

The perfect storm

Challenges for research libraries in the coming decade

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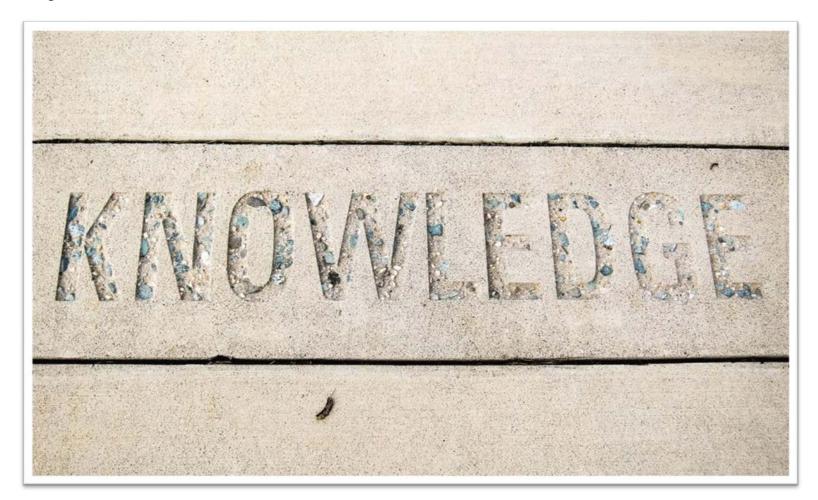
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Why are we here?



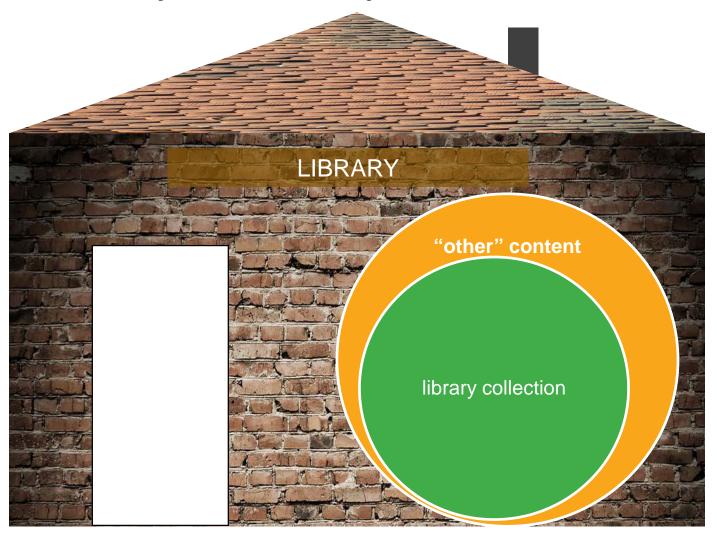
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The changing environment



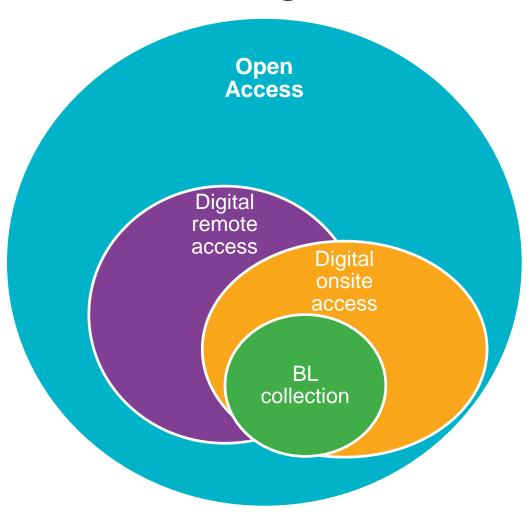


Before: "buy it and they'll come"





Now: shrinking relevance?



