

Data Management Support

First steps in implementing research data services

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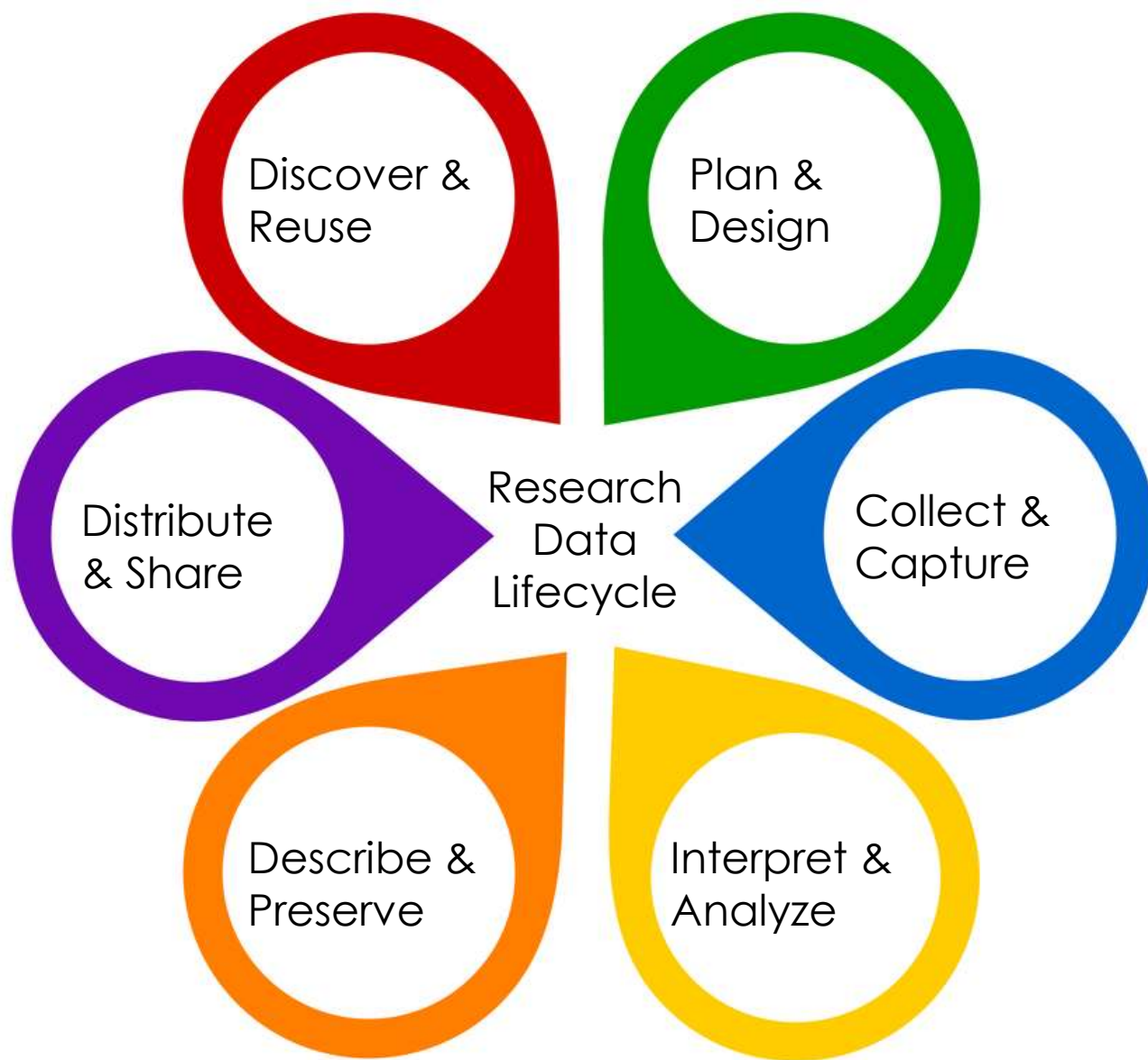


