Research Consulting

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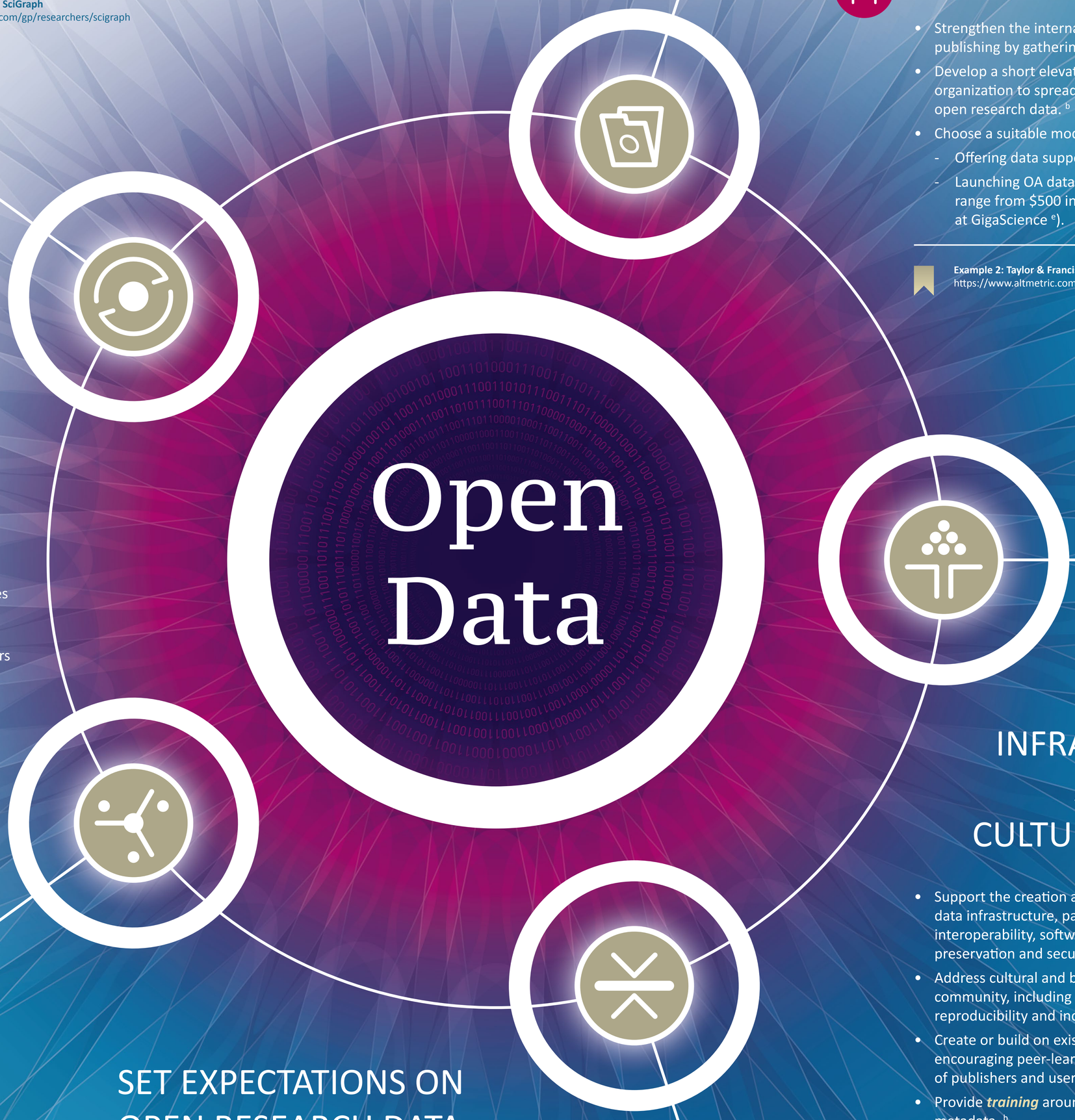
CREATING VALUE FROM OPEN RESEARCH DATA

Publishers can ***support the evolving needs of the data community*** by:

- providing data training and editing services;
- sharing information on usage and citation of data with authors, readers, librarians and institutions;
- helping to explain and contextualize science and scientific issues. [f]

Example 1: Springer Nature - SciGraph
https://www.springernature.com/gp/researchers/scigraph



