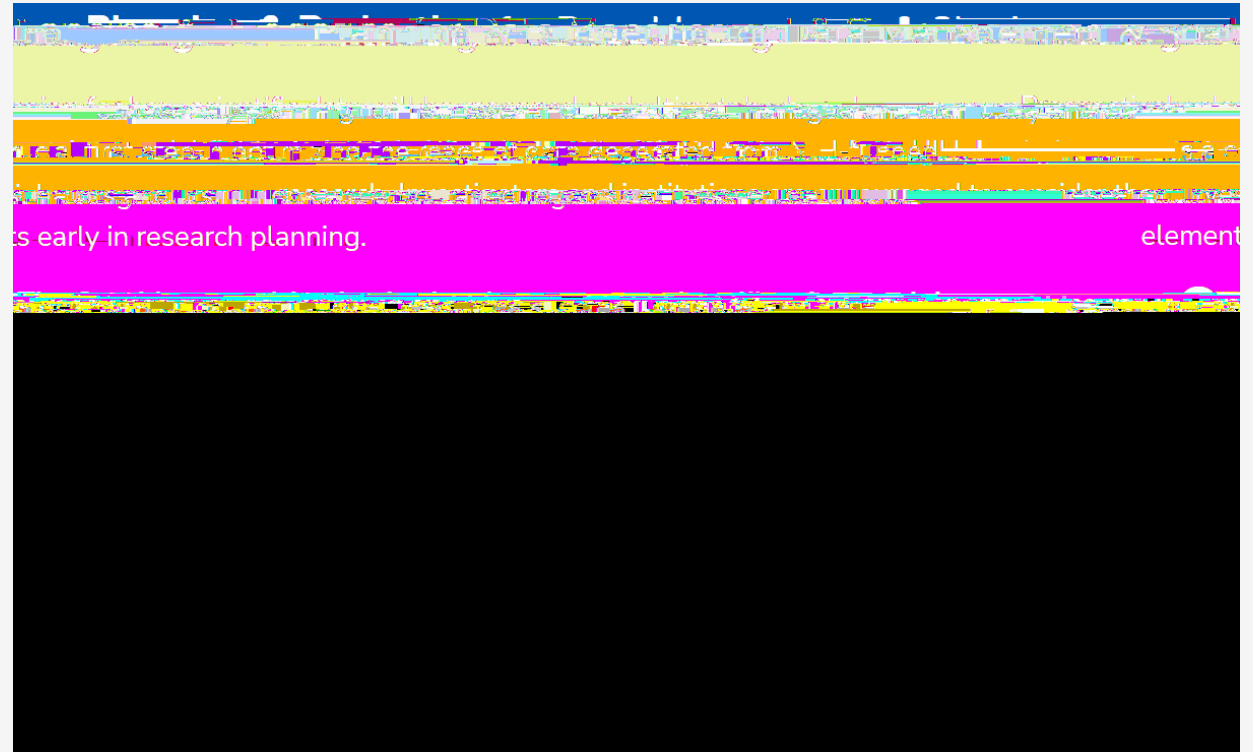


NIH Scientific Data Sharing

What you need to know and resources to help with implementation

NIH Data Management & Sharing Plan (DMSP) Policies

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What are the new NIH DMSP policies? Why are they important?

Purpose: to promote the management and sharing of scientific data generated from NIH-funded or conducted research.

Clarifying Expectations for Sharing Scientific Data

does not create a uniform requirement to share all scientific data

requirement for submission of Plans

the requirement to submit a Plan researchers are prospectively planning for data sharing
integrate data sharing into the routine conduct of research

Through increasingly lead researchers to

What are the new NIH DSMP policies? Why are they important?

Assessment of Plans

The final DMS Policy maintains NIH Program Staff assessments of Plans' merits. management and sharing, although these comments will not impact the overall

peer reviewers may comment on the proposed budget for data score.