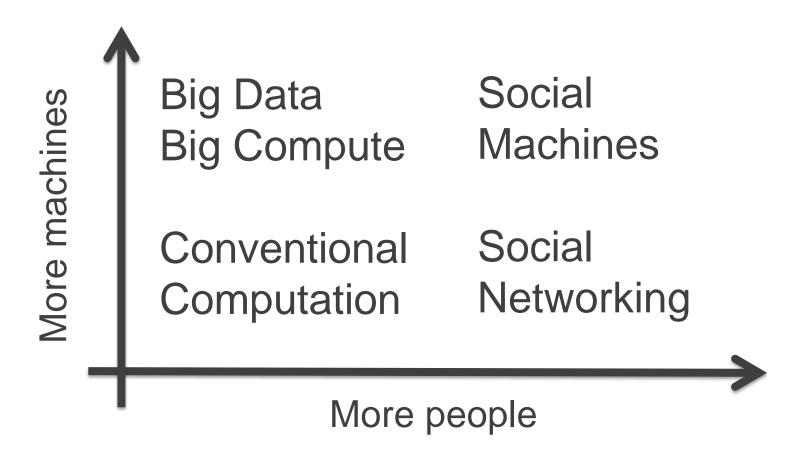
Relative to Internet content our collections are shrinking

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

Need to enhance our collections by connecting to relevant global content



Context 1: New Ways of Working



Dave de Roure, Oxford



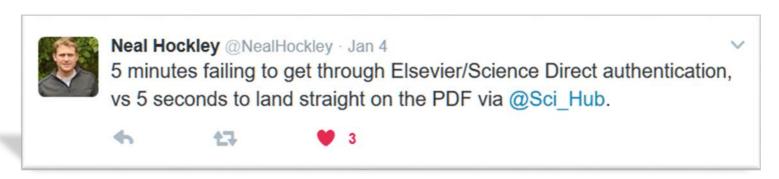
Context 2: User Behaviour & Expectations





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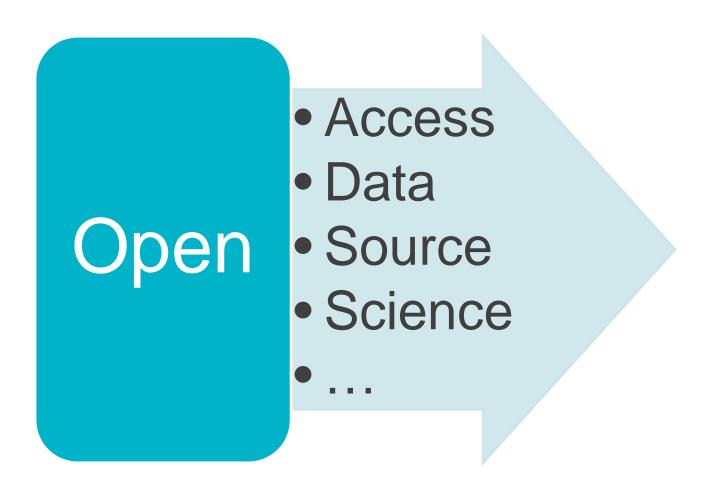


Context 3: budgets and value for money





Context 4: scholarly comms, open science





Survey of non-users about BL 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 call 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

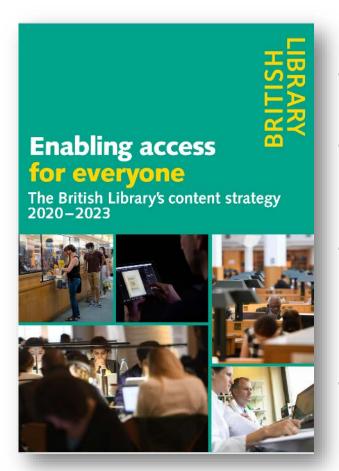


How to respond?
Transforming the Library





New Content Strategy



(Some) Elements:

- ...will be based on evidence of demand and value to researchers
- Beyond Legal Deposit, the primary decision is whether the content will be of value to the research community.
- Where the British Library has no preservation responsibility [...], we will prefer to connect rather than collect.
- We will improve and maintain the discovery of Open Access content.

