# E-Scholarship and New Roles for Research Libraries

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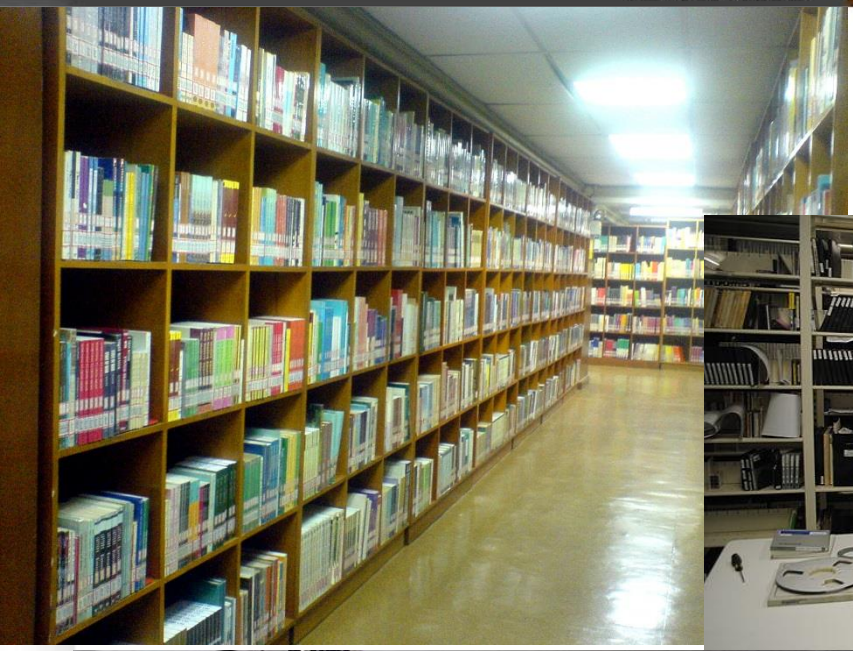

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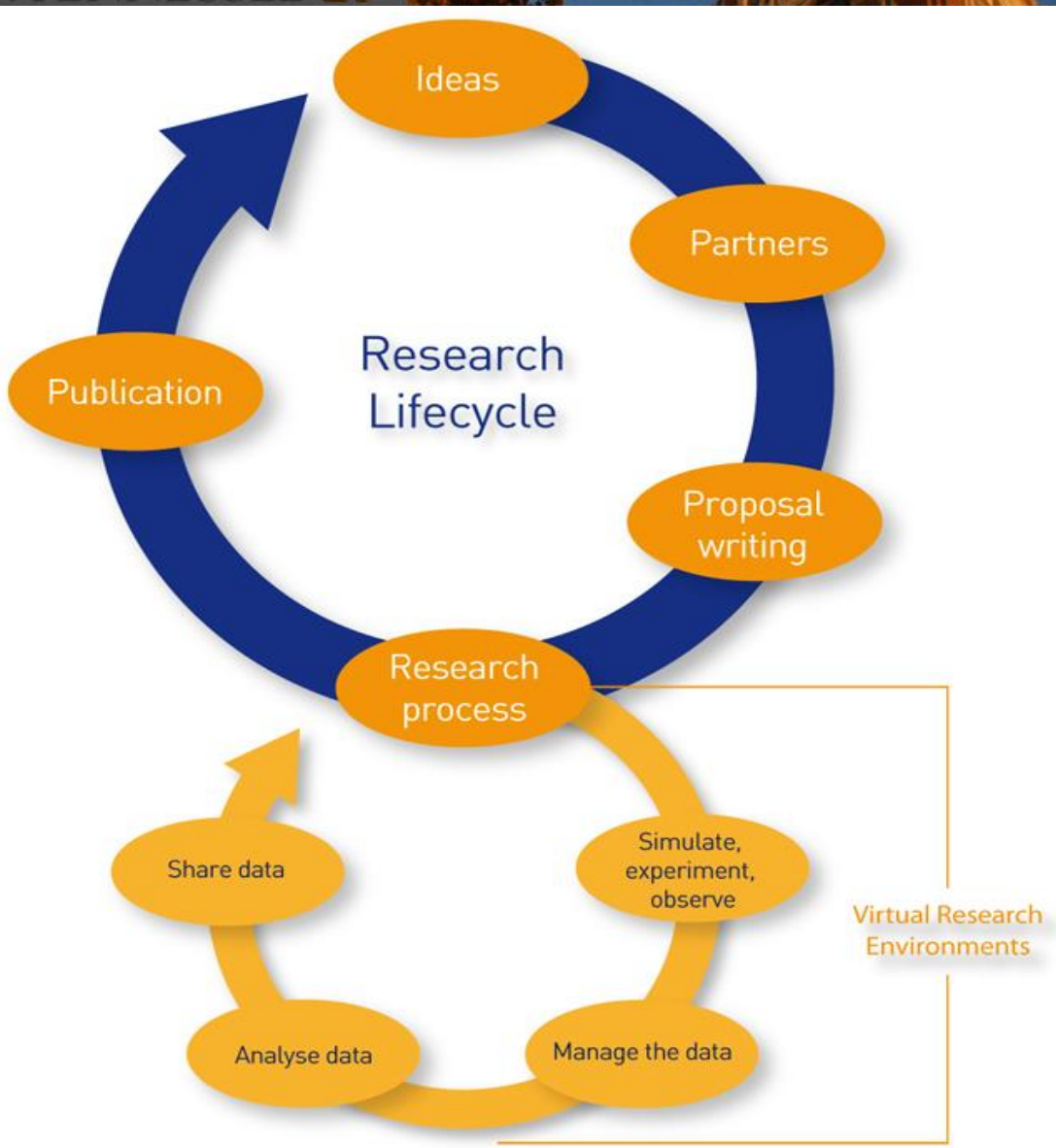


Jisc 2014
http://www.jisc.ac.uk/whatwedo/campaigns/res3/jischelp.aspx

# Areas transforming scholarship:

1. Awareness of Research Data Management
2. Increase in Open Access alternatives
3. Growth of Collaborative Scholarship

# Research Data Management

DataONE

**DataONE mission:** Enable new science and knowledge creation through universal access to data about life on earth and the environment that sustains it. (dataone.org)