NIH Institutes, Centers and Offices (ICO) Consistency of Data Sharing Expectations

we intend to promote

What are the new NIH DSMP policies? Why are they important?

When Data Are Expected To Be Shared

“[s]hared scientific data should be made accessible as 1gH2 11rererssible a, ()20-1(a)-2 (cc)15.3-1 ()301(a)ss 4 (e)-2 (t)-1 (a)1 (ar2 ()20 (sht1 (h)2 (a)-2 (r))15.3 t1 (h)2 (a)

What are the new NIH DMSP policies? Why are they important?

Page Limit and Template for Plans

we have noted the elements to be addressed in two pages or less, indicating that these descriptions need not be long narratives.

The Acceptability of “To Be Determined” as a Response to Plan Elements

Information eliminates the language that a response of “to be determined” is acceptable

What are the new NIH DMSP policies? Why are they important?

Timelines for Using Funds for Data Management and Sharing Activities

Personnel costs required to perform the types of data management and sharing activities described in the final Supplemental Information are allowable.

Scope of DMSP

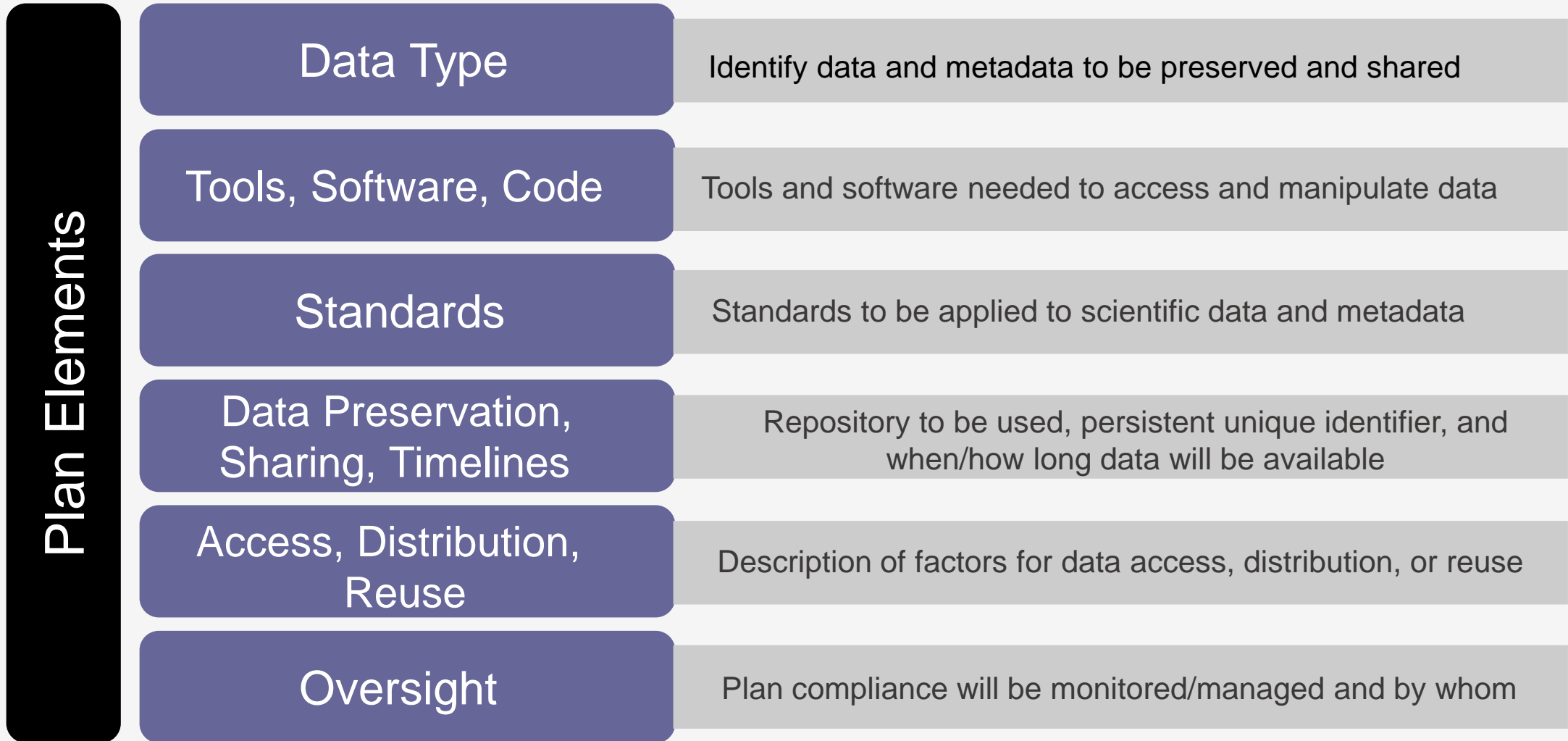
- Applies to all research, funded in whole or in part by NIH, that results in the generation of "scientific data"
- "Scientific data" is defined as: "the recorded factual material commonly accepted in the scientific community as of sufficient quality to validate and replicate research findings, regardless of whether the data are used to support scholarly publications."
- **Does not apply to funding that does not generate data**

