



LIGUE DES BIBLIOTHÈQUES EUROPÉENNES DE RECHERCHE
ASSOCIATION OF EUROPEAN RESEARCH LIBRARIES

‘From data management policy to implementation: opportunities and challenges for libraries’

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LIBER: Ligue des Bibliothèques Européennes de Recherche

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- Looking at open data policies
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LIBER

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LIBER: reinventing the library of the future

- ❑ Largest network of European research libraries: 450 in over 40 countries

Mission:

To provide an information infrastructure to enable research in LIBER institutions to be world class

LIBER & EU Projects



Reshaping
The
research library

Advocacy

Scholarly
Communication
&
Research
Infrastructure



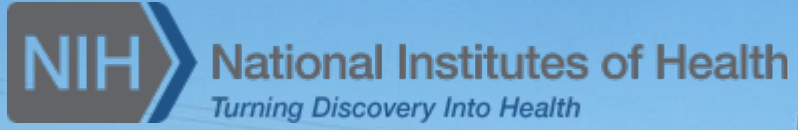
Opportunities for Data Exchange



medanet
Mediterranean Open Access Network



APA
RSEN
Alliance Permanent Access to the
Records of Science in Europe Network



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Barriers to success of open data policies

- Cultural differences
- Definition of research data
- Lack of skills/education
- Poorly defined roles and responsibilities
- Lack of infrastructure
- Lack of career incentives



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**Some of these barriers have an affect on libraries
but we can also have an effect on them...**

Hypotheses



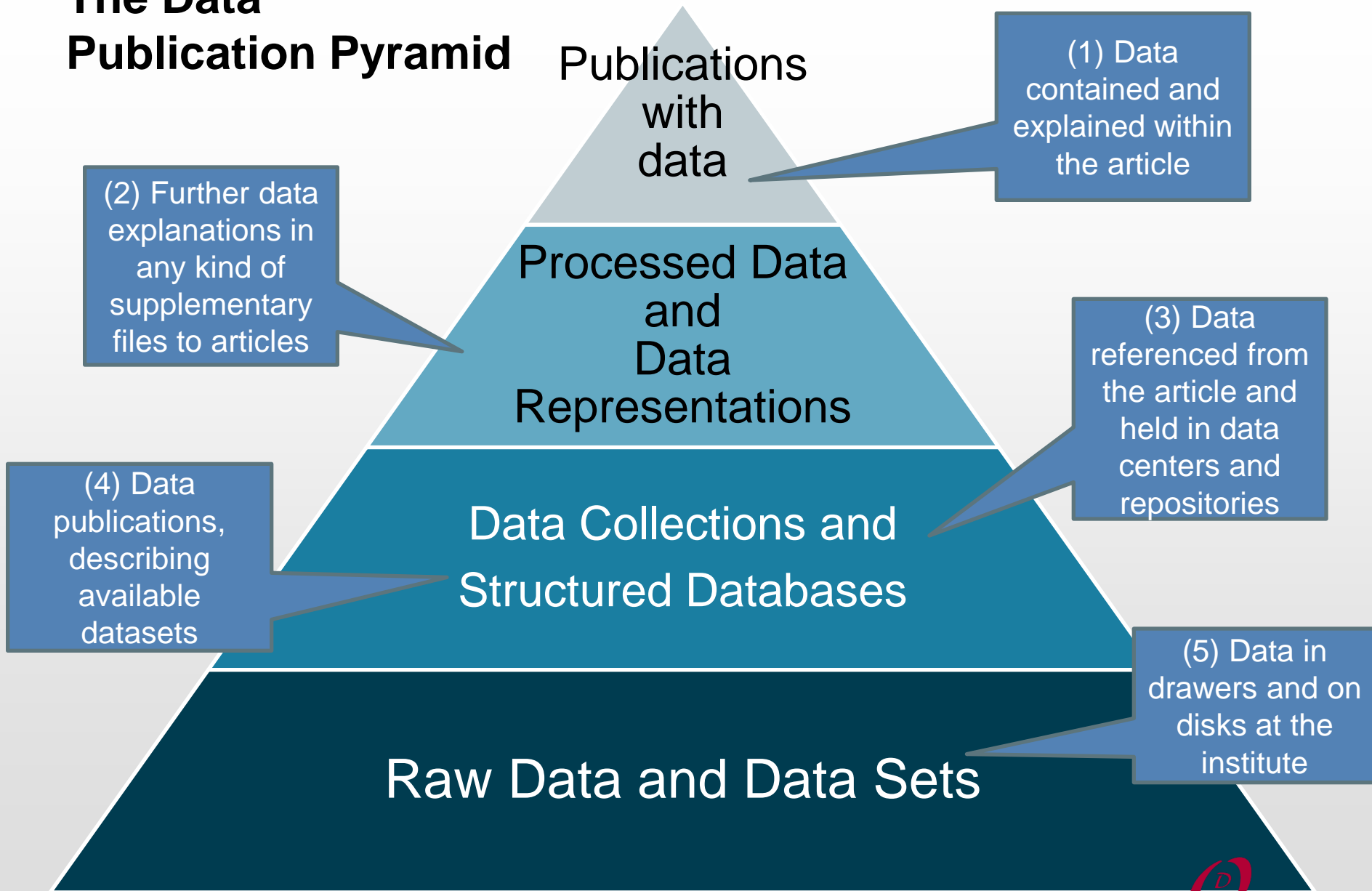
“Without the **infrastructure** that **helps scientists** manage their data in a **convenient and efficient way**, no culture of data sharing will evolve.”

