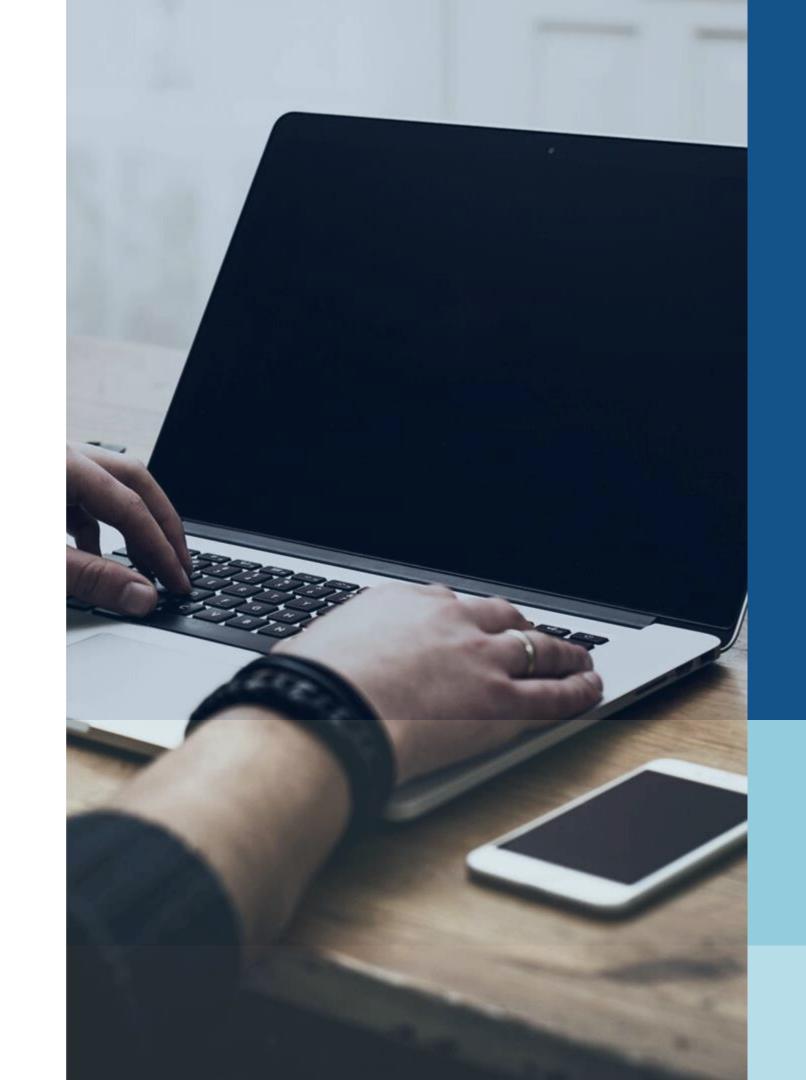
ALISE 2019

Needs Assessment of Library Data Services

Establishing Curriculum Framework For RDMLA

Presented by: Dr. Rong Tang; Zhan Hu

Simmons University, SLIS





- Background & Literature
- **Research Questions**

- Method
- Results
- Conclusion





The Research Data Management Librarian Academy (RDMLA) is a free online professional development program for librarians, information professionals, or other professionals who work in a research-intensive environment throughout the world.

RDMLA features a unique partnership between a LIS academic program, academic health sciences and research libraries, and Elsevier, which financially supported the program.

Partner institutions include:

















Find out more about the RDMLA community here: RDMLA Community.

RDMLA Curriculum

The RDMLA curriculum focuses on the essential knowledge and skills needed to collaborate effectively with researchers on data management. The curriculum features Eight Online Self-paced Learning Units that covers topics such as the foundations of research data management (RDM), research culture, advocating and marketing for RDM services in libraries, project management, overview of research data management tools and etc.

BACKGROUND





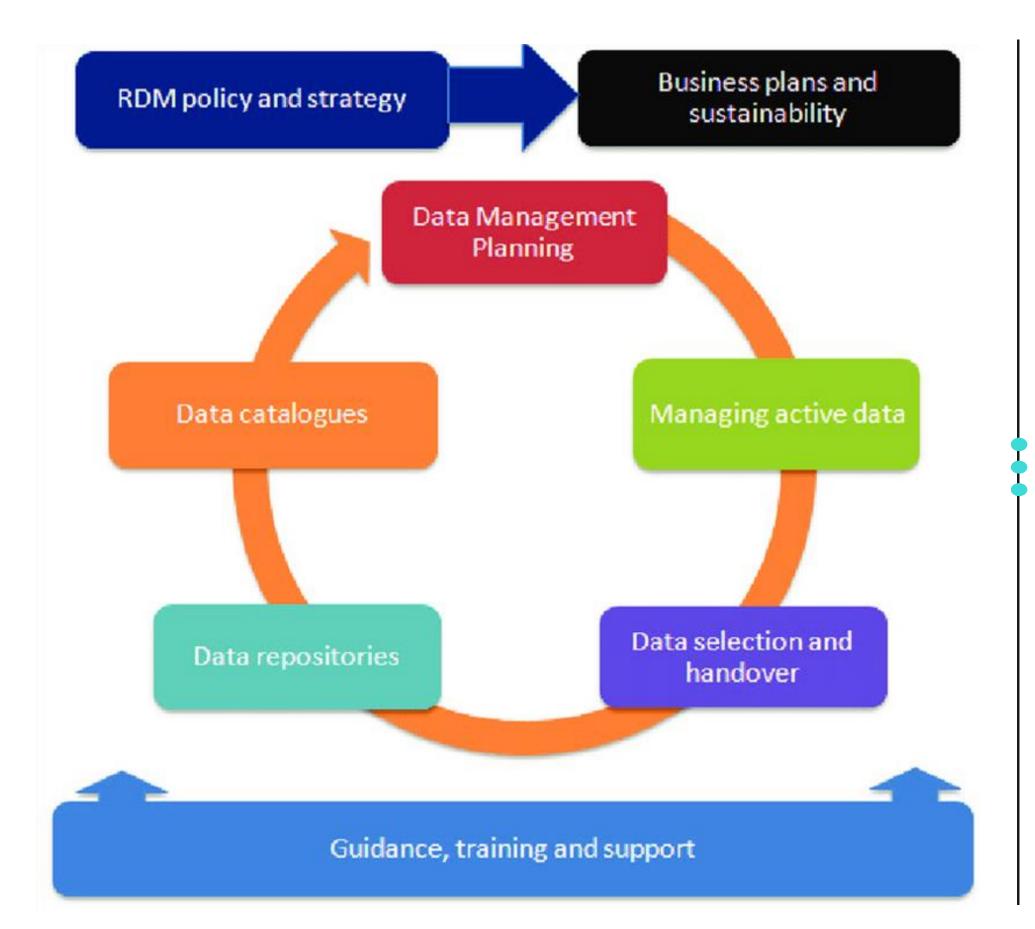
- Needs assessment survey
- LIS Educators' email survey
- Data librarian positions competency scan



