Long tail of Research Data

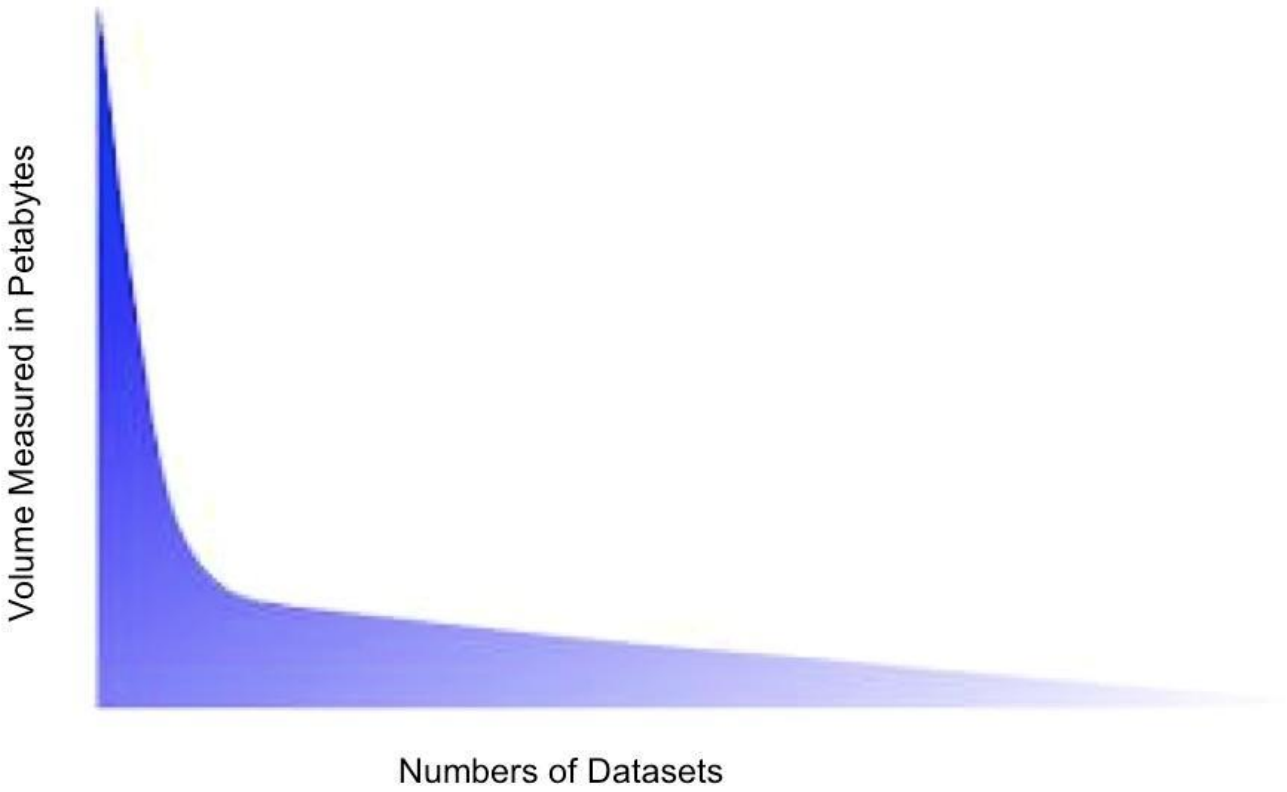
Making the link from the long tail to libraries

Charles (Chuck) Humphrey
University of Alberta Libraries
2014 May

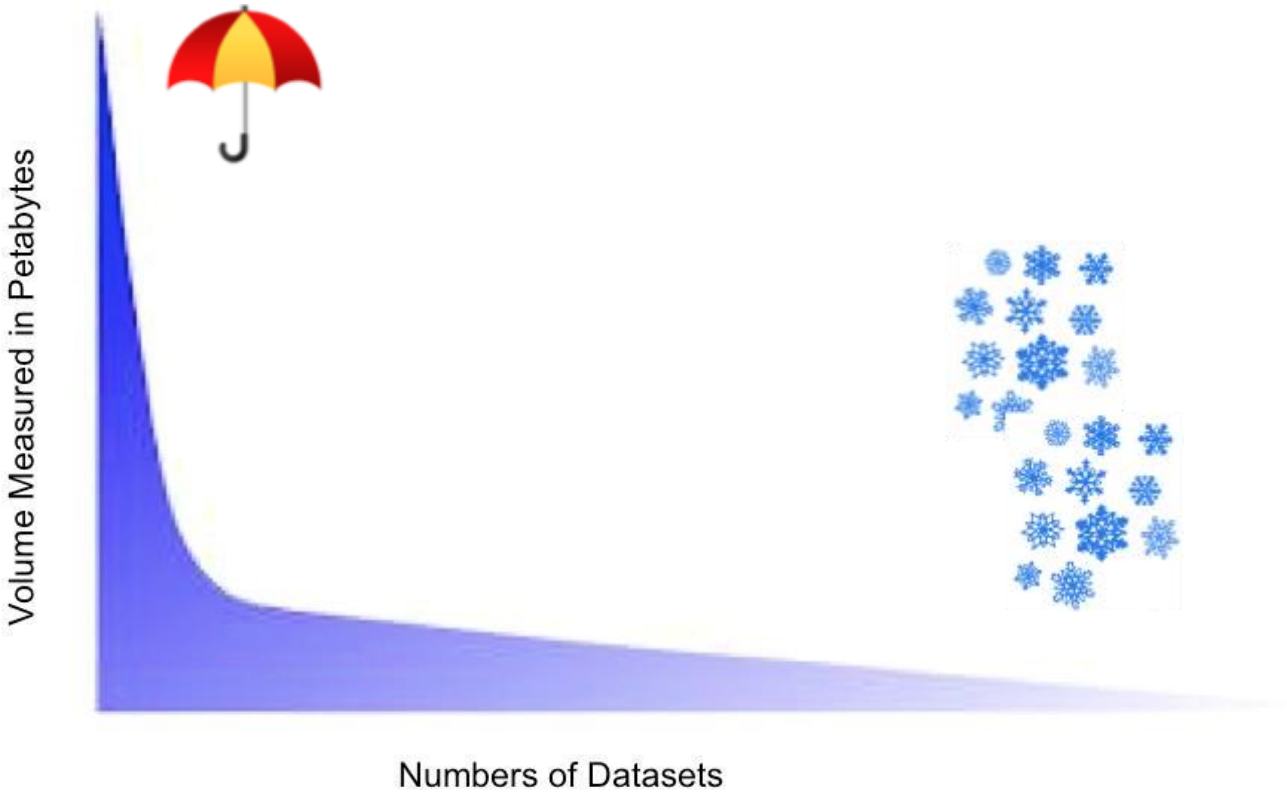
Outline

- Context represented by the long tail of research data
- The long tail applied to project-level research
- Library roles in the research & data lifecycle
  - Institutional roles
  - Project-level service roles
  - Inter-institutional network roles

