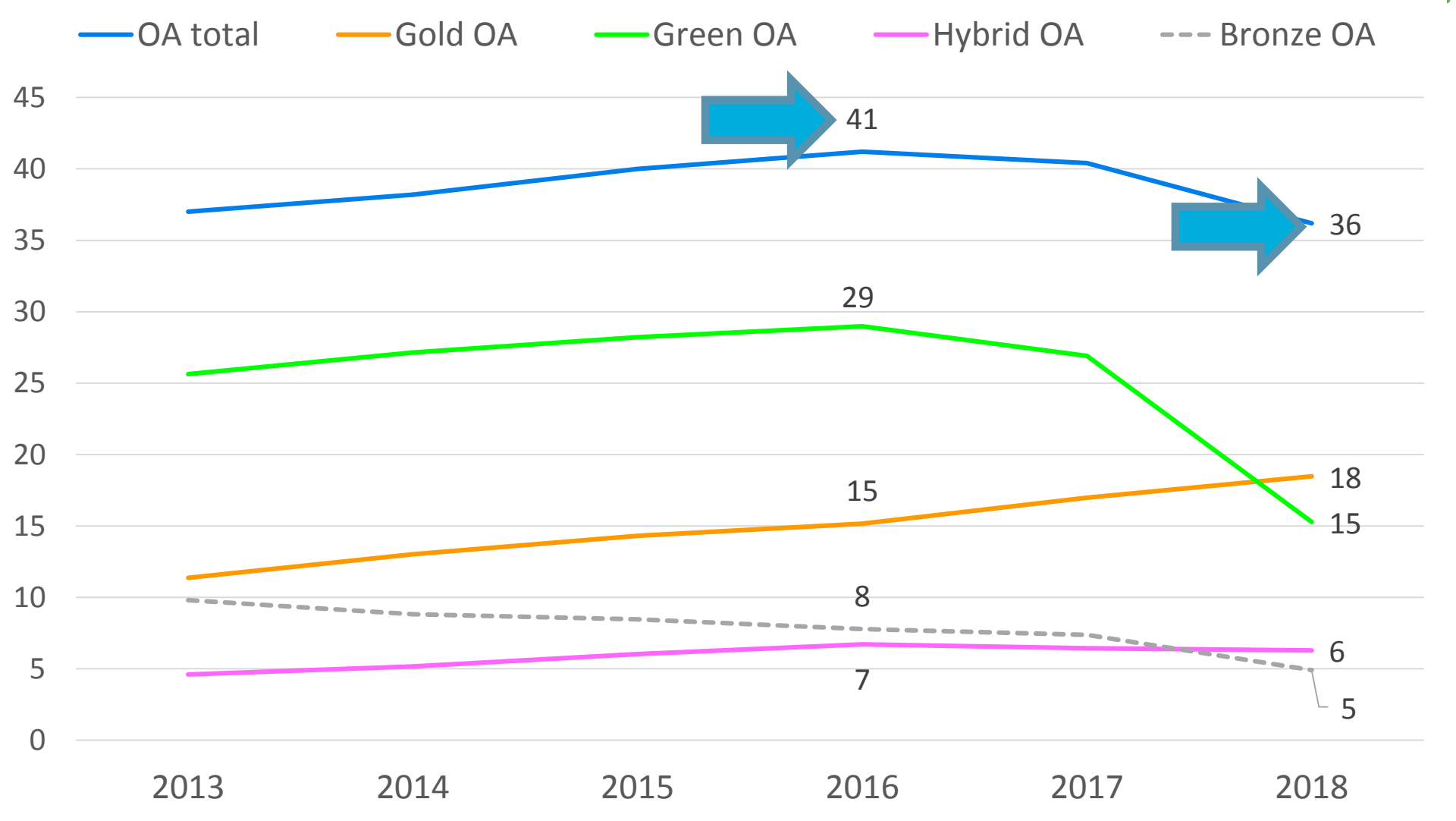


What does this show us?

- Green OA important contribution to OA albeit with a delay
- % Gold and Hybrid OA articles increasing to about 24% of the articles in 2018
- Gold and Hybrid OA articles are for the larger part APC-paid
- % Closed Access articles:
  - 64% of the 2018 articles
  - 59% of the 2016 articles (from the viewpoint of 2018)