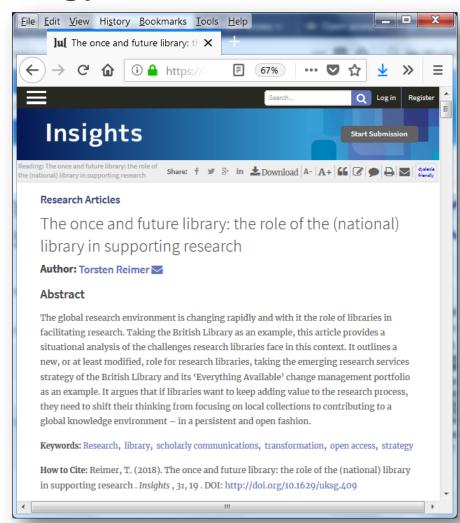
https://www.bl.uk/about-us/governance/policies/content-strategy



Research Service Strategy

- A service strategy for the British Library's role as a major research library.
- Key element: enhance the national collection by services that open up and help to sustain a global knowledge environment.

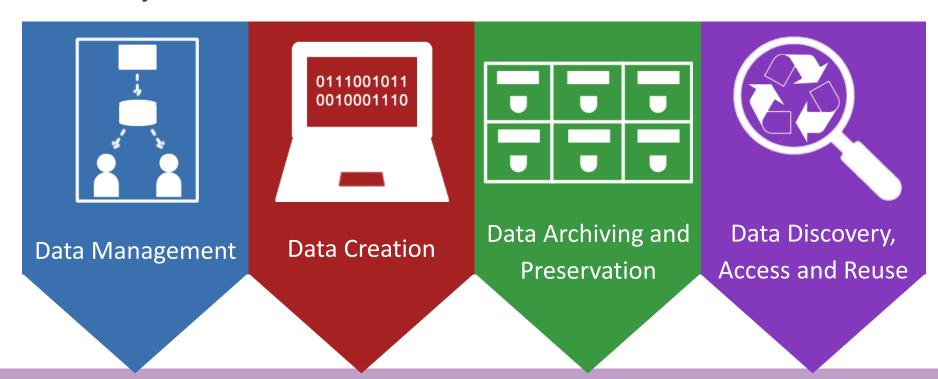
http://doi.org/10.1629/uksg.409





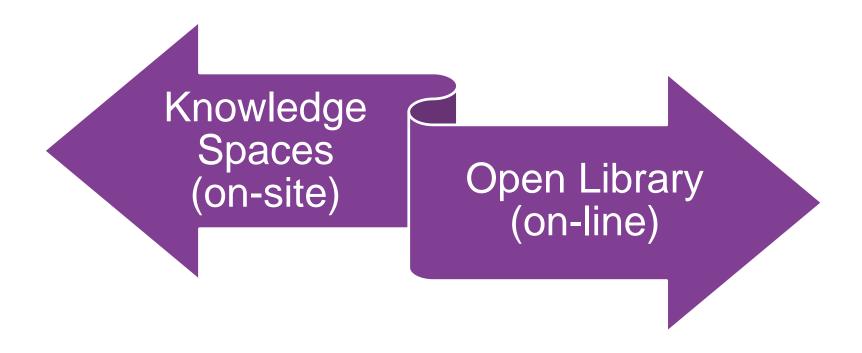
British Library data strategy

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





Everything Available programmes





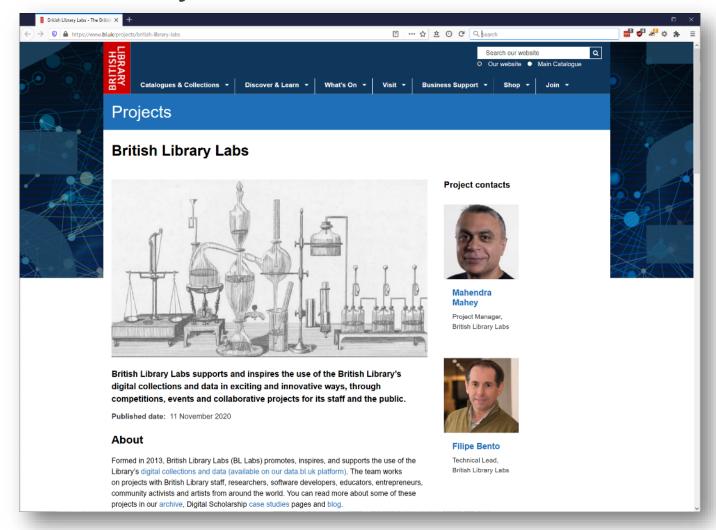
Knowledge Spaces

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

Programme aims:

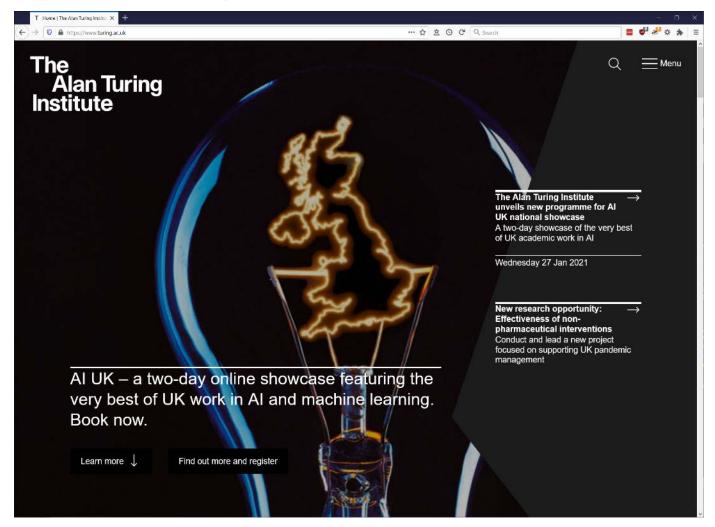
- Flexible spaces that will reflect the needs of researchers, fulfil multiple purposes, and will be adapted over time, supporting new services
- Technology enabled design with bring-your-own-device access to digital content, audio-visual facilities and infrastructure for (interdisciplinary) data-driven 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





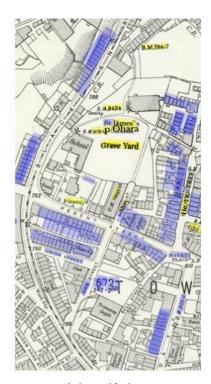
Skills for the digital future (and present)





Living with Machines collaboration

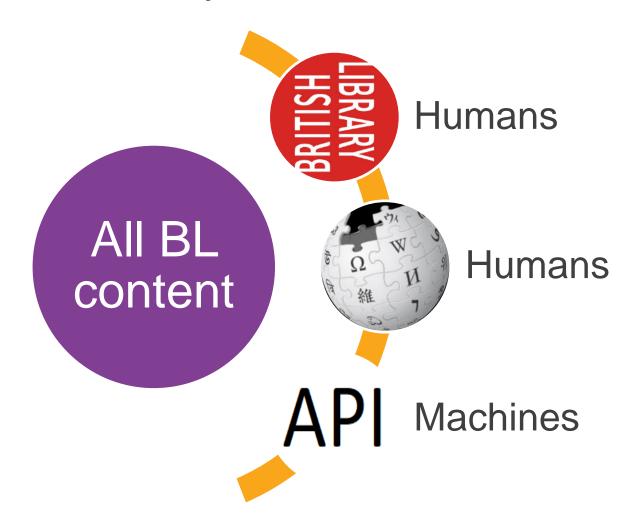
- £9.2m by Arts and Humanities Research Council and UK Research and Innovation
- Partners: Allan Turing Institute, BL, universities
- Living with Machines is a research project that rethinks the impact of technology on the lives of ordinary people during the Industrial Revolution.
- Sources include digitised 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