# DataONE Assessment of Stakeholders

## Data Managers

## Public Officials

## Publishers

## Scientists

## Students & Teachers

## Citizen-scientists

## Libraries & Librarians

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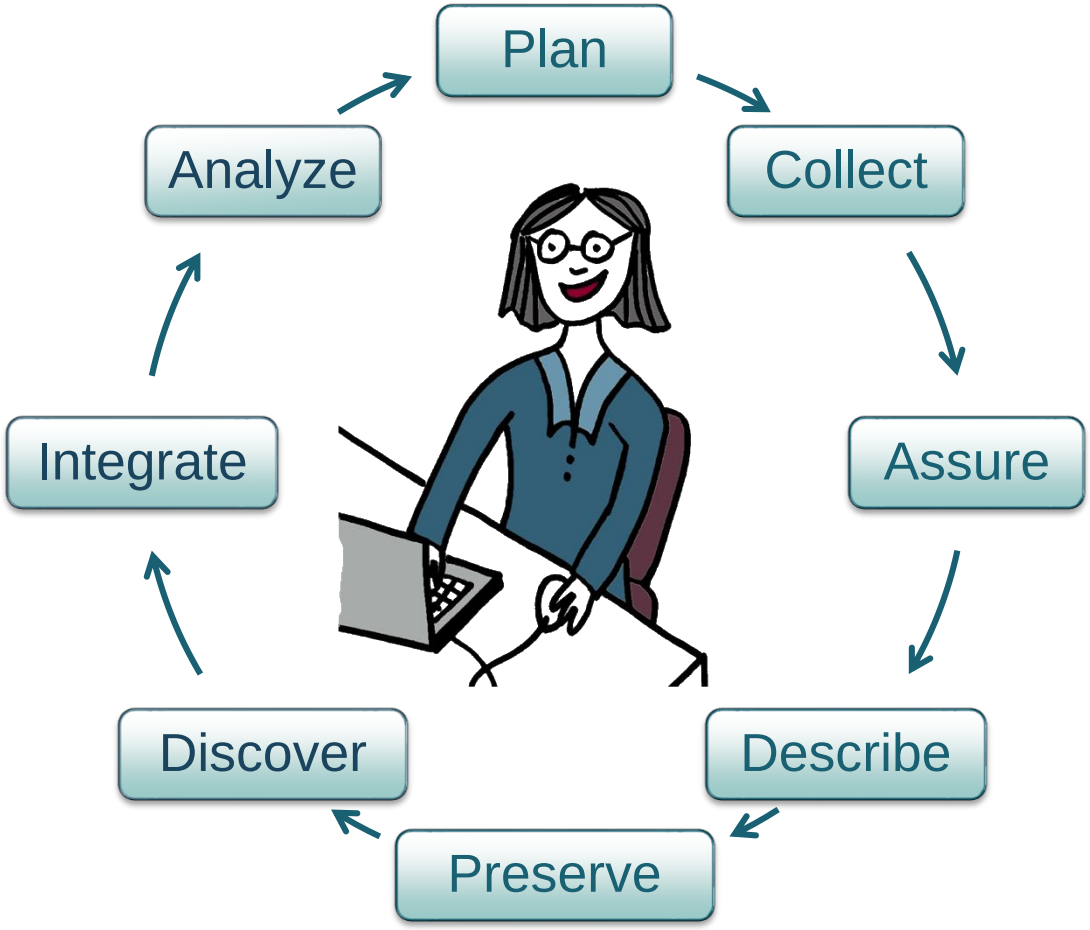
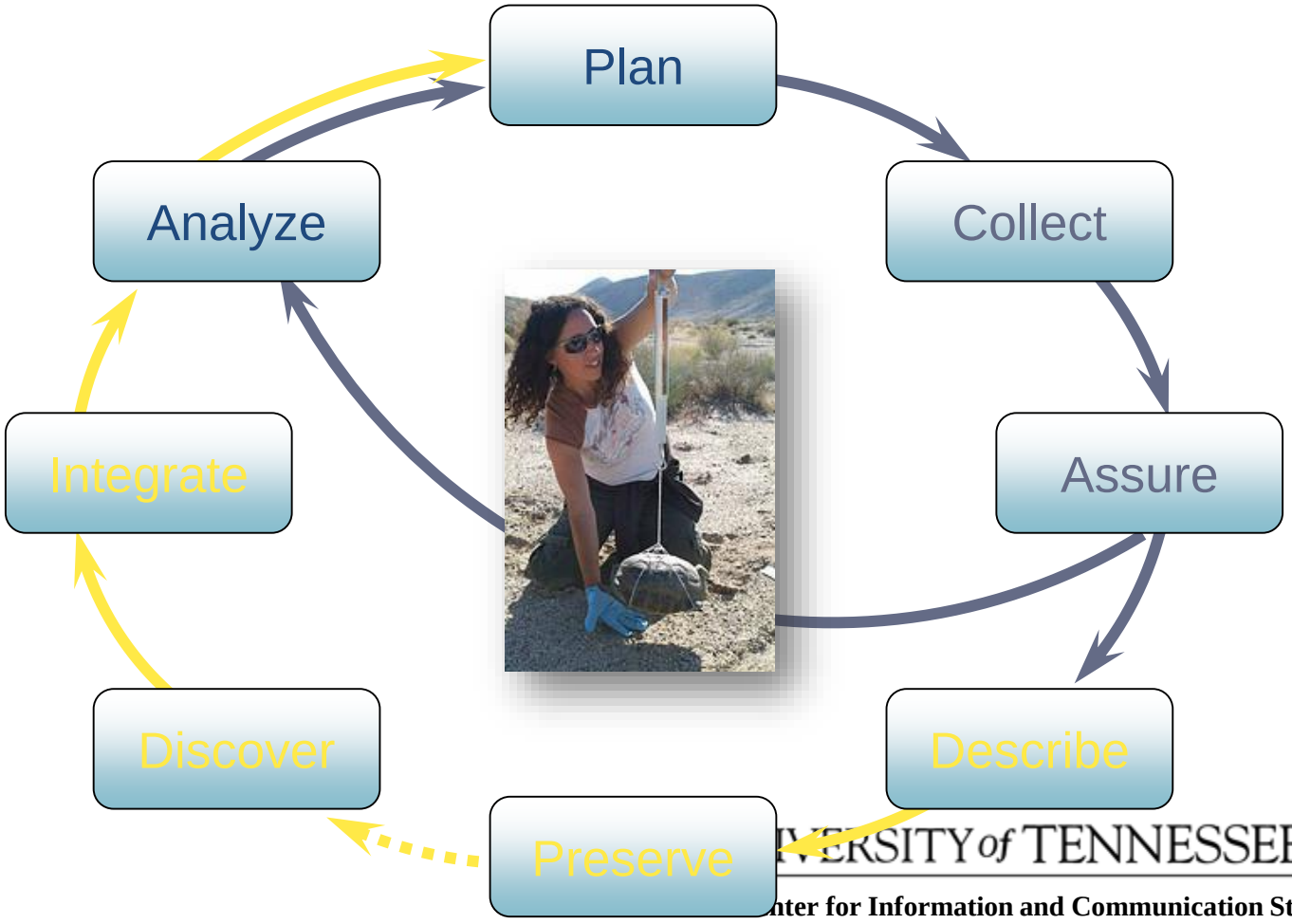
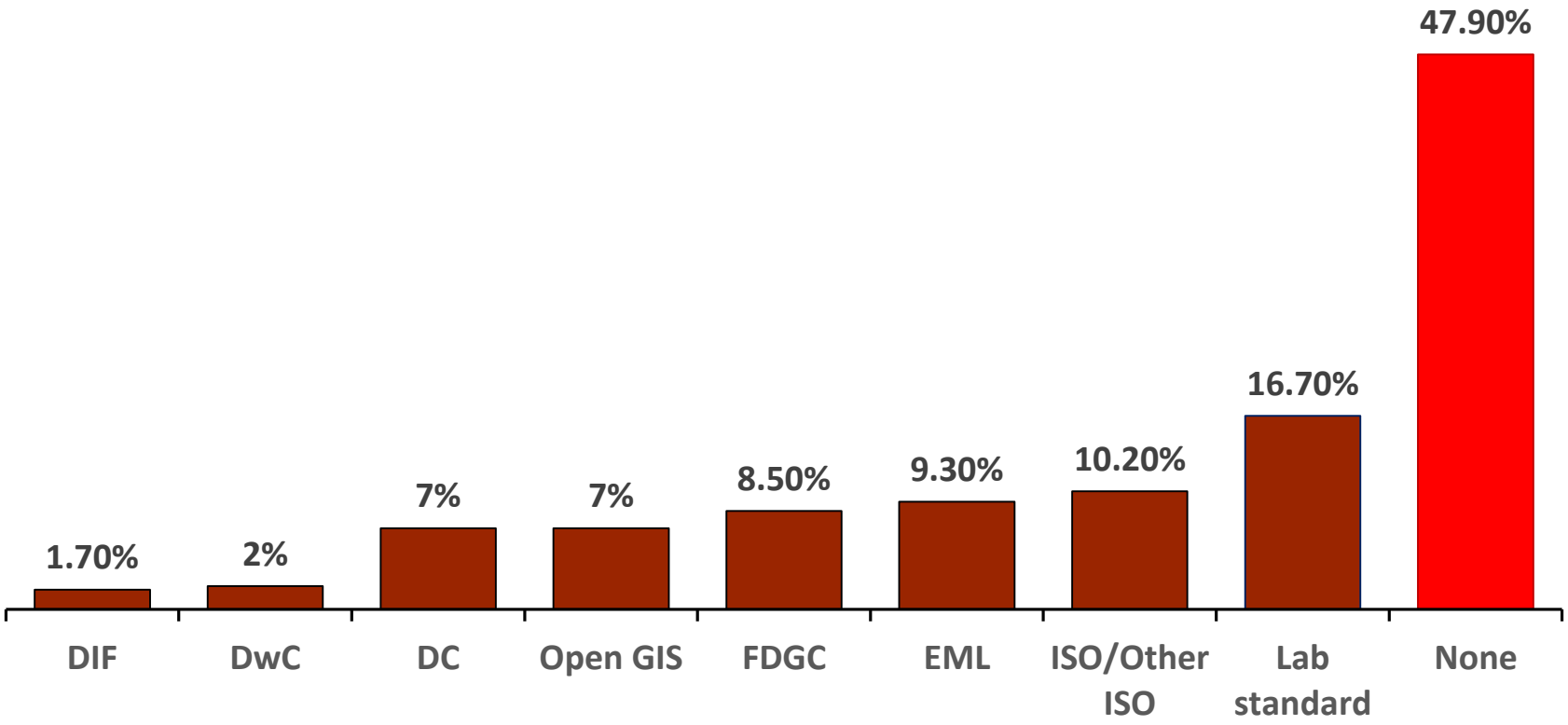
# DataONE Data Lifecycle