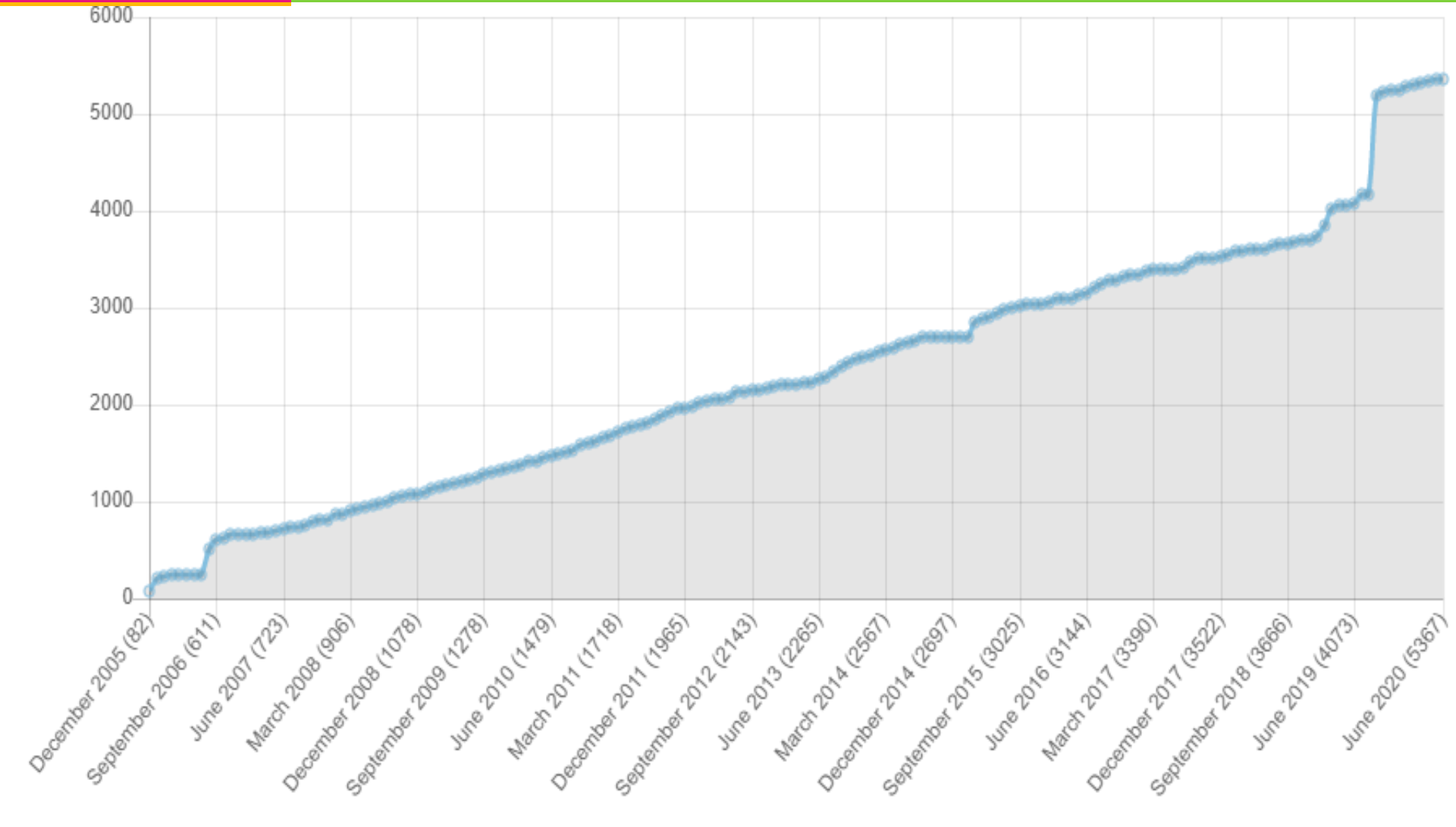
Library Toolkit for OA

focus on Green OA

TRANSFORMATIVE TOOLS IN THE LIBRARY TOOLBOX

Closed access articles in subscription-only journals	**Green OA: institutional repository**
Closed acces articles in hybrid journals	
APC OA articles in OA or hybrid journals	APC-funds Transformative agreements
APC-free journals	Support by libraries

5367 REPOSITORIES [OPENDOAR;6-6-2020]
GROWTH 2005 - NOW



Impact of green OA

Tools:

- 5367 repositories, mostly institutional

Impact:

- Publishers' response: 82% of publishers allow self-archiving [Sherpa-Romeo]
- 29% of 2016 journal articles available via Green OA [Open Science Monitor]

Library Toolkit for OA

focus on APC-gold OA

TRANSFORMATIVE TOOLS IN THE LIBRARY TOOLBOX

Closed access articles in subscription-only journals	Green OA: institutional repositrory
Closed acces articles in hybrid journals	
APC OA articles in OA or hybrid journals	**APC-funds** **Transformative agreements**
APC-free journals	Support by libraries

APC FUNDING SOURCES

Institutional funds

Research funder

- **Library funds and library-managed funds:**
  - Transformative agreements
  - Institutional OA-funds and so-called ‘block grants’ (UK)
- **Researchers’ discretionary budgets**:
  - Researchers’ discretionary (institutional) budgets
  - Author’s personal funds
  - Co-author(s) funds
- **Research funders:**
  - OA allocations from a research grant
  - Funds from a research grant not dedicated to OA

APCs and authors

Survey among 1014 authors; Monaghan 2020

Funding sources		APC payments
54% of the authors used 1 provider of funding	• 20% institution funding • 19% research funder • 15% other funding sources	• **50%**: institution paid • **28%**: author paid • **9%**: research funder paid • **10%**: co-author arranged payment • 6%: other/don't know
46% of the authors used > 1 provider of funding	• 9% institution + research funder • 10% institution + other sources • 9% research funder + other funding • 18% institution + research funder + other sources	

Four models for libraries regarding APC's

A: SEPARATE FINANCE STREAMS

Subscription journals paid for by the library/institution

APCs paid by authors, mostly out of research grants

- Research registration system and repositories (Green OA)
- No transformative agreements ("the library cannot do it alone")
- Sometimes OA monitoring

B: OA FUND TO FILL THE GAP

- Research registration system and repositories (Green OA)
- **OA fund for authors without research grants – often limited to Pure Gold journals** Sometimes OA monitoring

D: LIBRARY IN THE LEAD: TRANSFORMATION OF THE LIBRARY BUDGET

OA articles based on publishers' deals paid for by the library/institution	OA fund by library for not-covered articles	APCs paid by researchers out of research grants for journals not covered by publishers' deals

- **Transformative agreements**
- **Library OA fund**
- OA monitoring
- **Institution-wide APC tracking**
- Research registration systems/repositories

C: RESEARCH FUNDER IN THE LEAD: COMPLIANCE IS KEY [UK]

OA articles based on publishers' deals paid for by the library/institution	OA fund by library for not-covered articles	APCs paid by research funders out of block grants managed by the library for journals not covered by publishers' deals

- **Transformative agreements**
- **Block grants from research funders; sometimes also an additional library OA fund**
- OA monitoring
- **Institution-wide APC tracking**
- Research registration systems/repositories

Closer look at model c/d: the tale of the frontrunners

Impact and implications (1)

- A few frontrunners expect that with agreements with the top-20 publishers about 70% of the articles produced by their university will be covered
- Additional mechanisms are needed in case the library wants to cover the other 30%: articles published by the long tail of smaller publishers
- The same frontrunners report the need for 2 to 4 FTE extra staff for handling the related workflows

Impact and implications (2)

New workflows and services:

- Controlling publishers' deals: eligibility checks & monitoring uptake
- Institution-wide tracking of APCs
- Management of OA fund and/or block grant
- OA monitoring using bibliographic databases
- Also: tools to inform authors of transformative agreements

Impact and implications (3)

Fundamental changes:

- Submission and acceptance process is between publishers and authors: libraries need to be informed in time
- Journal acquisition budget becomes an article publishing budget
- The Stockholm University library has stated this explicitly: ‘the aim is a gradual and cost-efficient reallocation of the acquisition budget to pay for publishing rather than subscriptions’

Improving the library toolkit: conclusions and outlook

The WHY: *business case for OA support by libraries*

Piwowar 2019

Piwowar 2018

- **60% more views for OA** articles in comparison to Closed Access articles
- **18% more citations for OA** articles in comparison to Closed Access articles
- *Thus:*

1. *OA publishing gives a university a clear competitive edge by the enhanced visibility of its research and its researchers during the OA transition.*
2. *The OA toolkit of the research library will align the library with the objectives of the university*

Conclusion (1): European landscape favours R&D/P deals

- Model C/D: reality at relatively few research libraries
- APC market is so far partially (directly or indirectly) funded by research funders
- Read & Publish (hybrid journals) or Publish-licenses (APC-OA journals) will shift the financial burden of these APCs to the library
- Therefore, sharing the financial burden with research funders often necessary
- Feasibility depends on national landscape of research funders: the European landscape makes this feasible