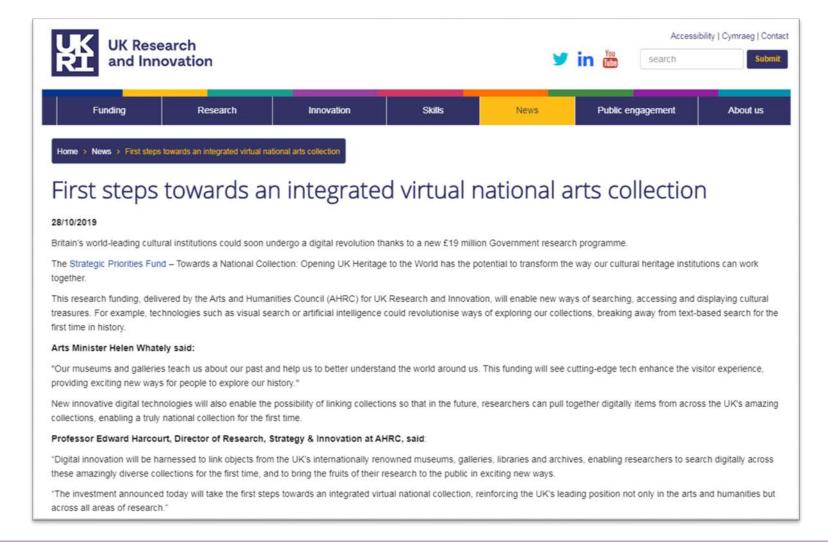


Single point of entry to collections

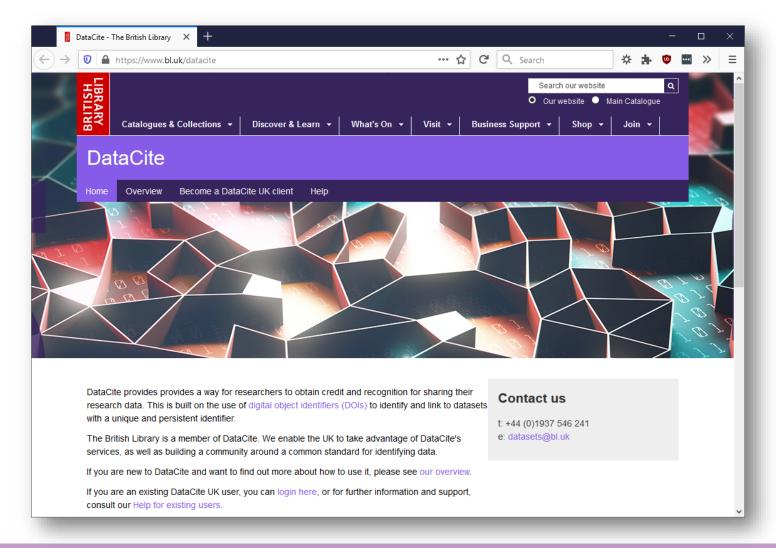




Towards a National Collection



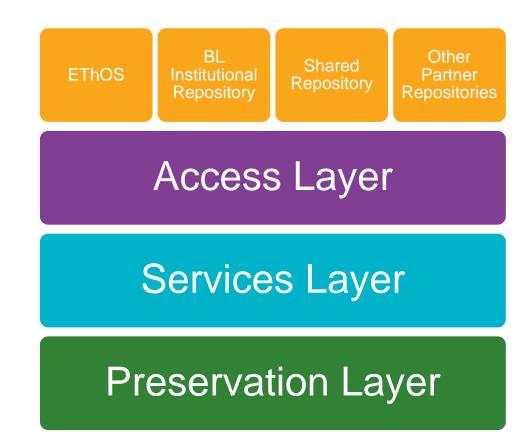
Persistent Identifier services





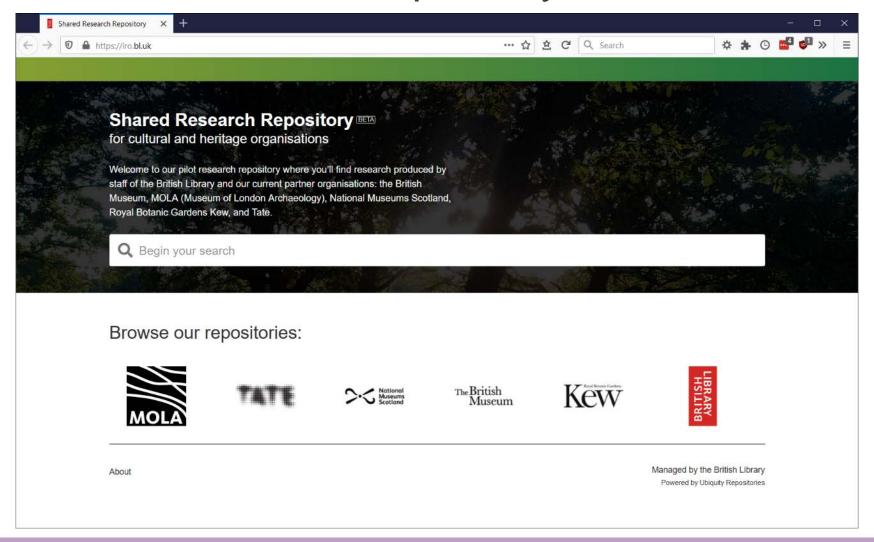
Developing an open repository platform

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





Shared Research Repository service