Stefan Winkler-Nees
(German Research Foundation, DFG)
www.odeproject.eu



The Data

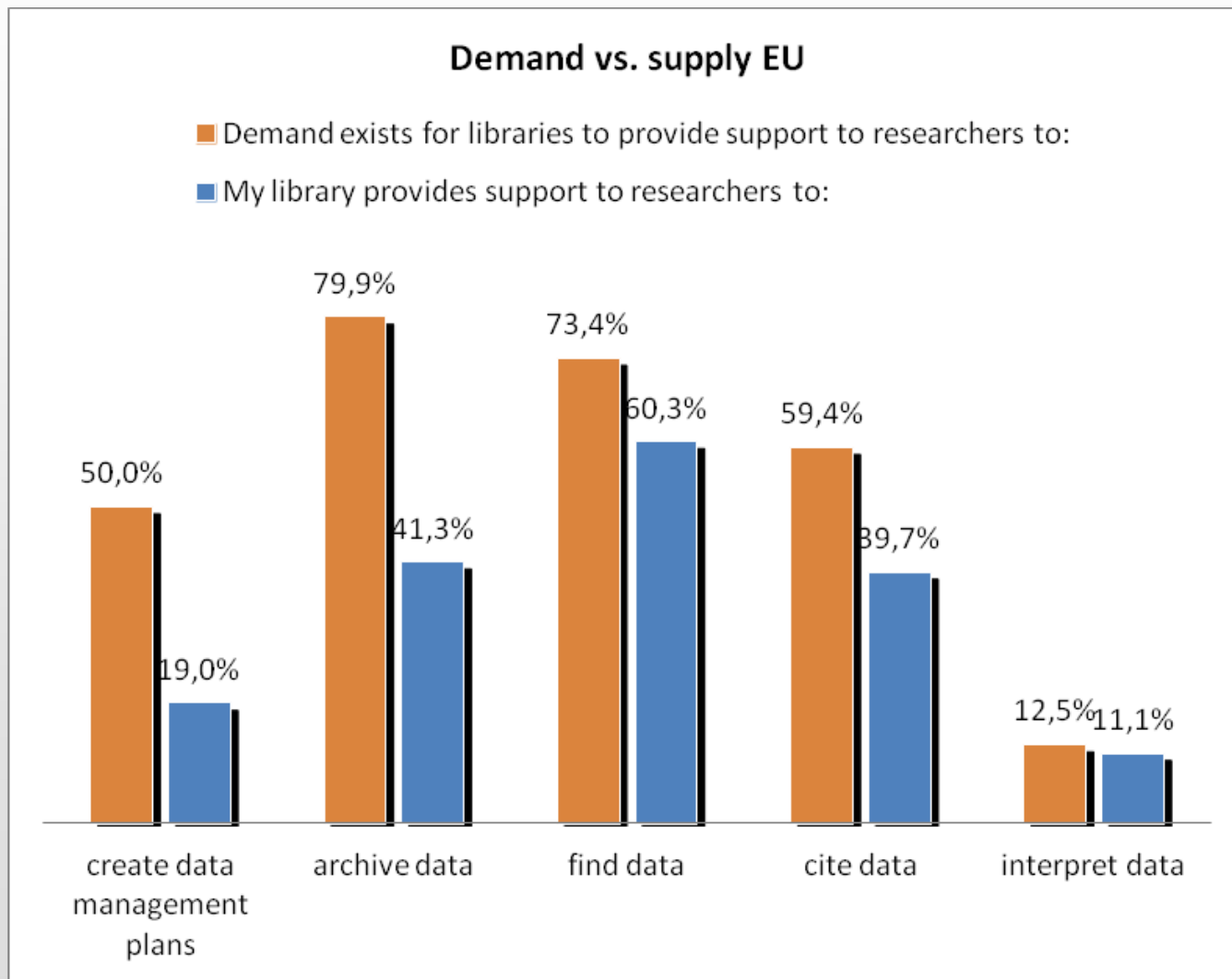
Publication Pyramid



Libraries' Opportunities

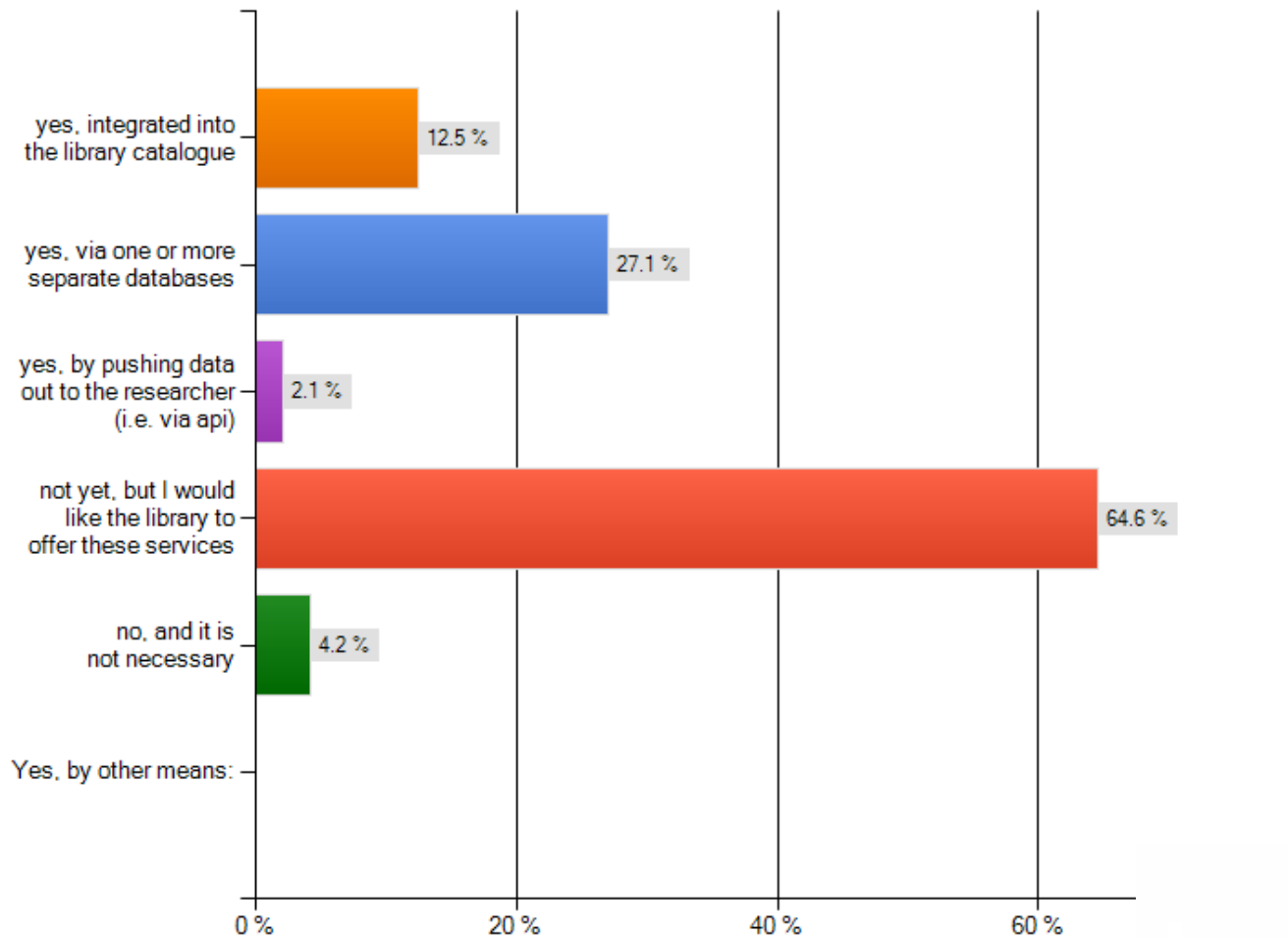
Data Issue:	Libraries and data centres opportunities (Chapter 4):
Availability	<ul style="list-style-type: none">✓ Lower barriers to researchers to make their data available.✓ Integrate data sets into retrieval services.
Findability	<ul style="list-style-type: none">✓ Support of persistent identifiers.✓ Engage in developing common metadescription schemas and common citation practices.✓ Promote use of common standards and tools among researchers
Interpretability	<ul style="list-style-type: none">✓ Support crosslinks between publications and datasets.✓ Provide and help researchers understand metadescrptions of datasets.✓ Establish and maintain knowledge base about data and their context.
Re-usability	<ul style="list-style-type: none">✓ Curate and preserve datasets.✓ Archive software needed for re-analysis of data.✓ Be transparent about conditions under which data sets can be re-used (expert knowledge needed, software needed).
Citability	<ul style="list-style-type: none">✓ Engage in establishing uniform data citation standards.✓ Support and promote persistent identifiers.
Curation/Preservation	<ul style="list-style-type: none">✓ Transparency about curation of submitted data.✓ Promote good data management practice.✓ Collaborate with data creators✓ Instruct researchers on discipline specific best practices in data creation (preservation formats, documentation of experiment,...)

