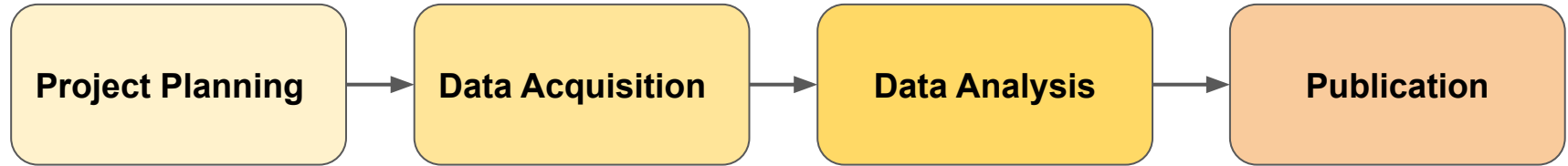




Research Data Management + Compliance at Harvard

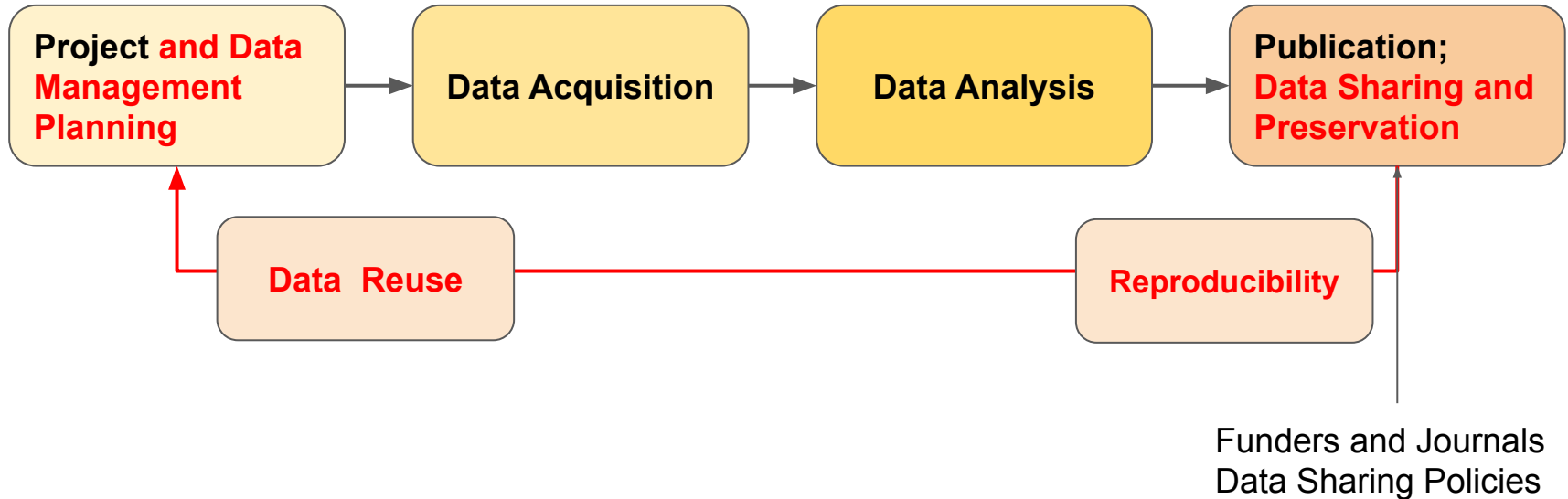
A Presentation and Panel Discussion

The Old Data Lifecycle



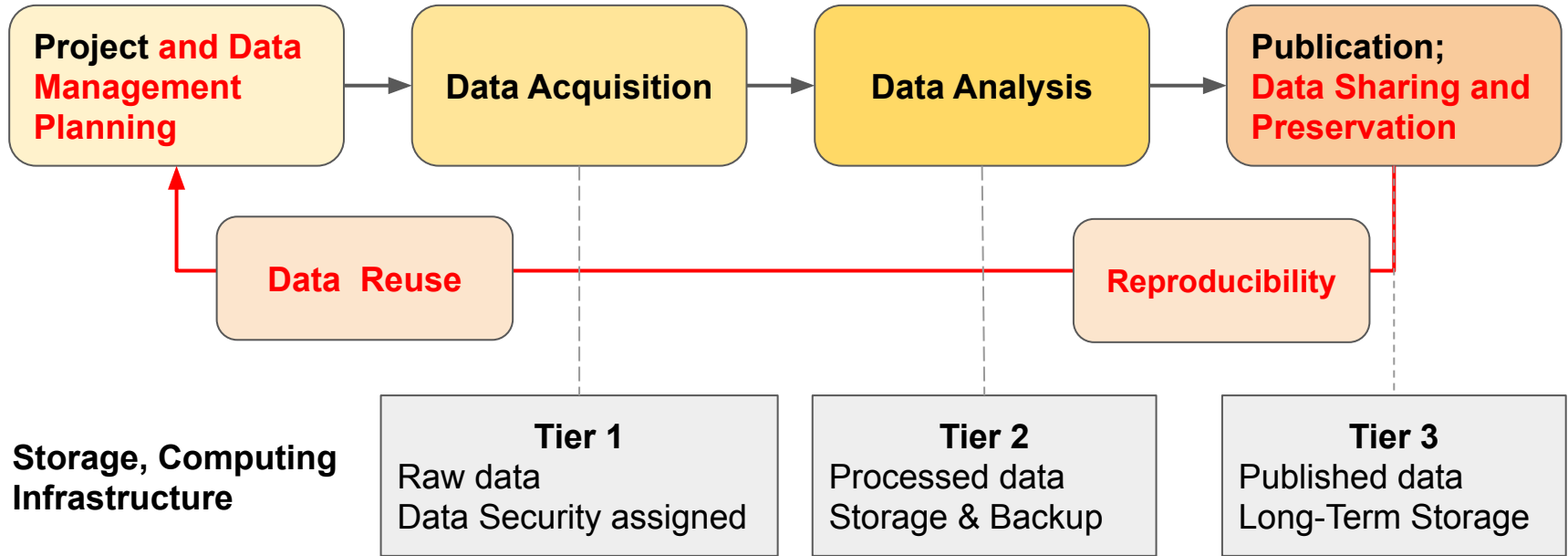
The New Data Lifecycle

Data as a Product of Research



The New Data Lifecycle

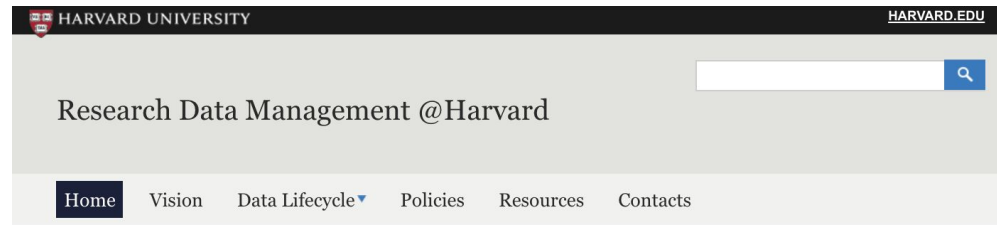
Data as a Product of Research



A New Website

<http://researchdatamanagement.harvard.edu>

- Launched January 2019
- A Harvard-wide resource
- Supports the new data lifecycle
- News and DataShares blog
- Content from groups across Schools, HL, HUIT, OVPR
- Maintained by OVPR



A reference guide with information and resources to help you manage your research data

DATA LIFECYCLE

Planning Data Management

How can I best manage my data throughout the lifecycle of my research to save time and money in the future?

- Data Management Plans (DMPs)
- DMP requirements and tools
- What research objects should be tracked and documented

Data Acquisition and Collection

How can I acquire data in an efficient and ethical way, and how can I ensure that my data is used appropriately?