Long Tail of Research Data



Long Tail of Research Data

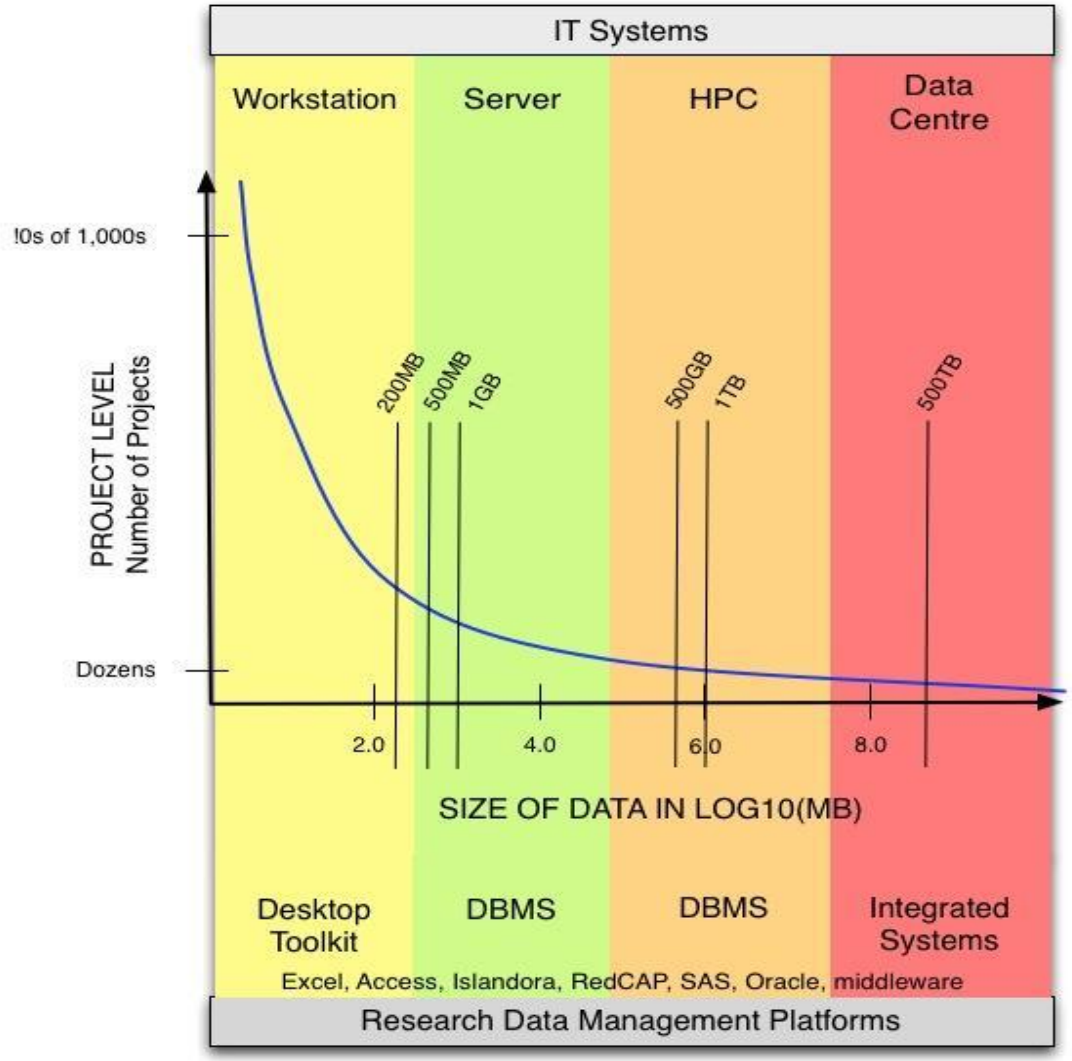


RDMI

Research Data Management Infrastructure

- The combination of technology, services, and expertise organised locally or globally to support research data activities across the research lifecycle.

In Canada, we have gone from building a **national institution** to support research data to building research data management **infrastructure**. This infrastructure is being built from the bottom-up with library involvement.



The Long Tail of Research Data Applied to Project-level Research and Uses of Technology