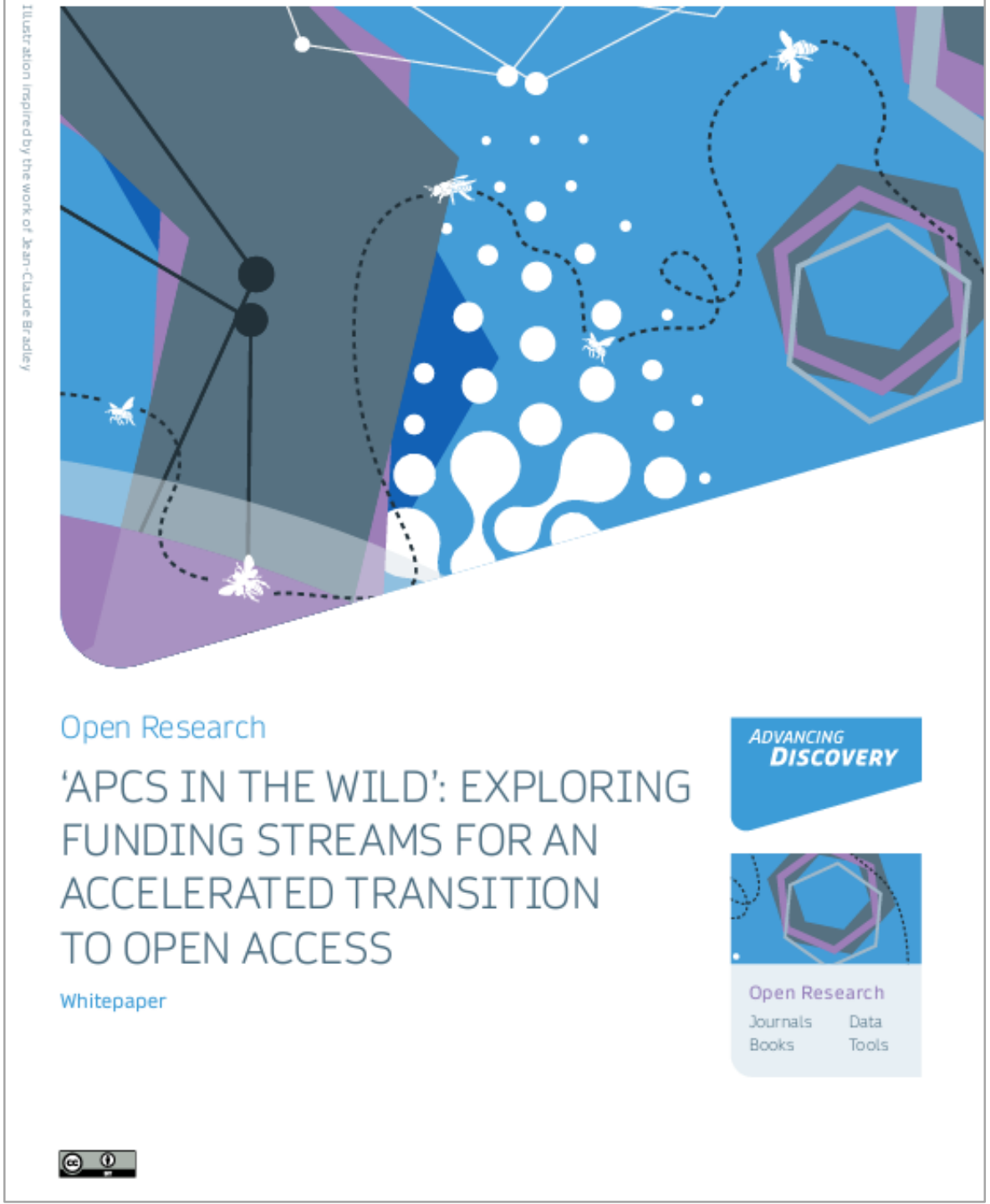
Conclusions (2): next steps

- Green and Gold both add value to OA transition
- LIBER vision of predominant OA in 2022 can be reached (but maybe a few years later)
- For this next steps are needed:
  - more R&P agreements and P agreements
  - mechanisms for R&P/P for long tail publishers
  - library support for APC-free OA journals [SSH disciplines]: ‘subscribe to OA’, library publishing,…

Outlook

- Financial participation of research funders in transformative agreements often necessary
- Call for publishers to inform libraries *in time* of articles submitted/accepted
- APC-market moves from author-market to institutional market (less 'APCs in the wild')
- Transformative agreements will also transform the libraries regarding:
  - Journal collections
  - Journal acquisition procedures

Monaghan et al; 2020



An OER for Early Career Researchers to improve Skills on Sharing and Publishing

Tamara Pianos & Nicole Krüger
ZBW – Leibniz-Information Centre for Economics

Session #9 – Tools for Transparency and Open Access

LIBER 2020 Online - Building Trust With Research Libraries
June 26, 2020

ZBW – Leibniz-Information Centre for Economics

2 sites
> in Hamburg and Kiel / Germany

National research infrastructure

Economics and business studies information.

www.zbw.eu

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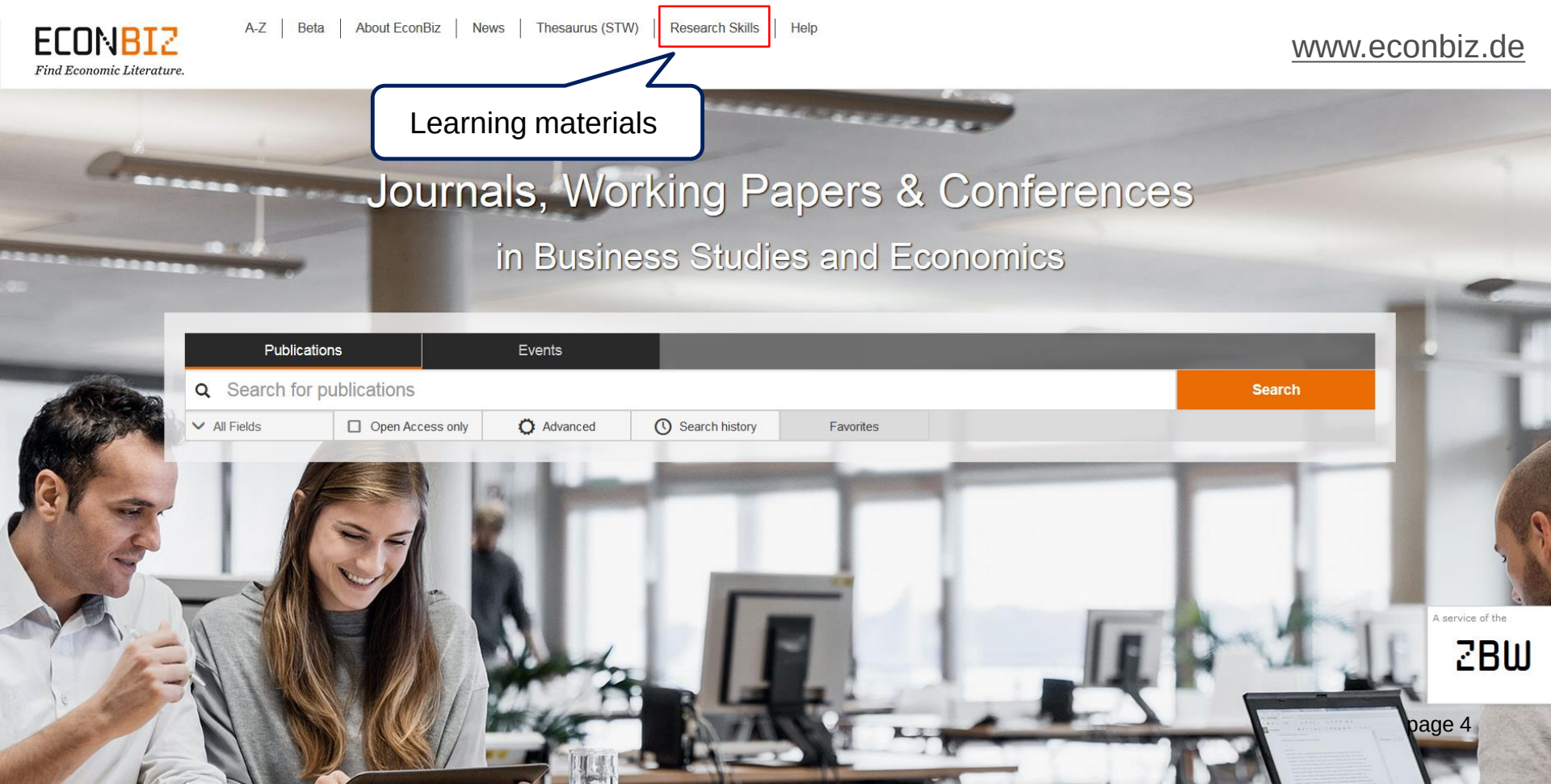
100th anniversary in 2019