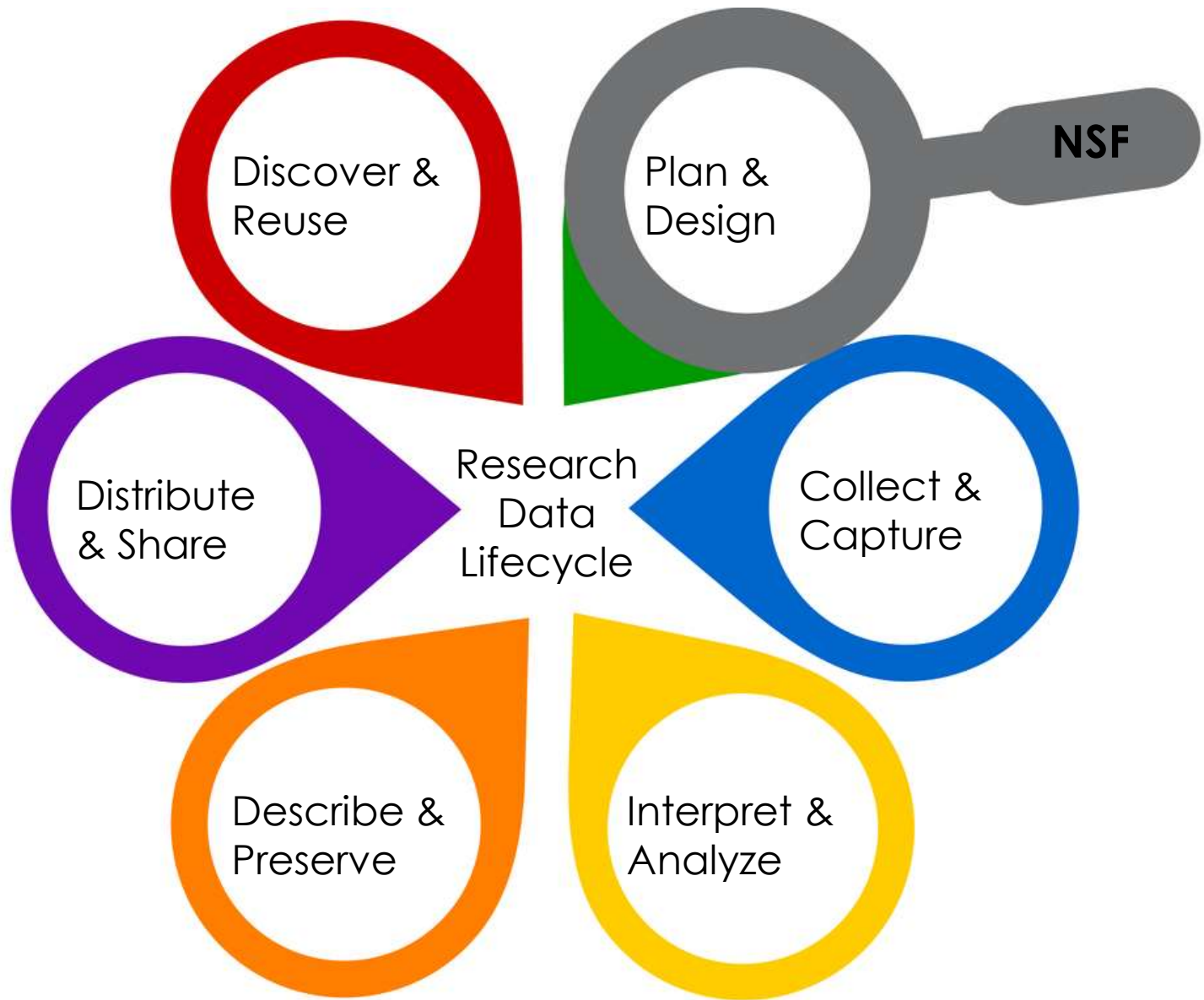
"between
1500-2500 MB
of imaging
data"

"plasmonic
nanostructur
e simulations
..."

