Exploring the Value of Open (EVO)

Data Sharing and Policy Landscape

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Health Research Alliance

Exploring the Value of Open Series

Webinar Series with occasional breakout groups ("Birds of a Feather")

- 09/08/2022: EVO Program Launch
- 09/13/2022: Value of ORCID for funders
- 09/29/2022: HRA Open Relaunch
- 10/13/2022: From policy into practice with OA.Works, Laura Paglione (ORCID expert)
- 11/10/2022: Data sharing: why, how, and measuring impact with PLOS, DataSeer, CTF
- 01/18/2023: The 2023 Federal Year of Open Science Initiative with NIH, NSF and NASA
- 03/07/2023: HRA Facilitating Open "Birds of a Feather" Series: Data Sharing
- 04/25/2023: Intro to Health Open Research: An open research publishing option using F1000
- 06/06/2023: Data Sharing and Policy Landscape

Next: New Birds of a Feather Sessions – You Choose!

Strategies for Open Science: Stratos

"We fuse ideas, connect people, build strategies, and implement projects, to craft unique solutions in open science"

KRISTEN RATAN

Stratos welcomes Jennifer Kemp as Director, Consulting Services

About Stratos, Open Science

We are delighted to welcome Jennifer Kemp to Stratos in a new role as Director of Consulting Services." Jen background in research infrastructure, libraries, scholarly publishing and open science will provide invaluabl leadership and guidance to the Stratos community," said Stratos Founder, Kristen Ratan. "I'm thrilled to have chance to work with Jennifer again as the world increasingly turns its attention towards open scholarship.

BOF: Data Sharing 1

- Reviewed policy landscape

- Discussed Policy Worksheet

- Covered the basics of implementing a data sharing policy, creating a preferred tools network, supporting grantees

- Introduced options for compliance monitoring

- Offered an initial introductory Baseline Analysis using DataSeer to learn about current levels of data sharing

HRA Member Survey: Three BOF Options

1. Policy-making
   - What to prioritize, consequences of policy choices
   - How to create and communicate policies

2. Best Practices and Implementation
   - Grantee guidance and support
   - Infrastructures, tools, and partners
   - Overcoming major challenges
   - Special cases like cohort sharing, post-grant sharing