Establishment of RMDLA Curriculum

- Eight course units
- The RDMLA units are hosted online on Canvas under CC-BY-NC-SA (Attribution-

NonCommercial-ShareAlike) licensing



LITERATURE

Components of RDM Services (Jones, Pryor & Whyte, 2013)

Varying degree of success in RDM Services

(Perrier, Blondal, and MacDonald 2018, p. 173)

- Although libraries play a role in research data management (RDM) at academic institutions
- They have experienced varying degrees of success with the development of RDM support and services given this expanded responsibility"

LITERATURE:

Current State of Practice

Current Services provided by ARL-affiliated libraries

(Antell, Foote, Turner, Shults, 2014)



RDM Maturity in libraries

(Cox, Kennan, Lyon, & Pinfield, 2017)



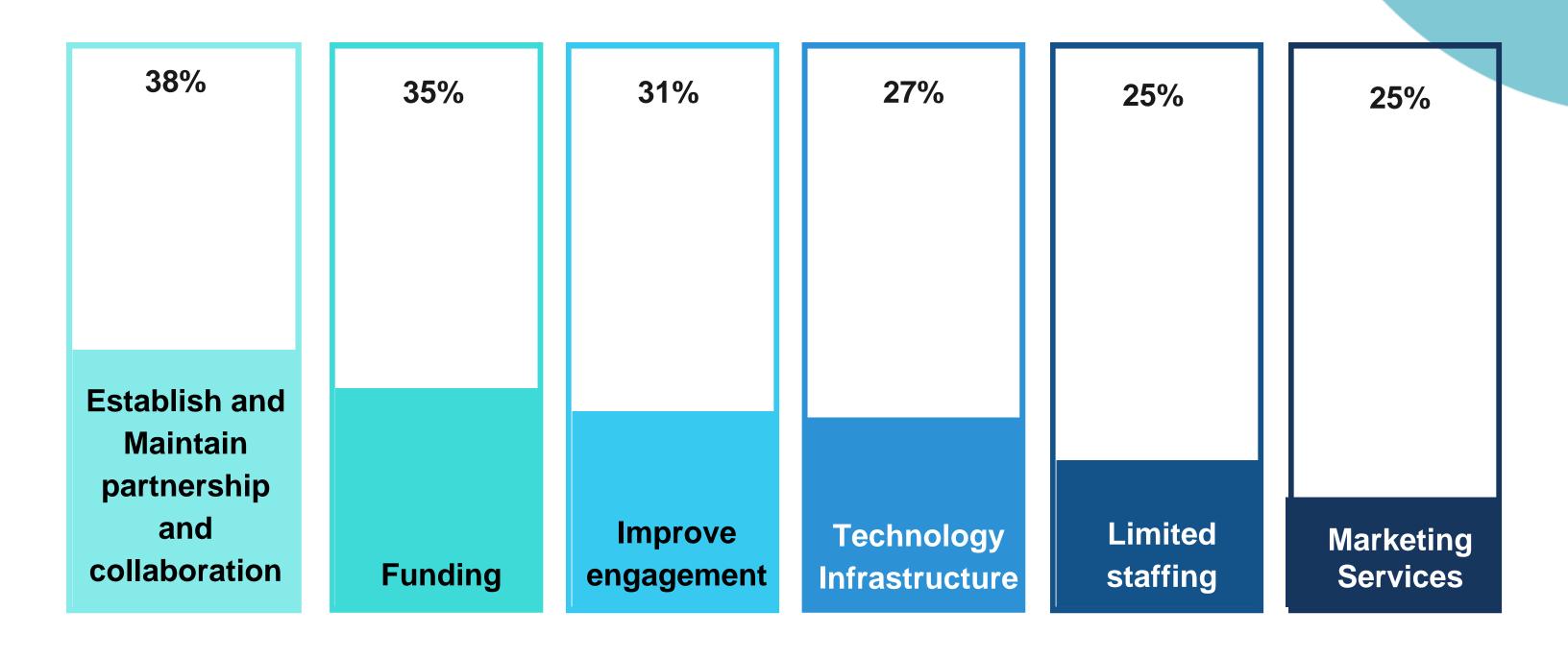
LITERATURE:

RDM Maturity

Top Six Challenges RDM Services

(Fearon, Gunia, Lake, Pralle, & Sallans, 2013)

LITERATURE: Challenges



RESEARCH QUESTIONS



What is the state of current practice of RDM services in libraries?



What role do librarians play in providing RDM services?



What knowledge and skills do librarians view as needed for RDM training?



How do participants see the evolving role of RDM librarianship?

Method

Data Collection

Online survey containing 19 questions distributed to international LIS Community

Responses

N=241.