"several
million points
of data in
each data
set"

"electric and
magnetic
field profiles"

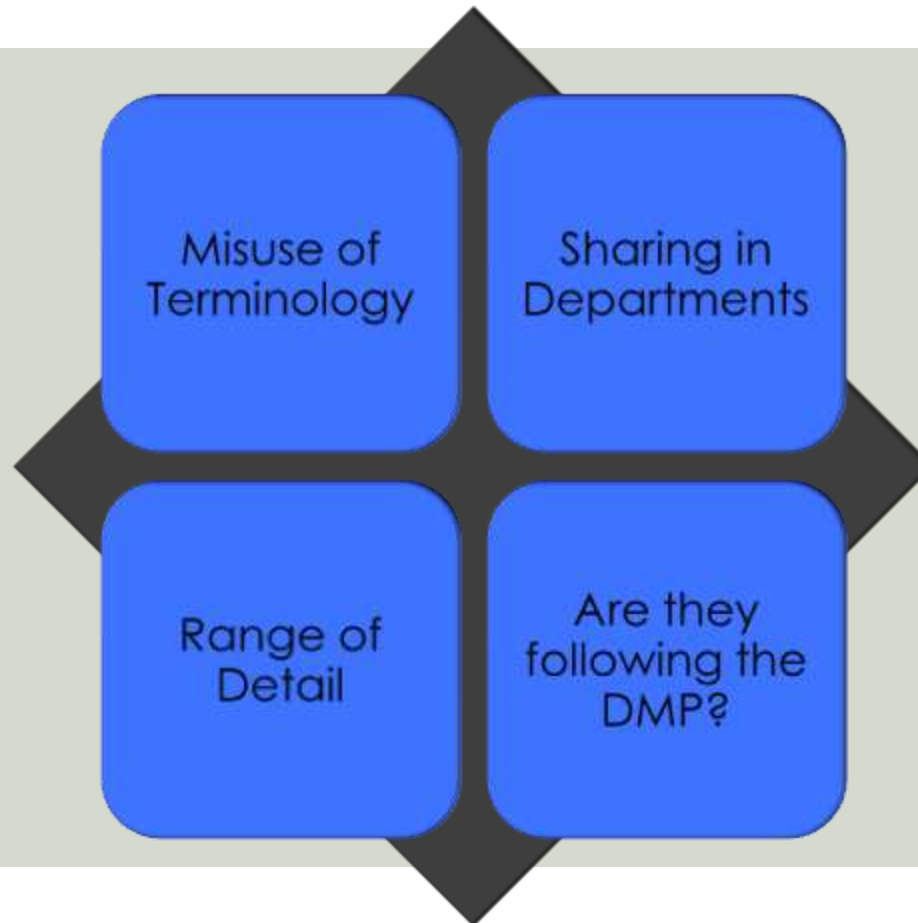




General Requirements

- Types of data produced
- Standards for data and metadata
- Policies for access and sharing
- Policies for re-use and re-distribution
- Plans for archiving and preservation

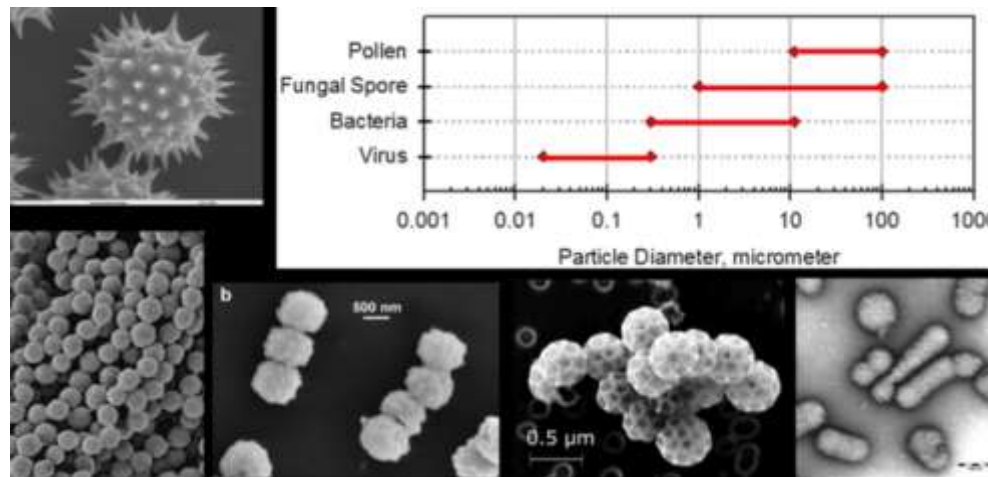
Trends



Interview Questions

- Description of data
- 5 questions about storage and access
- 4 questions about sharing
- 1 question about preservation
- 1 question about the library's role