3. Compliance and Impact Tracking
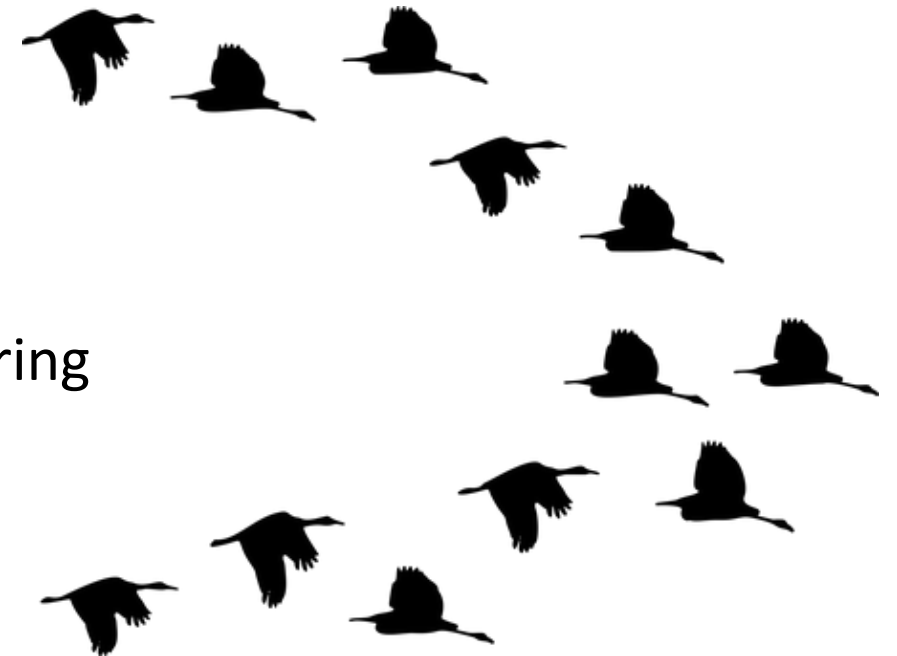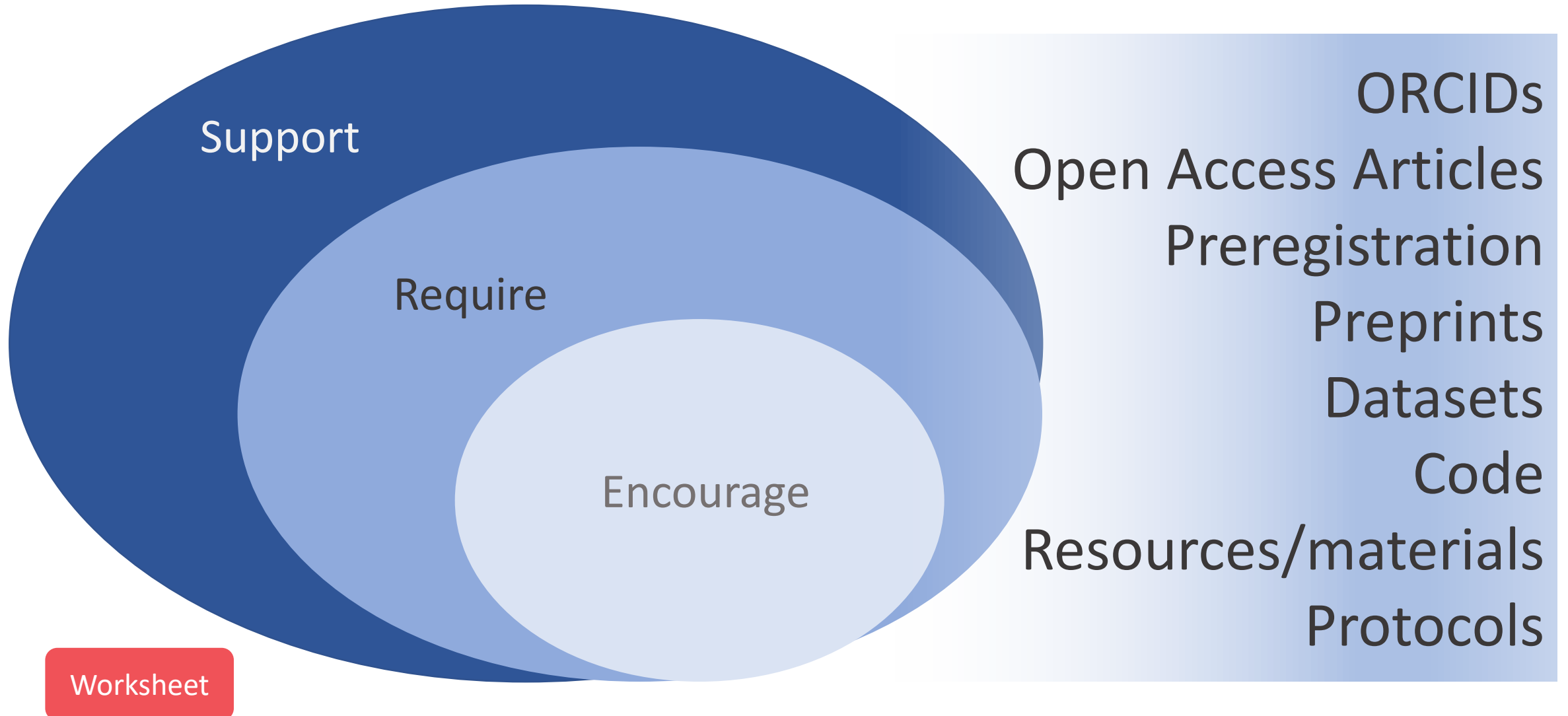
US Policy Guidance

OSTP Nelson Memo

1. Recommends PIDs for people
2. OA all publications with no embargo and PID such as DOI
3. Datasets underlying articles shared at time of publication
4. Lists 'desired' characteristics of repositories
5. Exceptions are vague

NIH Data Policy

1. Required ORCID
2. OA journal articles with no embargo, recommends PMC
3. Same and also all other data shared by end of grant period
4. Specifies FAIR repositories
5. Exceptions are more specific and include tribal, human subject data

A menu of options

Support

Require

Encourage

ORCIDs
Open Access Articles
Preregistration
Preprints
Datasets
Code
Resources/materials
Protocols

