



In Aggregate: Trends, Needs, and Opportunities from Faculty Research Data Management Surveys

Abigail Goben, MLS

Tina Griffin, MLS


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US Federal Data Management


- National Science Foundation Data Management Plan Requirement (2011)
- Office of Science and Technology Policy Memo (2013)
- HR 1770 / S760 OPEN Government Data Act (2017)





What **are** the
educational needs of
faculty
(and staff, graduate
students,
undergraduates, etc) at
my institution?





Let's do a
survey!

How many exist
and are there
general
conclusions?



Methodology

- Searched LISTA, Google Scholar
- Reviewed reference and citation lists of identified articles
- Categorization and Coding
 - General Article Information
 - Instrument Metadata
 - Needs Assessment Audience
 - Question Types
 - Needs Assessment Results
 - Library Outcomes



Criteria

➤ Inclusion Criteria

- Case Studies
- Focused on RDM needs and behaviors of researchers
- Single or multi-institution
- Discipline specific or agnostic
- Survey, focus groups, or interview methodologies
- United States institutions
- Published or completed manuscript prior to December 2016

➤ Exclusion Criteria

- International or undefined population
- Library RDM service implementation
- Case studies of general library service evaluation
- Not a conference presentation or poster only





Results

50

potential studies

35

documents

33

unique case studies



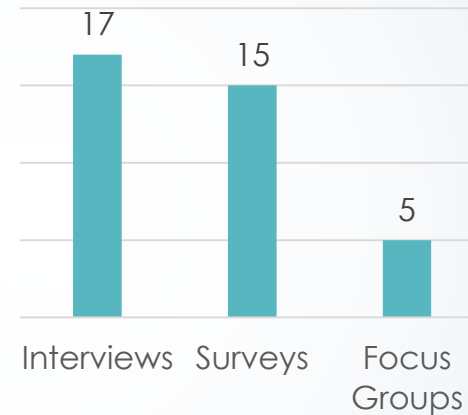
Results: Study Demographics

- ▶ Publication Dates (2007-2016)
 - ▶ Highest years of publication: 2015 (n=9); 2014 (n=4)
- ▶ Place of publication
 - ▶ 22 journals; 3 white papers; 1 unpublished manuscript
- ▶ Number of Authors (1-6)
 - ▶ Most common number of authors was 2 (n=15)
- ▶ Type of Institution
 - ▶ Highest Research, Doctoral Granting [Carnegie Classification] (n=24)
 - ▶ Public Institutions (n=25)



Results: Case Study Methodology

- Interviews, Surveys, and Focus Groups
- Count of Methodology Type



- Response Size/Rate
 - Interviews: 5-56 participants
 - Surveys: 5%-65.6% of target population
 - Focus Groups: 8-31 participants
- Instrument availability
 - ~60% were available as appendices or supplemental documents



Results: Recruitment and Respondents



Created by Lorena Salagre
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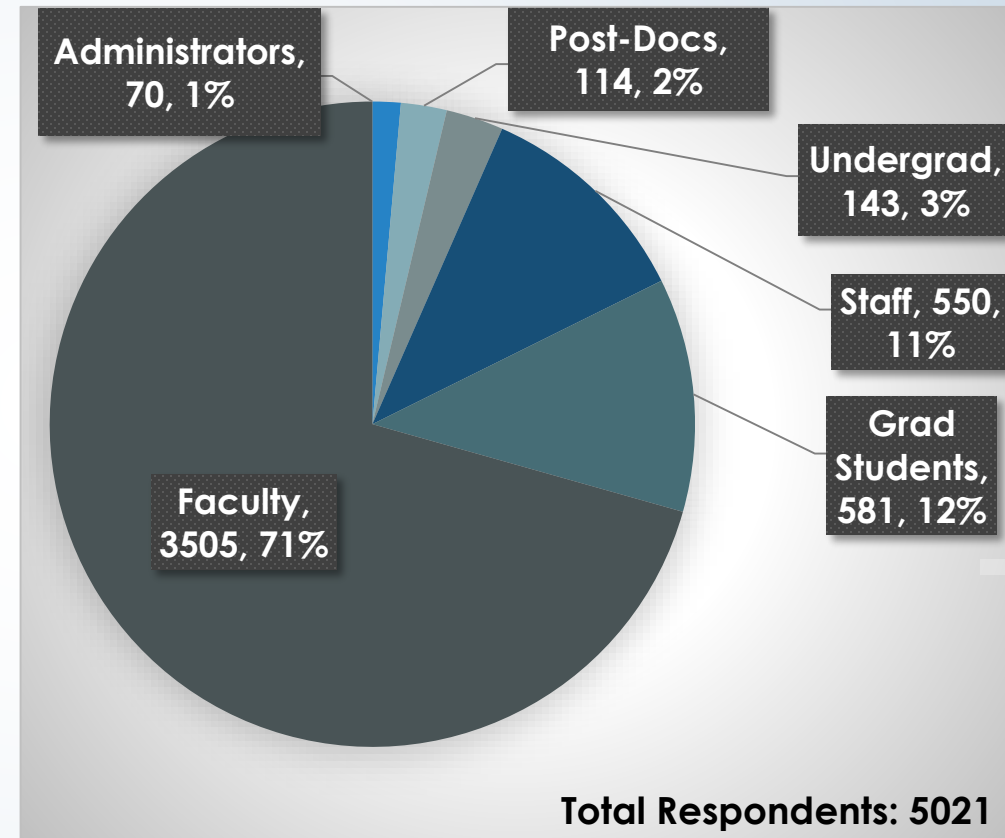