Snapshot: Chemistry



Common themes: Storage

- Storage a key issue
- Lack of formalized departmental policies

Common themes: Sharing

- Embargo period
- Proprietary outlook
- Some data not possible to share
- Use of disciplinary repositories

What role can the library play?

Best Practices

Storage

Statistics

DMPs

Sharing

No Role

Link Data

LIS Students

Metadata

Think about managing your data

What are your goals?

- ▣ Facilitate ongoing research?
- ▣ Funding or journal requirements?
- ▣ Dissemination with others?

Issues to consider

- ▣ **Organizing data**
- ▣ **Storing and preserving data**
- ▣ **Sharing and re-using data**

Issue: Organizing data for self and others

Metadata

- Description of data
- Makes easier to find, reuse, and share
- Ensures everyone speaking the same language

Standards

- General: [Dublin Core](#)
- Discipline specific: FGDC, AVMS, ABCD

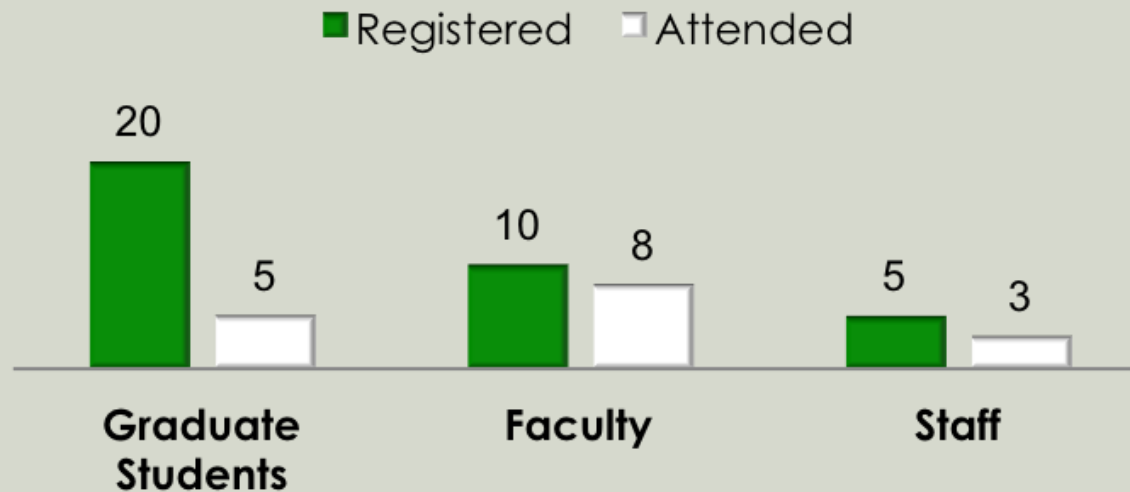
Issue: Sharing and access

Discussion: Sharing

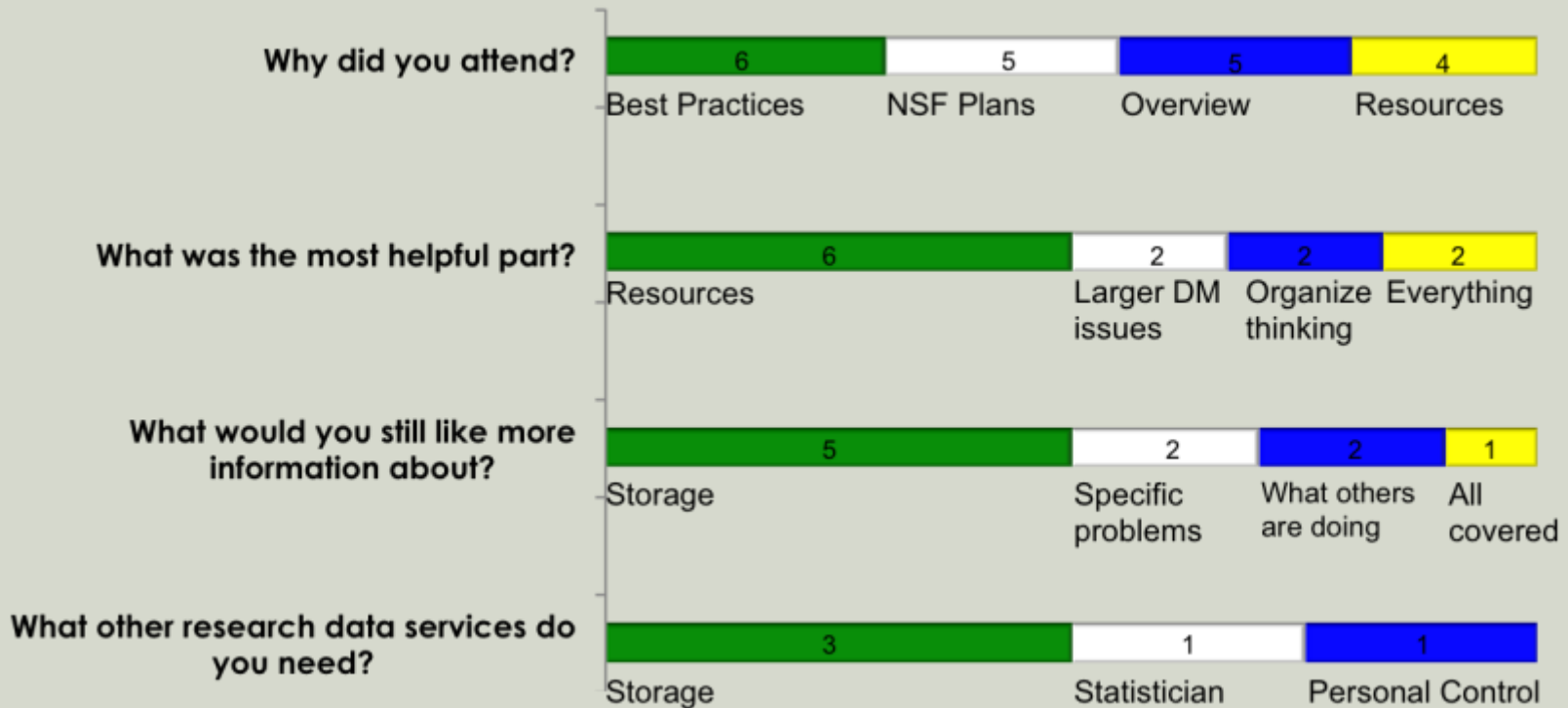
- ▣ What are the benefits of sharing your data?
- ▣ What concerns do you have about sharing your data?