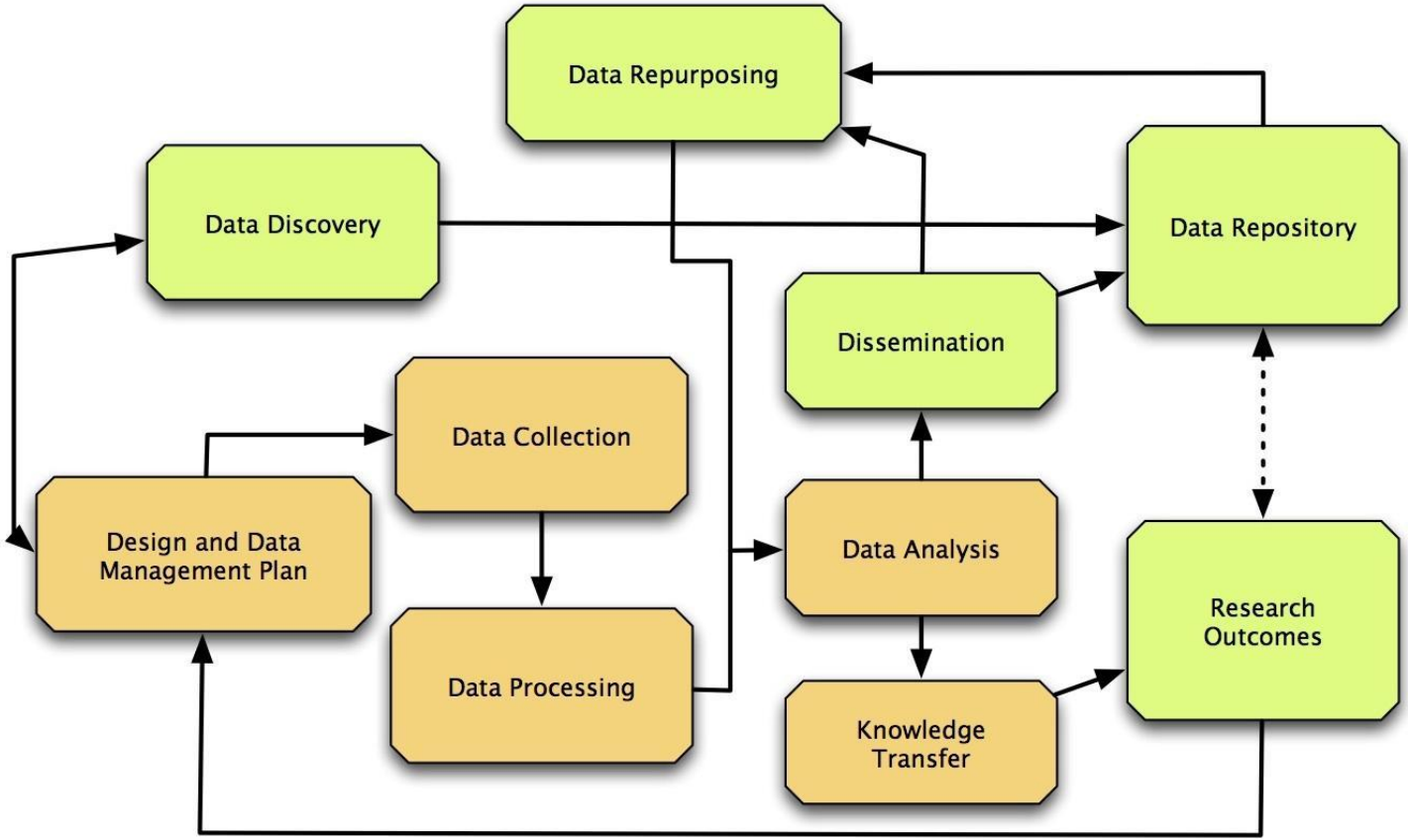
The number of projects that consist of large volumes of data files under 1GB requires the most help with research data management infrastructure (RDMI).
As the scale in data file size increases beyond 500GB, RDMI is built into the operation of the project. These projects are in need of post-project preservation of their data.

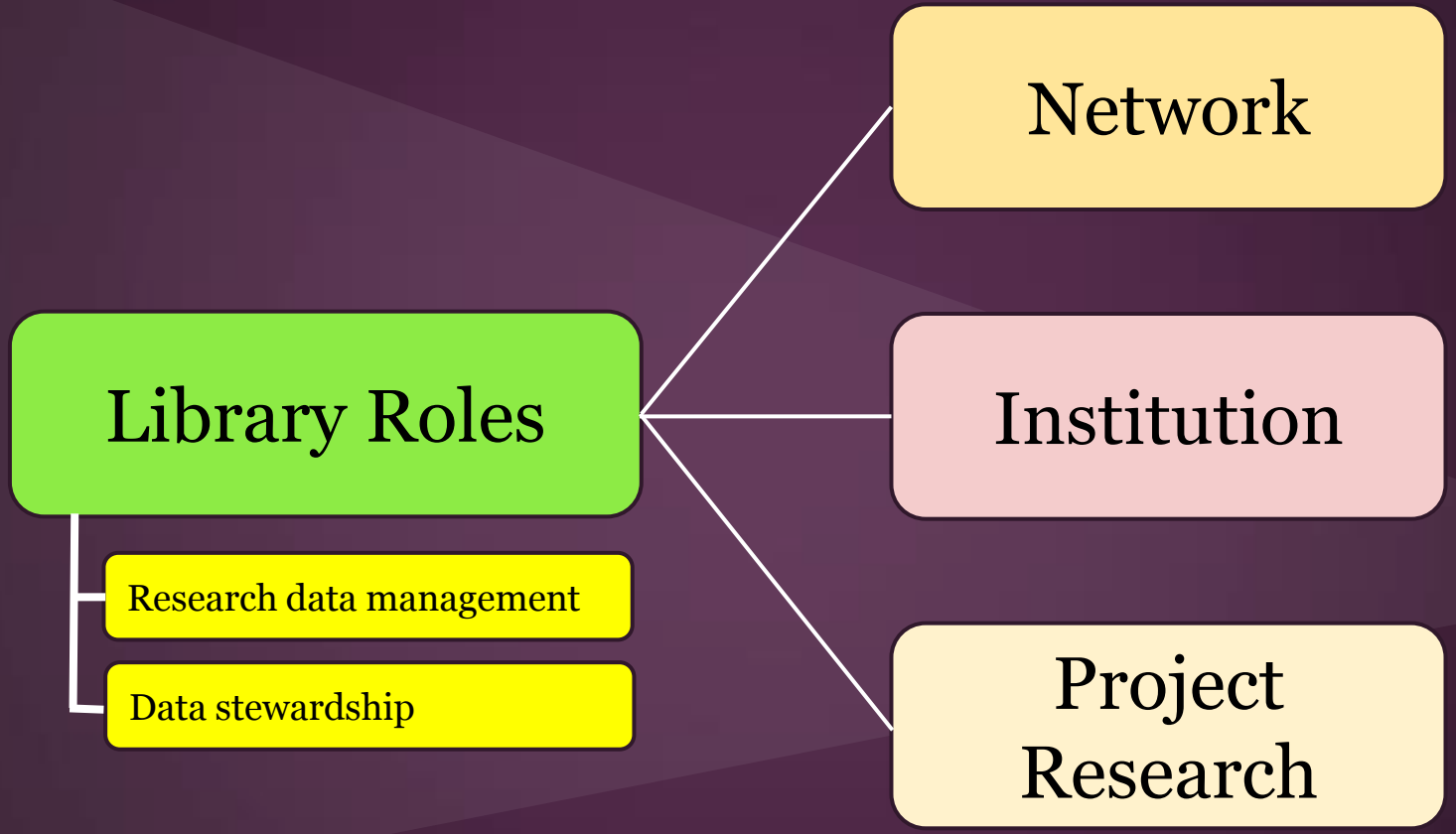
Management & stewardship

Managing research data entails the many activities dealing with the operational support of data across the stages of the research lifecycle. This involves the "what" and "how" of research data.