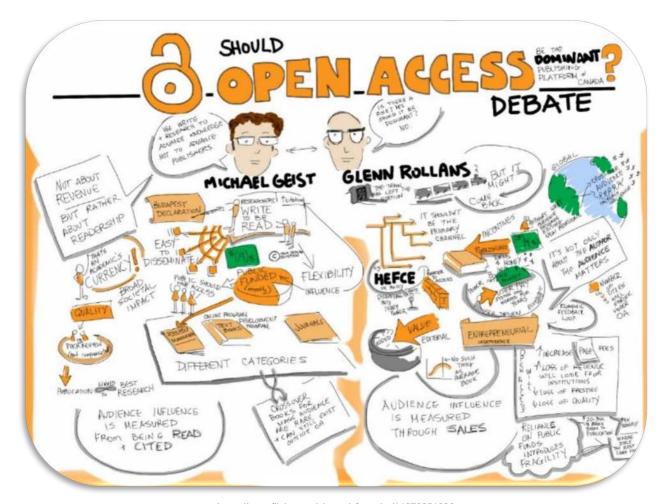


A hypothetical 2030 library / knowledge environment





2030: the debate – is over: OA has won

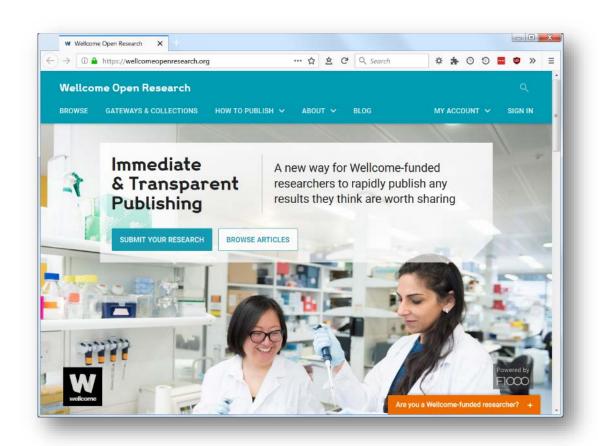


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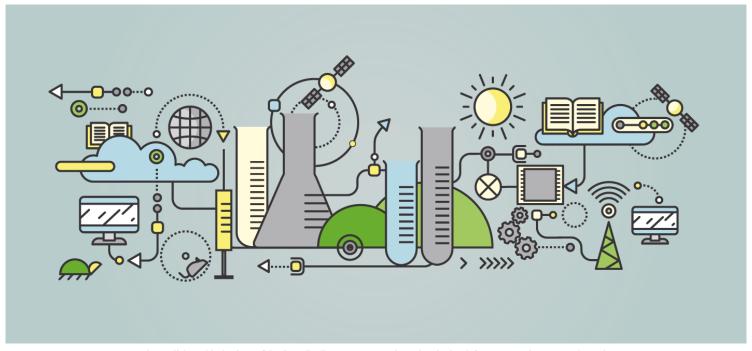
...what will be the role of libraries though?







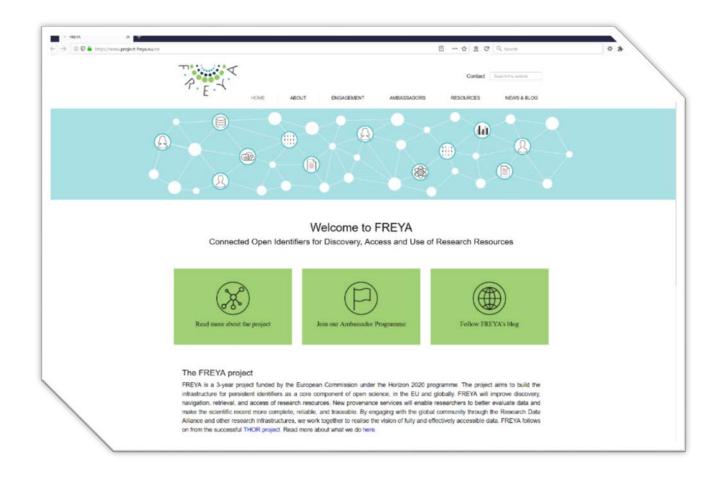
Open science – can we really support it?



