

# Closing Keynote: Scholarly Communication and Research Services for a new Paradigm

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# Why are we here?



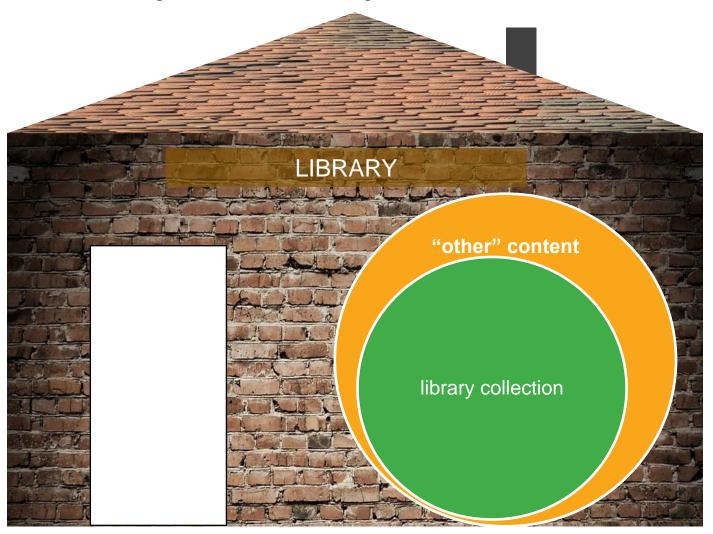
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The changing environment



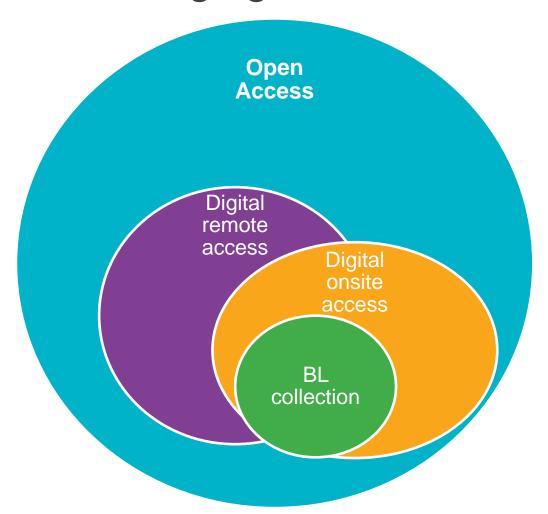


# Before: "buy it and they'll come"





# Now: changing nature of collections



Relative to internet content our collections are shrinking

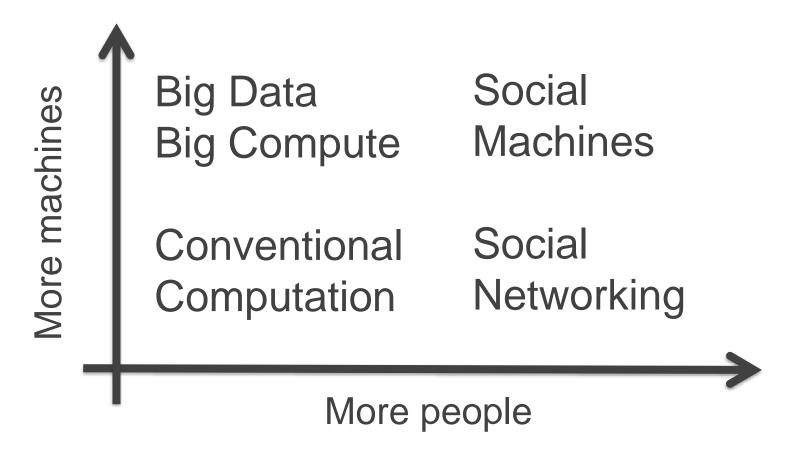
We can no longer hope to meet all user needs from our collections