Data Stewardship is about the identity of those responsible for ensuring data management activities are performed to best practice levels and standards across the complete lifecycle. This addresses "who" is responsible for specific data activities.

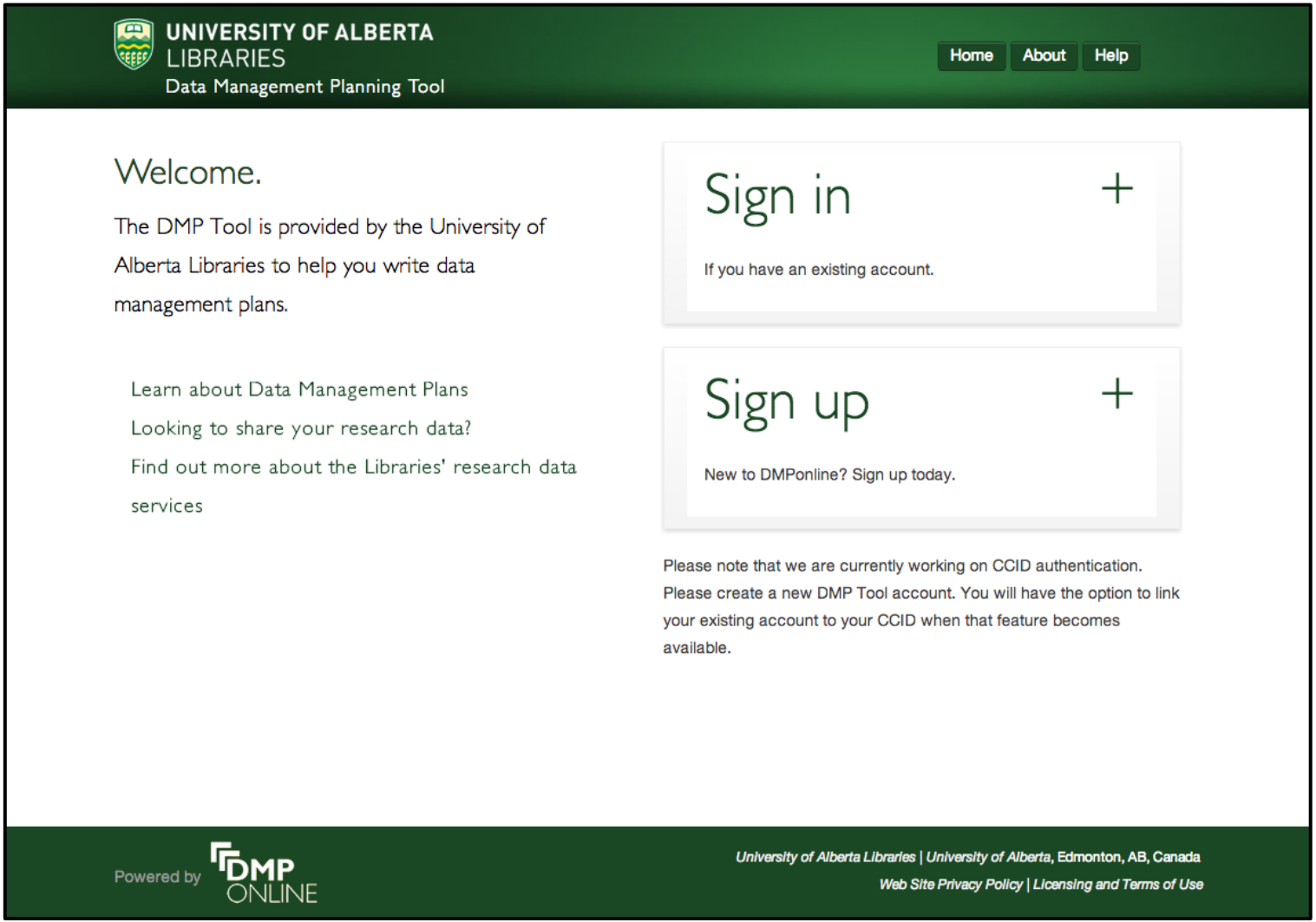
Research lifecycle




Library Roles
Research data management
Data stewardship
Network
Institution
Project Research

Library and projects

- Tools, services, and expertise
  - Data management planning
  - Metadata choices: objects and workflow
  - Project file sharing
  - Data file version management
  - DOI assignment and registration
  - Data file citations
  - Predicable data and metadata flows for submission to a data repository, including file formats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LIBRARIES
Data Management Planning Tool
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Welcome.
The DMP Tool is provided by the University of Alberta Libraries to help you write data management plans.
Learn about Data Management Plans
Looking to share your research data?
Find out more about the Libraries' research data services
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Meeting researchers' needs

- An easy way to share data with one, a few, or many other researchers that does not involve the use of email or Dropbox.
- A simplified approach to entering project-level metadata that can be used repeatedly with other applications.
- A one-step method of minting DOIs for data files that can be used in publications .
- A way to manage multiple versions of data files, including keeping track of changes made to the data.
- A service that helps organize data to submit for preservation processing.

POWERED BY THE Dataverse Network™ PROJECT v. 3.6.2

Log In

UAL DATAVERSE NETWORK

A service to support project-level research on campus and to facilitate the sharing of research data.

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DATAVERSES

3 Dataverses

A ***Dataverse*** is a container for research data studies, customized and managed by its owner.

