

# Open Science, Open Access

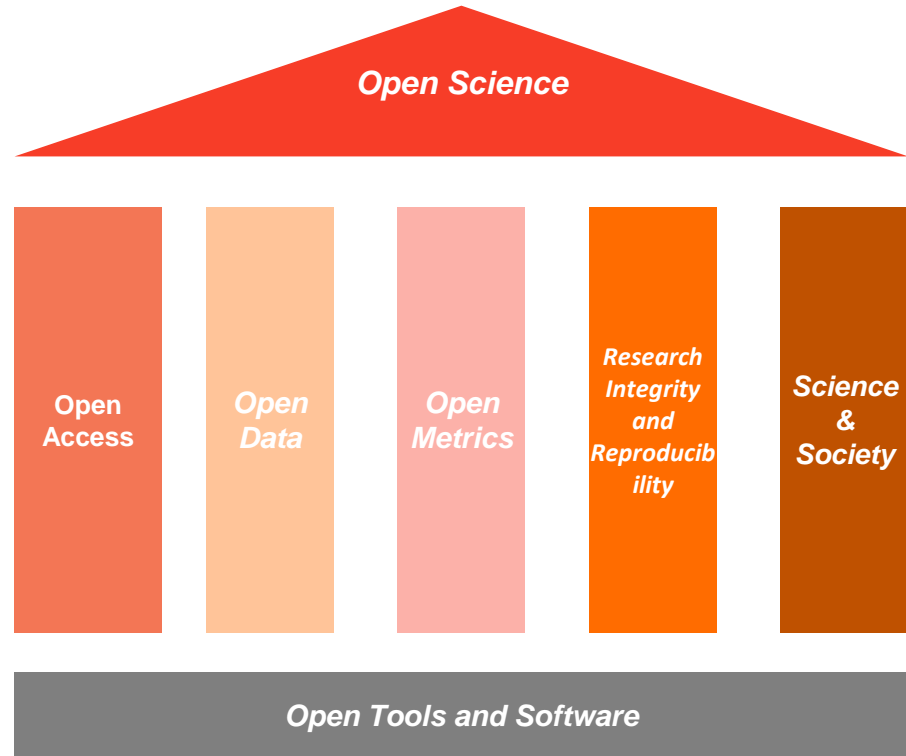
Driving open science innovation with  
thriving open access publishing programs

Promita Chatterji PhD,  
Product Manager Digital Commons Journals



# Building a shared definition of Open Science\*

i.e. there are many pillars, but ultimately, Open Science is just good science



# What dynamics are driving the shift to Open Science?

## Technology

- Web
  - Everyone is a publisher
  - Content access is everywhere
- Social web
- Big Data: cheaper computing power, tools