- Data Use Agreements (DUAs)
- Institutional Review Boards (IRB and IACUC)
- Subscription data

Storage, Security, and Analysis

What are my options for effectively organizing, storing, securing, computing, and analyzing my research data?

- Data security
- Computing, research methods, data science, and viz support
- Electronic Lab Notebooks

Dissemination and Preservation

Why is it worthwhile to share my data? What do funders and journals require? Can I get help with data curation?

- Data repositories
- Open Access
- Data citation, FAIR principles
- Data disposal

LATEST NEWS



New Data Use Agreement Guidance for Harvard Researchers

January 4, 2019

As part of a larger initiative to improve transparency of research compliance processes, the University has introduced a tool for submission, review, and management of Data Use Agreements (DUAs). In support of recently [published guidance by the Office for the Vice Provost for Research](#) on the management of DUAs, researchers sharing data can use the system to request a DUA review, correspond with the DUA reviewer, track the status of review, and manage active DUAs (including amendments and extensions...

[Read more](#)

DATA SHARES

One Step Closer to the “Paper of the Future”

March 13, 2019



[Catherine Zucker](#) is a fourth-year PhD student in astronomy at Harvard. Her work focuses on understanding the structure of our Milky Way Galaxy, through the combination of observations, numerical simulations, statistics, and data visualization. She is advised by Professors [Alyssa Goodman](#) and Douglas Finkbeiner. [Alyssa Goodman](#) is the Robert Wheeler Willson Professor of Applied Astronomy,

Working Groups to Foster Collaboration and Diverse Input

RDM Support WG

- **Chairs: Ceilyn Boyd, Julie Goldman**
- 8 members
- HL, HBS RCS, Chan Bioinformatics Core, HMS RDM, IQSS, OVPR

Electronic Lab Notebooks WG

- **Chairs: Mercè Crosas, Alan Wolf, Mason Miranda**
- 6 members
- OVPR, HUIT, HMS RITS, HL

Data Use Agreements Operations WG

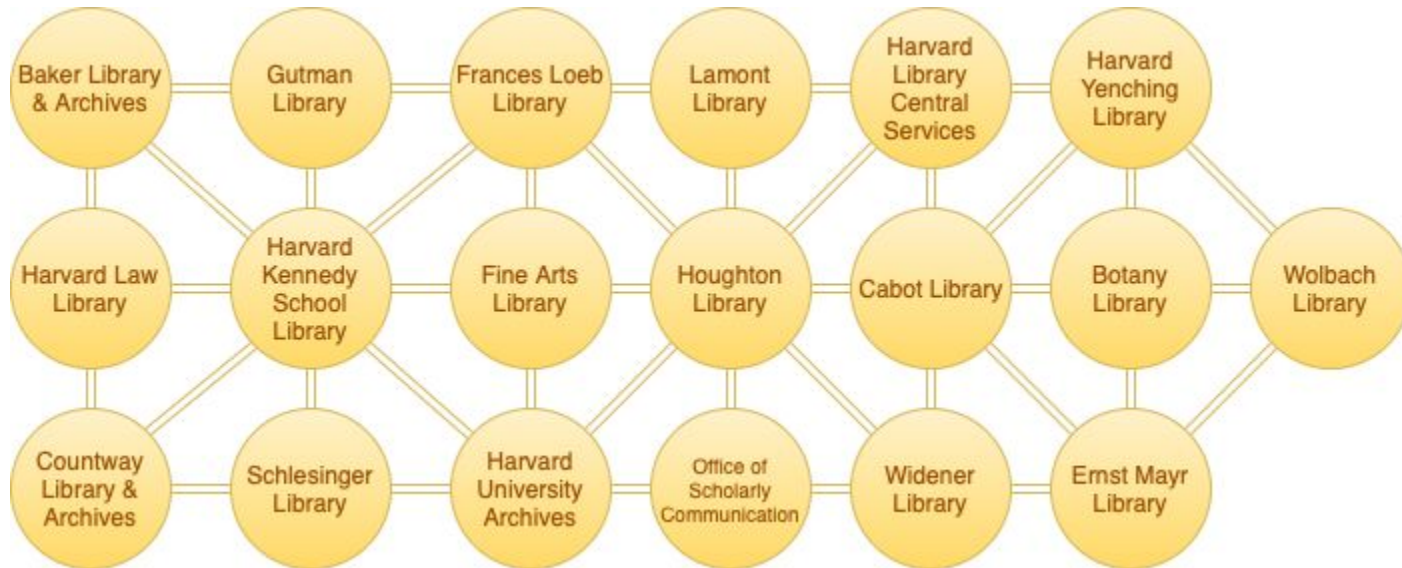
- **Chairs: Jennifer Ponting, Alisa Jahns**
- 16 members
- OVPR, OSP, HUIT, HMS-ORA, SPH-SPA, SEAS, FAS, GSE, HMS Health Care Policy