RECENTLY RELEASED DATAVERSES

The Thomas Melville Hess Collection	May 5, 2014
Geospatial Data Collection	Apr 24, 2014
Research Data Collection	Apr 24, 2014

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STUDIES

41 Studies, 89 Files, 87 Downloads

A ***study*** is a container for a research data set. It includes cataloging information, data files and complementary files.

RECENTLY RELEASED STUDIES

Mink, Dukwibek and others by Lamont, Martha; Hess, Thom	May 5, 2014
Extra ____tape with song; Practice conversation; Grandfather's power song; Unity speech; more practice conversation by Sam, Edward H.; Hess, Thom	May 5, 2014
Mink & his younger brother; A love song with introduction; The Bear and the Ant by Edward, Sam H.; Hess, Thom	May 5, 2014
Cripple Gets Burlington, Washington by Conrad, Emma; Hess, Thom	May 5, 2014
The All Year Around Story by Conrad, Emma; Hess, Thom	May 5, 2014

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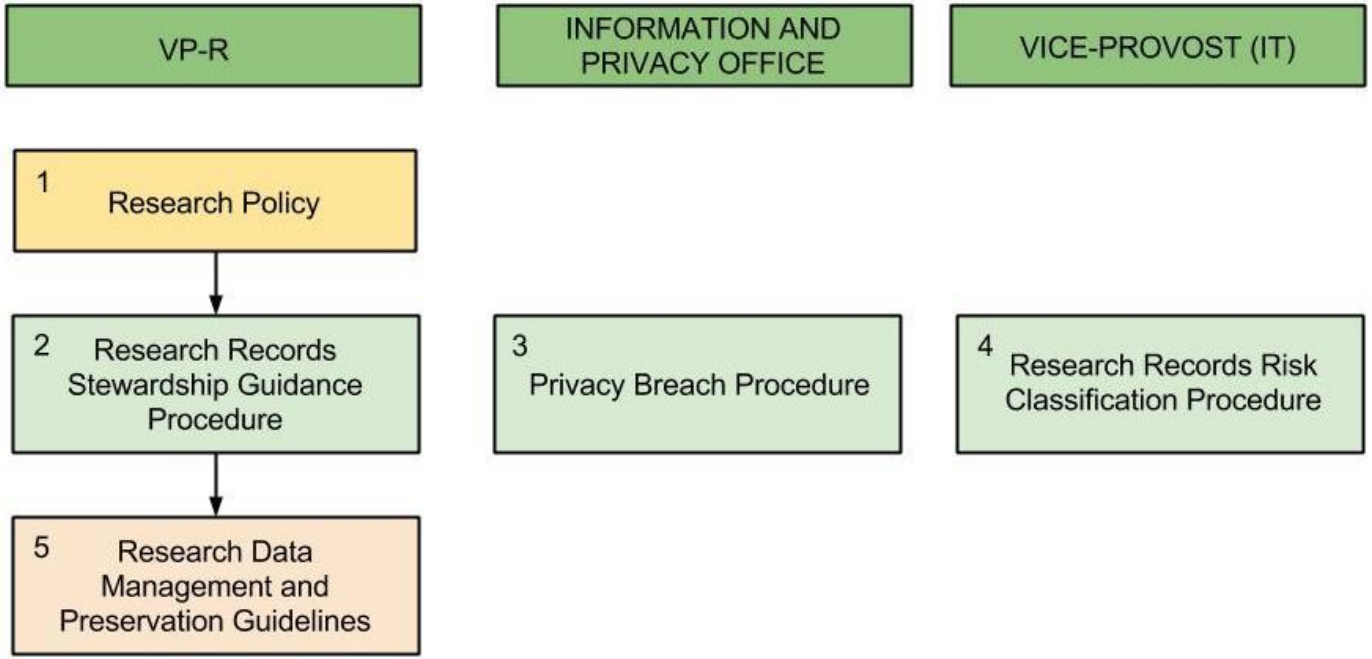
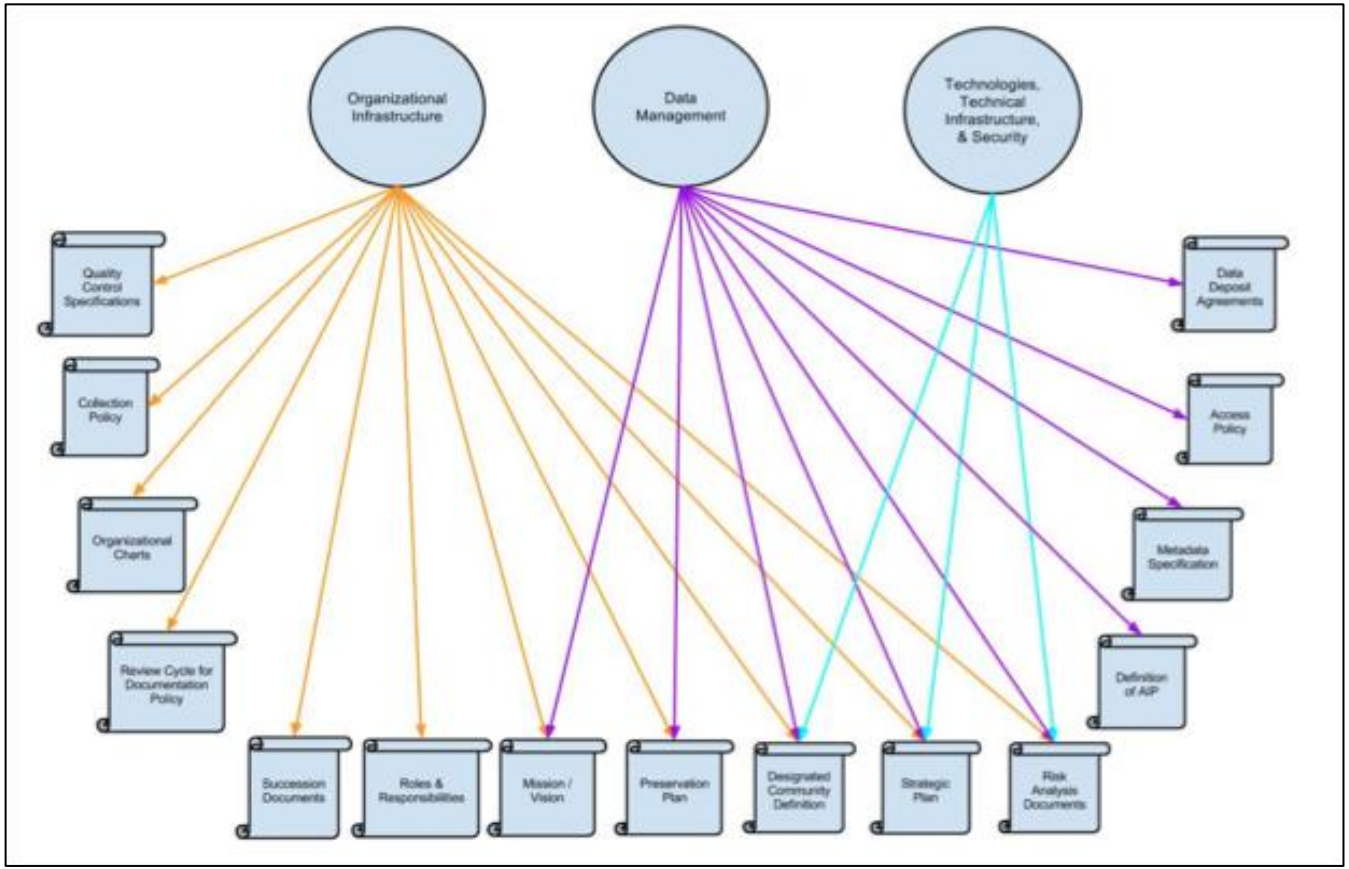
Library and the institution