Need to enhance our collections by connecting to relevant global content

Reconsider national collection models in a global open science world



# Context 1: New Ways of Working



Dave de Roure, Oxford

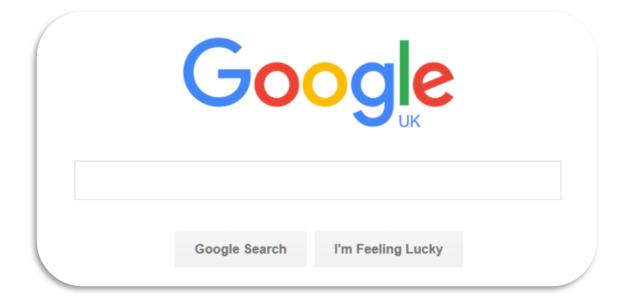


# Context 1: New Ways of Working



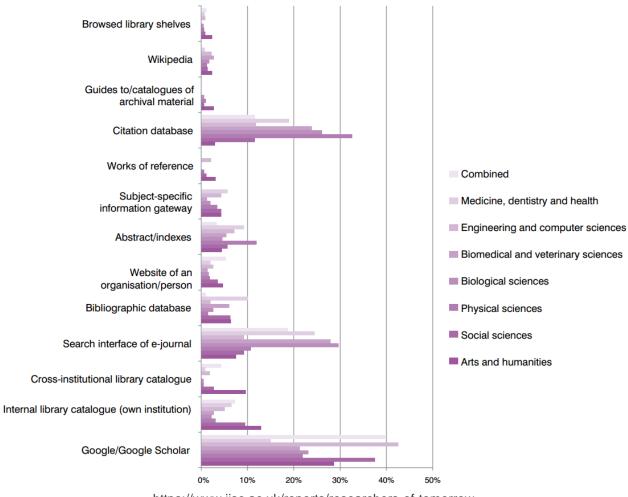


# Context 2: User Behaviour & Expectations





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https://www.jisc.ac.uk/reports/researchers-of-tomorrow



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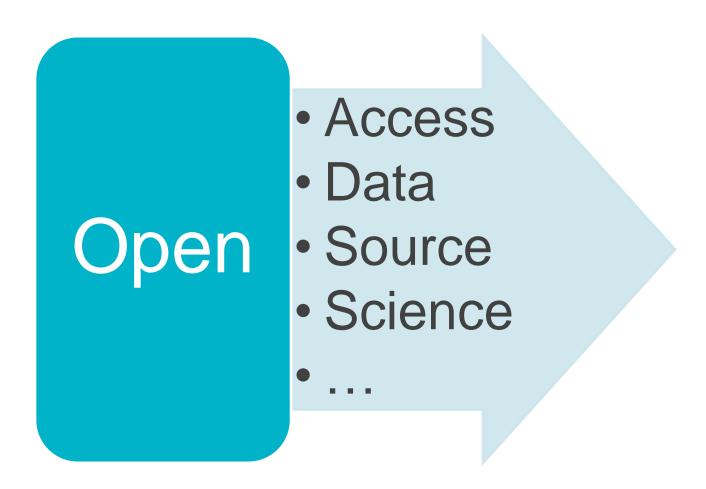


# Context 3: budgets and value for money



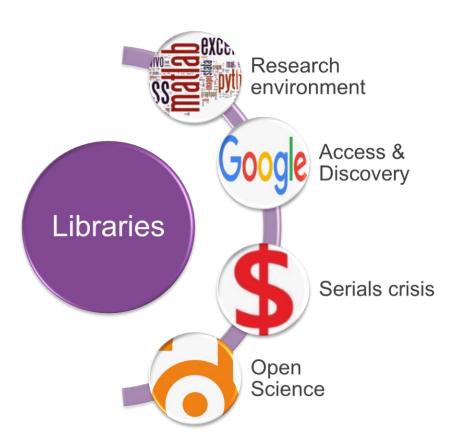


### Context 4: school comms & open science





# Challenges of a changing environment



Research is digital, are we?

Are we still needed for discovery?

Do we have a role for access to digital open content?

Will print become invisible?

Future of on-site services in a changing environment



The new paradigm?





# New paradigm?

- An answer to the challenges could be to move from a collections to a (open science) services paradigm.
- Other industries are going down a similar route, by focusing on value-added services.
- For the open access transformation there appears to be such a model already: move from acquiring closed content to enabling users to share research openly.