## Govt policies:

- Publicly funded research should be made available

## Patient Rights/Advocacy for health information

Transparency: Desire for transparency/reliability in research results



OPEN SCIENCE

# Libraries are well positioned to support the foundational practices of open science

Experts in knowledge management

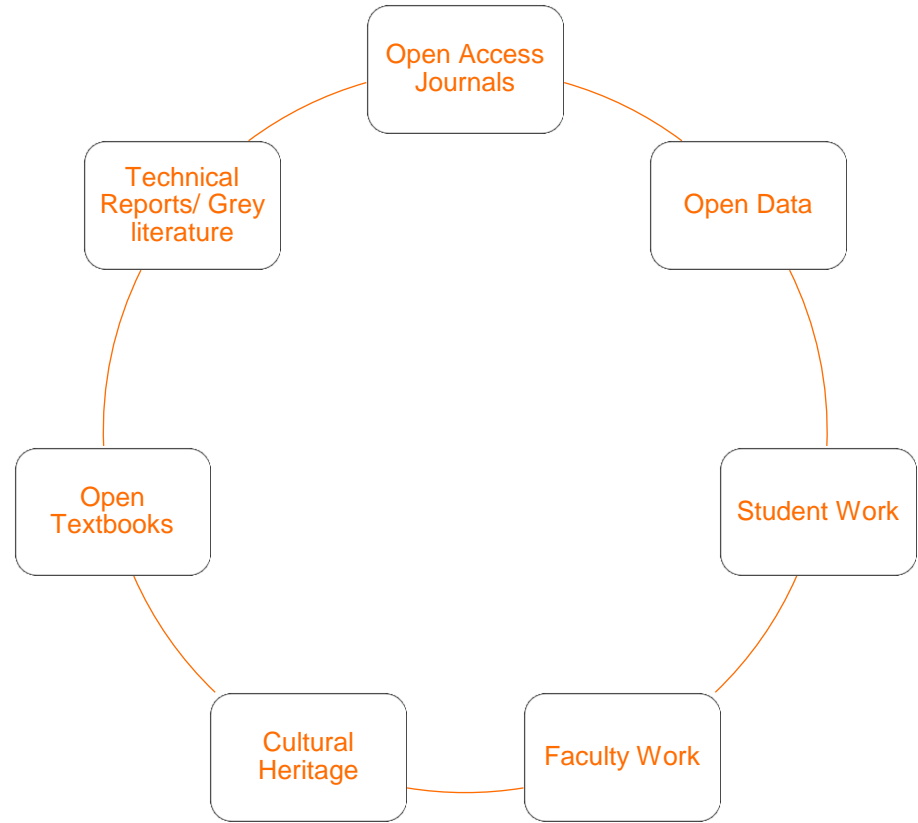
Understanding of policy evolution

Strong relationships with key campus stakeholders

Educational/Advising role



# What Open Sciences Services are Libraries Providing?



# Open Science Success Stories

Library-led Open Science initiatives that  
have created real-world impact

---

## Open Access Journals



- Aurora Health Care is a healthcare system provider in the US
- They started and publish an Open Access journal called the “Journal of Patient-Centered Research and Reviews”, which is hosted on Aurora’s IR
- They published an article in 2016 about the “Elizabethkingia” bacterial outbreak crisis that caused more than 20 deaths in the US

- The article has over 600 downloads, nearly 5 times more than the average article in the journal receives
- Many readers were located in the region of the outbreak, providing them with timely relevant access to important health information
- Other readers included health and disease policymakers: the US Center for Disease Control and Kaiser Foundation Health Plan
- Because this journal was hosted in the IR, it had critical societal impact



Yale

nature  
International journal of science

Open Data



Los Angeles Times

- Thomas Crowther was an environmental studies fellow at Yale University in 2015
- He researched global tree densities and collected over 420,000 data points
- An article associated with the research and data was published in *Nature*
- And the full dataset made available in Yale's IR

- The dataset has been downloaded more than 900 times from the IR
- And the data has been featured by major international media and publishing companies
- Because the data was in the IR, the impact and visibility of the research output was enhanced





The College at  
**BROCKPORT**  
STATE UNIVERSITY OF NEW YORK

## Open Research

*“Besides enhancing the reputation of the college, ...it now provides some information to people that I’m a leader in the field.*

*It’s also surprisingly led to a number of counties coming forth and suggesting that they may be willing to fund some research and scholarship in these areas.”*

*- Prof. Joseph Makarewicz*



NY Department of Environmental Conservation draws on research from College at Brockport and Joseph Makarewicz’s student research to develop their watershed policy.





Open Theses

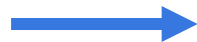
COSMOPOLITAN

The  
Washington  
Post

ELLE



CLAREMONT  
MCKENNA  
COLLEGE



- The Claremont Colleges showcase their 2000+ senior theses in their repository, Scholarship@Claremont.
- Among them is Kendyl Klein's theses, "Why don't I look like her? The impact of social media on female body image."