Data Safety and Security WG

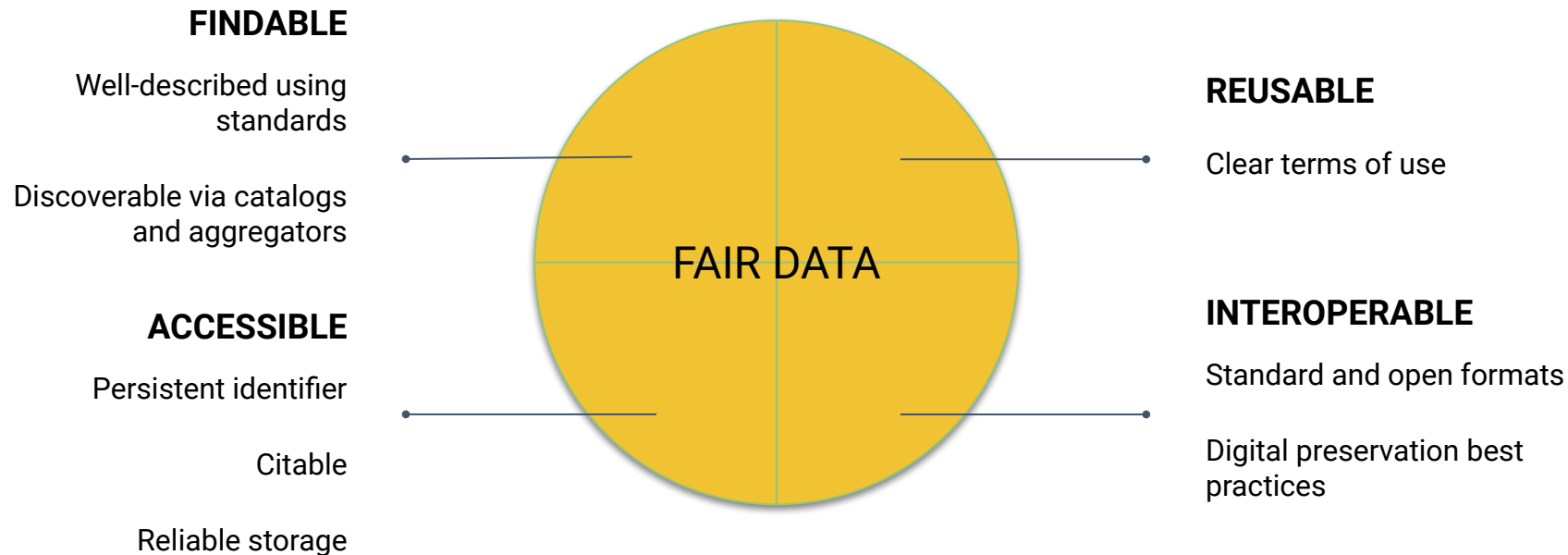
- **Chairs: Alisa Jahns, Rachel Talentino**
- 9 members
- OVPR, HUIT, HMS, GSE, SPH, HMS Health Care Policy