Created by Alex Kwa
from Noun Project

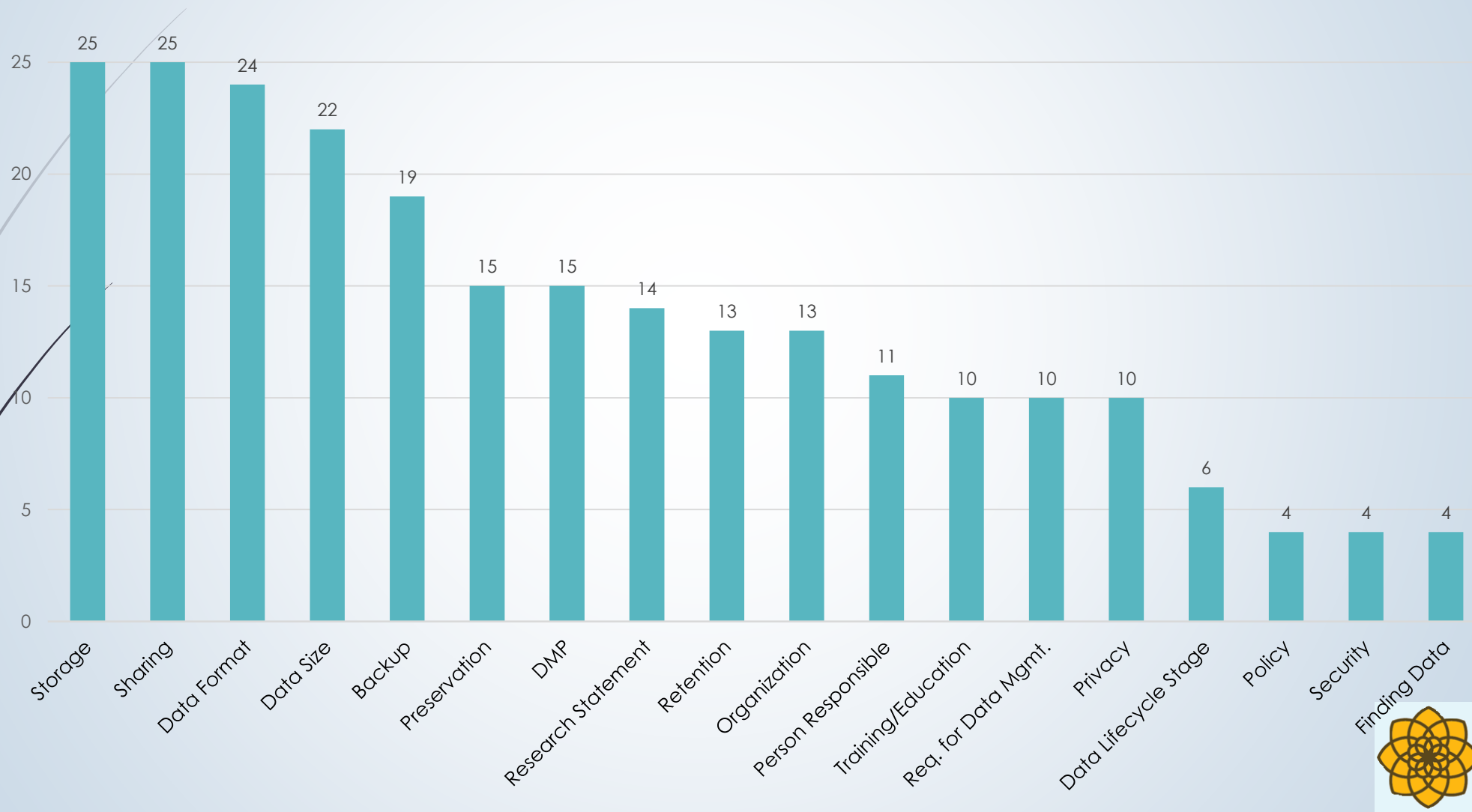


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Faculty Only
n=21



Questions Administered





50%

Storage; Data
Sharing; Format;
Data Size; Backup

25-50%

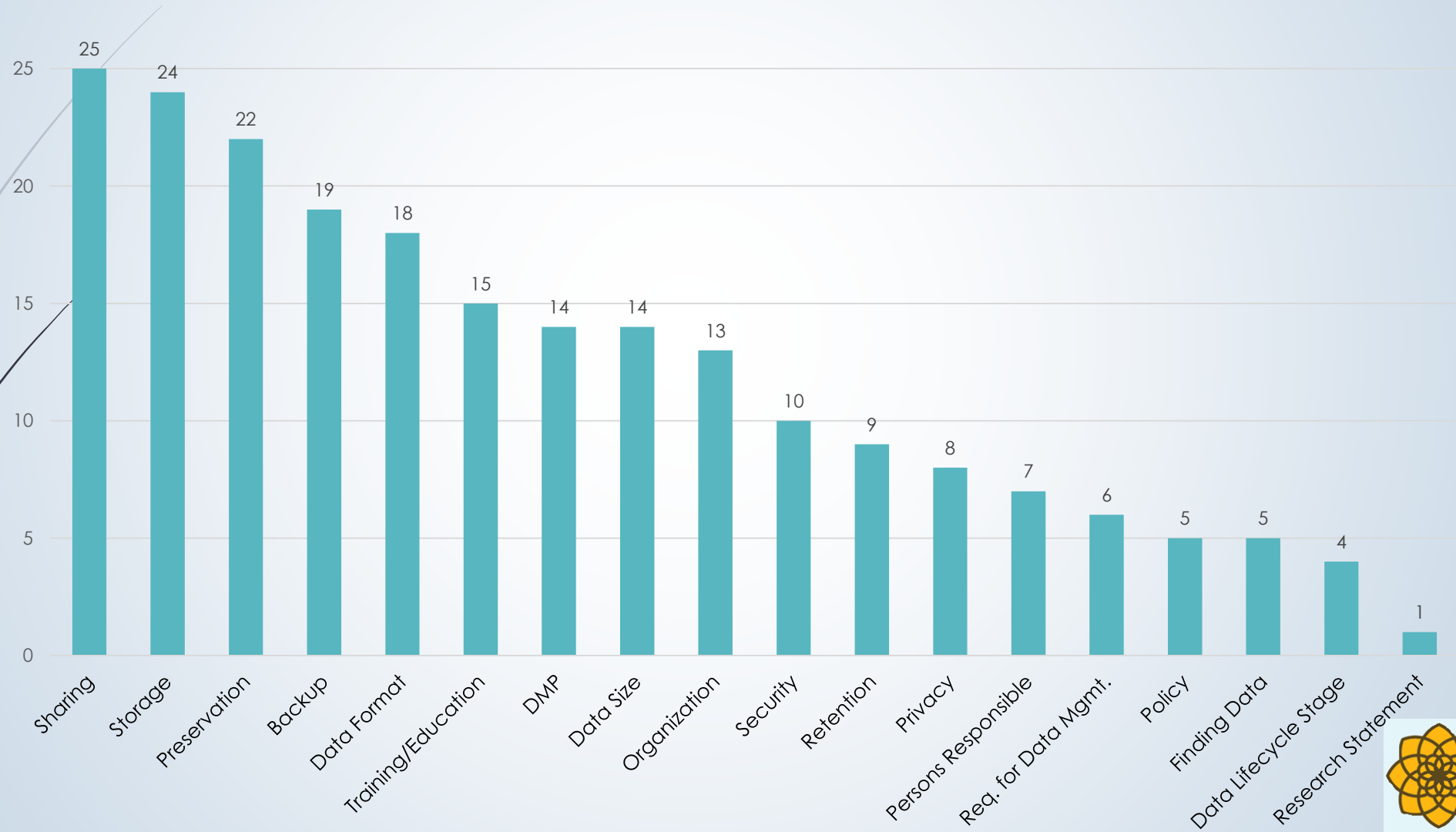
Preservation; DMPs;
Statement of Research;
Retention; Organization;
Persons Responsible for
Data;
Training/Education; DM
Requirements; Privacy

>25%

Security; Policy; Life Cycle;
Finding Data



Results Discussed





50%

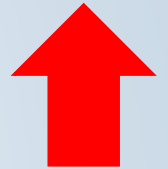
Preservation;
Storage; Data
Sharing; Data Type;
Backup

