

Disasters at any Scale:

The MetaArchive Cooperative's
Community-based approach to
Risk Mitigation and Disaster Preparation
in the 21st century

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IFLA WLIC 2016

Sunday August 14, 2016

Columbus, Ohio, USA



MILK SHAKES

CONES - SUNDAES

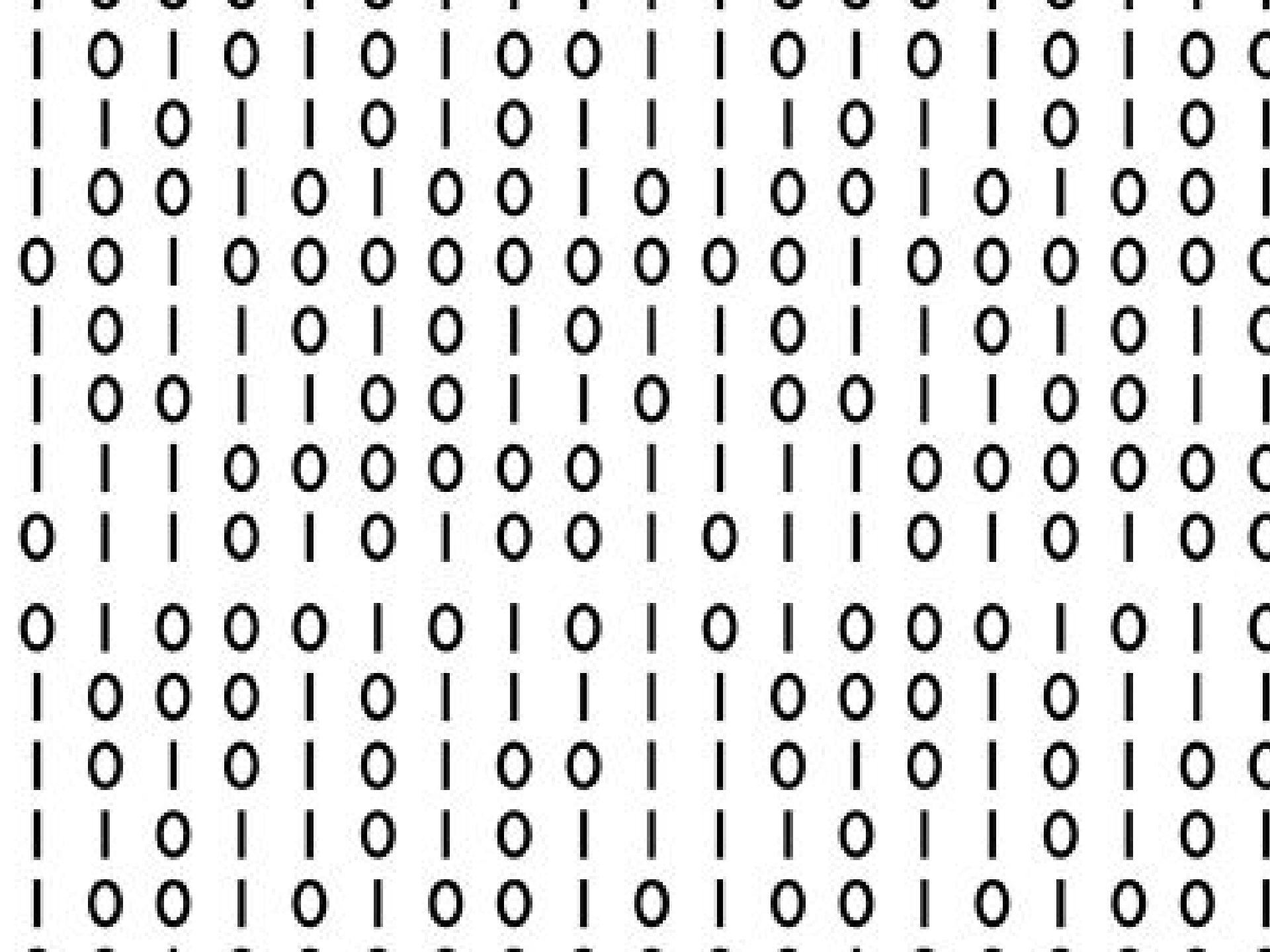
SANDWICHES

BEER-WINE CARRY-OUT





<https://www.flickr.com/photos/hagdorned/15023775762>





Meta Archive

C O O P E R A T I V E

Hallmarks

Distributed digital preservation

Institutions maintain ***control*** over their own content

Preservation as a ***process***, not a push-button exercise

Simplicity in ingest, management

MetaArchive History

- 2004 - Founded as part of NDIIPP funding and activities
- 2006 - Educopia Institute founded to serve as administrative home for MetaArchive
- 2007 - MetaArchive becomes initial Affiliated Community
- 2014 - Celebrated 10 years of successful preservation network