Number of response to each question varied

Survey Open Period

May – Early September, 2018

Data coding

Two authors coded open ended responses together, developed the coding scheme, and cross-validated the coding results for 2.5 months

Geographical Distribution



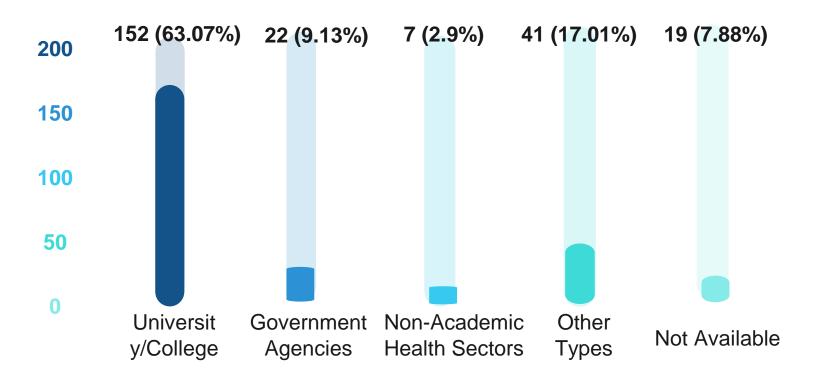
North America: N=198

Europe: N= 21

Africa: N = 5

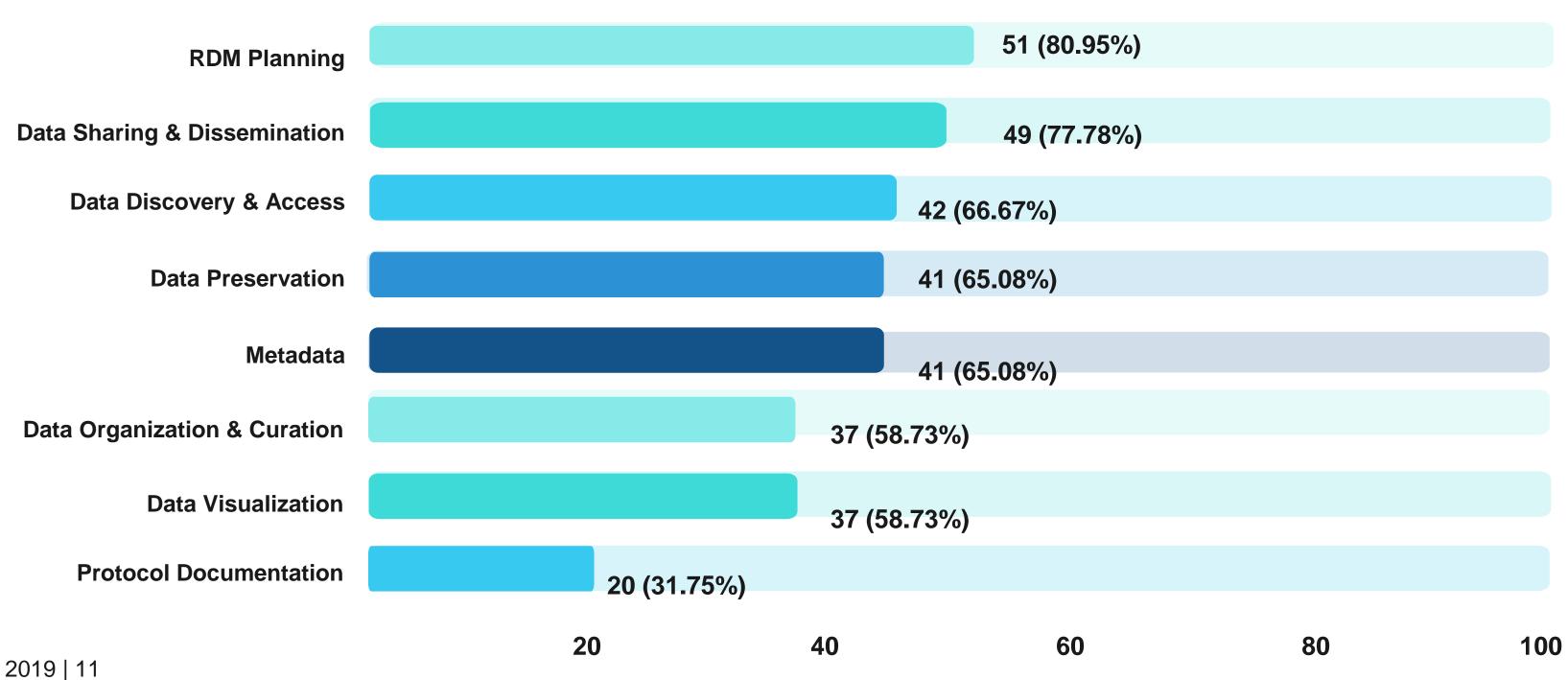
South America: N = 4

Asia Pacific: N = 13

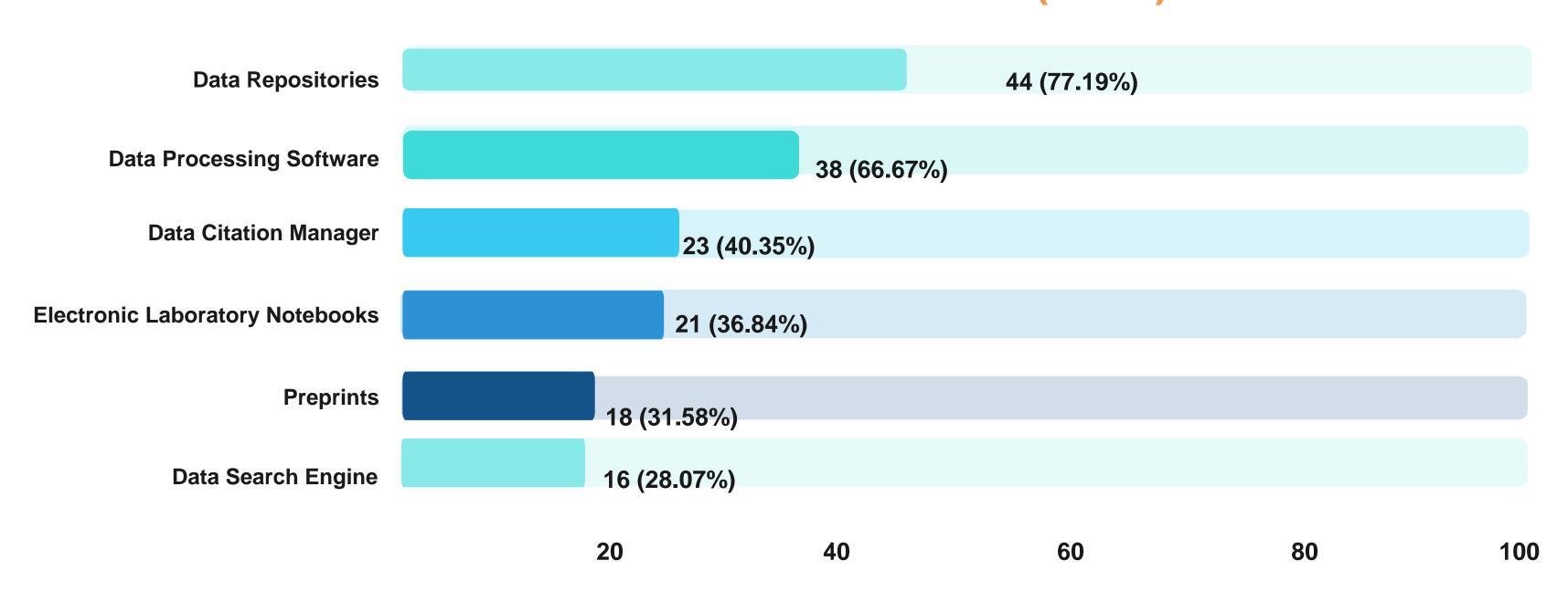


Organizational Types

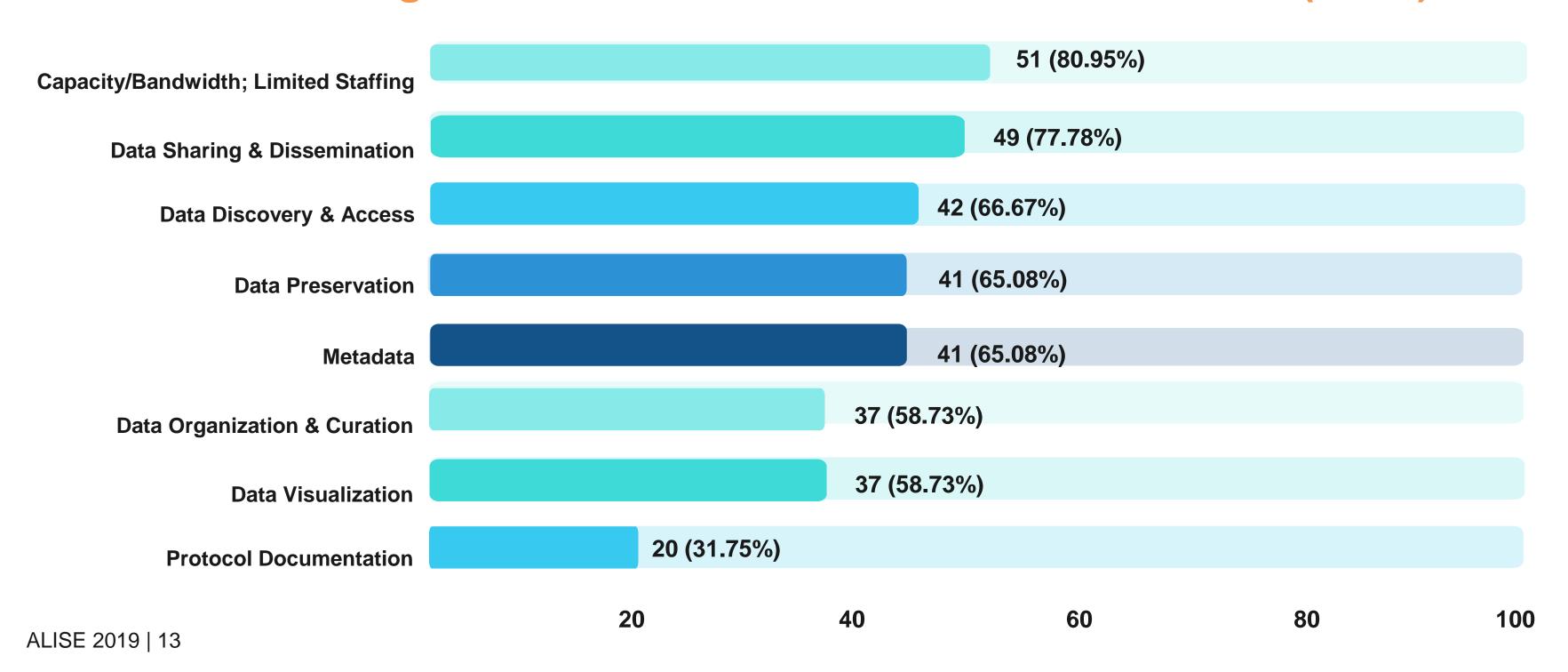
Kinds of RDM Services Provided (N=63)



Kinds of RDM Tools Used (N=57)