25-50%

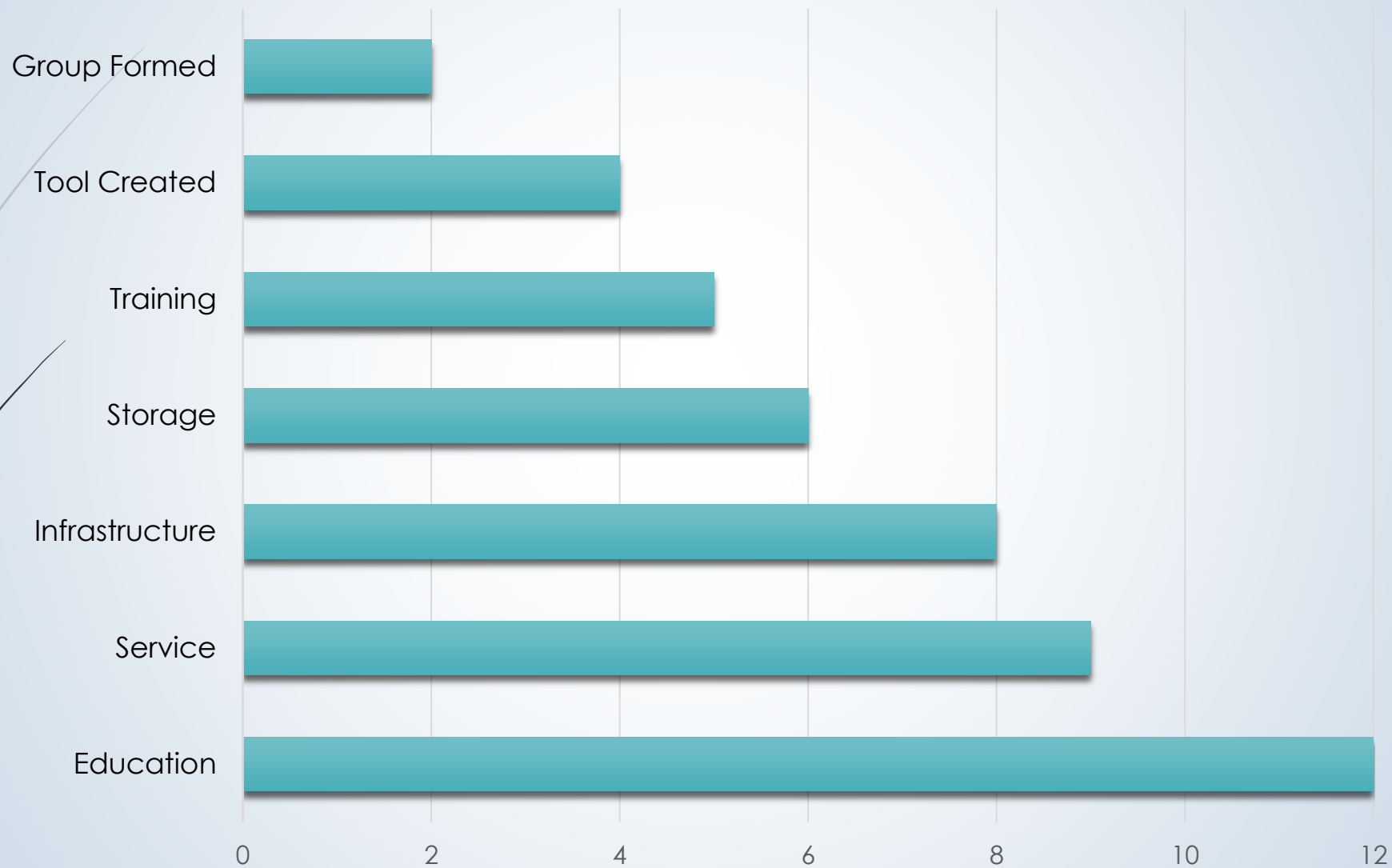
Security; DMPs;
Retention; Organization;
Training/Education; Data
Size

>25%

Policy; Life Cycle; Finding
Data; Persons Responsible
for Data; Privacy; Statement
of Research; DM
Requirements



Outcomes Implemented



Discussion: Findings

- These needs assessments are being published by public research institutions
- The majority have an extremely low response rate
- Post-docs, staff, and undergraduates are not clearly represented
- STEM/STEM Adjacent most heavily represented
- Training and Education needs were expressed in nearly 50% of the case studies
- Sharing data is a major concern
- Both active and preservation storage are problematic



Recommendations

- ▶ Future research may be needed to address
 - ▶ Non-faculty audience (staff, students)
 - ▶ Liberal Arts; Community Colleges; Smaller Research Institutions
 - ▶ Humanities, Business, and Social Science Scholars
- ▶ Future research unlikely to be needed
 - ▶ Only faculty needs assessments
 - ▶ Highest Research, Doctoral Institutions
- ▶ Reuse available survey instruments
- ▶ Release full survey instruments, sources, and modifications



Questions?

Abigail Goben agoben@uic.edu; @hedgielib

Tina Griffin tmcg@uic.edu; @tmcgriffin