Cooperative Preservation

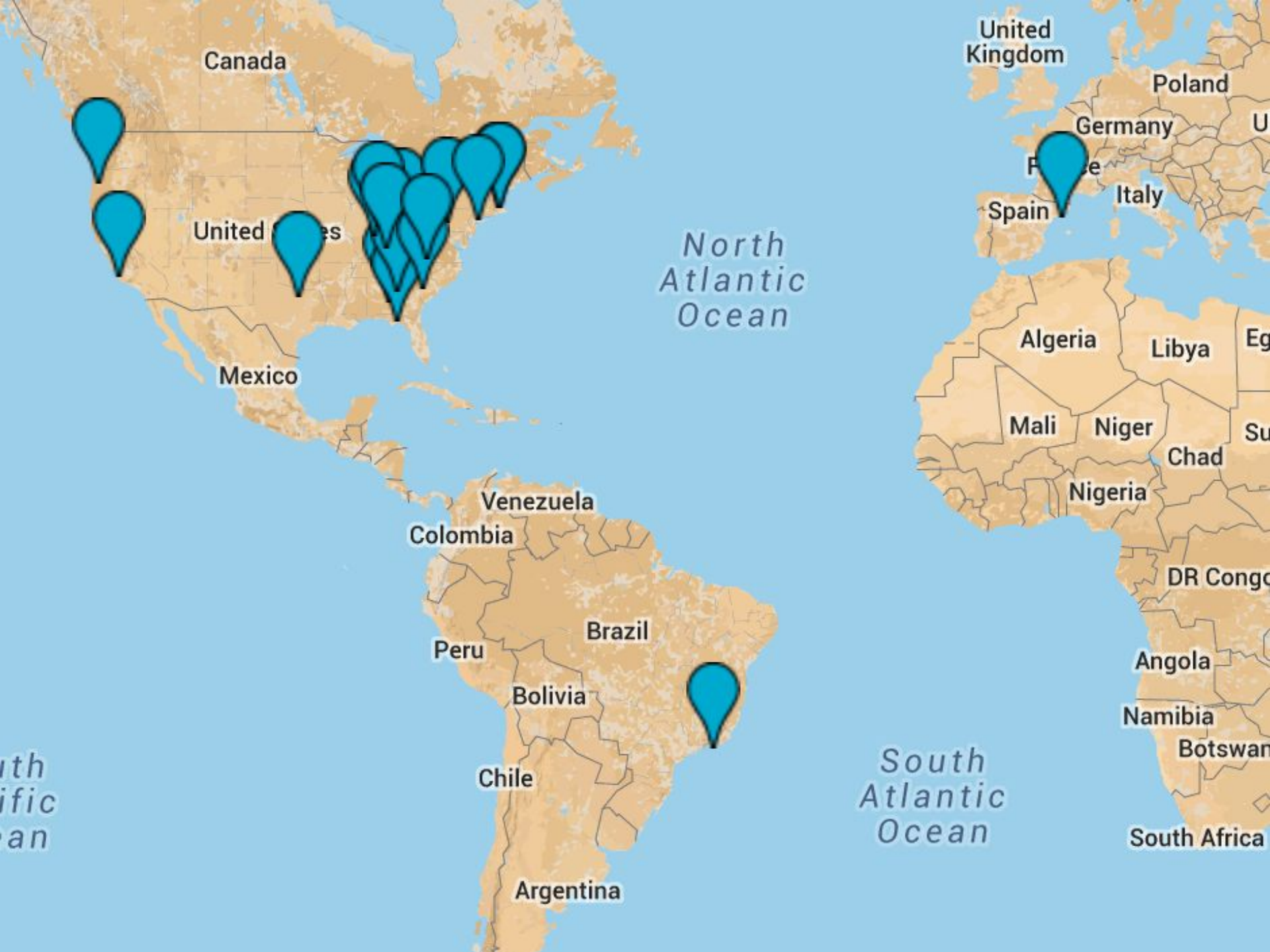
MetaArchive is a ***cooperative***, not a vendor:

All hardware and software assets are owned by members

Membership fees and storage fees go to a central pool of support for members' co-op activities

Membership

- Auburn University
- Boston College
- Cal Poly San Luis Obispo
- Carnegie Mellon University
- Consorci de Biblioteques Universitaris de Catalunya
- Florida State University
- Isabella Stewart Gardner Museum
- Greene County Public Library
- HBCU Library Alliance
- Indiana State University
- Oregon State University
- Penn State University
- Pontificia Universidade Catolica do Rio de Janeiro
- Purdue University
- Rockefeller Archives Center
- University of Louisville
- University of North Texas
- University of South Carolina
- Virginia Tech University