- Data stewardship
  - Research data policy for the institution
  - Data deposit and dissemination agreements
  - Suite of preservation policies
- Tools, services, and expertise
  - Data curation
  - Data dissemination
  - Data preservation

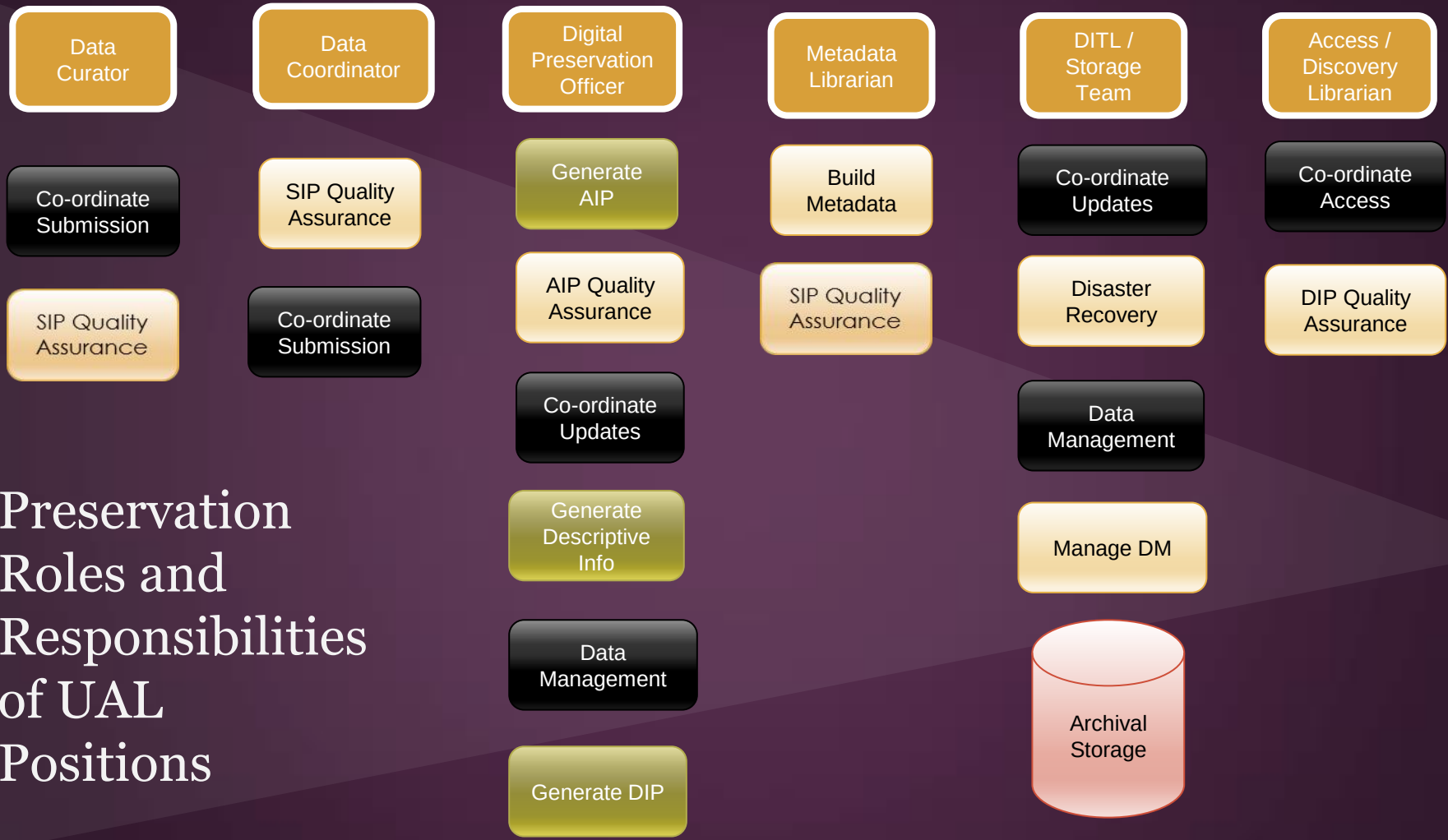
Institutional policy

Institutional policy




Organizational Infrastructure
Data Management
Technologies, Technical Infrastructure, & Security
Quality Control Specifications
Collection Policy
Organizational Charts
Review Cycle for Documentation Policy
Succession Documents
Roles & Responsibilities
Mission / Vision
Preservation Plan
Designated Community Definition
Strategic Plan
Risk Analysis Documents
Data Deposit Agreements
Access Policy
Metadata Specification
Definition of AIP