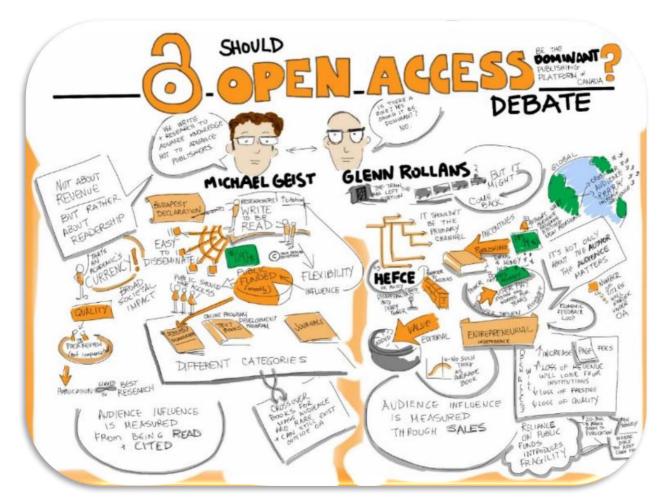


Will this stand up in the future? A hypothetical 2030 knowledge environment





#### 2030: the debate – is over: OA has won

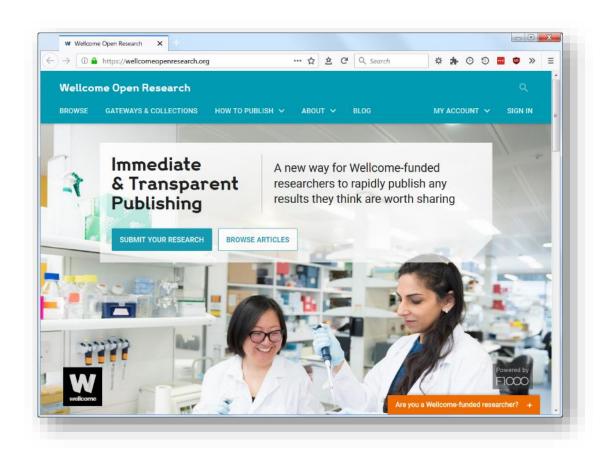


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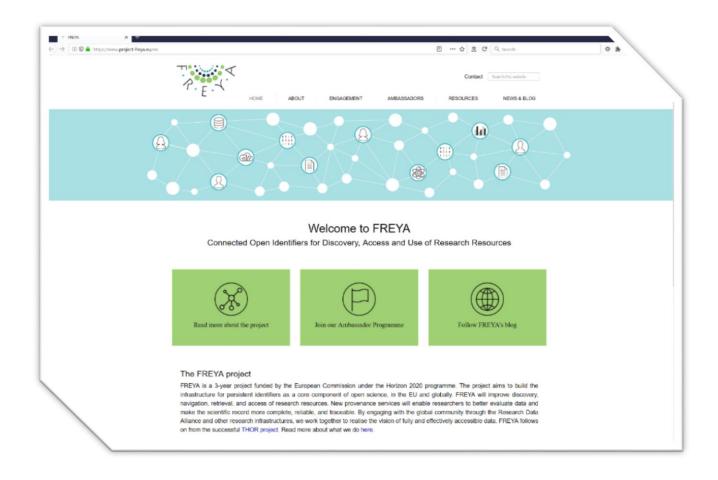
# ...what will be the role of libraries though?





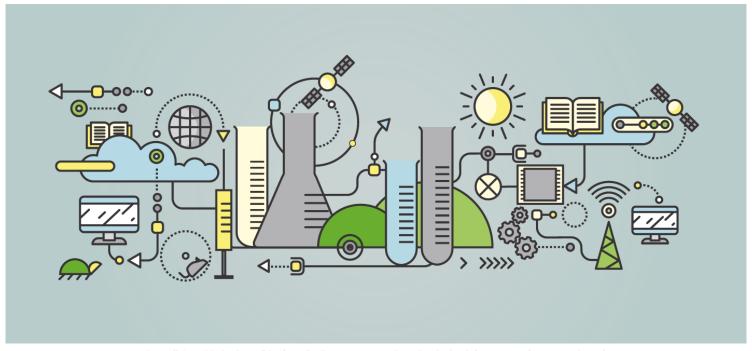


#### Persistent identifiers: end of local data?





# Open science – can we really support it?



https://about.hindawi.com/blog/a-radically-open-approach-to-developing-infrastructure-for-open-science/



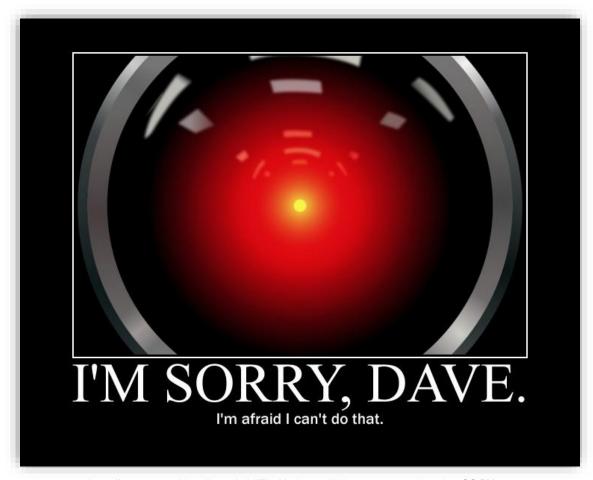
# Our #1 UI will be for software not people