Exclusions from the DMSP

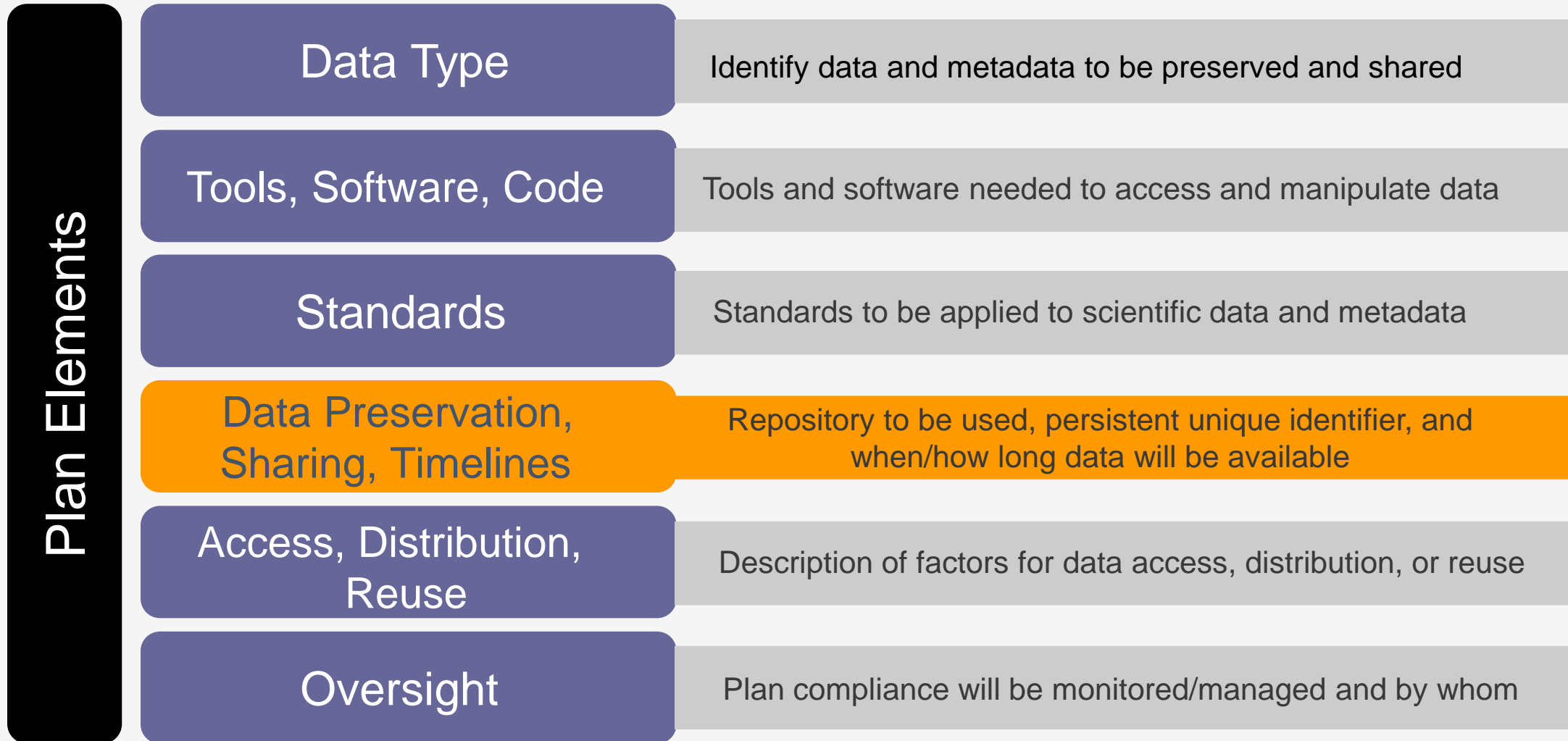
Scientific data not included:

- Data not necessary for or of sufficient quality to validate and replicate research findings,
- Laboratory notebooks
- Preliminary analyses
- Completed case report forms
- Drafts of scientific papers
- Plans for future research
- Peer reviews
- Communications with colleagues
- Physical objects (e.g., laboratory specimens)

Elements of a DMS Plan



Elements of a DMS plan: Data preservation, sharing, timelines



NIH Data Sharing Landscape

NIH encourages the use of established data repositories

Improves the FAIRness of Data (Findable, Accessible, Interoperable, Reusable)

sensitivity of data size of dataset complexity of data

Desirable Characteristics for All Data Repositories

¾ Unique Persistent Identifiers

¾ Long-Term Sustainability

¾ Metadata

¾ Curation and Quality Assurance

¾ Free and Easy Access

¾ Broad and Measured Reuse

¾ Clear Use Guidance

¾ Security and Integrity

¾ Confidentiality

¾ Common Format

¾ Provenance

¾ Retention Policy

Additional considerations for human data

¾ Clear Use Guidance

¾ Retention Guidelines

¾ Fidelity to Consent

¾ Restricted Use Compliant

¾ Privacy

¾ Plan for Breach

¾ Download Control

¾ Violations

¾ Request Review

Finding and selecting a repository

- NIH Supported subject-specific, open-access repositories
- Primary consideration should be given to data repositories that are discipline or data-type-specific

**** First Choice Whenever Possible ****

70+ NIH Subject Repositories



Examples

- Metabolomics Workbench (MetWB)
- Stimulating Peripheral Activity to Relieve Conditions Portal (SPARC)
- BioSystics Analytics Platform (BioSystics-AP)
- National COVID Cohort Collaborative (N3C)
- Natural Products Magnetic Resonance Database (NP-MRD)
- ETC.....

Tools and resources to help

USA Institutional Repository

JagWorks@USA Repository

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 -
 -
-

What can be included at JagWorks@USA?

Wide range of content and materials

Examples: (not an exhaustive list)

Theses/Dissertations

Conference presentations/posters

Journal articles

Journals published at USA

Datasets

Images

Accreditation documentation

Open educational resources

Podcasts

Tex

Limitations on data sharing

Justifiable ethical, legal, and technical factors:

- Informed consent will not permit or limits scope of sharing or use
- Privacy or safety of research participants would be compromised and available protections insufficient
- Explicit federal, state, local, or Tribal law, regulation, or policy prohibits disclosure
- Restrictions imposed by existing or anticipated agreements with other parties

Reasons **NOT** acceptable to limit sharing:

- Data are considered too small
- Data will not be widely used
- Data are not thought to have a suitable repository

For more information and questions?