Support for data as a scholarly resource

Harvard Library network for research data management & digital scholarship services and resources



FAIR Data as a scholarly resource



Harvard Library provides support across the research data lifecycle

Individual libraries offer specialized data and digital scholarship services & resources

PLAN	COLLECT, GENERATE & STORE	CLEAN, ANALYZE & VISUALIZE	PUBLISH & SHARE	ARCHIVE & PRESERVE	REUSE
Plan for research data needs	Acquire, organize & store data	Process data for current use	Organize & share data in repository	Appraise & steward data	Discover & reuse data
DMPTool	Digitization services	Data cleaning, processing & visualization services & support	Dataverse data repository & DASH	Digital & data preservation services	Data reference services
Data Management Plans (DMPs)	Data acquisitions	Consultations, referrals & best practices	Data curation services*	Consultations, referrals & best practices	Consultations & referrals
Consultations, best practices & referrals	Consultations & best practices	Consultations, referrals & best practices	Consultations & referrals		

New Data Curation Services

Collaborative services offered by IQSS and Harvard Library

Anticipated launch: Late-fall 2019

PUBLISH & SHARE

Organize & share data in repository

Dataverse data repository & DASH

Data curation services*

Consultations, referrals & best practices

HARVARD DATAVERSE REPOSITORY

- FAIR data
- Free data deposits
- Self-curation
- DOIs
- Data citations

CONSULTATION (FALL 2019)

- Free consultation & assessment
- Fee-based extended consultation services

DATA CURATION (FALL 2019)

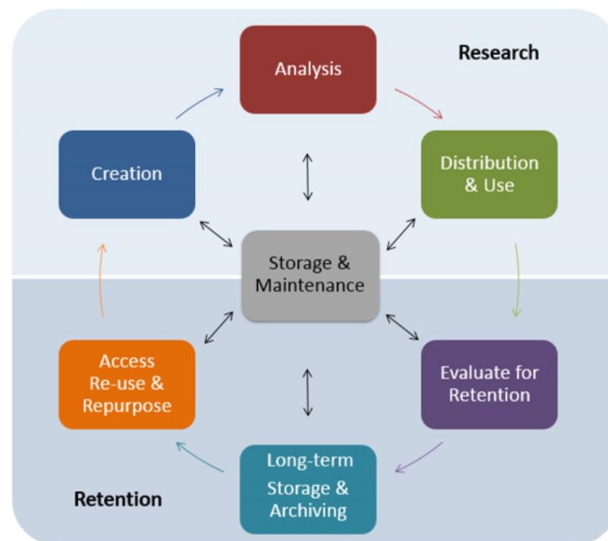
- Dataverse setup & file ingest
- Ongoing dataverse administration & data curation
- Custom data curation services

Biomedical research data management support: What's new in the Longwood Medical Area?

Data Management

Data Management is the process of providing the appropriate labeling, storage, and access for data at all stages of a research project. We recognize that best practices for each of these aspects of data management can and often do change over time, and are different for different stages in the data lifecycle.

Early and attentive management at each step of the data lifecycle will ensure the discoverability and longevity of your research.



Submit Questions and Feedback

Upcoming Trainings & News

Receive Data Management Updates

UPCOMING EVENTS

2019
MAY
16

Webinar: What's New at ORCID?