Demand for data management support



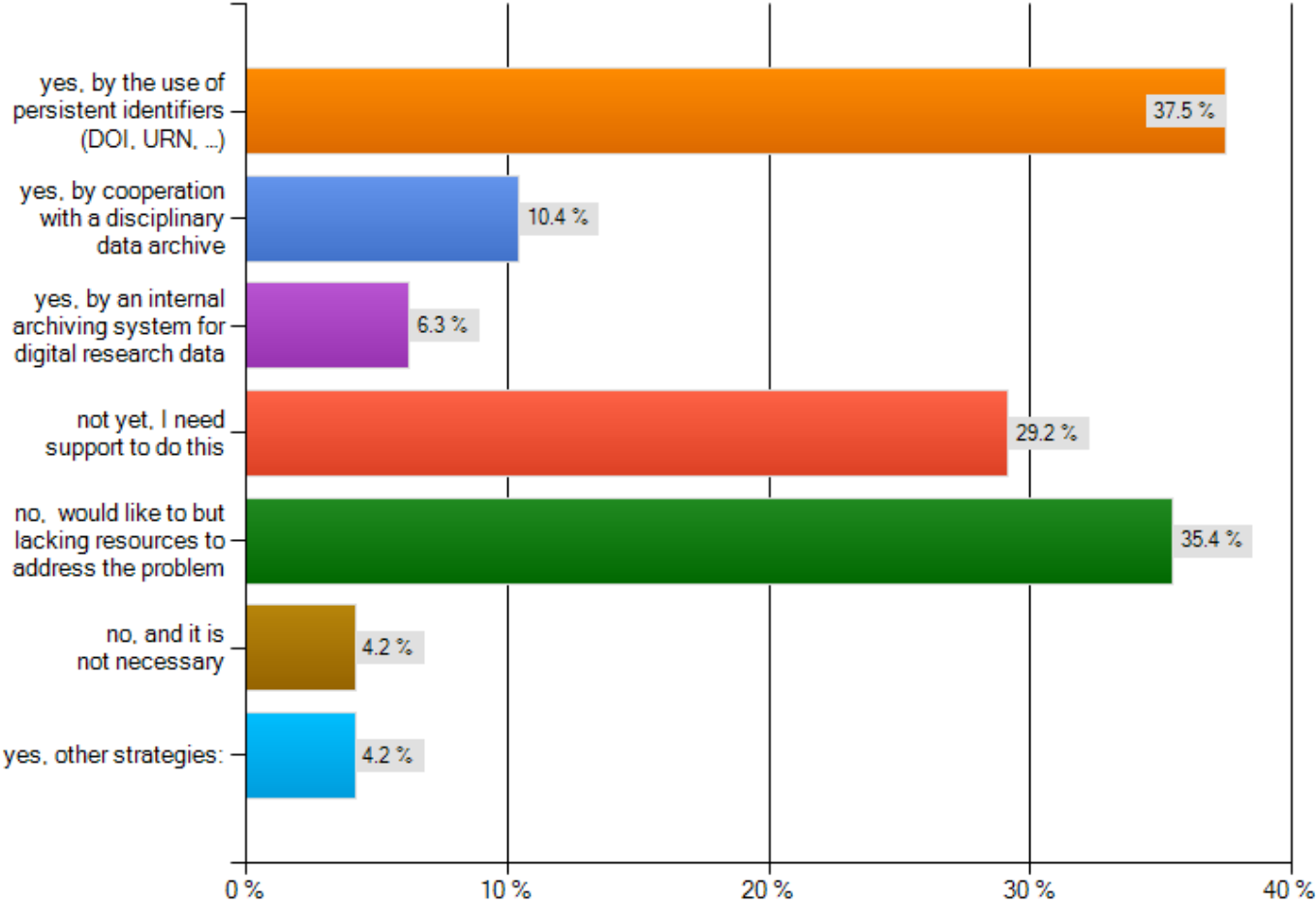
Findability

Does your library offer retrieval services for data sets? (Multiple answers possible)



Citability

Do you have strategies in place to ensure persistent identification and continued access to digital research data? (Multiple answers possible)



Advocacy

Many researchers do not appear to see the value and benefits of data citation. There is a gap, which could be filled by libraries, in advocacy for data sharing, the use of subject specific repositories, and best practice in data citation. These, if filled, would increase the number of researchers sharing and reusing data.

The issue still to be addressed is how different communities can work together to promote this activity and the status of datasets as primary research outputs and publishable works in their own right.





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What should our priorities be?

LIBER ten recommendations:

<http://www.libereurope.eu/news/ten-recommendations-for-libraries-to-get-started-with-research-data-management>

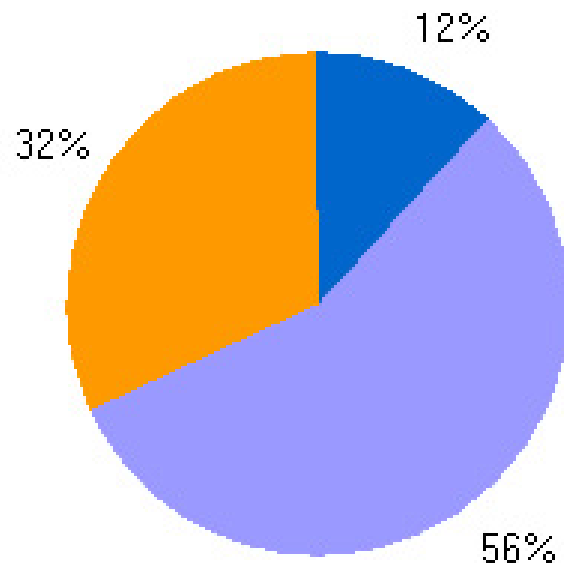
Ten recommendations for libraries to get started with research data management

1. Offer research data management support, including data management plans for grant applications, intellectual property rights advice and information materials. Assist faculty with data management plans and the integration of data management into the curriculum.
2. Engage in the development of metadata and data standards and provide metadata services for research data.
3. Create Data Librarian posts and develop professional staff skills for data librarianship.
4. Actively participate in institutional research data policy development, including resource plans. Encourage and adopt open data policies where appropriate in the research data life cycle.
5. Liaise and partner with researchers, research groups, data archives and data centers to foster an interoperable infrastructure for data access, discovery and data sharing.