Registration & Attendance

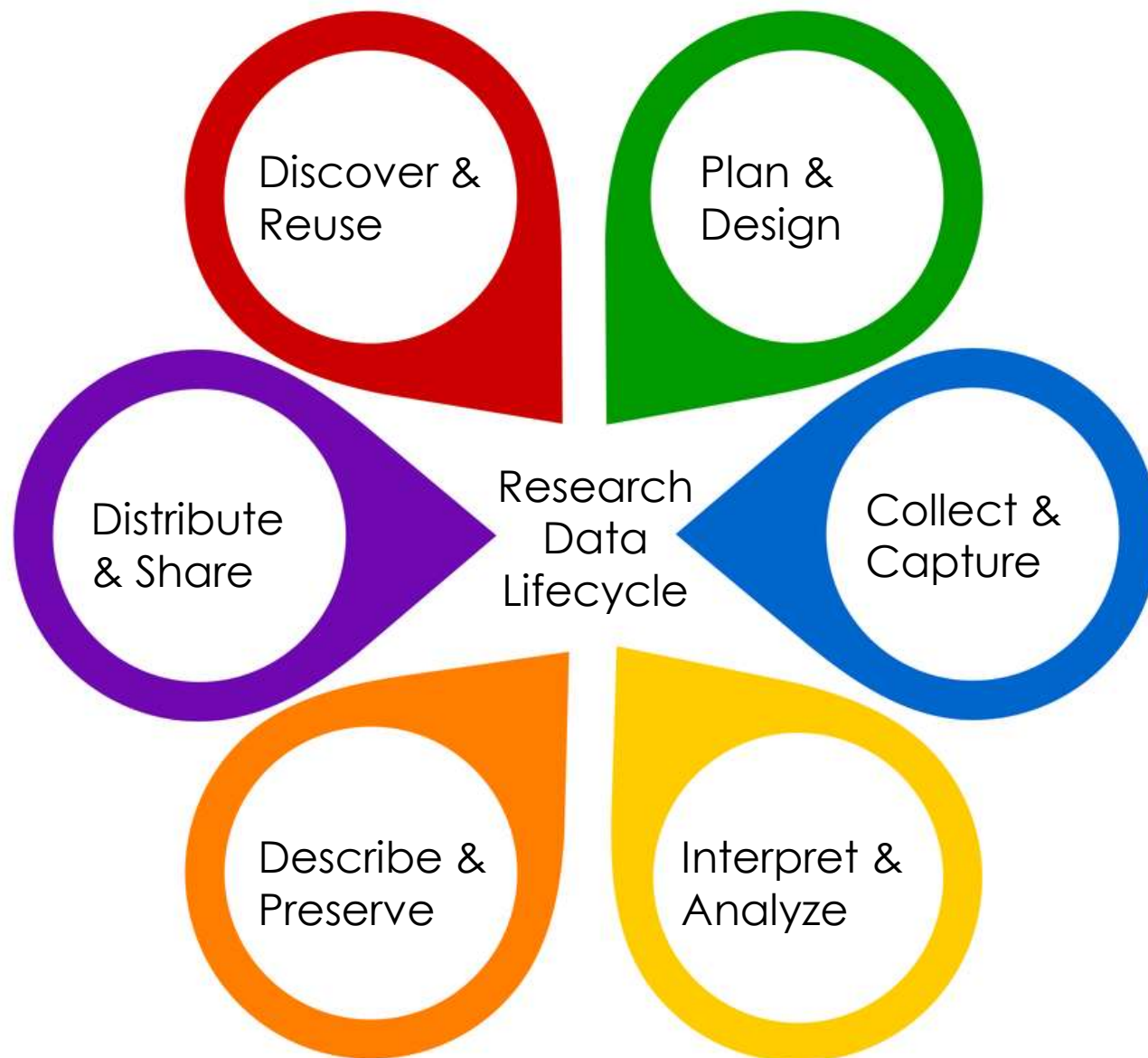
Registration & Attendance



Survey Results



Next Steps



New Partner: Center for Statistics & Visualization



Joe Ryan, Research
Visualization Engineer



Tamara Greasby,
Research Statistician

<http://dataviz.du.edu>

New Partner: Center for Visualization & Statistics

[What is Information Visualization?](#)

Online Tools

[Library Resources](#)

[Software](#)

Online Tools

 [Comments\(0\)](#)

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Search:

Tools on the Web

There are a number of free and fee-based visualization tools on the web. What you'll find on this page is just a sampling of what's out there!

Explore more tools [here](#) and [here](#).

[Comments \(0\)](#)

Fun Stuff

Online Tools



Gapminder

Explore global data and macro-trends through interactive, time-based maps and graphs. Covers major aspects of global development such as: Environment, Health, Energy, Gender, Economy, Demography and Governance. Data is downloadable, and user can also access lesson plans, videos, and more.



Plotly

This tool allows you to create and customize scatter, line, bar, area, error bar, heatmap, box, and histogram visualizations using your own data. You can then export and share your creations.



Infogr.am



Questions?

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Image credits

Research Data Lifecycle image adapted from Research 360 Project:

<http://blogs.bath.ac.uk/research360/about/>

International Society for Traumatic Stress Studies. 2014. Retrieved from:

<http://www.istss.org/ResearchingTrauma.htm>

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