- The thesis was cited by *Elle Magazine* and has now been downloaded nearly 200,000 times by readers in 193 countries.
- It was also picked up by *Cosmopolitan Magazine* and *The Washington Post*, bringing additional visibility not only to Kendyl and her work, but also to the Claremont Colleges.
- Kendyl has noticed that three different State Departments of Education show up as frequent readers, which has inspired her to look into the possibility of pursuing the topic of body positivity and social media outreach in an educational capacity.

# Open Metrics measure impact and encourage open practices

Reader from: 🇵🇭 Luksuhin, Cavite, Philippines

**Social Media in Tourism Research: A Literature Review**  
 Minwoo Lee, Linda L Lowry, John D. Delconte  
*Tourism Travel and Research Association: Advancing Tourism Research Globally*



**Real-time Readership**  
 29 Downloads since 10:58:38 PM

45,744 Total Papers      9,999,865 Total Downloads



**Social Science Research: Principles, Methods, and Practices**  
 Anil Bhattacharjee, University of South Florida      Follow

Download Full Text (2.0 MB)      Download

Translated in Arabic (3.9 MB)      Download

Translated in Chinese (3.6 MB)

Translated in Korean (4.3 MB)

**722,854 DOWNLOADS**

Buy this Book

PLUMX METRICS

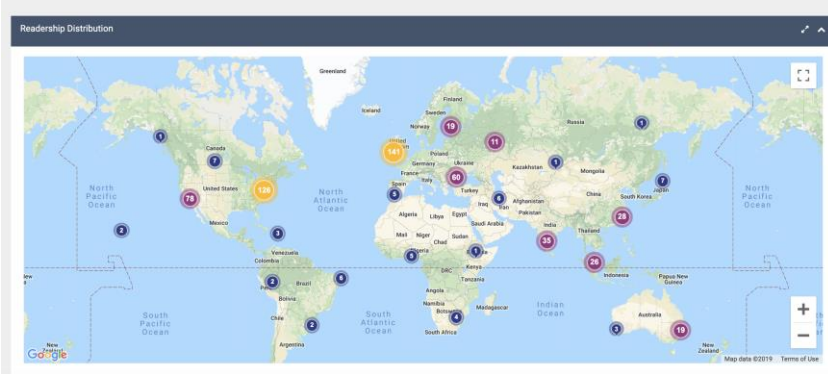
INCLUDED IN  
 American Studies Commons, Education Commons, Public Health Commons, Social and Behavioral Sciences Commons

SHARE  
 Facebook, Twitter, LinkedIn, YouTube, RSS

**Metrics Details**

USAGE	805,844
Downloads	722,624
Digital Commons	722,624
Abstract Views	82,733
Digital Commons	82,733
Clicks	487
Bitly	487
MENTIONS	1
News Mentions	1
News	1
SOCIAL MEDIA	312
Tweets	247
Twitter	247
Shares, Likes & Comments	65
Facebook	65

Art History and Archeology Professor Justin Walsh discovered that his work was cited in a major new outlet though the use of open metrics in this Digital Commons author dashboard



# Los Angeles Times



Justin Walsh  
@jstpwash

I only discovered this now (and only due to my Digital Commons dashboard), but cool to see my article on preserving space heritage [digitalcommons.chapman.edu/cgi/viewconten...](https://digitalcommons.chapman.edu/cgi/viewcontent...) was cited in this @latimes editorial from February:



Editorial: A World Heritage site on the moon? That's not as spacey as it sou...  
On Sept. 13, 1959, a day that we can pretty much guarantee was clear and sunny on the moon, the Soviet Union crash-landed its Luna 2 spacecraft in ...  
[latimes.com](https://latimes.com)

8:00 AM · Sep 7, 2019 · Twitter for Android

2 Retweets 11 Likes

<https://twitter.com/jstpwash/status/1170351222848516097?s=21>

# Thank you

Promita Chatterji

[pchatterji@bepress.com](mailto:pchatterji@bepress.com)

@pchatterji

