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Thinking Long-Term: The Research Data Life Cycle beyond Data Collection, Analysis and Publishing

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THINKING LONG-TERM

**The Research Data Life
Cycle beyond Data
Collection, Analysis and
Publishing**

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By Gabba Gabba Hey!



Research Data Life Cycle

- Data is an important product of research and should (as much as possible) be accessible for re-use.
 - Researchers may continue to work with some or all of the data even after the project has been completed
 - Follow-up projects may re-analyze existing data or add new data to an existing data set
 - Data may be re-used or re-purposed by other researchers

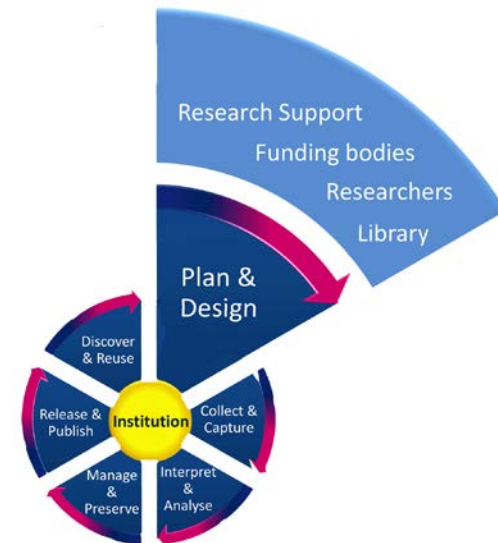
Research Data Life Cycle



Plan & Design

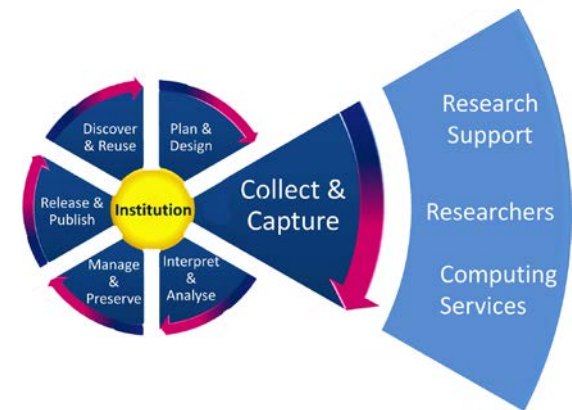
Components of a data management plan:

- Context
- Organizing data & file formats
- Documentation & metadata
- Storage & security
- Data protection, rights & access
- Preservation, sharing & licensing



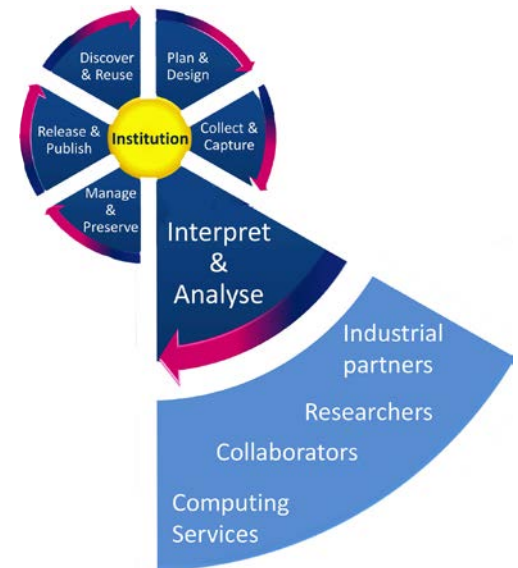
Collect & Capture

- Think beyond your current project
 - Other people using your data will need to understand what you've done
- Document the collection process
 - Examples: Codebooks, questionnaires, software syntax, lab books, README.txt
- Describe the data
 - Data ≠ information
 - Create metadata to describe and facilitate sharing
 - Create a data dictionary for your metadata