MAKE THE CASE FOR OPEN RESEARCH DATA

For users

- Highlight how the digital object identifier (DOI) system can be leveraged to enable data citation by re-users.
- Promote the use of storytelling to excite the community about the potential of open data. [b]
- Prove the ***impact*** of open research data via statistics on its economic and social value. [b]

For publishers

- Strengthen the internal reasons to support data publishing by gathering stories from end users. [b]
- Develop a short elevator pitch to use throughout the organization to spread the motivation to publish open research data. [b]
- Choose a suitable model, such as:
  - Offering data support and services; [g]
  - Launching OA data journals (APCs in data journals range from $500 in Data in Brief [d] up to $2,132 at GigaScience [e]).

Example 2: Taylor & Francis Group - Altmetrics
https://www.altmetric.com/case-studies/taylor-francis-group

COLLABORATE WITH OTHER STAKEHOLDERS

- Scope out internal and external audiences and motivations to make data publishing part of the core business.
- Liaise with funders and other stakeholders to ensure common approaches.
- Establish ***disciplinary norms*** in collaboration with data creators and users.
- Promote widespread uptake of research data policies across the full range of publishers and learned societies.

Example 9: COPDESS - Enabling FAIR data project
http://www.copdess.org/enabling-fair-data-project

SUPPORT INFRASTRUCTURE AND ENABLE CULTURAL CHANGE

- Support the creation and maintenance of research data infrastructure, particularly to address discovery, interoperability, software, data quality, automation, preservation and security. [c,h]
- Address cultural and behavioural issues in the community, including disciplinary differences, reproducibility and incentives. [h]
- Create or build on existing community forums, encouraging peer-learning between communities of publishers and users. [b]
- Provide ***training*** around research data and metadata. [b]
- Increase data ***literacy*** to ensure reuse comes from a wider pool of innovators. [b]

Example 3: Elsevier - Researcher Academy
https://researcheracademy.elsevier.com/research-preparation/research-data-management

Example 4: Wiley - Data literacy and quality jobs for all
https://hub.wiley.com/community/exchanges/develop/blog/2017/03/30/data-literacy-and-quality-jobs-for-all

SET EXPECTATIONS ON OPEN RESEARCH DATA

- Research data policies should:
  - Be ***harmonised and standardised***; [a]
  - Establish expectations that stimulate and reflect changes in different fields;
  - Require access to be provided via a ***trusted and sustainable repository*** and prescribe ***two-way links*** between data and publications;
  - Clearly articulate ownership and intellectual property rights;
  - Include a requirement and guidance for metadata and ***data availability statements***.

Example 5: Research Data Alliance - Data policy standardisation and implementation Interest Group
https://www.rd-alliance.org/groups/data-policy-standardisation-and-implementation-ig

Example 6: Elsevier - Research data policy
https://www.elsevier.com/about/policies/research-data

Example 7: Scholix: A Framework for Scholarly Link eXchange
http://www.scholix.org

Example 8: Taylor & Francis - Data availability statement templates
https://authorservices.taylorandfrancis.com/data-availability-statement-templates

REFERENCES

a. Digital Science, M. Hahnel, J. Treadway, B. Fane, R. Kiley, D. Peters, G. Baynes - The State of Open Data Report 2017, https://doi.org/10.6084/m9.figshare.5481187.v1
b. ODI - What data publishers need: synthesis of user-research, https://docs.google.com/document/d/14vZJFUEJOkJEGOFTAPjRZ2FYxZfLQX3ct48K7bNsyl4
c. DataCite - Become a member, https://www.datacite.org/become.html
d. Data in Brief - Guide for Authors, https://www.elsevier.com/journals/data-in-brief/2352-3409/guide-for-authors
e. GigaScience - Open Access and APCs, https://academic.oup.com/gigascience/pages/charges_licensing_and_self_archiving
f. S. Inchcoombe - The changing role of research publishing: a case study from Springer Nature, http://doi.org/10.1629/uksg.355
g. Springer Nature - Research Data Support, https://www.springernature.com/gp/authors/research-data-policy/pricing/15499842
h. Open Research Data Taskforce - Research Data Infrastructures in the UK, Landscape Report, https://www.universitiesuk.ac.uk/policy-and-analysis/research-policy/open-science/Documents/ORDTF report nr 1 final 30 06 2017.pdf

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