6. Support the lifecycle for research data by providing services for storage, discovery and permanent access.
7. Promote research data citation by applying persistent identifiers to research data.
8. Provide an institutional Data Catalogue or Data Repository, depending on available infrastructure.
9. Get involved in subject specific data management practice.
10. Offer or mediate secure storage for dynamic and static research data in co-operation with institutional IT units and/or seek exploitation of appropriate cloud services.

1. Identify & develop skills

Do you feel that your library has the right skills to be prepared for such activities?



■ Yes

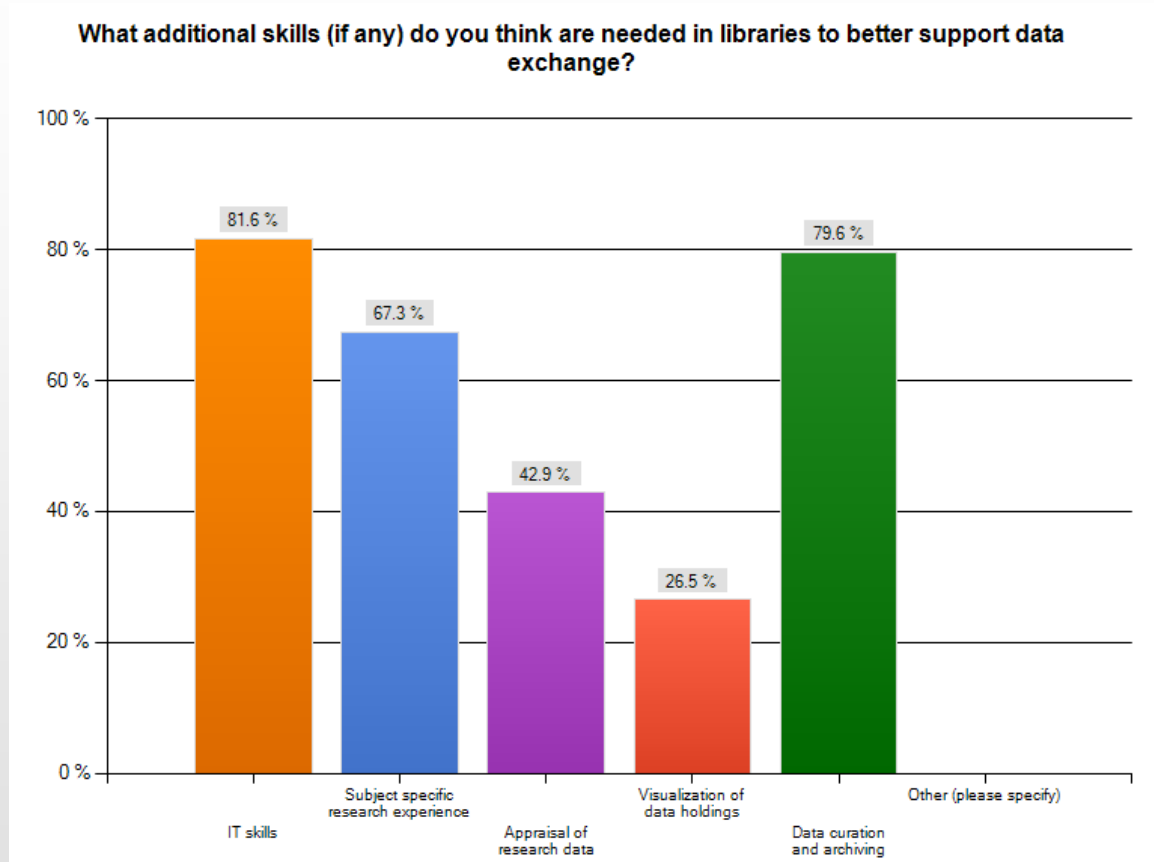
■ Not yet, but the library is investing in developing data managers, data curators, or similar skills

■ No, and my library hasn't begun to develop such skills



Opportunities for Data Exchange

What Skills ?





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Get involved!

- ❑ Research Data Alliance interest group on the long tail of data
- ❑ RECODE project on policies for open access to research data (workshop at LIBER 2014, Latvia, July 2)
www.recodeproject.eu
- ❑ LIBER working group on research data
- ❑ LIBER, ARL, COAR working group on competencies in scholarly communications for libraries www.libereurope.eu



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Merci!

Any questions?