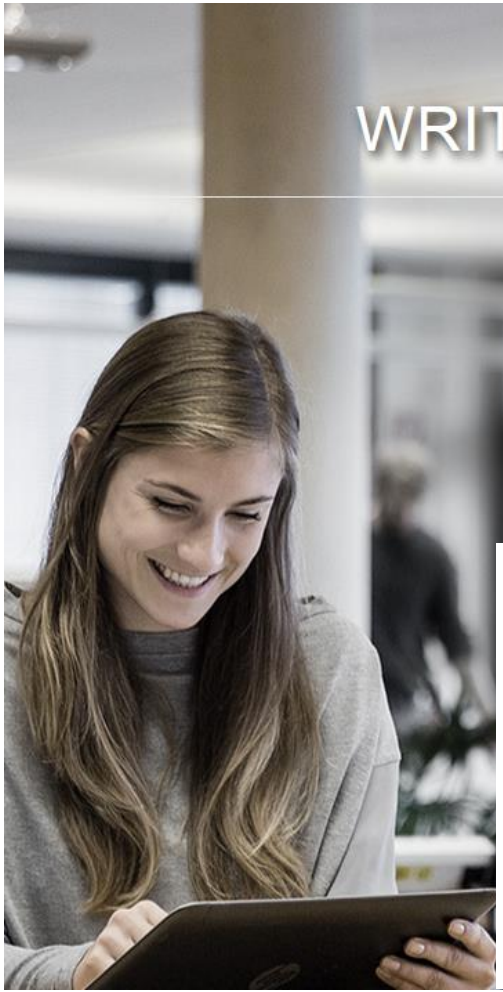
Research in the fields of:
> Open Science
> Web Science

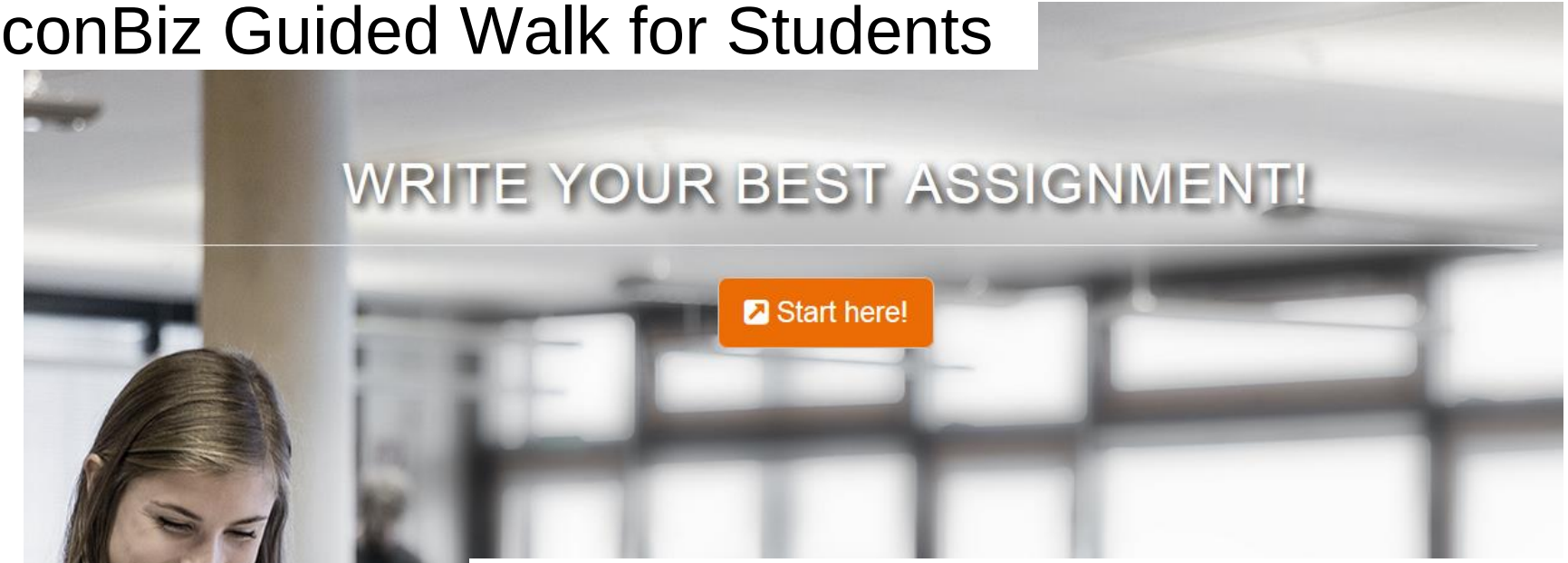
www.zbw.eu

Search Portal EconBiz



EconBiz Guided Walk for Students





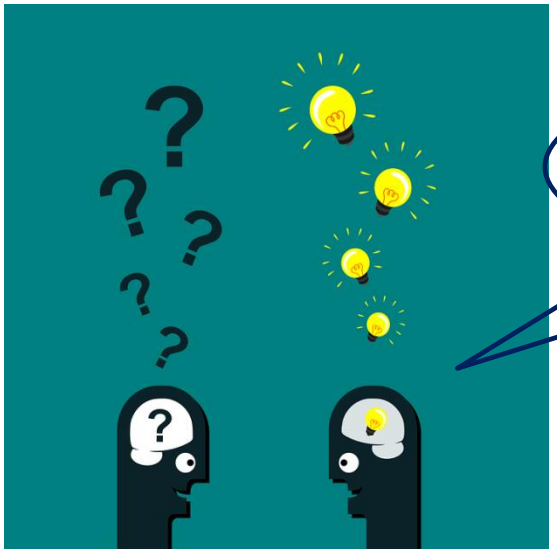
Search and evaluate

Access to full texts

Cite correctly

https://www.econbiz.de/eb/en/gw

A few weeks later ...