https://en.wikipedia.org/wiki/File:Card\_puncher\_-\_NARA\_-\_513295.jpg



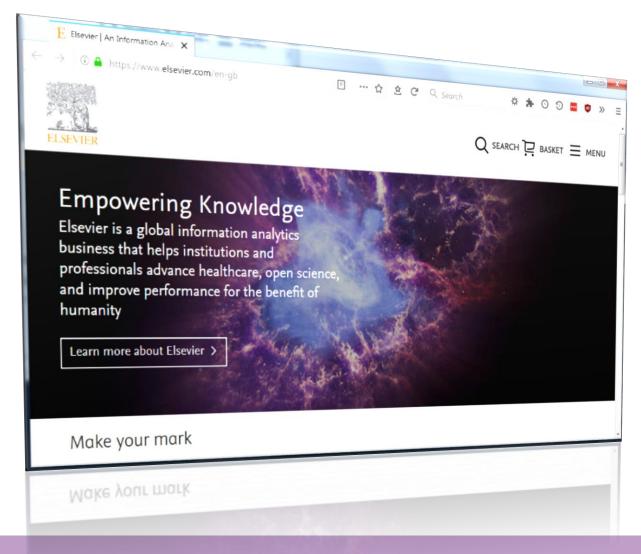
# Algorithms will manage our content



https://commons.wikimedia.org/wiki/File:Motivator\_HAL\_9000\_soory\_dave.jpg CC BY 3.0



# Big publishers reborn as data companies





# How might the "new paradigm" work out?

- Traditional role of discovery, access and managing content reduced
- We will procure, not run services and our information will live in the cloud
- Our digital services will be provided by a few service providers unless we build critical mass and organise/own library service providers
- Our role in open science services may be smaller than we expect
- Our digital special collections may not be accessed through us, and analogue material that isn't visible online will see decline in use
- Staffing will be reduced, focusing on licensing/connecting solutions and enabling users; we will need data science skills to do that
- Perhaps many libraries will be less of digital information service providers and more of a human enabling device?



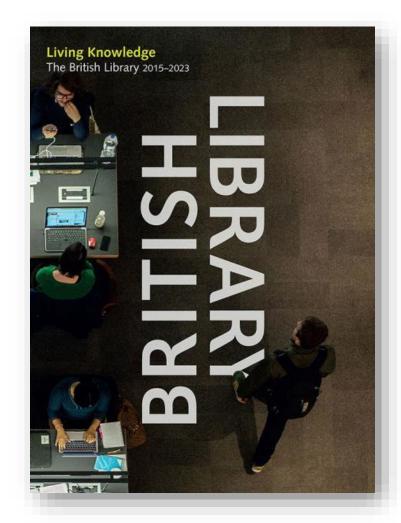
Considering the British Library's response to the changing environment





# The British Library response

- Living Knowledge articulates the vision of the British Library in 2023 as the most open, creative and innovative institution of its kind in the world.
- A new Service Strategy for research and a new Content Strategy. <a href="http://doi.org/10.1629/uksg.409">http://doi.org/10.1629/uksg.409</a>
- Everything Available is a strategic change management portfolio designed to deliver the transformation of the Library's services to researchers and research organisations.



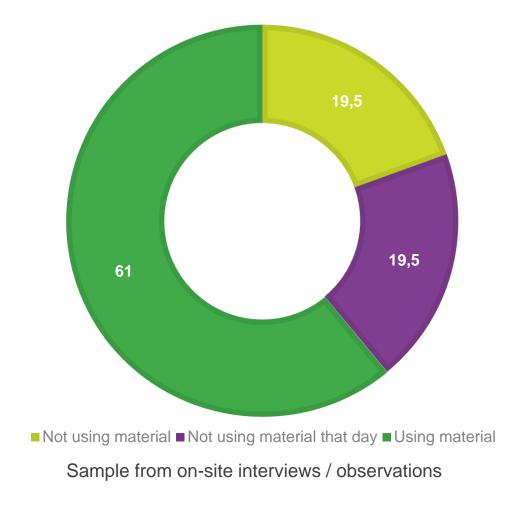


# Understanding our users

- Creation of dedicated post: Research Services Insight Manager
- Programme of user research:
  - Non-user research
  - "Total" audience view (across our different audience types)
  - On-site research: reading rooms and public areas
  - Ongoing reading room user satisfaction snapshot surveys
  - Discovery user research studies
- For this talk I will focus on online services



#### On-site users and the collection



- Even at the British Library, "readers" don't always want to read collection items
- Some are looking for an IT-enabled workplace
- Computational research requires a different space design
- Desire for the library as an interdisciplinary space