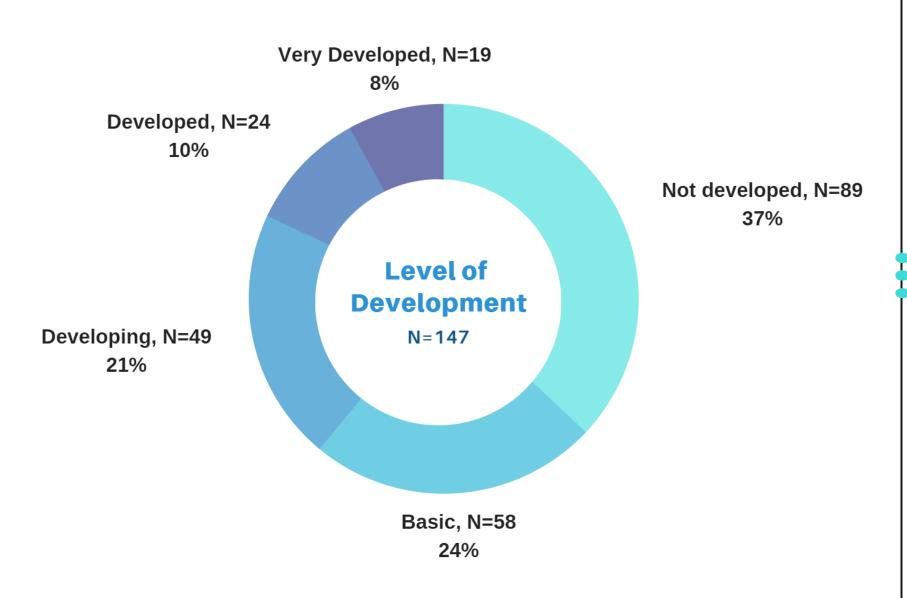


Challenges Libraries Face in RDM Service Provision(N=54)

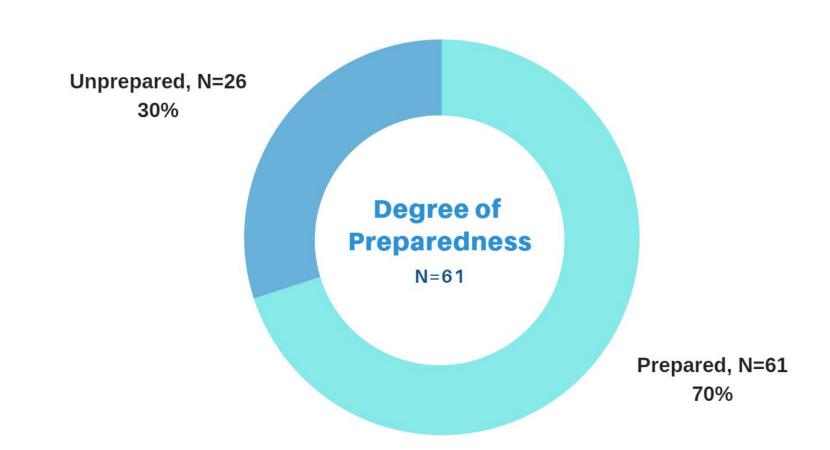


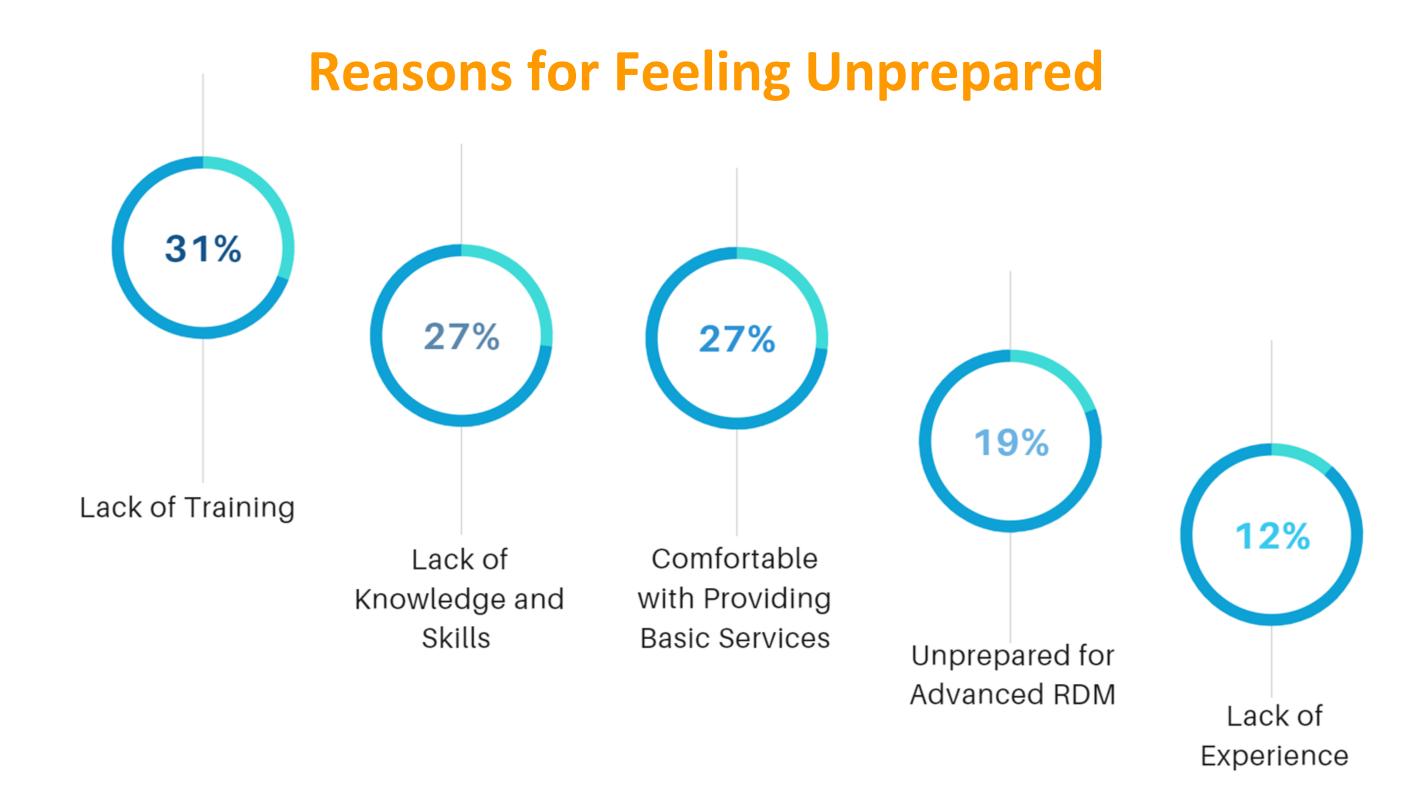
Librarian's Role in RDM

Levels of Development (N=147)