2019
MAY
17

Webinar: Research Data Management and Workflows in Universities - Transforming Data to Knowledge

2019
MAY
21

Imaging Solutions for Scientific & Scholarly Communication Lunchtime Seminars: Figures for Journals

[More](#)

FEATURED NEWS



DMWG Featured in Nature Article: How to pick an electronic laboratory notebook

Best practices for data management

Checklists for:

- Joining a new lab
- Starting a new project
- Completing a project*
- Leaving HMS*

*checklists in development

RESOURCES
News & Events
Class Materials
Data Management Newsletter
Training Submission Form
Research Data Management Onboarding Checklist
Research Data Management Lifecycle Checklist
Electronic Lab Notebook Matrix
Data Repository Matrix
Additional Resources
Submit Questions and Feedback
Upcoming Trainings & News
Receive Data Management Updates

[HOME](#) / [RESOURCES](#) /

Research Data Management Onboarding Checklist

This document serves as a general, research data management-focused guide to employee/trainee onboarding as they join a new lab or begin new projects. The document provides two checklists: Checklist for Joining a New Lab and Checklist for Starting or Joining a New Project. Follow one or both of these checklists as they apply to your situation. For more specific information, please see the [Research Data Management Lifecycle Checklist](#) provided by Countway Library. Internal and external links have been provided throughout the document as supplementary resources, including a glossary of terms. For additional assistance with terminology, visit [Data Management Terminology](#).

Download the [RDM Onboarding Checklist](#)

RESEARCH DATA MANAGEMENT ONBOARDING CHECKLIST Employee/Trainee onboarding to new labs and projects

This document serves as a general, research data management-focused guide to employee/trainee onboarding as they join a new lab or begin new projects. The document provides two checklists: *Checklist for Joining a New Lab* and *Checklist for Starting or Joining a New Project*. Follow one or both of these checklists as they apply to your situation. For more specific information, please see the [Research Data Management Checklist](#) provided by Countway Library. Internal and external links have been provided throughout the document as supplementary resources, including a glossary of terms. For additional assistance with terminology, visit [Data Management Terminology](#).

CHECKLIST FOR JOINING A NEW LAB

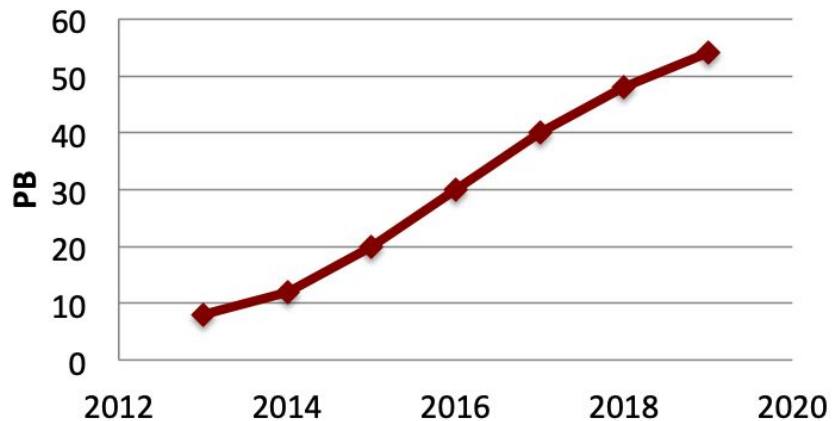
PLANNING		
1) Review Laboratory, Department, and University Data Management Policies:		
	Policies and Procedures	
	<ul style="list-style-type: none">Contact the PI and department Research Administrator for laboratory and department-specific data management policies	
	<ul style="list-style-type: none">HMS Research Data Management Guidelines	Harvard Biomedical Data Management
	<ul style="list-style-type: none">Harvard Retention and Maintenance of Research Records and Data Principles (these principles apply to the Longwood Medical Campus Schools – HMS, HSPH, HSDM)	Retention and Maintenance of Research Records and Data: Principles and FAQs
	<ul style="list-style-type: none">For questions about data retention, contact the Longwood Campus Archives and Records Management Program	Longwood Campus Archives and Records Management

<https://datamanagement.hms.harvard.edu/rdm-onboarding-checklist>



Research Computing: data storage & security updates

FASRC Storage



Data Use Agreements - Level 3 or 4 Requirements

- NIH dbGaP - 9
- Center for Medicare/Medicaid Services (CMS) - 4
- Private Company - 2
- Nielsen Dataset / Chicago Booth - 4
- Juvenile Diabetes Research Foundation
- IPMUS (US Census data)
- MA Center for Health Info & Analysis (CHIA)
- CA Committee for Protection of Human Subjects
- Center for Education Policy Research (CEPR)