# Researchers might…



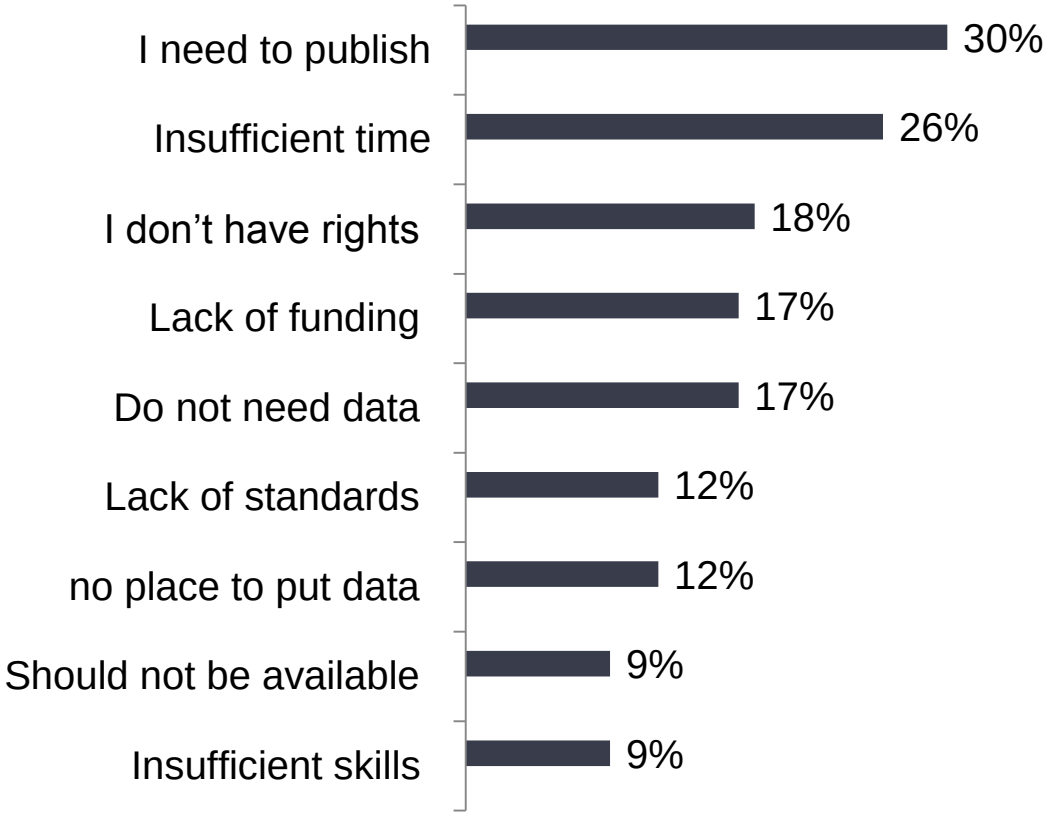
# What metadata do you currently use to describe your data? (2014)



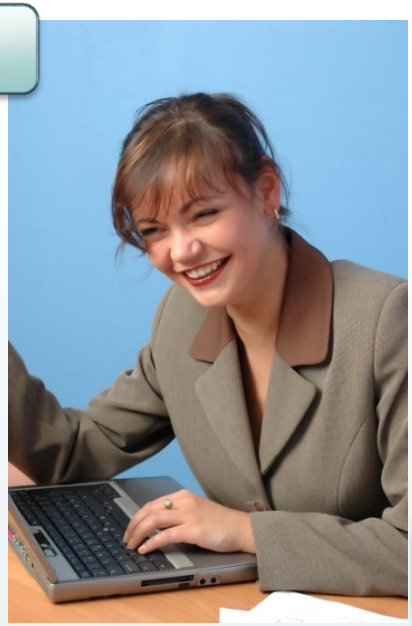
# Gap between willingness to share and accessibility (2014)

- Although 80% of scientists agree "I share my data"
- Only 46% agree "Others can access my data easily"

# Reasons for Not Making Data Electronically Available (2014)



# Librarian & Library Roles



Plan

data management plans

Collect

Collecting best practices

Assure

Describe

Metadata services

Preserve

Stewardship role (select & deselect)