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



Persistent identifiers: end of local data?





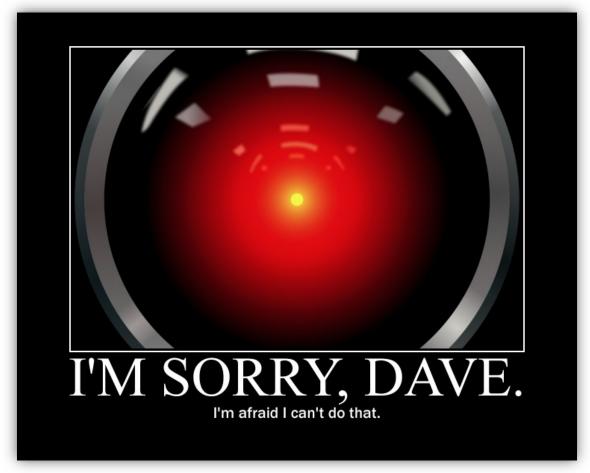
Our #1 UI will be for software not people



https://en.wikipedia.org/wiki/File:Card_puncher_-_NARA_-_513295.jpg



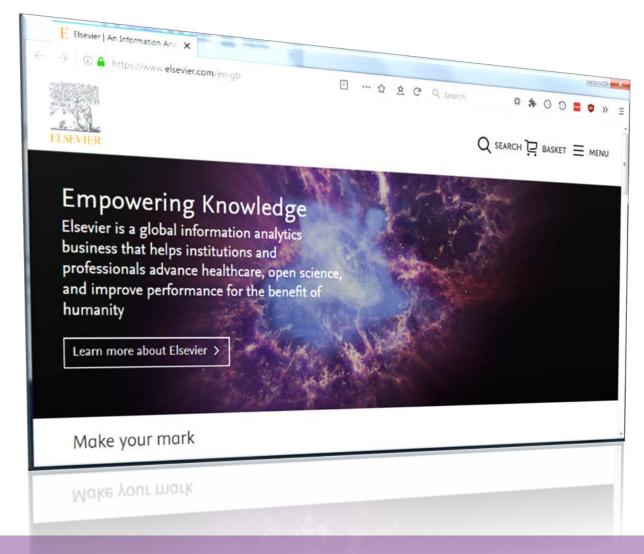
Algorithms will manage our content



https://commons.wikimedia.org/wiki/File:Motivator_HAL_9000_soory_dave.jpg CC BY 3.0



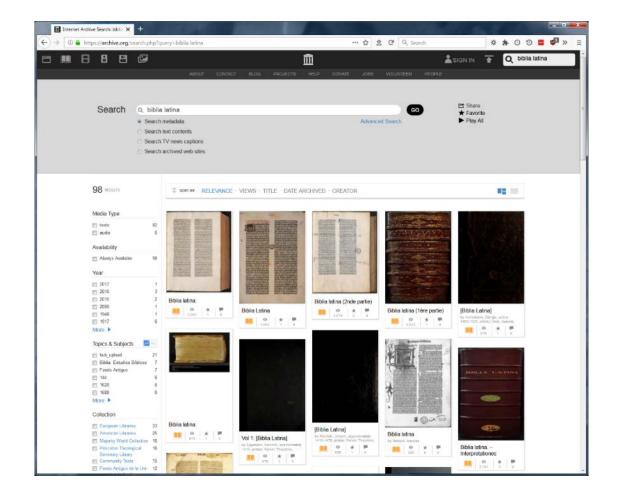
Big publishers reborn as data companies





Will user still come for special collections?