Worksheet

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Mechanics of Data Sharing

What

Per NIH Policy:
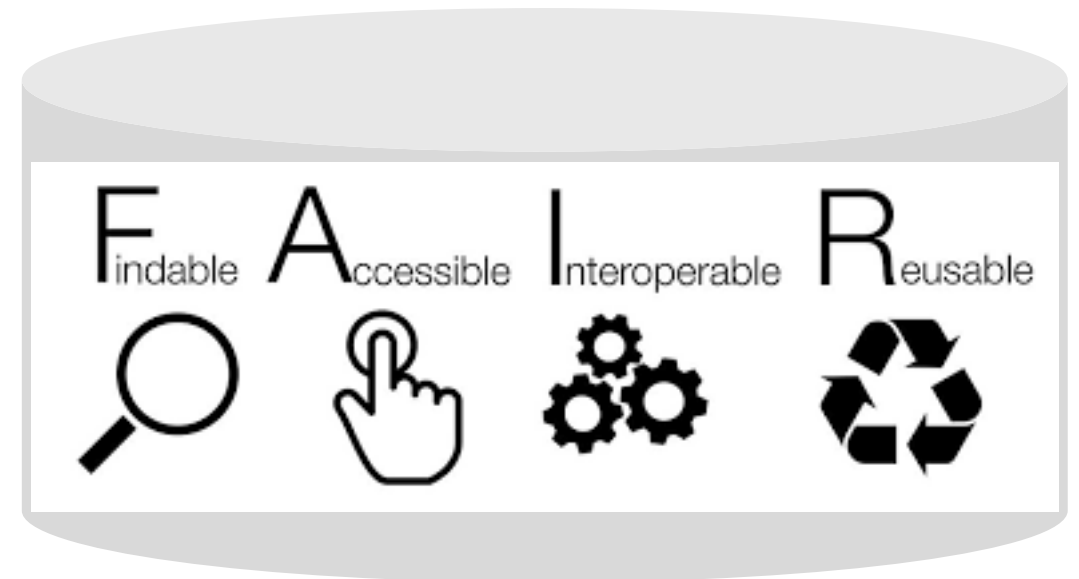Scientific data includes any data needed to validate and replicate research findings.

https://tinyurl.com/562baatj

How

Data Prep and Curation:
- Clean
- Annotate
- Describe
- Complete metadata
- DOI
- License

Where

Findable Accessible Interoperable Reusable

https://www.go-fair.org/fair-principles/

HRA OPEN
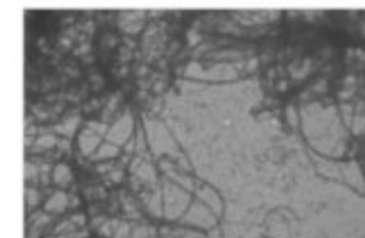
To Prepare We Recommend:

- A baseline analysis of current data sharing among grantees
  - How many articles generated datasets
  - The type of datasets being generated
  - The percentage of those datasets that were shared
  - Whether they were shared in supplemental files or in a repository
- Implementation and Support
  - Establishing a preferred repository network based on the data types
  - Compiling best practices and help documents (even a helpdesk)
  - Documenting where grantees need support
  - Pooling resources for support – an HRA collective effort?
- Compliance and Impact
  - Tracking compliance and setting goals to improve year on year
 - Measuring impact based on dataset citations, views, downloads, reuse

SMOOTHING THE PATH TO SHARED RESEARCH DATA

We use AI and NLP to promote the sharing of research data

DataSeer scans scientific texts for sentences describing data collection, then gives best-practice advice for sharing that type of data.

Researchers can use DataSeer to ensure that their data sharing is complete and follows best practice.

Funders, journals, and institutions can use DataSeer to find all of the data associated with a corpus of articles, or use it to promote compliance with their data sharing policies.
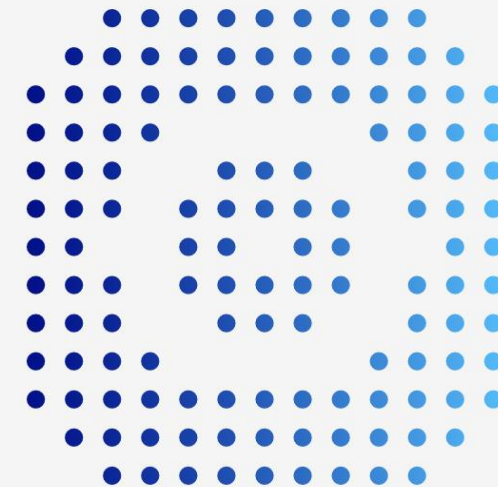
Compliance Monitoring

- There is an emerging tool chain
- New efforts to establish standards – so we are all counting the same way
- Leading Services:
  - OA.Works – open access and preprint monitoring and reporting
  - OpenAlex – open access, preprint, and person-data reporting
  - DataSeer – data sharing monitoring and reporting
  - DataCite – persistent identifier organization for datasets and other non-article outputs