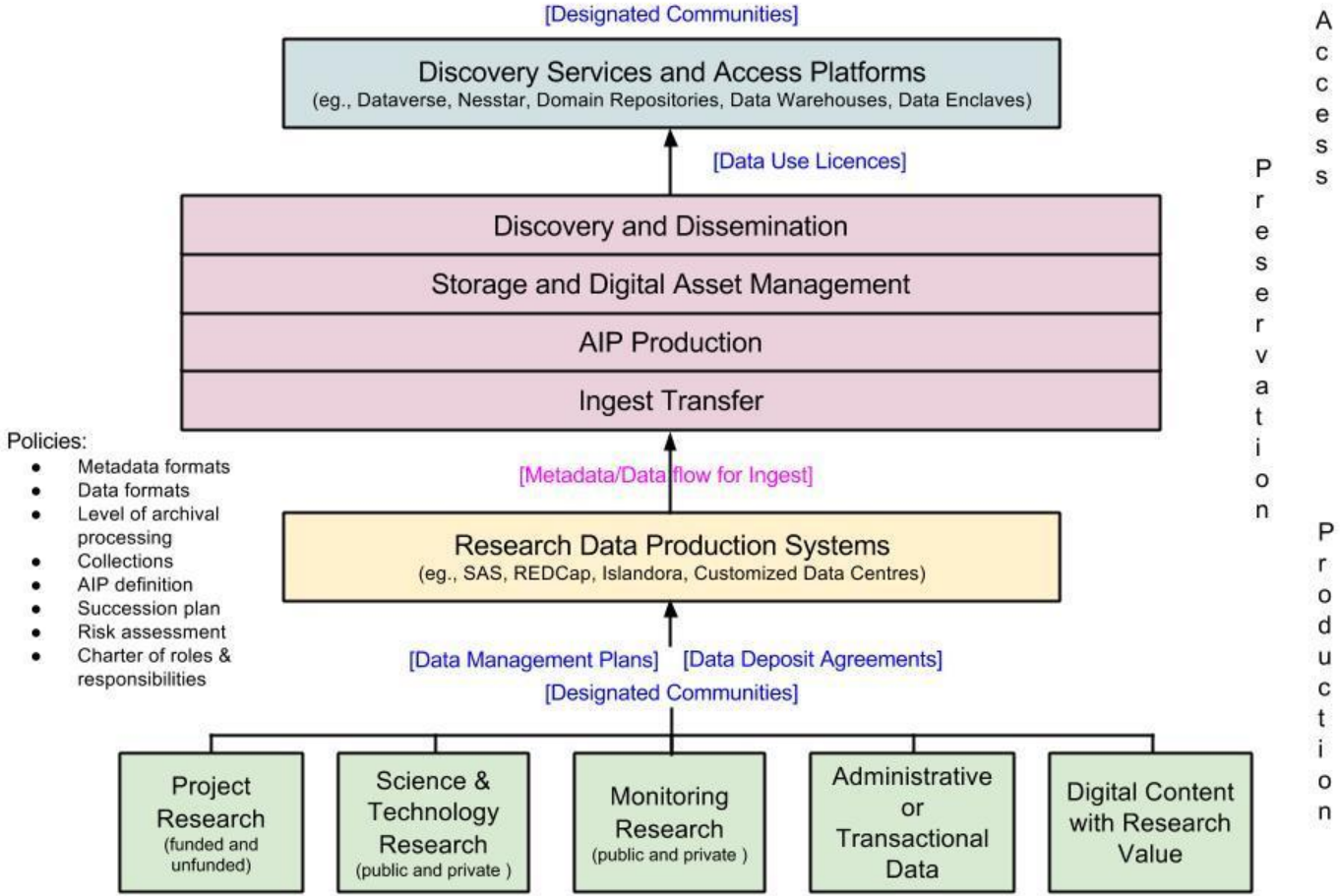
Preservation Roles and Responsibilities of UAL Positions