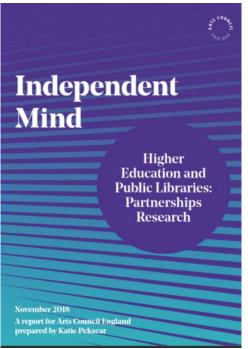






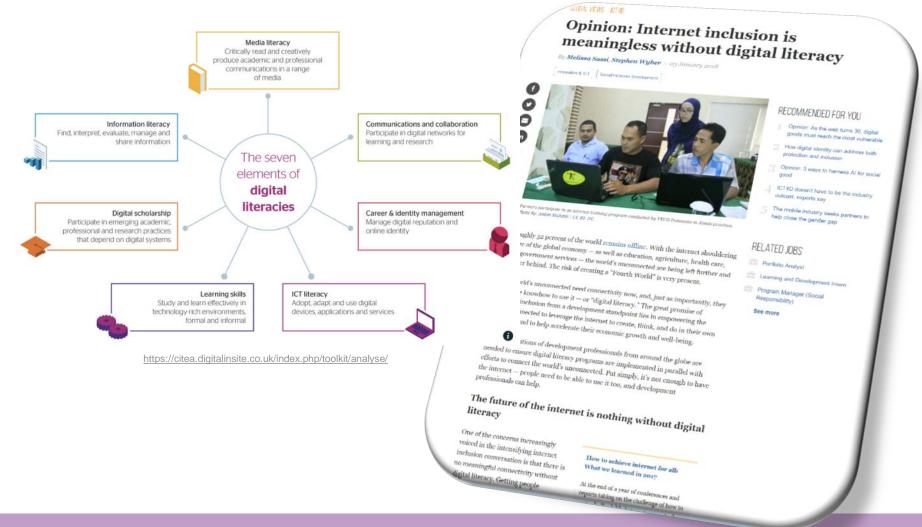
Workspaces and communities







Information literacy, skills and inclusion





How might the "new paradigm" work out?

- Our digital services will be provided by a few service providers
- Our role in technical open science services may be smaller than we expect
- We will procure, not run services and our information will be in the cloud
- Role in discovery, access and managing content might be reduced
- Our role in open science services may be smaller than we expect
- Repositories could disappear behind commercial discovery layers
- Our digital special collections may not be accessed through us, and analogue material that isn't visible online will see decline in use
- We may need fewer but more highly skilled staff, focusing on licensing/connecting solutions and enabling users



The Digital Shift and community action



LIBRARY HSILING

Digital Shift Manifesto



"In 2030, UK research libraries will be an **integral part** of both the local and global **knowledge environment**.

We will offer **environmentally sustainable**, **inclusive** services that enable a diverse set of users to identify and use **trusted** knowledge resources from all over the world.

Our open research and digital scholarship services will enable seamless and persistent sharing and reuse of research outputs.

Library staff will be **recognised experts** in (digital) research methods and **valued partners** in the research process, even leading in some fields.

Print collections will be as easy to discover as our digital ones, and we will provide digital and physical **spaces** that **meet 21st century researchers' needs**.

Libraries will have **mastered** the use of technologies such as **artificial intelligence**, and we will deploy them on technology platforms that are open and transparent, built on sustainable and **ethical** principles."

https://www.rluk.ac.uk/digital-shift/

Medium-term (2022-2024) objectives

- **1. Engage:** with key stakeholders around the core challenges of the digital shift identified in phase 1.
 - 2.1.1. Establish a programme of knowledge exchange activities with experts from outside the library sector
 - 2.1.2. Contribute to a sustainability action plan for carbon-neutral digital research library services to help inform members in their decision making and those of their institutions
- **2. Build:** a consensus around the steps to be taken to address skills gaps and the role to be played by RLUK, external stakeholders, and individual members.
 - 2.2.1. Create a strategic workforce plan for RLUK libraries, informed by the results of the skills audit and stakeholder mapping undertaken in phase 1. This needs to build on, and support, wider workforce planning.
 - 2.2.2. Working in conjunction with CSN, develop a manifesto/set of requirements for open information sources/infrastructure that will inform licensing and procurement for RLUK members and ideally beyond

Conclusion





Conclusion

- Move from collection focus to one of enabling users
- Our strength is not just in collections, but in trust, transparency and people
- Fewer but more highly skilled staff?
- On-site services: from consumption to knowledge creation
- Add value by connecting things
- Focus on user experience

- Open science needs open information management
- Rally around community infrastructures, shared services
- "Open" procurement principles
- Consider open solutions over black boxes
- Openness in Al
- Get content where users are, but fight for provenance
- Persistent access should not be left to commercial entities only