Discover

Systems for discovery

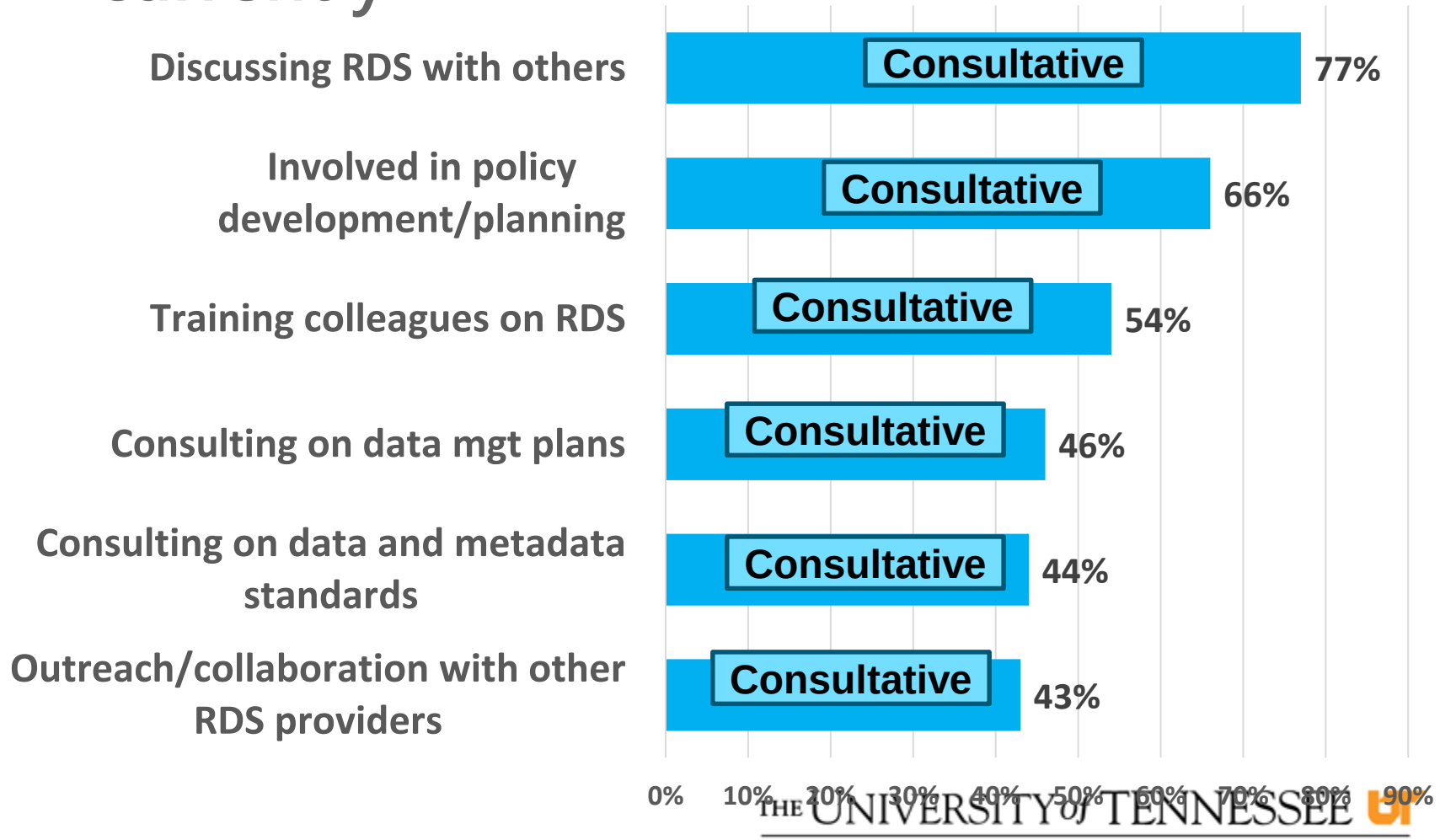
Integrate

Instruction

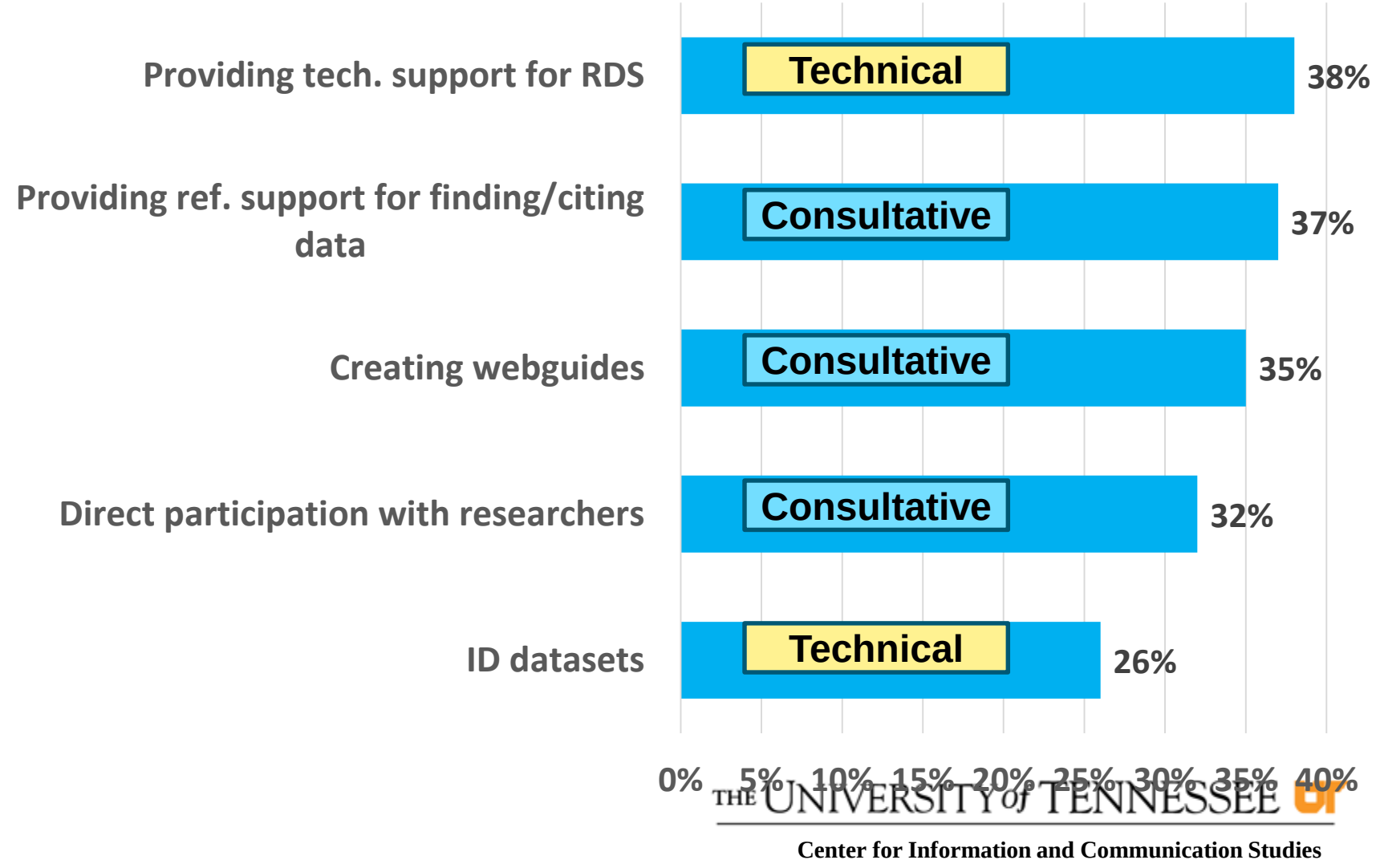
Analyze

Partnering with researchers

# RDS offered by most European libraries currently



# RDS offered in European libraries



# Research Data Services in libraries

- RDS are important and consistent with library mission and role
- Libraries are at an early point in transition to RDS—requiring resetting of priorities, realignment of responsibilities, and opportunities to develop skills
- A new generation of data services librarians are being educated
- Other librarians need opportunities to develop RDS skills

# 2. Increase in Open Access alternatives coupled with conflicting views of open access

# Pay It Forward: Imagining a Gold Open Access World

## The Andrew W. Mellon Foundation

UC DAVIS AGGIES

HARVARD UNIVERSITY

University of California CDL California Digital Library

THE UNIVERSITY OF CALIFORNIA DAVIS

UBC THE UNIVERSITY OF BRITISH COLUMBIA

OHIO STATE

UCI University of California, Irvine

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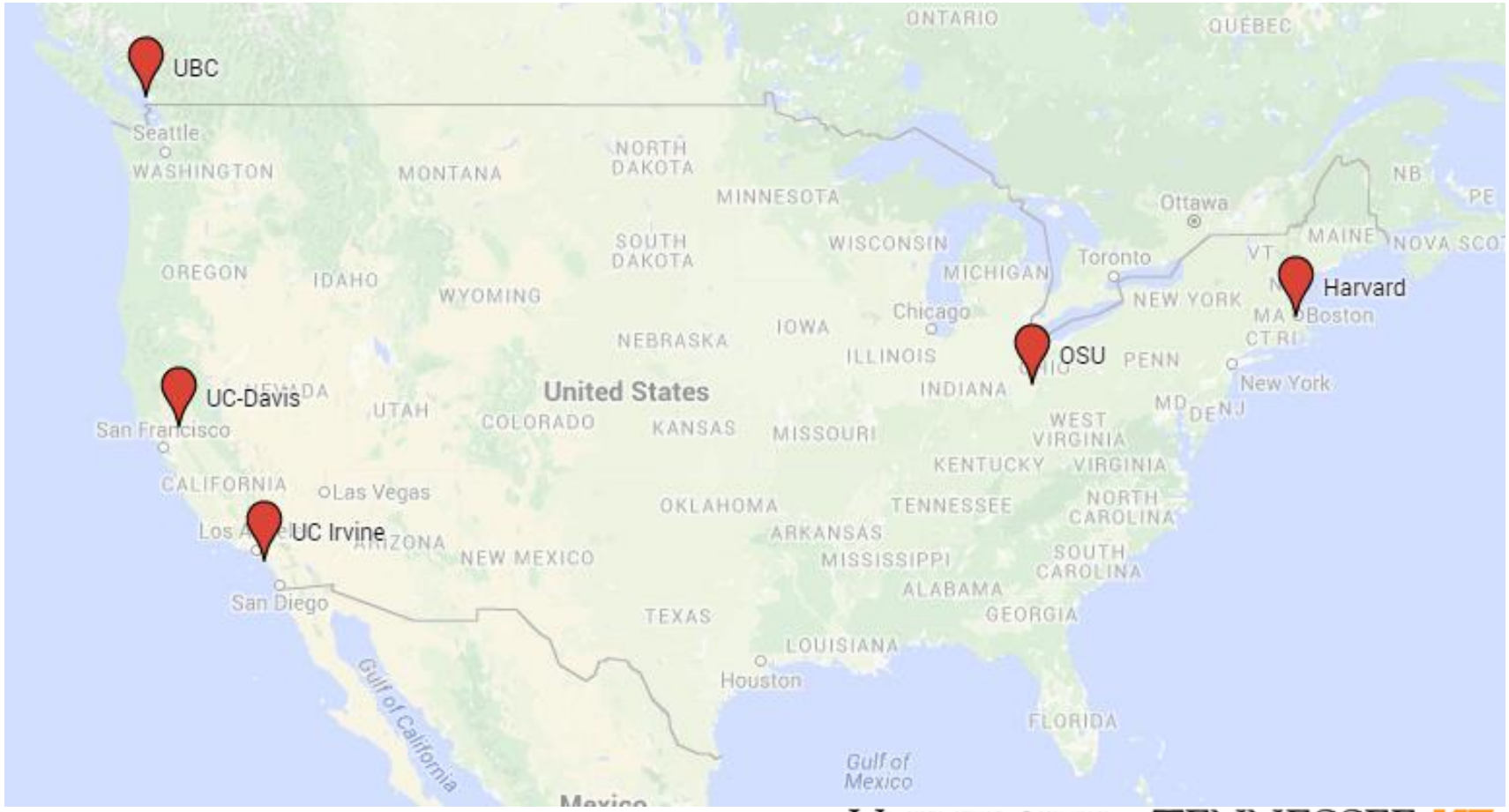
# "Pay It Forward" project: Attitudes and Knowledge about gold OA

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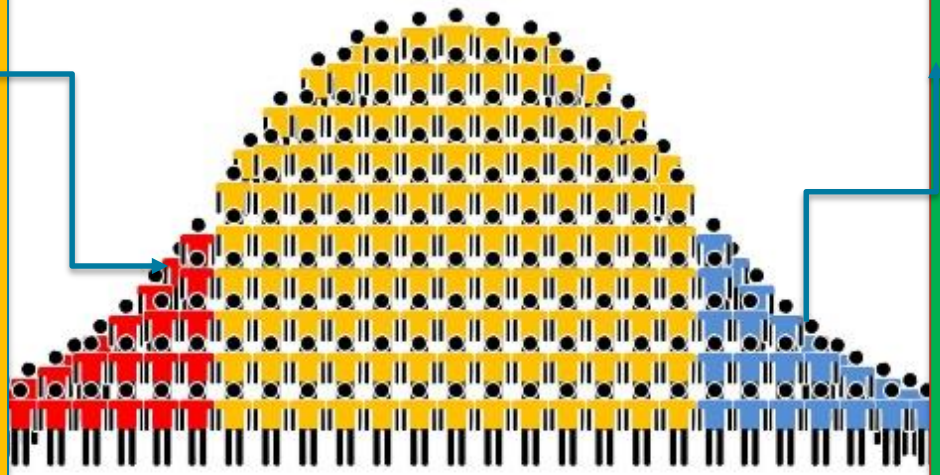
# Wide Range of Opinions of Gold Open Access

"It matters heavily to me that my papers are open access. From my value standpoint, I care less about the impact factor and I care more about having it peer reviewed but open access".