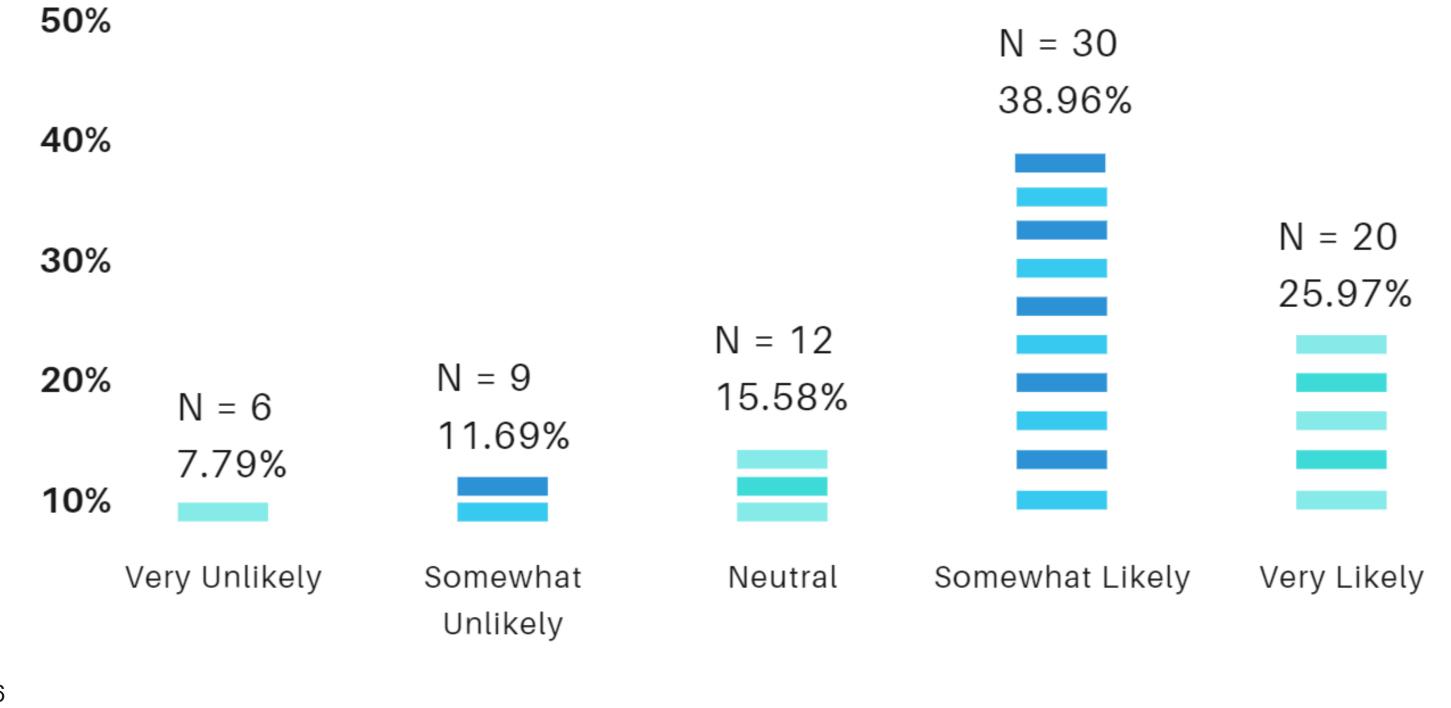


Degree of Preparedness (N=61)