# Survey of non-users about services



Online Catalogues

37% Happy with other sources

33% Never considered it

27% Didn't know it existed



Reading Rooms

45% Too far away

32% Never considered it

30% Happy with other sources



Interlibrary loan

35% Didn't know it existed

31% Never considered it



Business & IP Centre

37% Didn't know it existed

33% Never considered it 30% Too far away

- Online is first port of all for the majority, Google most common starting point
- Once beyond Google, there was an inherent trust in information from specialist websites
- Some are believing their area of interest unlikely to generate 'untrustworthy' online information
- · Offline search, i.e. going to libraries, begins when online sources fail to meet research need

# HSILIN

# Lessons from user research & engagement

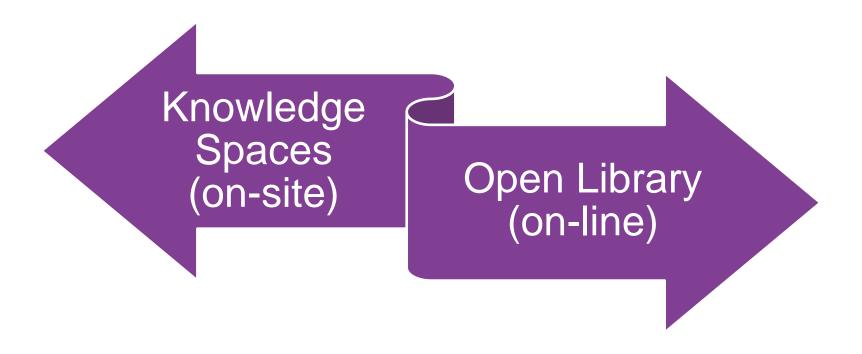
- Low awareness beyond existing users (this will be less relevant for university libraries).
- Low awareness could be addressed through easy to understand / use online services (need for information at speed).
- Biggest single barrier = need to physically visit the Library to get the reader pass to access reader-only information.
- Digital collections hold greatest scope for attracting new users.
- High trust in British Library/libraries as trustworthy source of information, but perhaps not currently enough concern about other sources to be able to capitalise on this.
- New space and service design for on-site service, moving at least partially away from traditional reading room model.

Transforming the Library





# **Everything Available programmes**





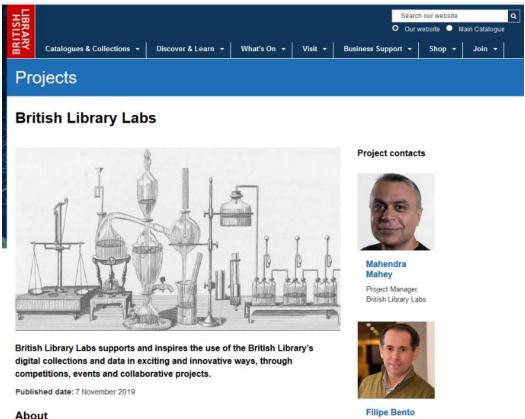
### **Knowledge Spaces**

Living Knowledge: "Ensure that the Library's on-site facilities and Reading Room services keep pace with the changing needs of researchers"

#### Programme aims:

- Flexible spaces that will reflect the needs of researchers, fulfil multiple purposes, and will be adapted over time, supporting new services
- Technology enabled design with bring-your-own-device access to digital content, audio-visual facilities and infrastructure for (interdisciplinary) data-driven research
- A more open, inclusive and welcoming environment, attracting casual visitors, researchers, experts and commercial clients
- Incubation spaces for workshops, seminars and science-related events that are bookable by researchers and business users

## **British Library Labs**



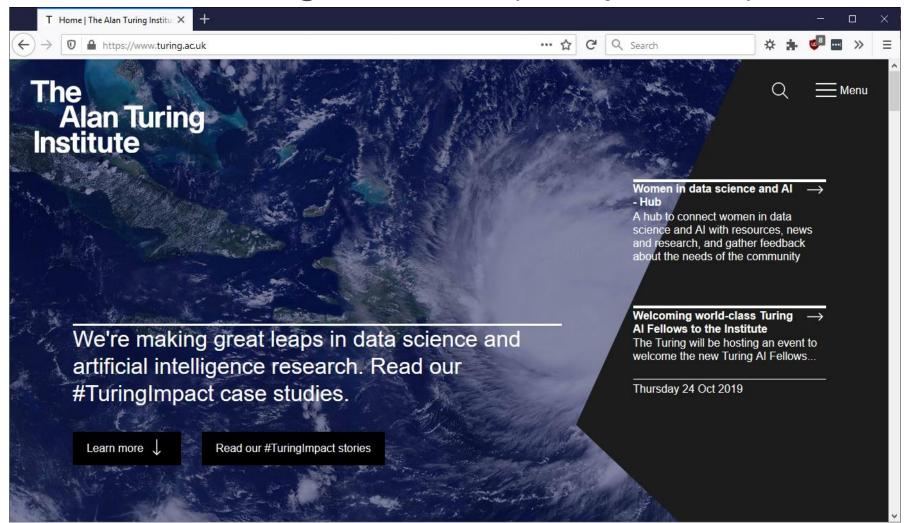
Formed in 2013, British Library Labs (BL Labs) promotes, inspires, and supports the use of the Library's digital collections and data. The team works on projects with researchers, developers, educators, entrepreneurs and artists from around the world. You can read more about some of these projects on the Digital Scholarship case studies pages and blog.