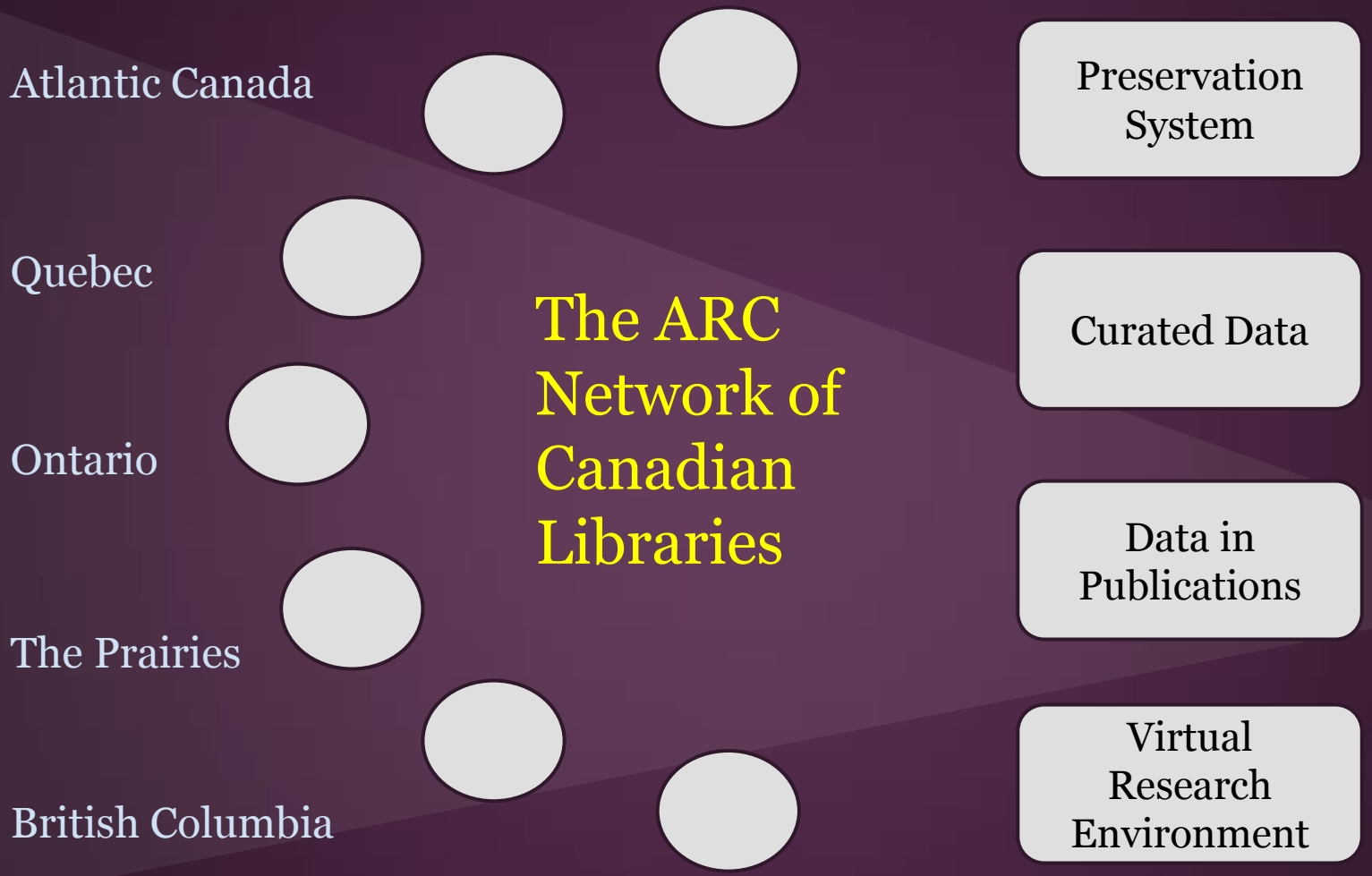


Library and networks

- Shared data management infrastructure
  - Tools development
  - Preservation processing and storage
  - Discovery metadata exchange

Functional Architecture for Research Data Management Infrastructure

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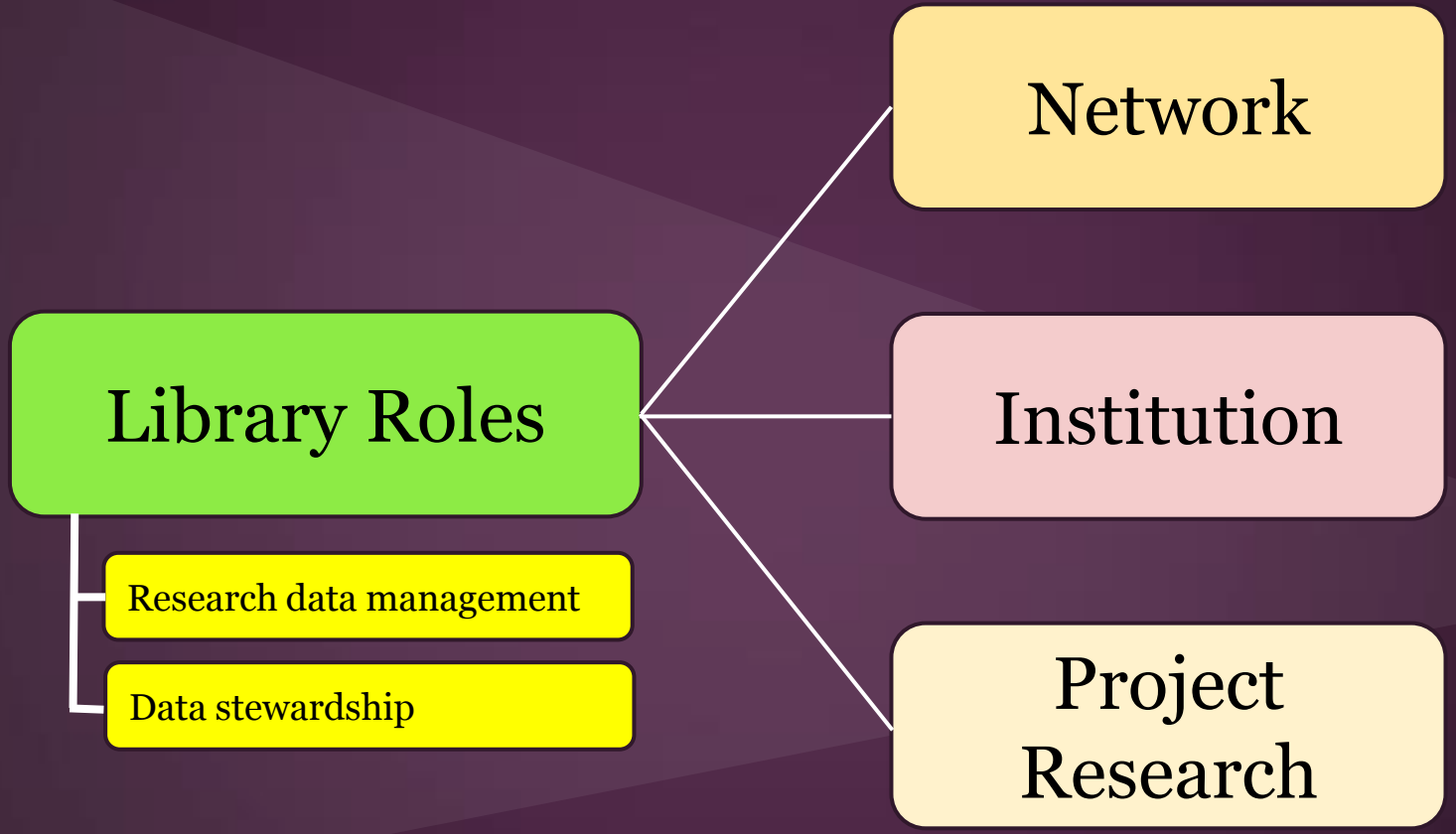
Quebec
Ontario
The Prairies
British Columbia
The ARC Network of Canadian Libraries
Preservation System
Curated Data
Data in Publications
Virtual Research Environment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