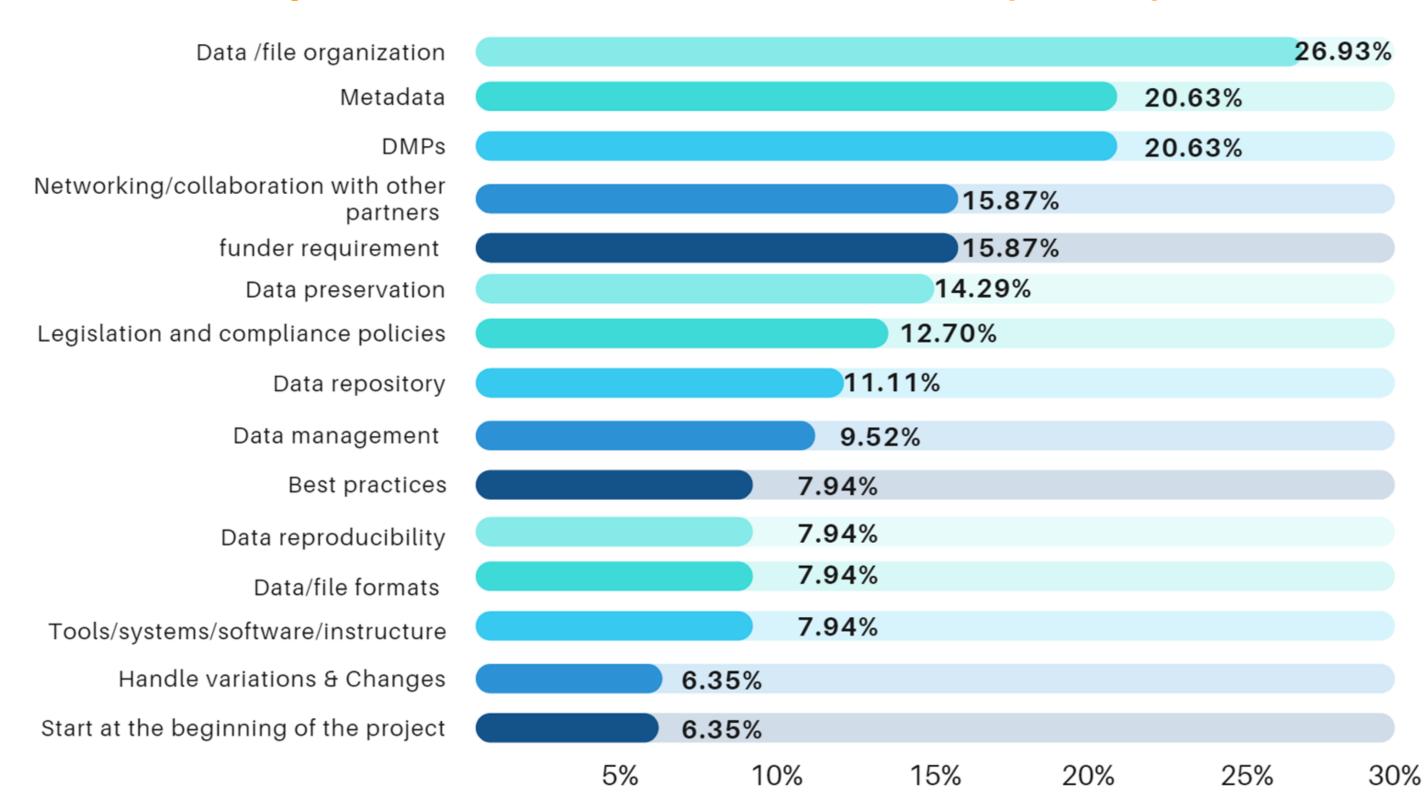




Likelihood of participating in online training (N=77)

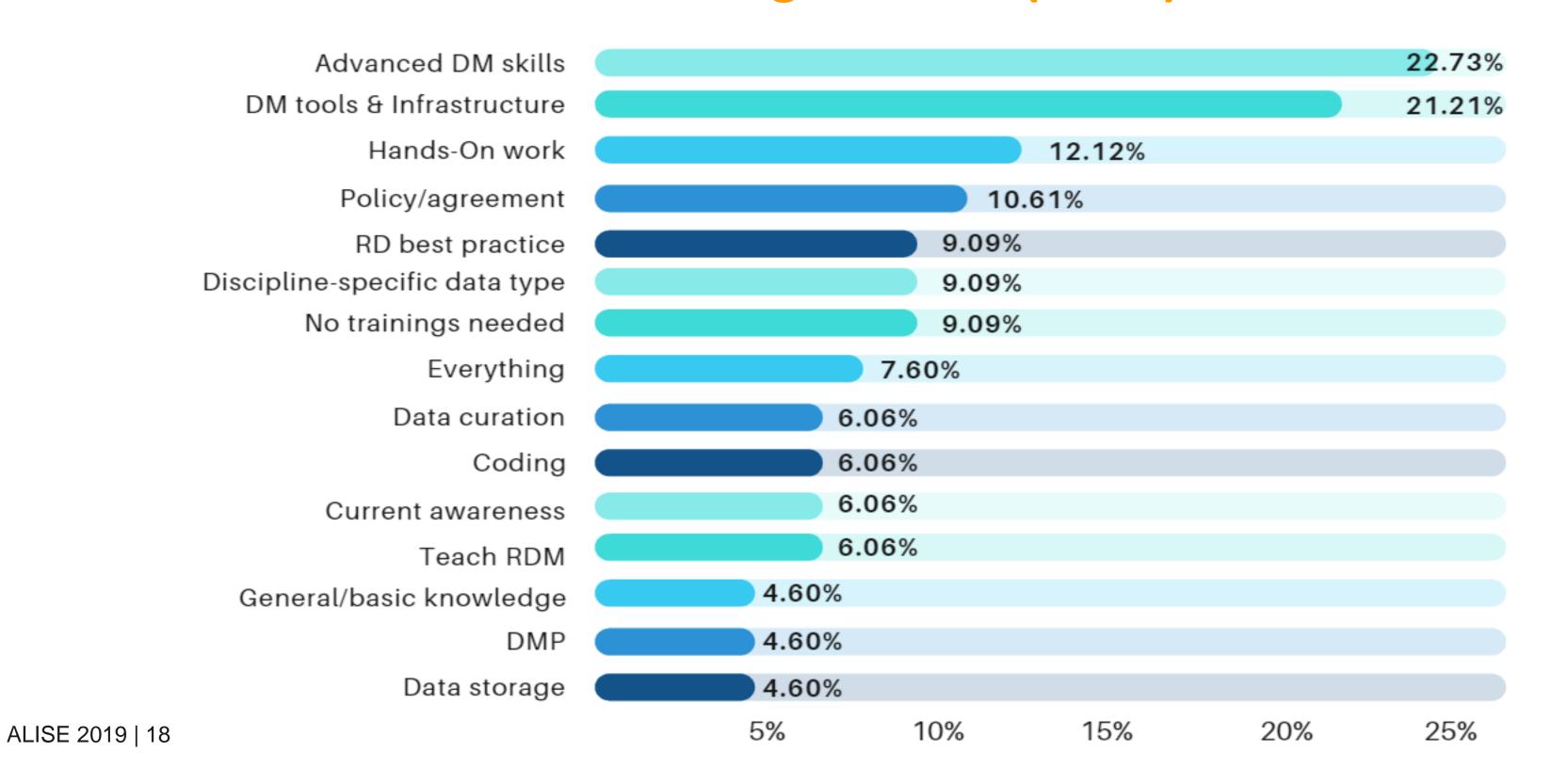


Top Three Essential RDM Skills (N=63)