Let‘s make it OER!

Barriers

Technical realization

- Typo3
- Bootstrap
- html, css

Contents

- Screenshots
- Covers of Publications

No download option / sharability

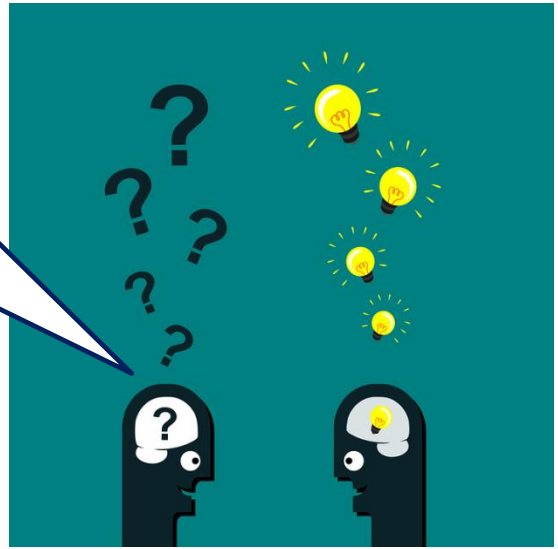
Materials not sharable under CC-BY license

Lessons learned!

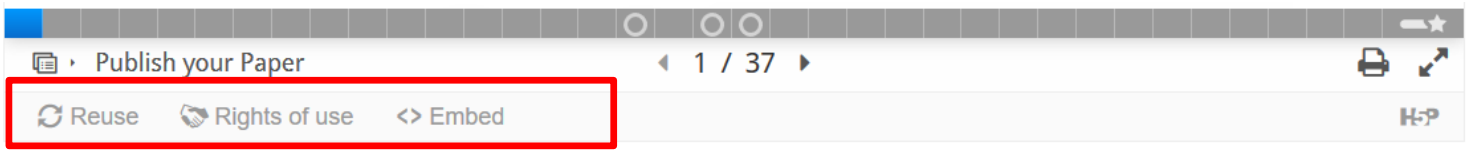
Essential to consider OER from the very beginning – before designing the learning materials.

Technical Platform?

- Open Source
- Interactive content
- Mobile friendly
- Download and Re-use



- Open Source and mobile friendly
- Interactive content elements (Quiz, Drag and Drop, Dialog Cards, Interactive Video, …)
- Download und adapt in **WordPress, Drupal, Moodle, Blackboard, or Typo3** extension (Reuse)
- Or: Embed into websites / learning management environments (Embed)



https://h5p.org

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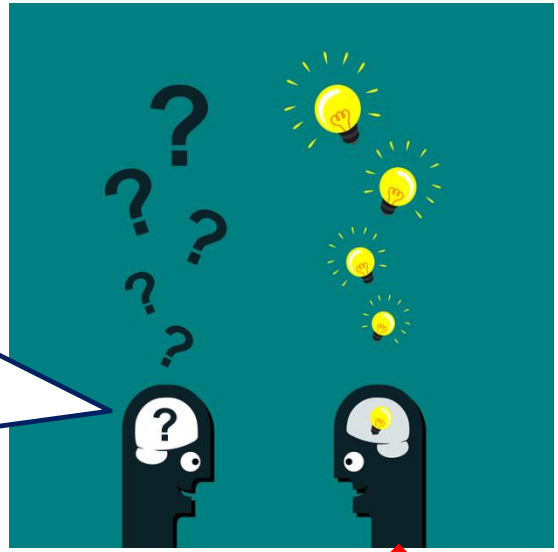
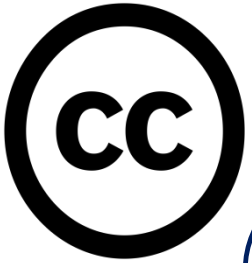
What about fonts, images of persons, screenshots, logos?

CC0 under CC-BY?
→ CC0 materials could be wrongly re-used under CC-BY license.

Publish under CC-BY-NC?