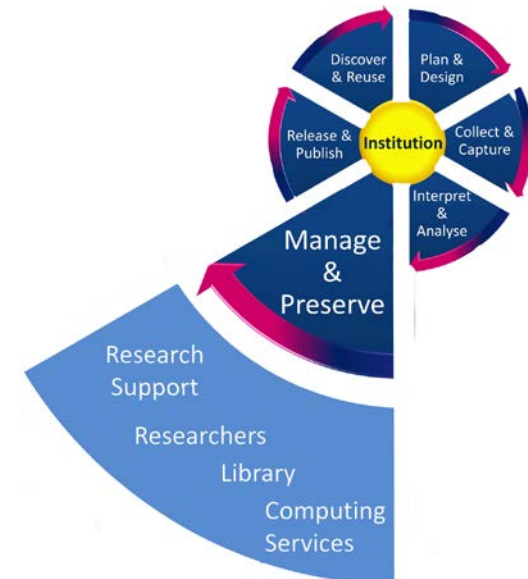
Interpret & Analyze

- Keep master or raw version of your data separate from what your working with
- Data storage & security
- Quality control, data cleanup



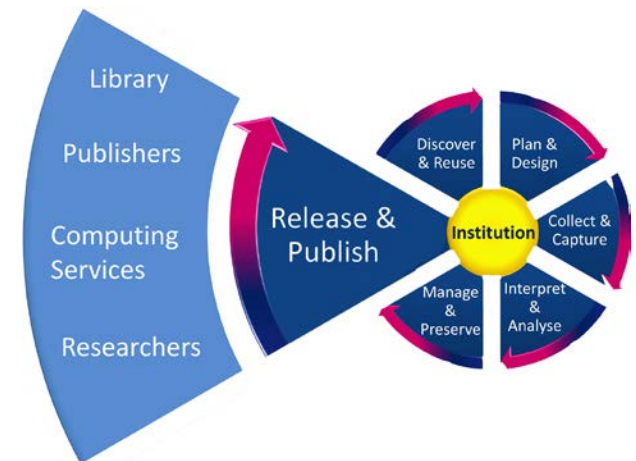
Manage & Preserve

- Retention
 - Short-term vs. long-term
- Long-term considerations
 - Format or media obsolescence
 - Appraise and select
 - Versioning information
 - Organizational risks
- Archive data with a data repository



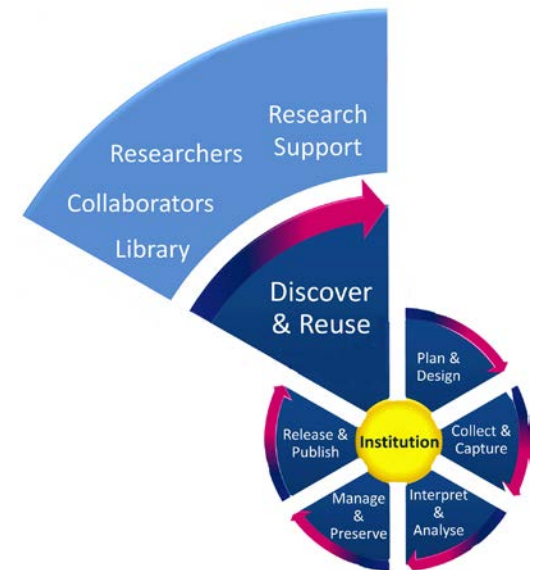
Release & Publish

- Share data
 - ScholarWorks@GVSU
- Citing data
 - Assign datasets persistent identifiers
- Open access
 - Licensing options
 - Embargo period
- Ethics and privacy



Discover & Reuse

- Benefits of discoverability and reusability
 - For yourself
 - Track data impact metrics via data citation
 - Receive credit for reuse of published data
 - For others
 - Follow-up research
 - New research
 - Scrutinize findings



What the Library is Doing

- Evolving and building expertise
- Creating awareness among Library Faculty
- Begin to increase campus awareness
- Campus Dialogue