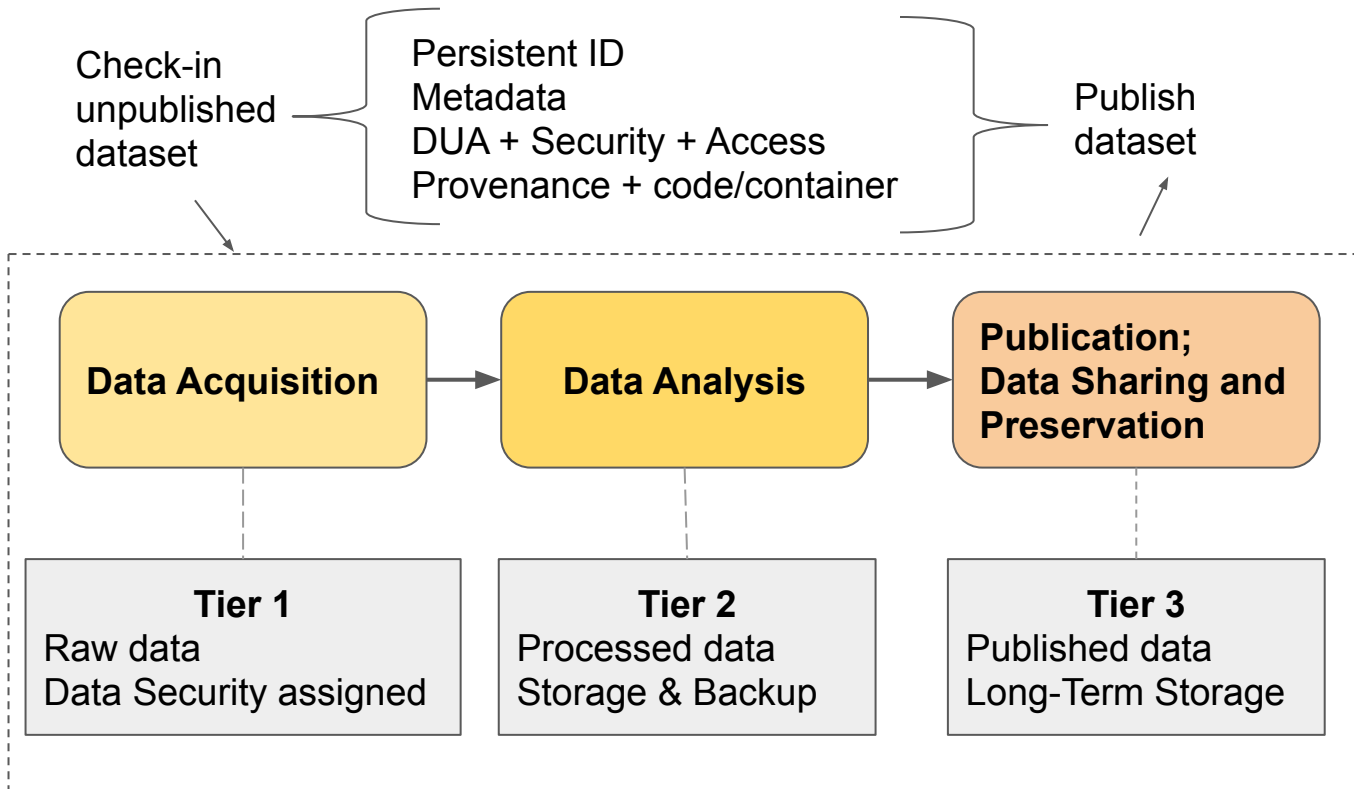
The Harvard Data Commons: A Vision



Check-in
unpublished
dataset

Persistent ID
Metadata
DUA + Security + Access
Provenance + code/container

Publish
dataset



Panel Discussion