"If a particular venue becomes associated with a vanity press--if you have enough money, you can get it published there--and then it loses credibility in academic circles or elsewhere."

# Range of Opinions

**I am totally for open access, and not just because it is good for me, even though my citations go up because of it and I can find things easier. I really do think that we have an obligation to developing countries to make it easier for them to get access to journals.**

**I see the first world countries having even more of a monopoly over publishing than they do now because institutions from third world countries would not have money. That would exacerbate the problem we have now unfortunately.**

# Importance of Factors When Selecting Where to Publish*

1. Quality and reputation of journal
2. Fit with Scope of journal
3. Audience
4. Impact Factor
5. Likelihood of acceptance
6. Time from submission to publication
7. Editor or editorial board
8. Open Access

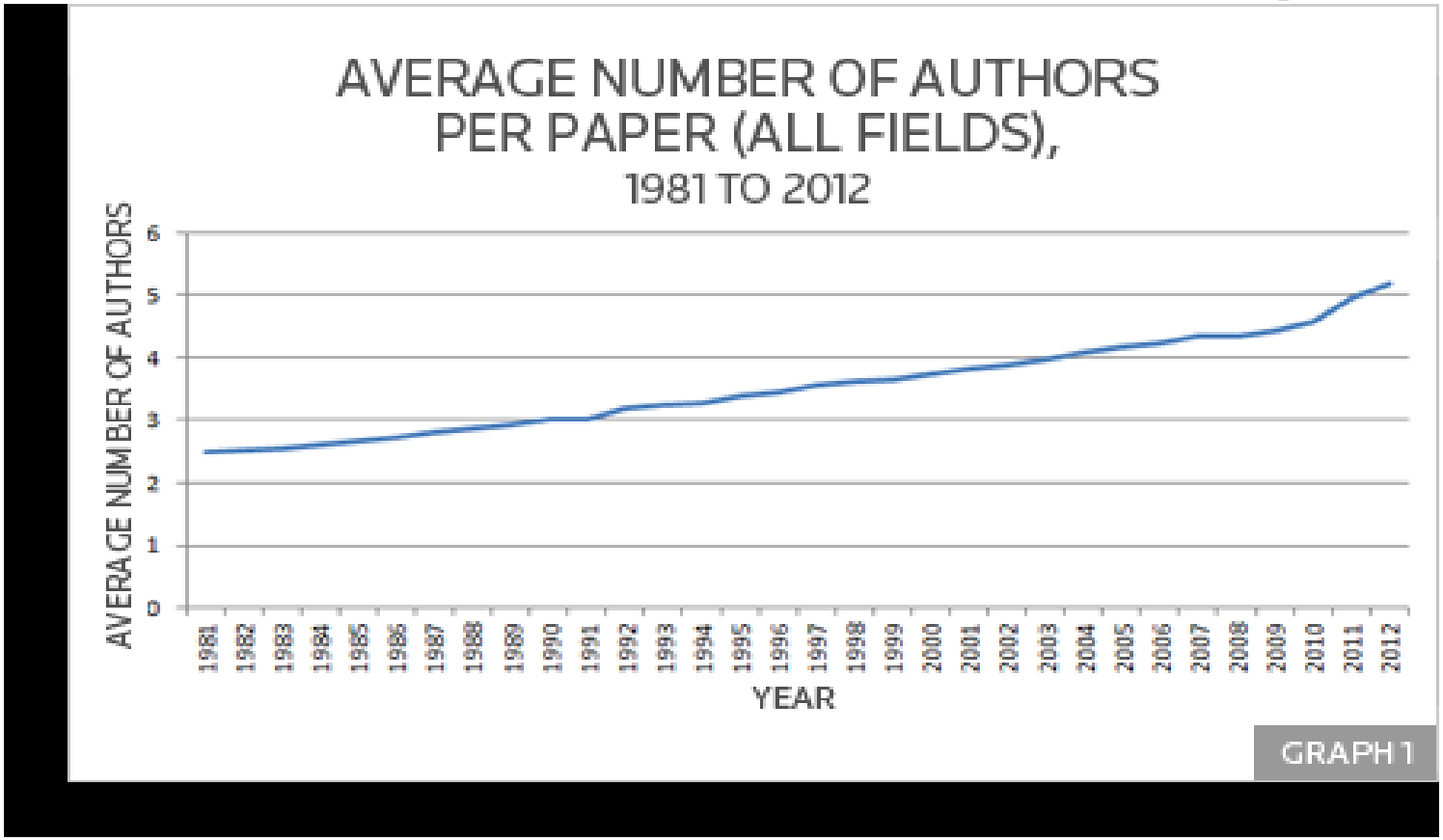
*Listed highest to lowest

# Open Access and libraries

- Educating about options and the good and the bad of open access.
- The library can help all understand the economic consequences and coordinate funds for gold OA fees.

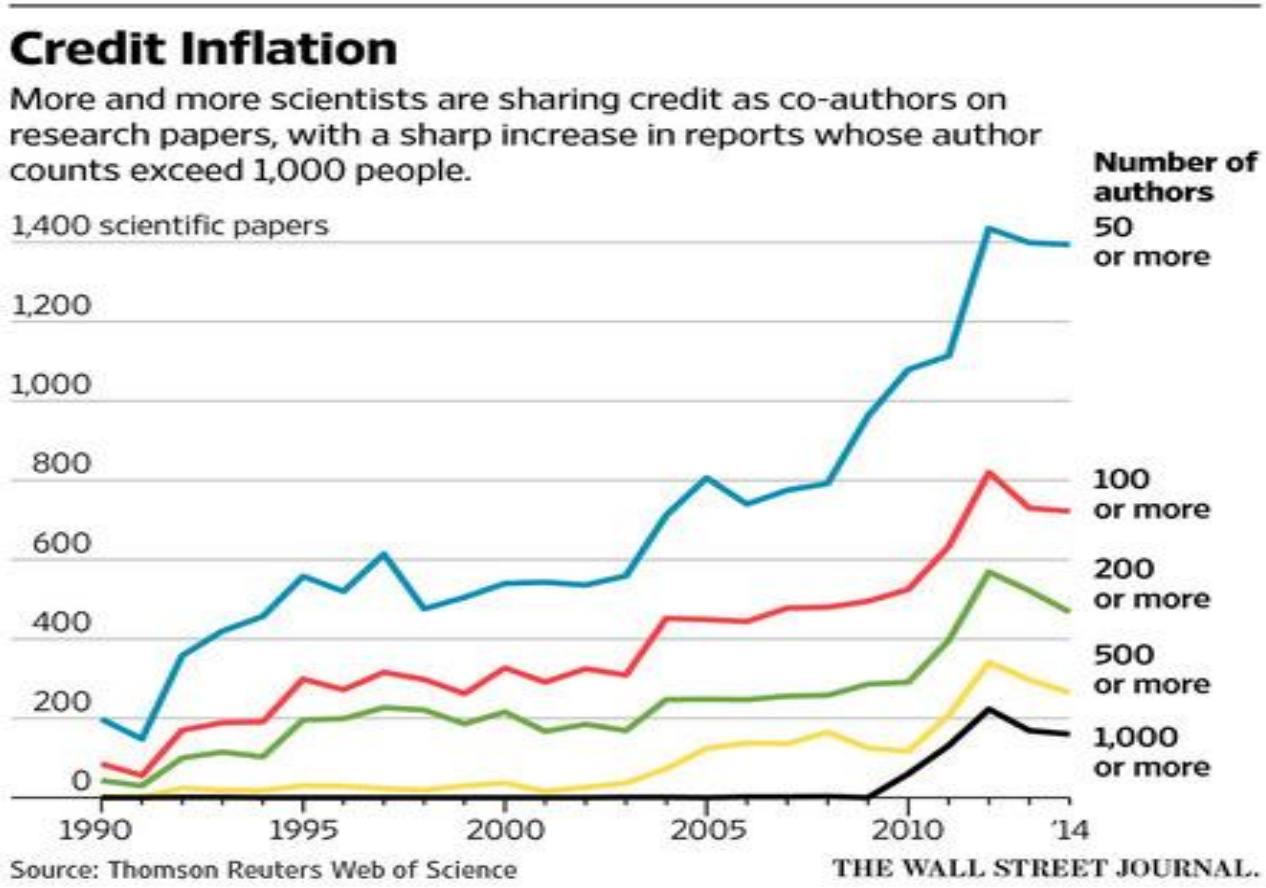
# 3. Growth of Collaborative Scholarship and sharing

