STEM LIBRARIANS AND OPEN ACCESS

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OPEN ACCESS- A QUICK HISTORY

- Budapest Open Access Initiative (BOAI)- 2002
- Bethesda Statement on Open Access Publishing (2003)
- Berlin Declaration (2003)

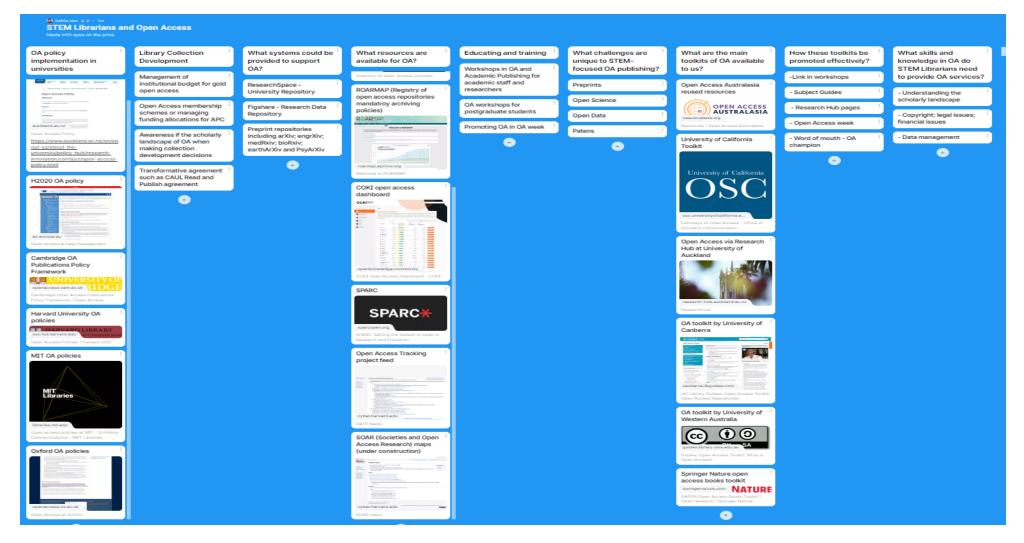


WHAT WE ARE COVERING

- The role of STEM Librarians in Open Access (OA)
- What challenges are unique to STEM-focused OA publishing?
- What skills and knowledge of OA do STEM university librarians need to provide OA research services?
- What are the main toolkits of OA available to us? How these toolkits be promoted effectively?

PLEASE GO TO PADLET.COM TO PARTICIPATE OUR DISCUSSION ABOUT OA

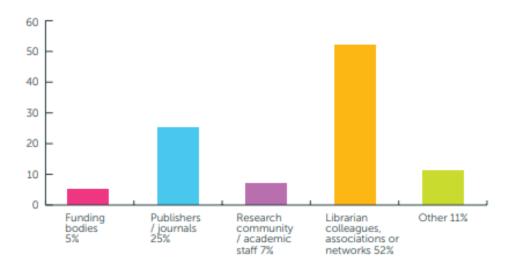
URL Link to the Padlet.com: bit.ly/STEMLibOA



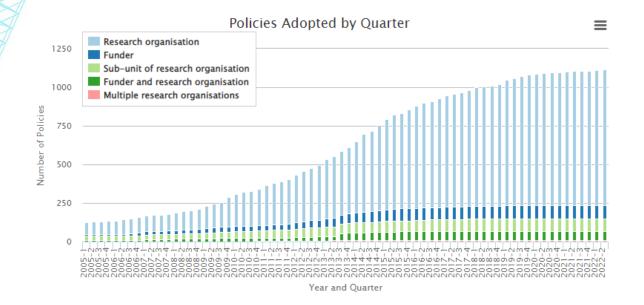
THE ROLE OF STEM LIBRARIANS

- OA policy implementation in universities
- Library collection development and OA budget management for gold OA and APC
- What resources or systems could the university libraries provide to promote OA?
- Educating and training about OA

Where would you go for information about OA options and requirements in the first instance?

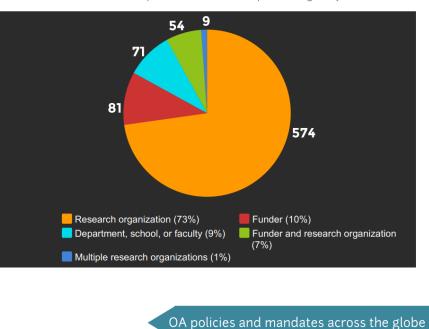


OA POLICIES



OA policies and mandates by type

The number of policies and mandates implemented globally

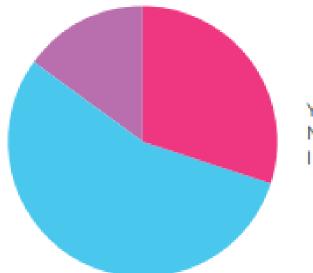


Source: Open Access Polices & Mandates

Source: ROARMAP

LIBRARY COLLECTION DEVELOPMENT AND BUDGET MANAGEMENT

Does your library manage the budget for gold open access?