ZBW legal department

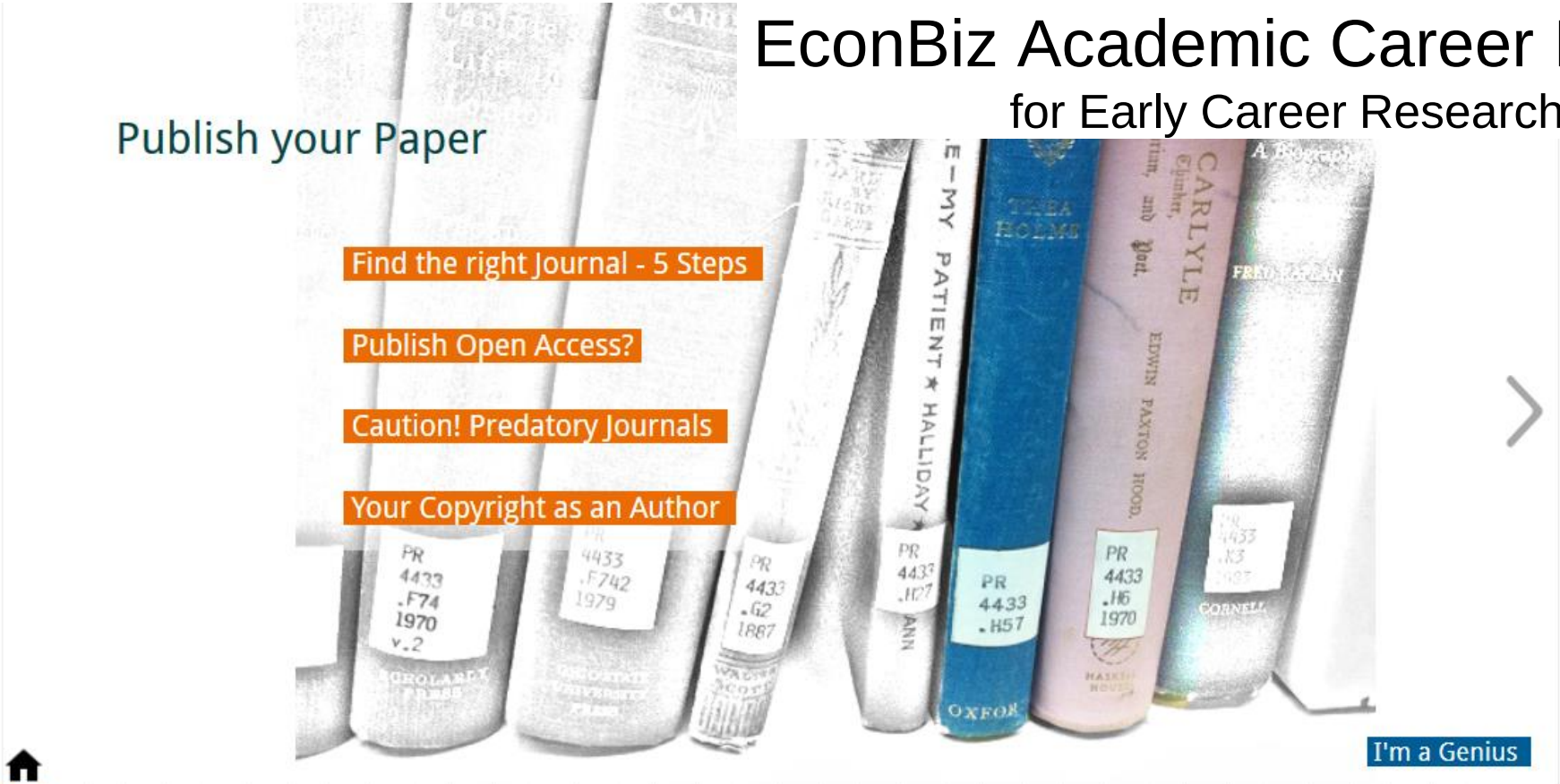


- Only CC licensed images, videos, and fonts or own materials
- No persons displayed in images
- No screenshots
- Disclaimer for logos.
- CC-BY license: CC-BY-NC cannot be shared in portals with ads, …

Legal advice required ...

EconBiz Academic Career Kit

for Early Career Researchers



Can you find clues that indicate a fake journal?

Drag and drop to as many places as you can find!

This seems suspicious

Important Dates

Submission Last Date: 30th July 2018
Acceptance Notification: Within 7 days
Paper Publication: 10th August 2018

Quick Links

Journal Home
Paper Submission
Archives
Current Issue
Editor board

Indexing Details

Index Copernicus

Jour Informatics
Open J Gate

Contact Details

Email [redacted]@submitmails.com
Website: www.[redacted].com

Dear Friends/ Academician/ Authors,

We are highly privileged to inform you that [redacted] is an Online ISSN [redacted] registered leading e-journal with Impact Factor: 2.10, under which we are encouraging and exploring newer ideas of current trends in Engineering and Science by publishing papers containing pure knowledge. With this regards, we invites you to submit research paper for publishing in Volume-8 Issue-07, July - 2018.

[redacted]

· Rapid Publication: Average time [20 days] takes from submission to first decision and acceptance of manuscripts.
· High Visibility: [redacted] is available via many university libraries. Articles are freely and easily available to anyone in developing countries. All articles can be accessed for free.
· Open Access Option: [redacted] is part of online open, which allows authors to access published article anytime and anywhere.
· Full Archive Available: Every issue of Journal of [redacted] is available online from volume 1 issue 1 to the latest published issue with month and year.
· Publication Cost: Very normal charges with additional benefits to publish your articles.
· Impact: A good impact views from all over countries like India, Unites states, Europe, Asia, etc...
With this regard we would like to request you to submit your original research papers for publication.
Articles are invited for Current issue Volume-8 Issue-07, July 2018.

Submit your manuscript to mail id [redacted]@s[redacted]mails.com

Check

Drag and Drop / Quiz

See answer sheet

Fake Journals: Do you find the clues? 17 / 37

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Your Copyright as an Author
(in Germany)

Decision based progress

ZBW assumes no liability and provides no guarantee for the accuracy, completeness and timeliness of the information.

Shoulder to cry on

You'll manage!

It will only get easier.

Soon you will be a published author, just imagine!

Don't worry, you will succeed!

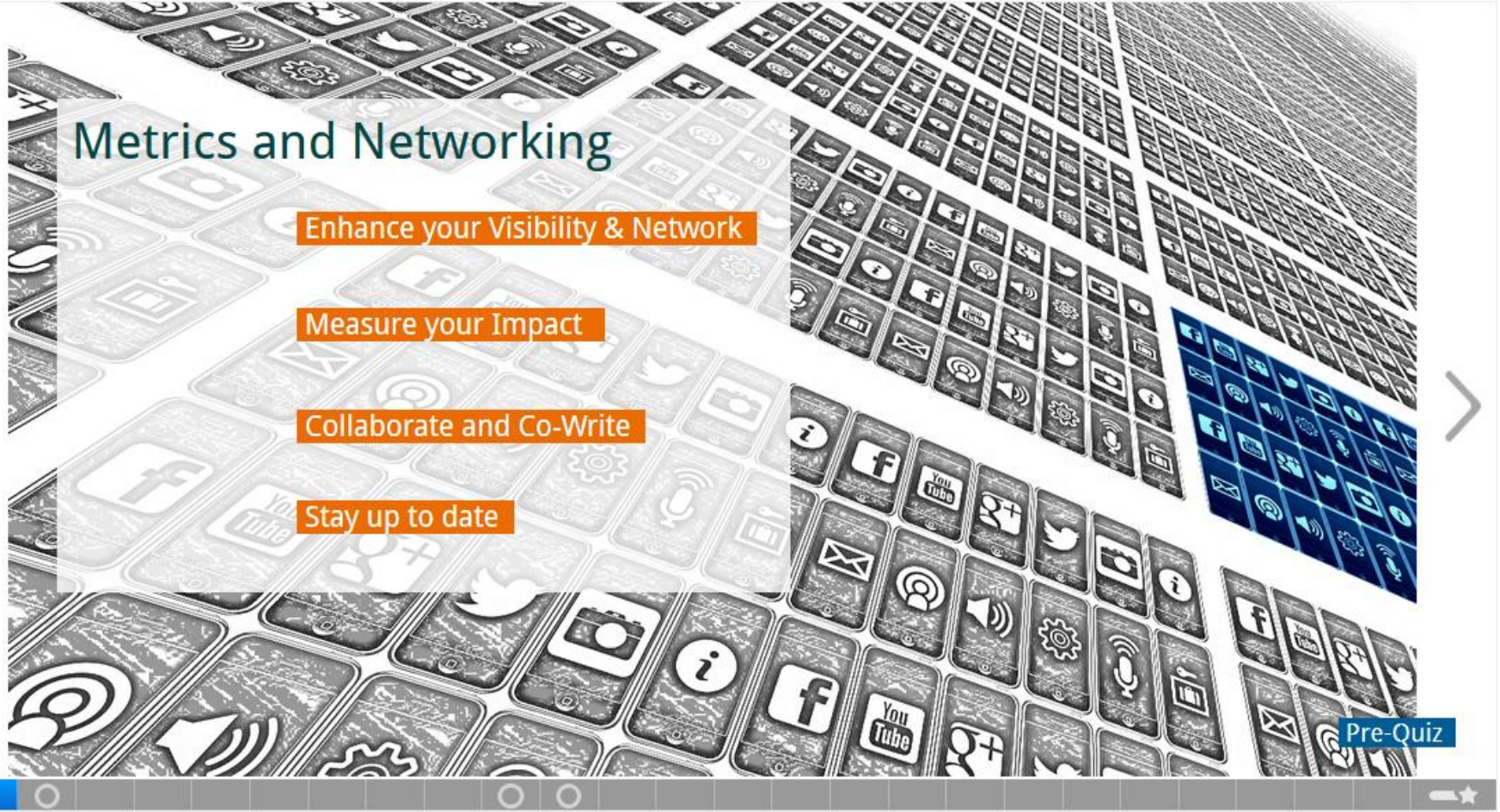
You are not alone. Check out "impostor syndrome"

Ok, I'm fine now

Chat with real Librarians!

