FAIR Topical Working Group

CI Compass Cyberinfrastructure for NSF Major Facilities 2024 Workshop

January 17, 2024

Don Brower, University of Notre Dame
CI Compass FAIR Topical WG

- Started in August 2022
- Objective is to engage MFs to understand FAIR needs and share information
- Open monthly meetings with broad membership: NSF MF, Mid-scale facilities, DOE, GoFAIR, ORCID, NASA
Monthly Meetings

- Open to everyone
- First Thursday of the month
- 1:15pm – 2pm ET / 10:15 am – 11am PT

- contact@ci-compass.org
People (partial list)

Angela Murillo (CI Compass/IU Indianapolis)
Charles Vardeman (CI Compass/Notre Dame)
Don Brower (CI Compass/Notre Dame)
Shawna Sadler (ORCID)
David Butcher (MagLab)
Chris Bontempi (Network for Advanced NMR)
Christine Laney (NEON)
Bruce Berriman (JPL/CalTech)
Doug Fils (Ronin Institute)
2023 Activities

- Speakers
- FAIR for Large Research Facilities Workshop
- NSF FAIROS RCNs
- Survey
Speakers 2023

Invited presentations:

• *FAIR for Facilities and Instruments* — Matt Mayernik (NCAR), Andrew Johnson (Colorado)
• *Research Security* — Michael Corn (NSF)
• *SciEnCV and Identifiers* — Bart Trawick (NCBI/NLM)
FAIR for Large Research Facilities

Workshop at Joint Conference on Digital Libraries, June 2023

• Speakers
  • David Butcher (MagLab)
  • Brian Minihan (ORCID)
  • Christine Laney (NEON)
  • Debjani Singh (ORNL)
  • Laurel Winter (LANL/MagLab)
  • John Quincy Wofford (LANL)
FAIR Survey

• Data collected March 2023
• Received 54 responses, and did 9 follow-up interviews
• Goals
  • How do major facilities self-assess their FAIR practices?
  • Identify technologies being used for data management and FAIR
Do you see value in applying the FAIR principles to data generated at your facility?

- Strongly disagree
- Somewhat disagree
- Neither agree nor disagree
- Somewhat agree
- Strongly agree

- I do not see a value to FAIR
- I see a value in so far as it is a grant requirement
- I see a personal value beyond grant requirements
- I see FAIR practices helping my facility
- I see FAIR as providing value to my discipline
- I see FAIR as providing value to science as a whole
What progress has your facility made toward making research data more FAIR?

- Communicated the importance of FAIR principals to our facility
- Provided broad training for staff on FAIR related concepts
- Provided focused training for staff on implementing FAIR practices in their specific roles
- Developed a facility-wide plan for implementing FAIR practices
- Developed a schedule for FAIR data implementation
How much of a hinderance have the following been in regards to implementing FAIR at your facility?

- None at all
- A little
- A moderate amount
- A lot
- A great deal

1. Lack of tools
2. Lack of people who understand FAIR
3. Lack of time (prioritizing) FAIR data
4. Lack of money
Which of the following have been helpful in regards to FAIR implementation at your organization?

- Technical Tools
- People who understand FAIR
- Leadership that supports FAIR
- Funding

- Not at all helpful
- Slightly helpful
- Moderately helpful
- Very helpful
- Extremely helpful
To the best of your knowledge does your facility do/have?

- Do your facility's datasets have an external identifier?
- Does your facility have an index or catalog of available datasets?
- Is the index/catalog available to external users?
- Does the index/catalog have an API or a way for an external computer agent to harvest the
  Are your metadata records being harvested by outside systems?
- If there is a catalog, is searching the catalog usually enough to find the data you
- When searching the catalog, do you need to examine files in the dataset to determine whether
- Do you ever use outside search tools to find your own facility's datasets? e.g. DataONE
What would help you most in becoming more FAIR?

- Training on FAIR principles
- Connecting to implementation networks for your
- Better tooling
- More time
- Organizational support
“Do you see AI/ML as a driver for FAIR data practices? If so, please describe.”

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<thead>
<tr>
<th>Response</th>
<th>Count</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Yes</td>
<td>9</td>
<td>47%</td>
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<tr>
<td>No</td>
<td>4</td>
<td>21%</td>
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<tr>
<td>Unsure / Unrelated / Not Now</td>
<td>6</td>
<td>32%</td>
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2024 Plans

• Participate in July ESIP meeting
• Continue engagement with FAIROS RCNs
  • Instrument Identifiers
  • FARR – FAIR AI Readiness & Reproducibility
• Speakers / Webinars
Meeting Time

- Open to anyone
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- 1:15pm – 2pm ET / 10:15 am – 11am PT

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