BL Labs provides insight into the emerging practice of digital research and helps shape the provision of the Library's digital services, tools, collections, and data. It ensures that the intellectual digital heritage we hold is accessible to everyone for research, inspiration and enjoyment.

Filipe Bento
Technical Lead,
British Library Labs



# Skills for the digital future (and present)





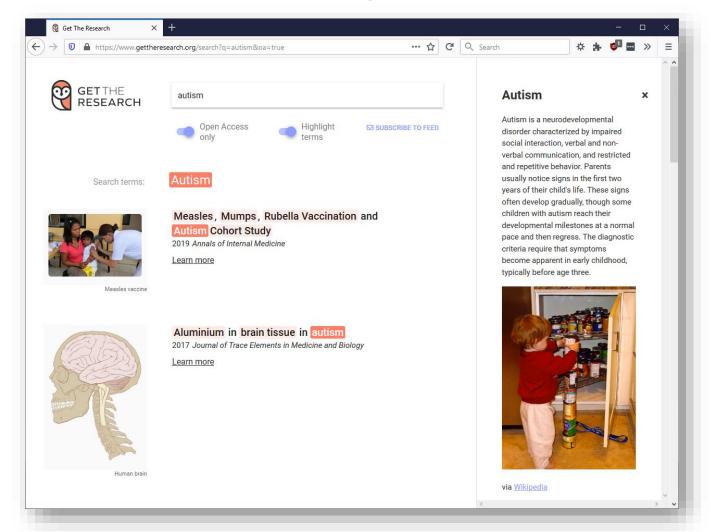
# Living with Machines collaboration

- £9.2m by Arts and Humanities Research Council and UK Research and Innovation
- Partners: Allan Turing Institute, BL, universities
- Living with Machines is a research project that rethinks the impact of technology on the lives of ordinary people during the Industrial Revolution.
- Sources include digitised newspapers; Ordnance Survey maps; census, birth, death and marriage records; digitised books.
- It aims to be transformative not just for the research question itself but for digital research methods.