Personal support and a bit of comic relief

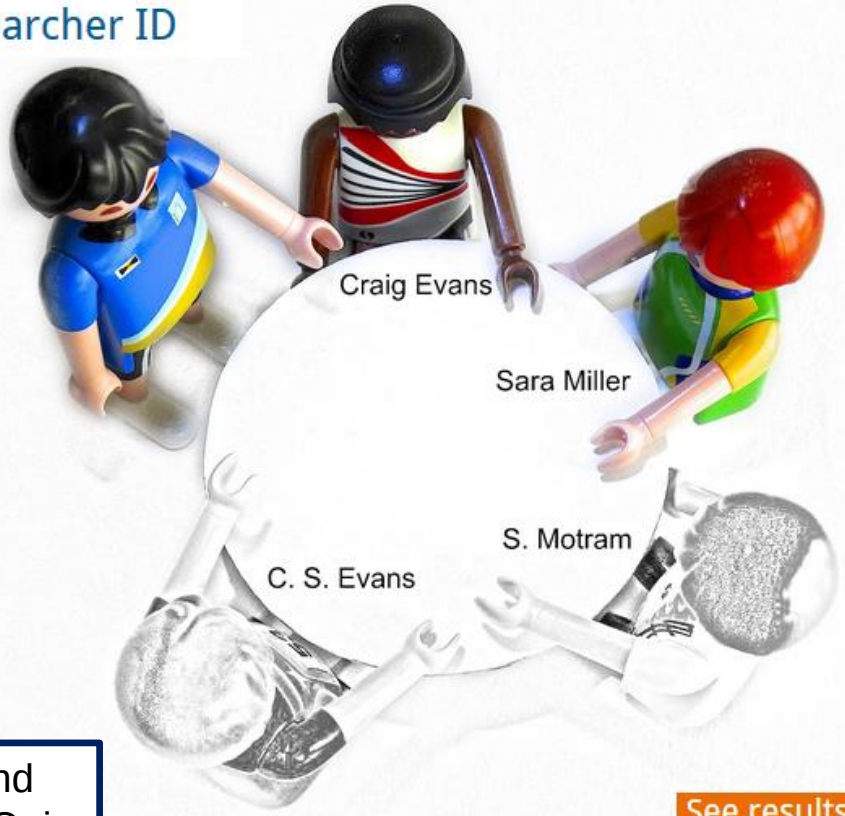
Reuse Rights of use <> Embed


Metrics and Networking
Enhance your Visibility & Network
Measure your Impact
Collaborate and Co-Write
Stay up to date
Pre-Quiz

Claim your Publiations: ORCID Researcher ID

Who is the Author?
Match the names to the researchers at the table:

- Craig S. Evans
- Celia Evans
- Sara Motram (recently married)
- Stan Miller (recently married)



Drag and Drop / Quiz

See results Skip

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Claim your Publiations: ORCID Researcher ID

Results: Who is the Author?

- Craig S. Evans
- Celia Evans
- Sara Motram (recently married)
- Stan Miller (recently married)

Comic relief

You learned so much!
Lean back now, proudly. Feel like a boss.

Rewards

Find and Share Research Data

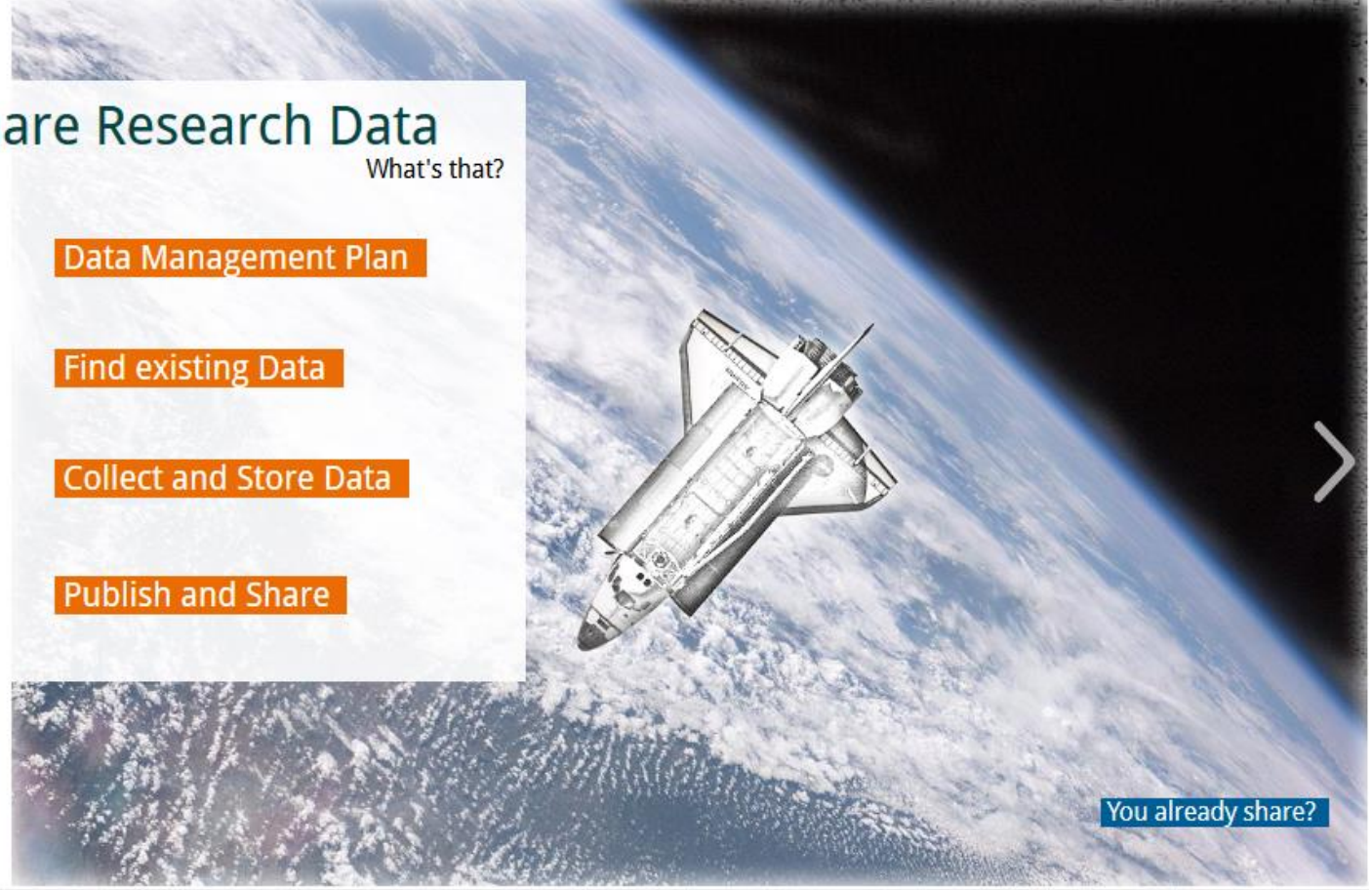
What's that?