Measuring Impact of Data Sharing
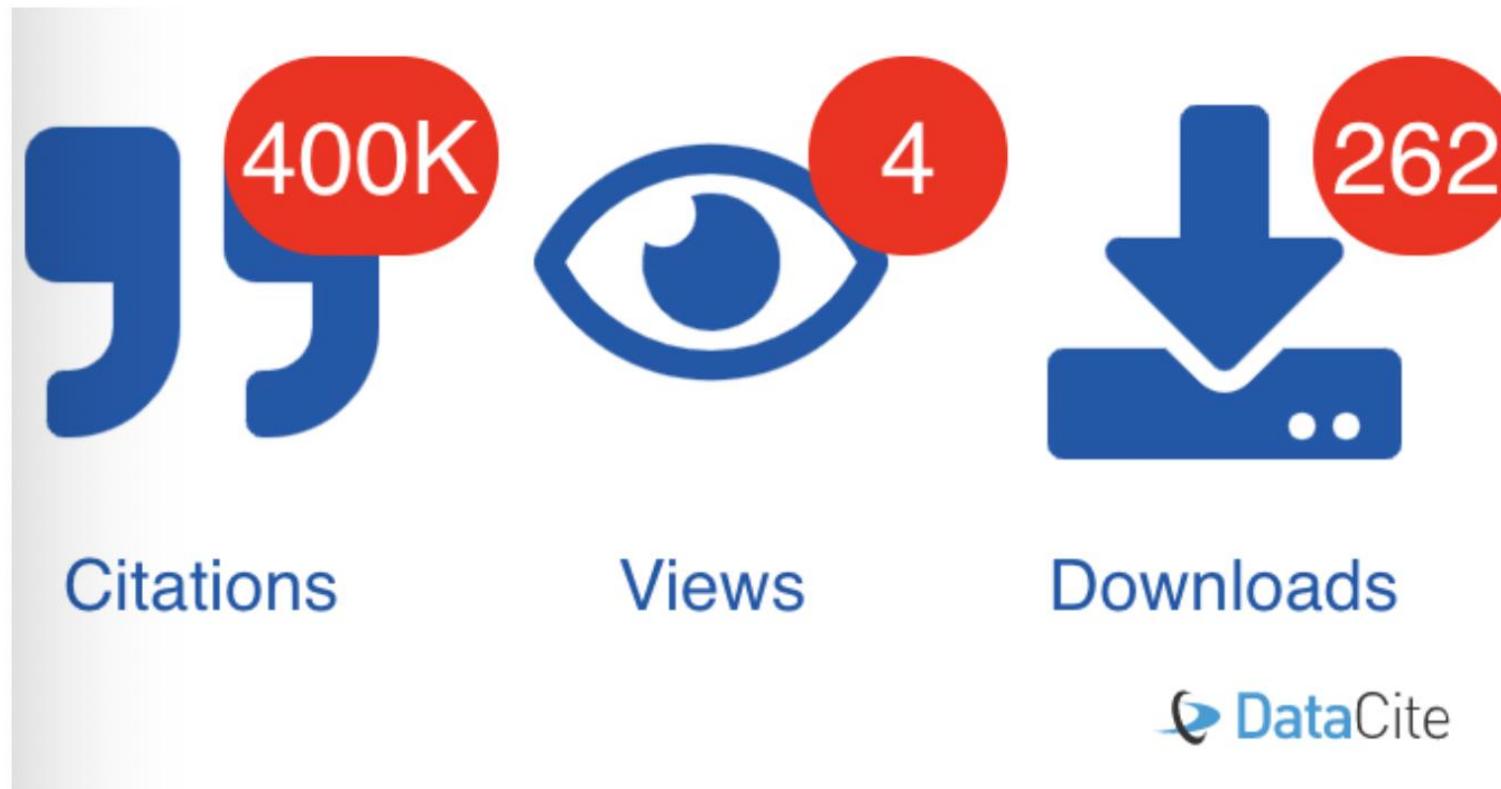
Actions and Follow Up

EVO Opportunities

1. Sign up for an upcoming BOF
2. Request a 1:1 Consultation with Stratos
3. Express interest in a DataSeer cohort

https://docs.google.com/spreadsheets/d/1UovzLm7HZVlp7SJu4hZkZJ3nX_DQlalNxPNCigo8CsU/edit#gid=344195582

Resources:

- The NIH's Data Management and Sharing (DMS) policy
- The NIH's Supplemental Guidance for the DMS Policy
- NASEM Toolkit for Fostering Open Science Practices
- Inventory of Open Science Resources
- ASAP Blueprint for Collaborative Open Science
- OSTP's memorandum on Ensuring Free, Immediate, and Equitable Access to Federally Funded Research

https://www.healthra.org/exploring-the-value-of-open-evo-program/

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Thank you!