# Growth in Co-Authorship



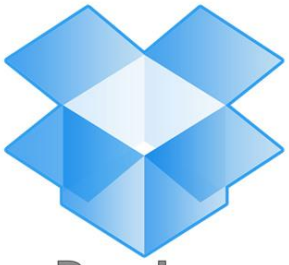

http://sciencewatch.com/articles/single-author-papers-waning-share-output-still-providing-tools-progress

# Growth in Co-Authorships



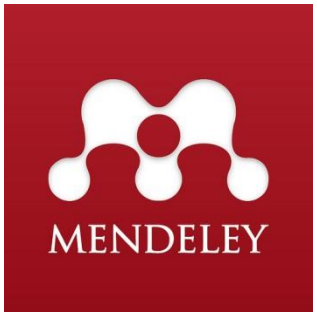

http://www.wsj.com/articles/how-many-scientists-does-it-take-to-write-a-paper-apparently-thousands-1439169200

Blackboard



Dropbox

zoom



Google Docs

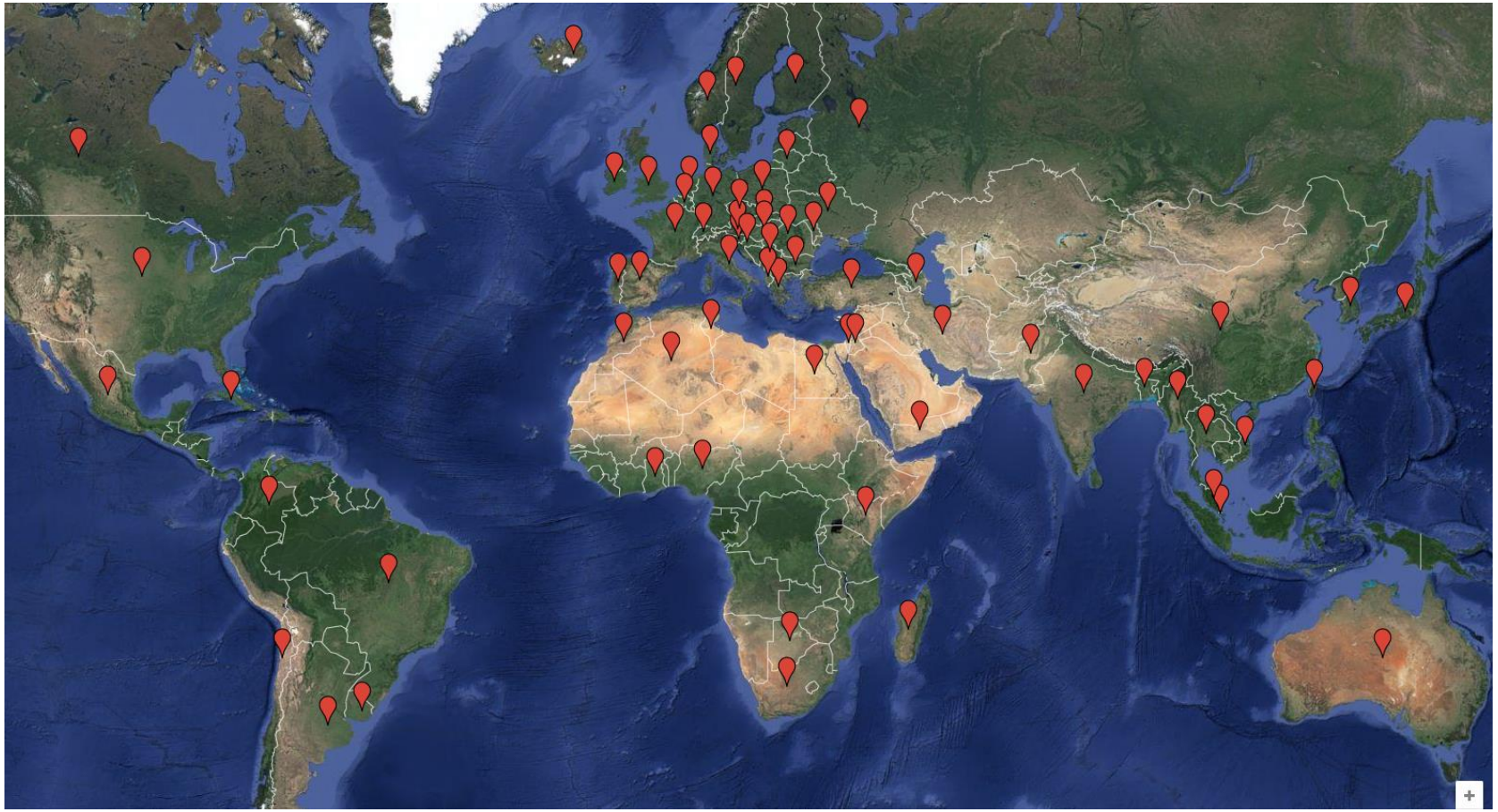
zotero

Academia.edu

# Beyond Downloads

- What are COUNTER download counts missing?
- How much do scholars share and what do they share?
- How might sharing be measured?
- What is a more complete value of articles?

# Beyond Downloads focus groups in US and UK and International Survey with 1000 responses



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"If I have got it, I will just share it. It is easier than having them go track it down, even if I have got the citation."

"It's not like I'm giving away something that they could not get anyhow. But it never dawned on me that in effect, you know in theory, I am violating copyright."

# Why do scholars share? Sharing...

- ... is a cornerstone of the research process
- ...facilitates collaboration
- ...advances scholars' own work
- ...helps my colleagues
- ...is convenient
- ...is fair (even if it isn't strictly legal)