Yes 30% No 55% I don't know 15%

- Management of institutional budget for gold open access
- Open Access membership schemes or managing funding allocations for covering APC
- Transformative agreements

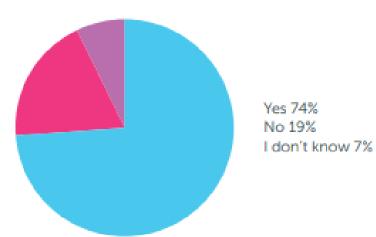
Sources:

1. The role of libraries in open access publishing

2. Discovering Open Access Trends in Engineering (McAllister, J., & Torres, J. (2022))

WHAT SYSTEMS COULD BE PROVIDED FOR OA?

Does your institution have a repository with public access?



- University repositories DSpace
- Figshare
- Preprint repositories -

e.g., arXiv; engrXiv; medRxiv; bioRxiv; earthArXiv and PsyArXiv

Source: The role of libraries in open access publishing

WHAT RESOURCES ARE AVAILABLE FOR OA?

- <u>Sherpa Romeo</u>
- Sherpa Juliet
- <u>DOAJ</u>
- <u>ROARMAP (Registry of open access repositories</u> <u>mandatroy archiving policies)</u>
- COKI open access dashboard
- <u>SPARC</u>
- Open Access Tracking project feed



EDUCATING AND TRAINING

- Workshops in OA and Academic Publishing for academic staff and researchers
- OA workshops for postgraduate students
- Promoting OA in OA week



WHAT ARE THE MAIN TOOLKITS OF OA AVAILABLE TO US?

- Open Access Australasia reused resources
- University of California Toolkit
- Open Access via Research Hub at the University of Auckland
- OA toolkit by University of Canberra
- OA toolkit by University of Western Australia
- Springer Nature open access books toolkit

HOW CAN THESE TOOLKITS BE PROMOTED EFFECTIVELY?

- Link in workshops
- Subject guides
- Research Hub pages
- Open Access week
- Word of mouth OA champion



WHAT CHALLENGES ARE UNIQUE TO STEM-FOCUSED OA PUBLISHING?

- Preprints
- Open Science
- Open data
- Predatory publishing
- Patents



STEM PERSPECTIVES

Medicine		Natural and Technical Sciences	
Positives	Negatives	Positives	Negatives
-Funding bodies -Volume	-Quality -Competing issues	- Funding bodies - Familiarity	-Quality -Industrial integration

WHAT SKILLS AND KNOWLEDGE IN OA DO STEM LIBRARIANS NEED TO PROVIDE OA SERVICES?

- Understanding the scholarly landscape
- Copyright; legal issues; financial issues
- Data management



SUMMARY

- OA continues evolving and is an ongoing discussion topic
- Libraries have now become a creator of knowledge rather than a curator and cataloger of knowledge with the increase of Open Science and OA
- There are many OA resources and toolkits available but there is a need for more specific resources and toolkits for STEM libraries



THANK YOU! ANY QUESTIONS?



REFERENCES

- Ayris, P. & Ignat, T. (2018). Defining the role of libraries in the Open Science landscape: a reflection on current European practice. Open Information Science, 2(1), 1-22. <u>https://doi.org/10.1515/opis-2018-0001</u>
- Krzak, A., & Tate, D. (2016). Large scale implementation of open access: a case study at the University of Edinburgh's College of Medicine and Veterinary Medicine.
- McAllister, J., & Torres, J. (2022). Discovering Open Access Trends in Engineering: A Bibliometric Analysis of Open Access Publications at a Large Research University. Science & Technology Libraries, 1-18.
- Powdwal, S. C. (2017). Open access initiatives: reframing the role of librarians. *Library herald*, 55(4), 467-487.
- Royal Society of Chemistry (2016). The Role of Libraries in Open Access Publishing. RSC. <u>https://www.rsc.org/globalassets/14-campaigns/m/lc/lc16013/lc16013-open-access-survey-report-librarians.pdf</u>
- Severin, A., Egger, M., Eve, M. P., & Hürlimann, D. (2018). Discipline-specific open access publishing practices and barriers to change: an evidence-based review. *F1000Research7* (2018).
- Shah, D. T. (2017). Open access publishing: pros, cons, and current threats. *Marshall Journal of Medicine*, 3(3), 1.
- Strcic, J., Civljak, A., Glozinic, T., Pacheco, R. L., Brkovic, T., & Puljak, L. (2022). Open data and data sharing in articles about COVID-19 published in preprint servers medRxiv and bioRxiv. Scientometrics, 127(5), 2791-2802
- Suber, P. (2004). A very brief introduction to open access. <u>https://dash.harvard.edu/bitstream/handle/1/4727454/suber_verybriefintro.htm</u>
- Suber, P. (2012). Open access (p. 256). The MIT Press.