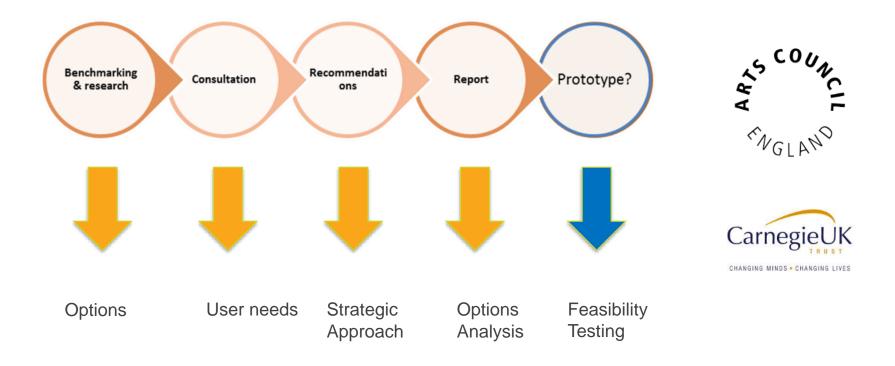
Identifying places in historic maps

### Transform by partnering with innovators



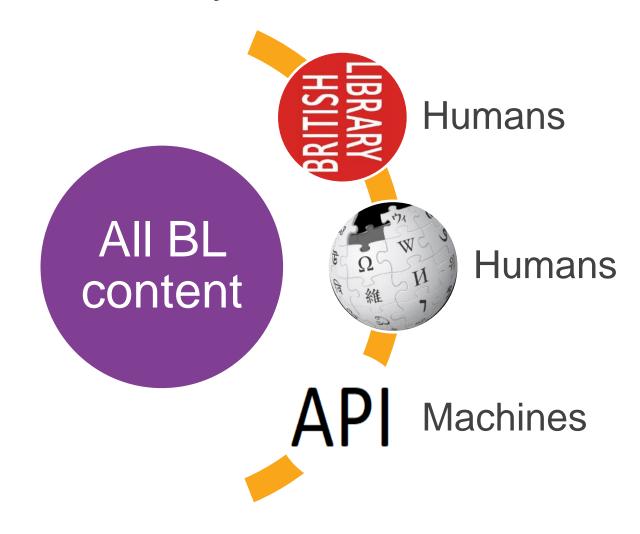


## Single Digital Presence for public libraries?

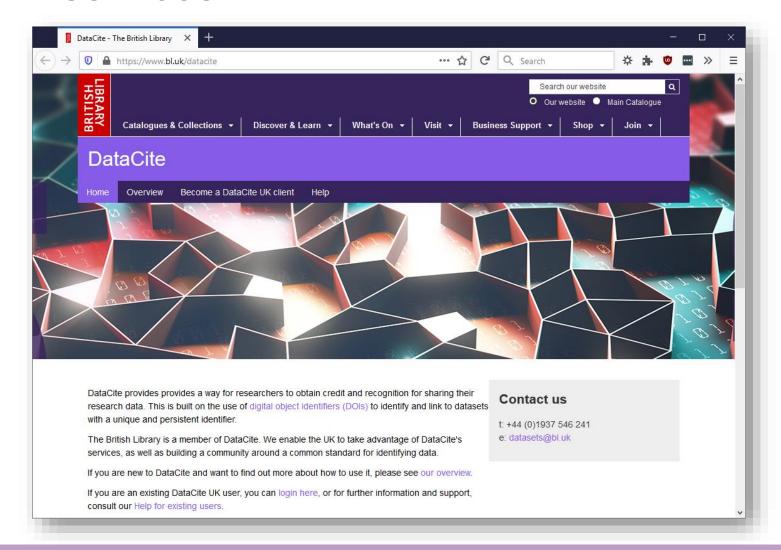




#### Single point of entry to collections



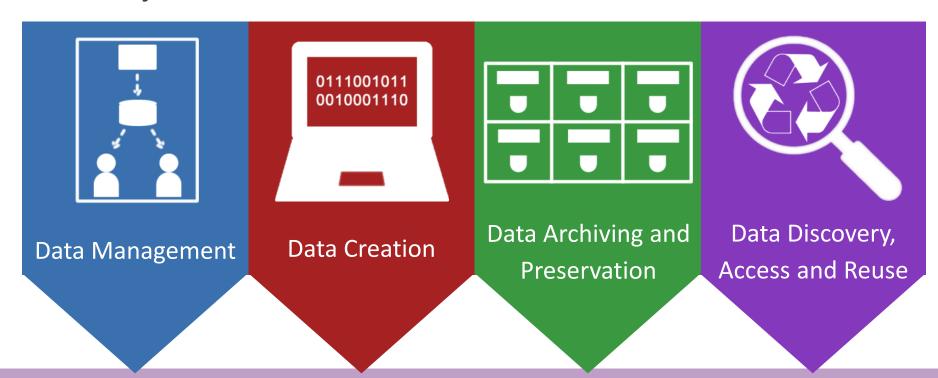
#### PID services





#### British Library data strategy

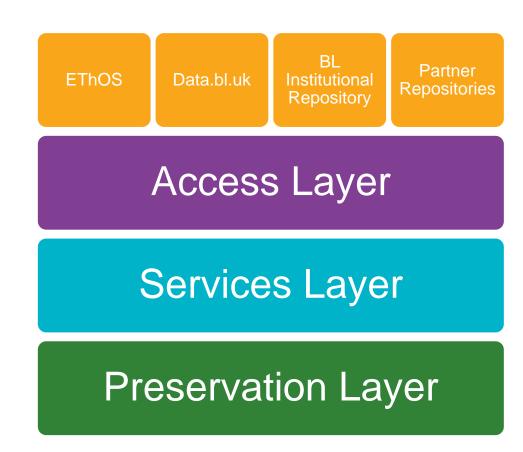
'Our vision for the British Library is that research data are as integrated into our collections, research and services as text is today.'