# Their most recent **full-text** is shared …

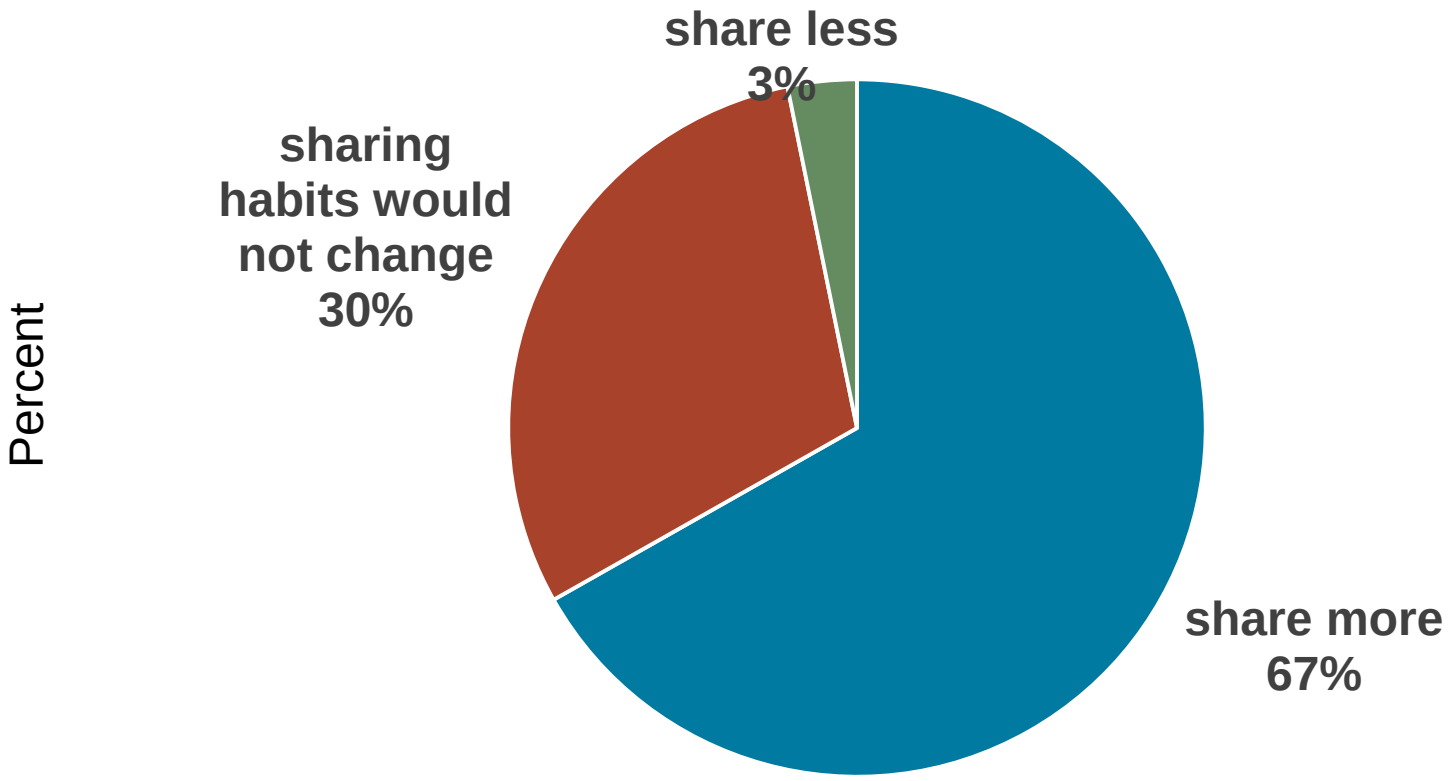
Email

an average of 10.5
(8.4 minus outliers)
times per download.

Research social networks

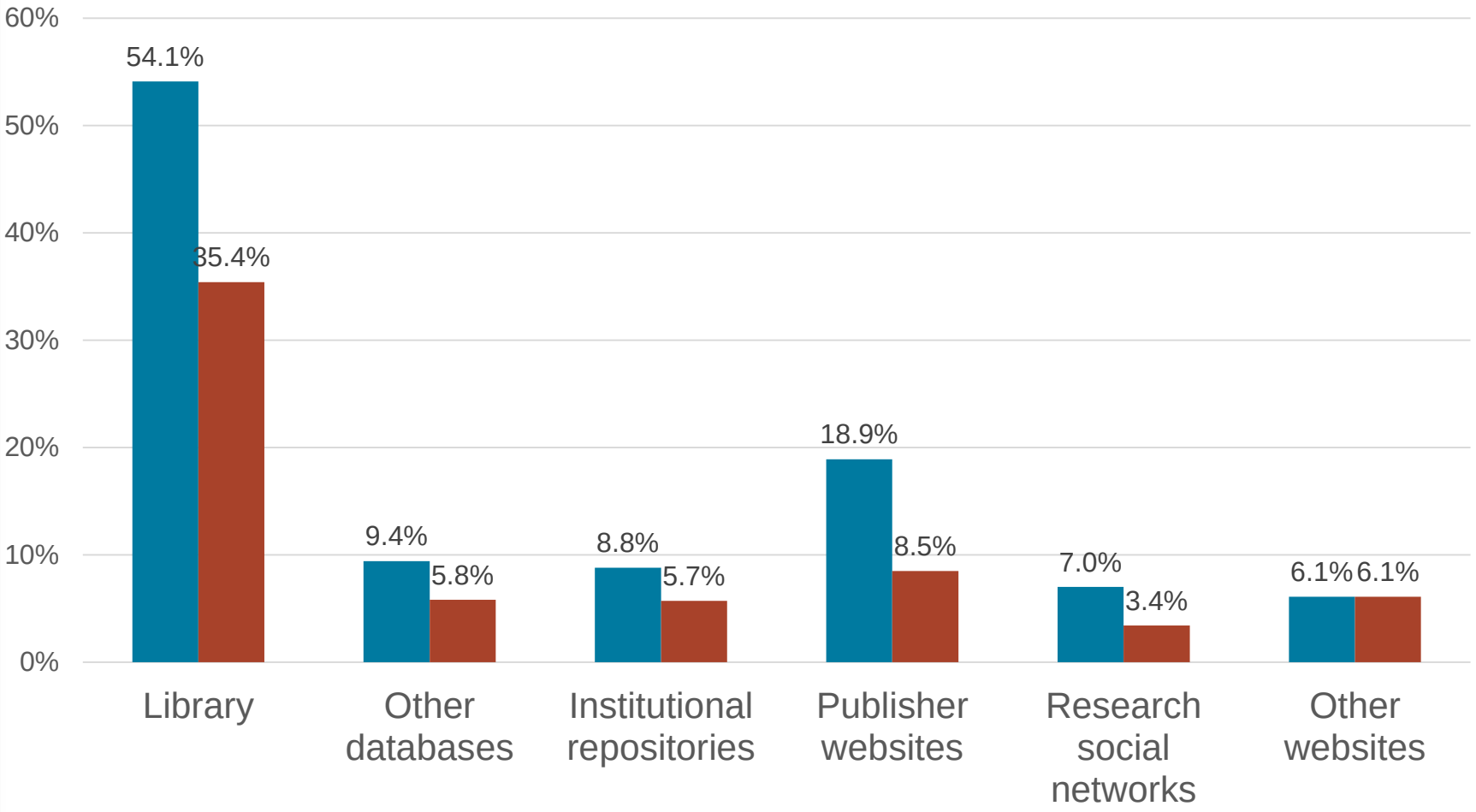
an average of 10.8
(5.3 minus outliers)
times per download.