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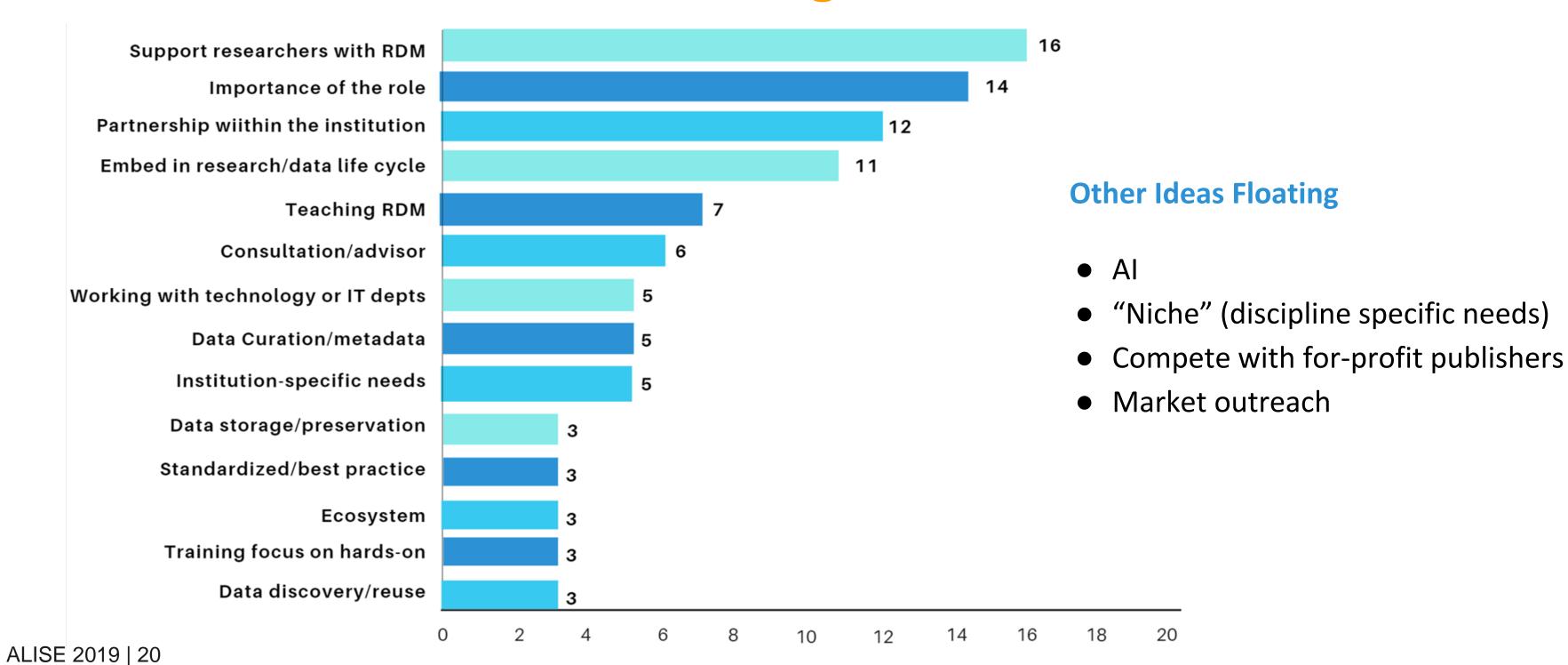
Further trainings needed (N=66)



RDM Training for Librarians and for Researchers

RDM Training for Librarians (N=61)	RDM Training for Researchers (N=68)
 Data services/science skills (13, 22.95%) Skills regarding data reference services (11, 15.3%) Basic training (8, 13.11%) Connecting with the researcher and faculty (8, 13.11%) Depending on the knowledge that the librarians have and their institutional needs (6, 9,84%) All levels of trainings (5, 8.20%) 	 Data management/data processing (12, 17.65%) Data storage/data preservation (11,16.18%) DMP (9, 13.24%) Data sharing/data dissemination(9, 13,24%) Data file/documentation (8, 11.76%) All/everything (7, 10.29%) Education/training (7, 10.29%) Software/systems/tools (7, 10.29%) Metadata (7, 10.29%)

Librarian's evolving role in RDM



Librarian's evolving role in RDM - Quotes

In participant's own words:

"I am the only librarian by degree in a data services group of six people; I think data viz, GIS, DH, etc. are attracting a wide variety of people, but RDM is a place where librarians excel because it speaks to our strengths for making information documented and discoverable. As collections are seen as data and data as collections and as researchers now want to use natural language processing and machine learning on subscription library resources- we are key parts of the ecosystem."

Data in library collections:

Multiple respondents believed that data will become a content type, similar as articles, books, and should be made as a part of library system that can be searched, retrieved and downloaded as if it is a e-journal article. Library discovery system has to be configured to support easy access and retrieval of data collection.

Conclusion

- Provides insights into the current
 RDM practices and challenges
 - a majority of the respondents recognizing importance of and hoping to receive more training
 - while expressing concerns of lack of bandwidth or capacity in this area
 - In order to grow RDM services, the institutional commitment to resources and training opportunities is crucial.

As an emergent profession, data librarians need to be nurtured and further trained.

Through RDMLA, librarians around the world will form a community of learning and cultivate the advancement of RDM.

Reference

Jones, S., Pryor, G., & Whyte, A. (2013). How to Develop Research Data Management Services - a guide for HEIs. DCC How-to Guides. Edinburgh: Digital Curation Centre.

Peeier, L., & Samp; Barnes, L. (2018). Developing research data management services and support for researchers: A mixed methods study. Partnership: The Canadian Journal of Library and Information Practice and Research, 13(1), 1-23.

Perrier, L., Blondal, E., & MacDonald, H. (2018). Exploring the experiences of academic libraries with research data management: A meta-ethnographic analysis of qualitative studies. Library & Information Science Research, 40(3-4), 173-183.

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Fearon, D., Gunia, B., Pralle, B.E., Lake, S., & Sallans, A. L., (2013). Research data management services. SPEC Kit 334. Washington, DC: Association of Research Libraries. doi:10.29242/spec.334

Tenopir, C., Sandusky, R. J., Allard, S., & Samp; Birch, B. (2014). Research data management services in academic research libraries and perceptions of librarians. Library and Information Research, 36, 84-90.



QUESTION?

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ABOUT RDMLA



- Canvas course site open: October 7, 2019
- RDMLA Website: https://rdmla.github.io/
- Contact: rdmla.help@gmail.com
- RDMLA Course site demo in ASIS&T Product Theater, October 20

THANK YOU!