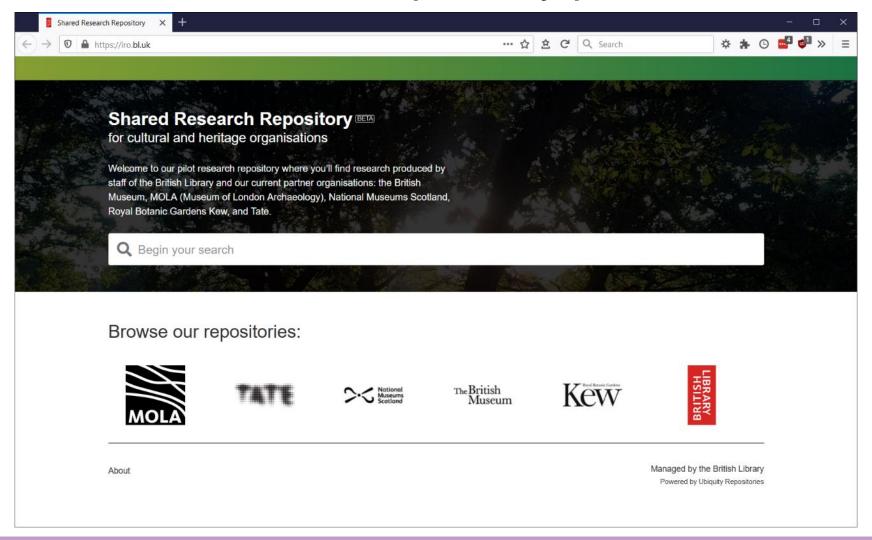
### Developing an open repository platform

- Consolidate repositories on a single platform
- Refresh preservation system for national collection (>5m items, petabyte-scale)
- Access layer with multiple repositories, shared service model
- Shared repository developed with partners



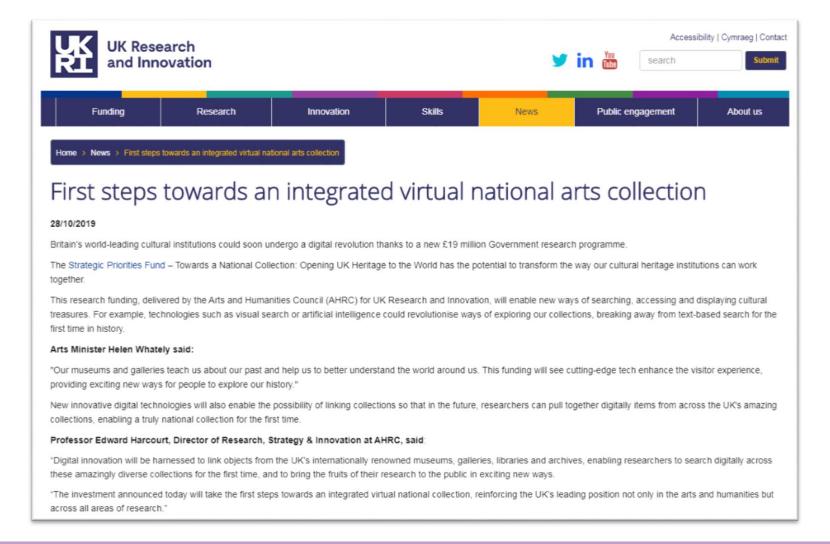


### Shared Research Repository pilot





#### **Towards a National Collection**





## Persistent access in an open science world

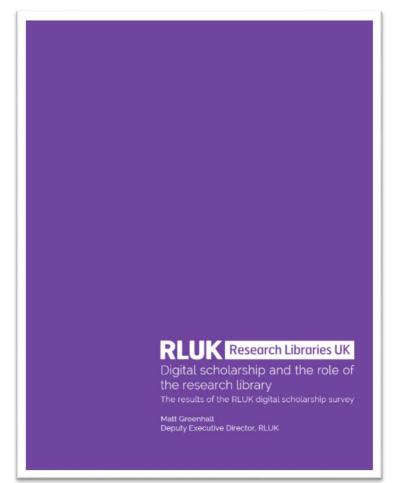


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#### Skills and the digital shift

- Developing a new People Strategy at the British Library
- Work with community initiatives – lead in RLUK's Digital Shift working group
- Transformation Through International Collaboration project with Dutch and Belgian national libraries



https://www.rluk.ac.uk/digital-scholarship-and-the-role-of-the-research-library-an-rluk-report/

# Conclusion





#### Conclusion

- Move from collection focus to one of enabling users
- Add value by connecting the right things, not necessarily by developing ourselves
- Rally around community infrastructures
- "Open" procurement principles
- Need to meet expectations for user experience

- Open science needs open information management
- Not leave Al to closed commercial approaches
- Fewer but more highly skilled staff – how to manage transition
- Our strength is not just in collections, but in trust, transparency and people
- Rethink on-site services from consumption to knowledge creation