# When working in a research group …

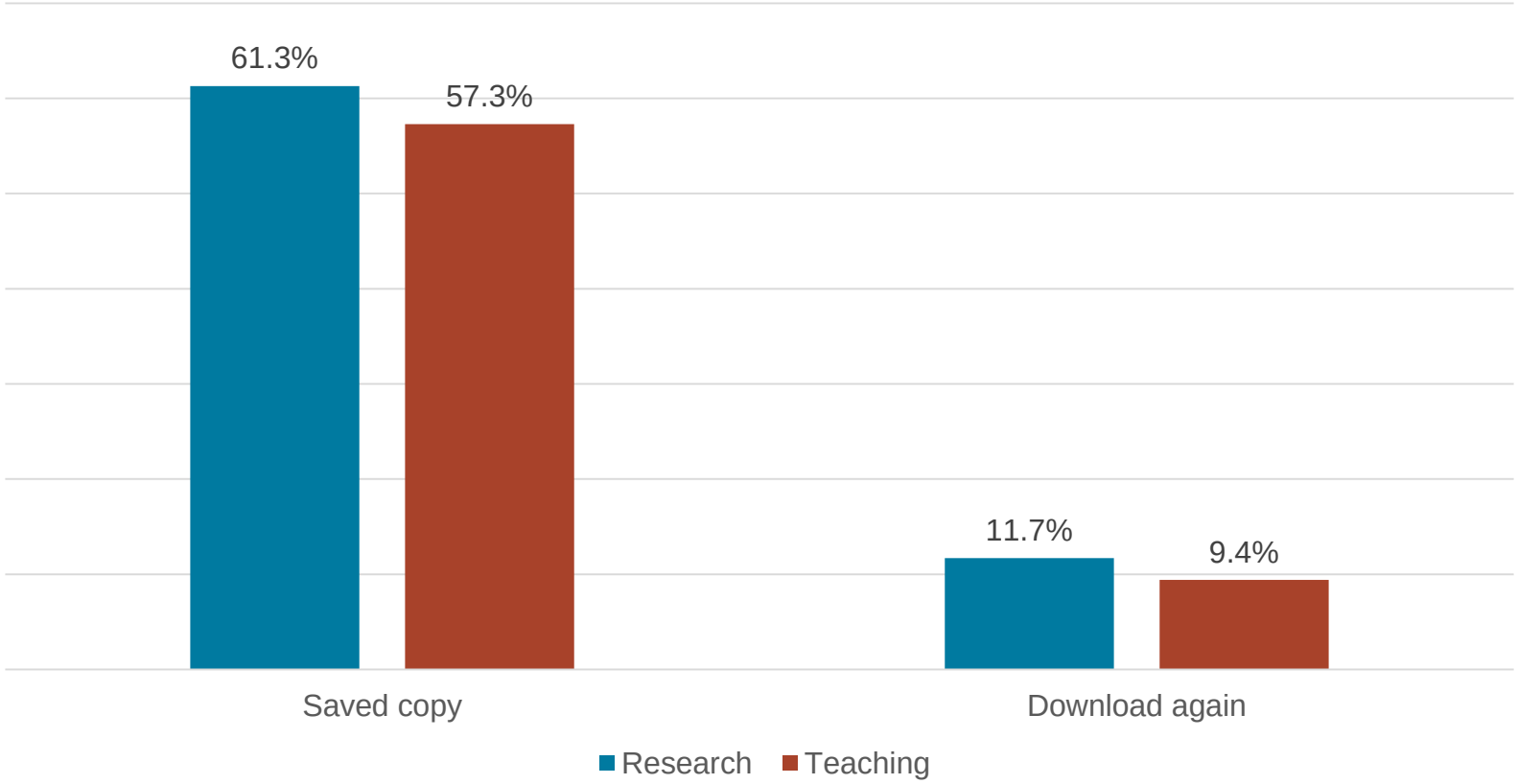



N=771

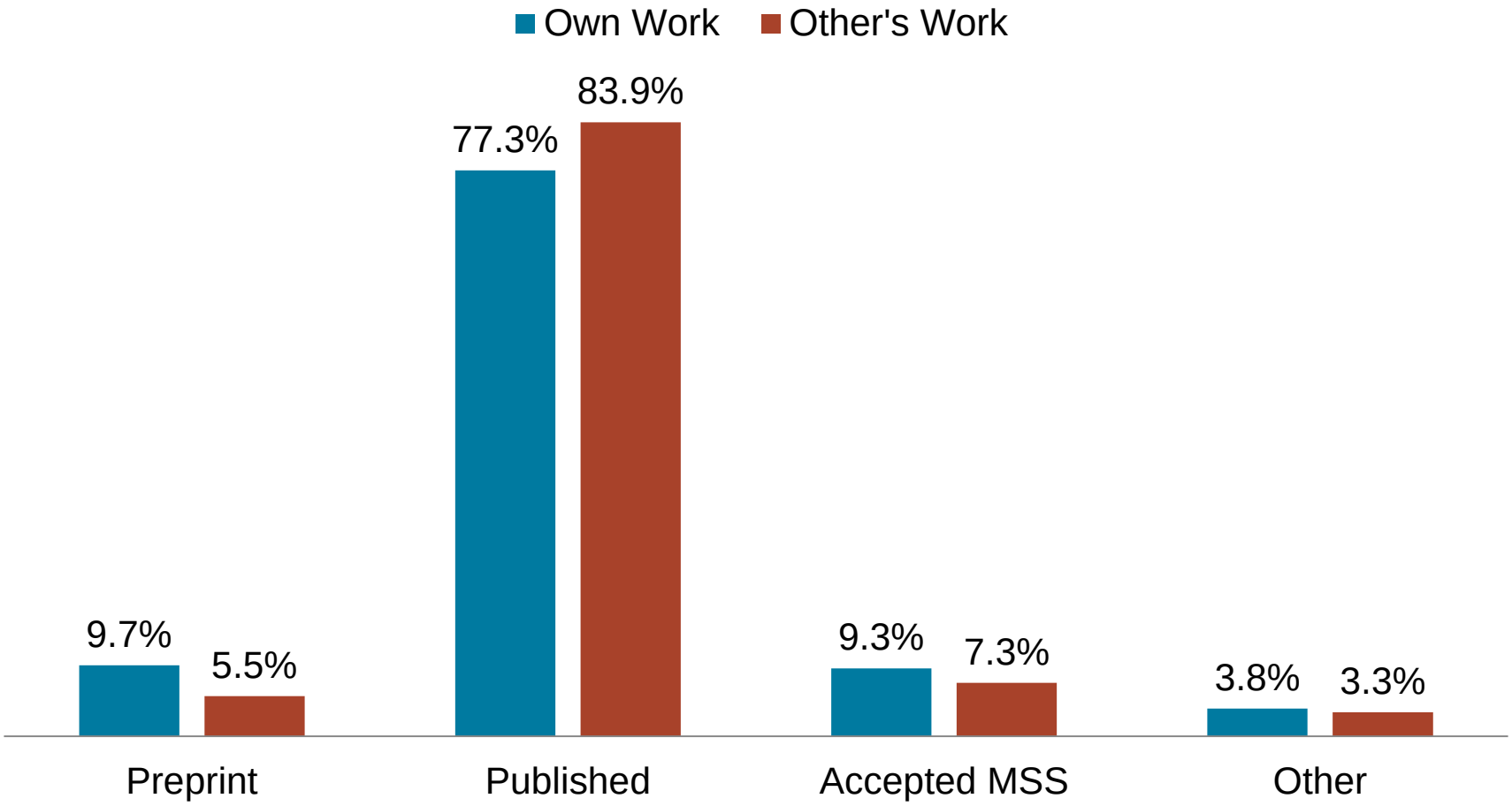
# What percentage of your downloads were from the following sources?

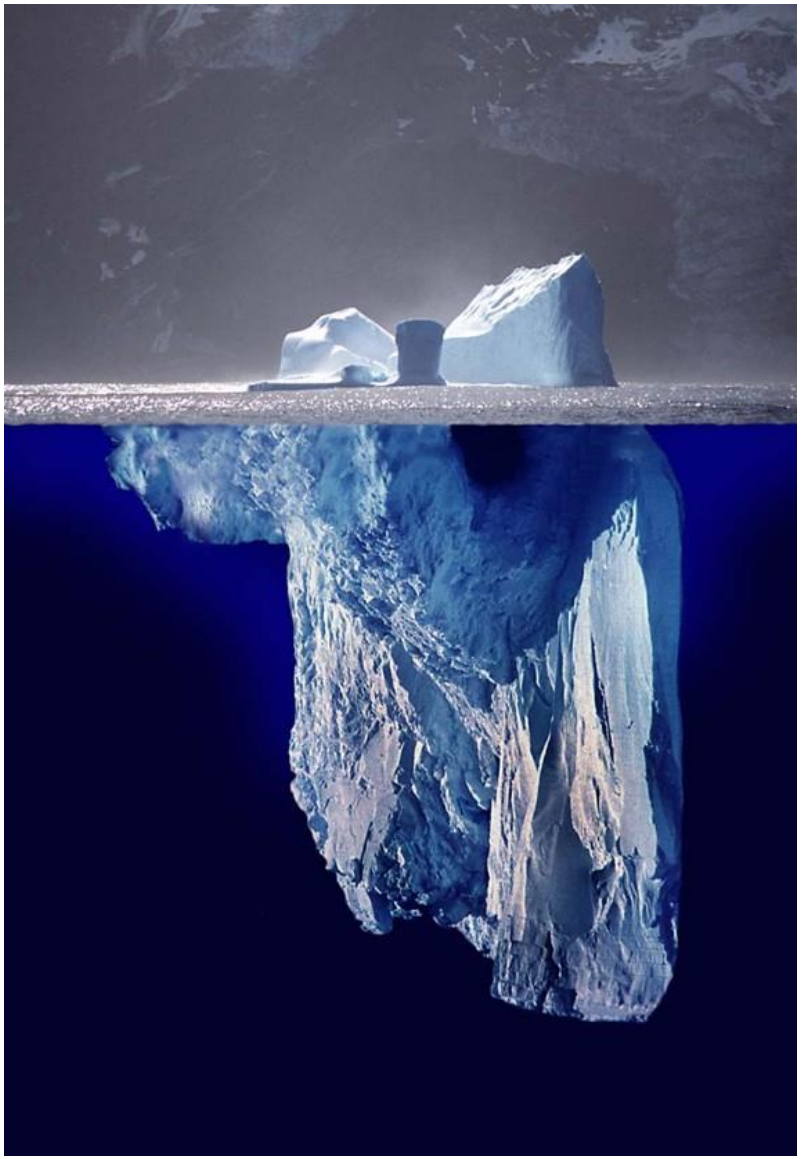


# But, library download counts may underestimate use, because when returning to an article …



## When sharing scholarly articles, are you more likely to share





# Libraries and sharing

- Sharing supports disseminating results—a key mission of libraries
- Library value needs to be beyond downloads and collections
- Convenience is a key concern; libraries can provide tools that fit work styles
- Librarians have a role to play as a research team member

# Libraries…

- facilitate interdisciplinary work, data access, and knowledge sharing through new services
- Can take a leadership role in education and services relating to **research data, open access, and enabling collaborative scholarship**