Data Management Plan

Find existing Data

Collect and Store Data

Publish and Share



You already share?

No rocket science?

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Materials and Tools

There are many great training and information platforms out there:

- GoFAIR RDM Starter Kit
- MANTRA - Research Data Management Training of the University of Edinburgh
- Research Data Oxford
- CESSDA – Consortium of European Social Science Data Archives: Training Ressources
- DCC – Digital Curation Centre: Training
- EPFL Library Research Data Management Fast Guides including recommended file formats (pdf)
- In German: Forschungsdaten auffinden, zitieren, dokumentieren by ZBW, Gesis, and RatSWD

Thanks for watching.

Your comments and feedback are most welcome! Write to us at

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ECONBIZ
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Last updated: Version 1.1 - March 2020

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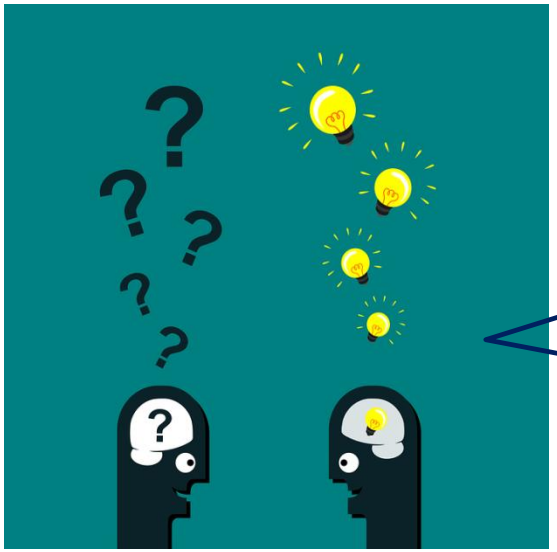
A few weeks later ...



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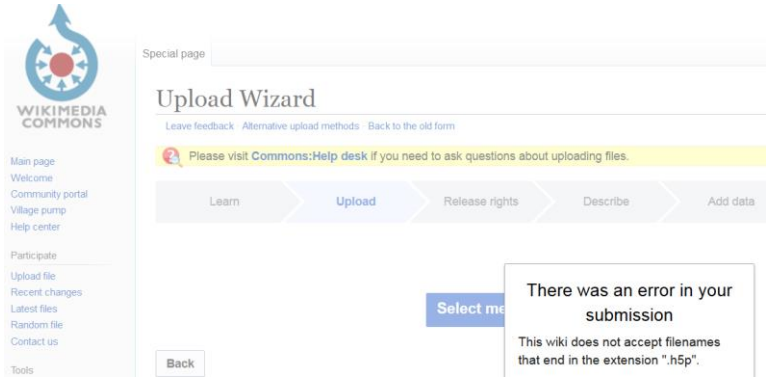
- **+ OER commons**
- Not findable as OER in Google
- Contents / Texts of H5P files not indexed by search engines
- Limited number of search portals for OER that cover materials across universities or countries.

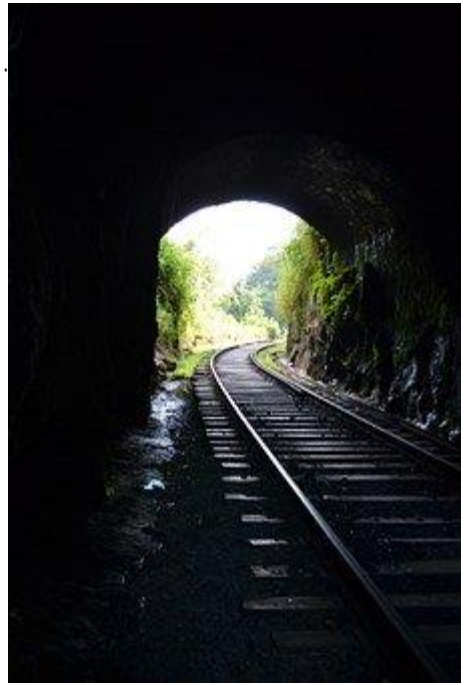


Forthcoming: H5P search hub

„Allow content created on your site to be shared on a global H5P Hub with a single click”

“Allow users to browse and reuse content from the H5P Hub without having to download and import activities as H5P files“

https://h5p.org/roadmap (June 19th, 2020)



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EduArc Project

"The project targets the development of a design concept for disseminated learning infrastructures that provide federated access to digital educational resources."

Funded by

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DIPF Leibniz Institute for Research and Information in Education

CARL VON OSSIETZKY universität

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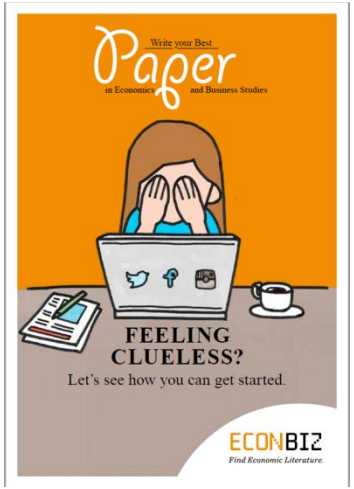
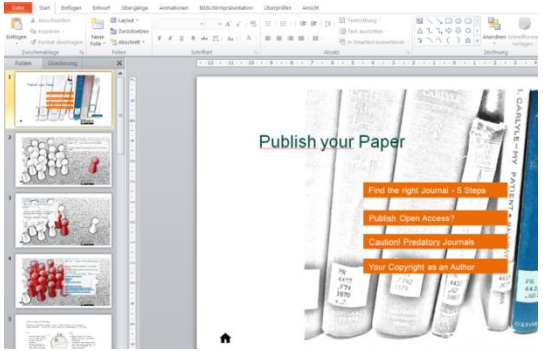
Other Formats for OER

PDF and Print Booklet



Videos

Academic Career Kit as PowerPoint / PDF



Findable / commonly used formats

e.g. „Publish your Paper“ as PPT or PDF

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Q&A

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