Membership Levels

Collaborative members: \$2.5K/year

Preservation members: \$3K/year

Sustaining members: \$5.5K/year

Server cost: <\$5K/term

Storage cost: \$585/TB/year

Membership Responsibilities

- Undertake a **3-year** membership term
- Take responsibility for content preparation, evaluation, staging, and ingest testing
- ***Monitor*** collections to ensure accurate long-term preservation
- Host and maintain a MetaArchive cache (server) or pay in a technology support fee
- Join and contribute to Committees

Philosophy in Practice

- Compatible with any repository system
 - E.g., Dspace, Fedora, Archivalware, ETDdb, CONTENTdm, BePress, Digital Commons, etc
- Member institutions determine their own curatorial practices
- MetaArchive is a community of support to help them make informed decisions

LOCKSS

**LOTS
OF
COPIES
KEEP
STUFF
SAFE**



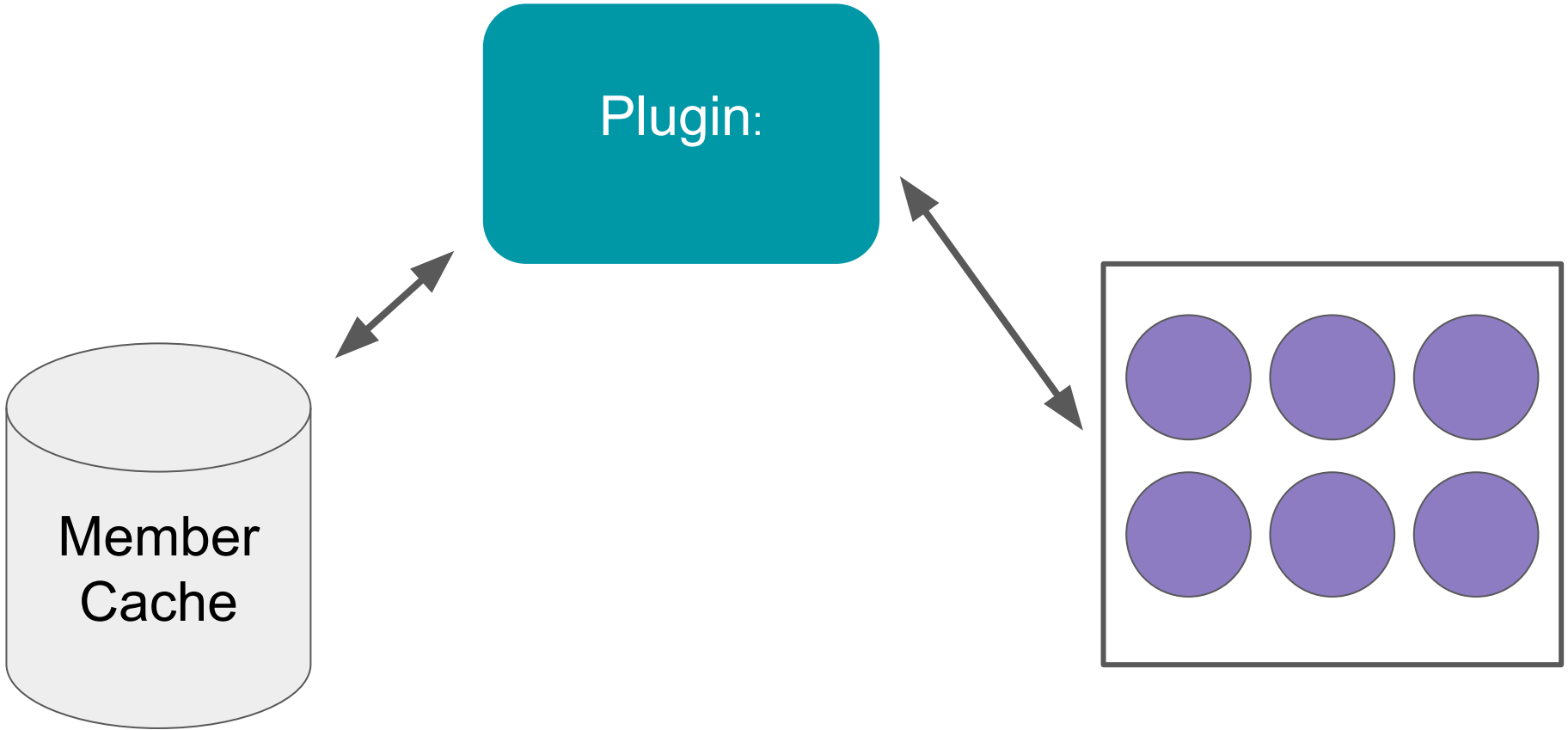
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Private
LOCKSS
Network

MetaArchive Practices

Basic processes

“Producer” (OAIS) determines curation practices;
brings digital content to MetaArchive

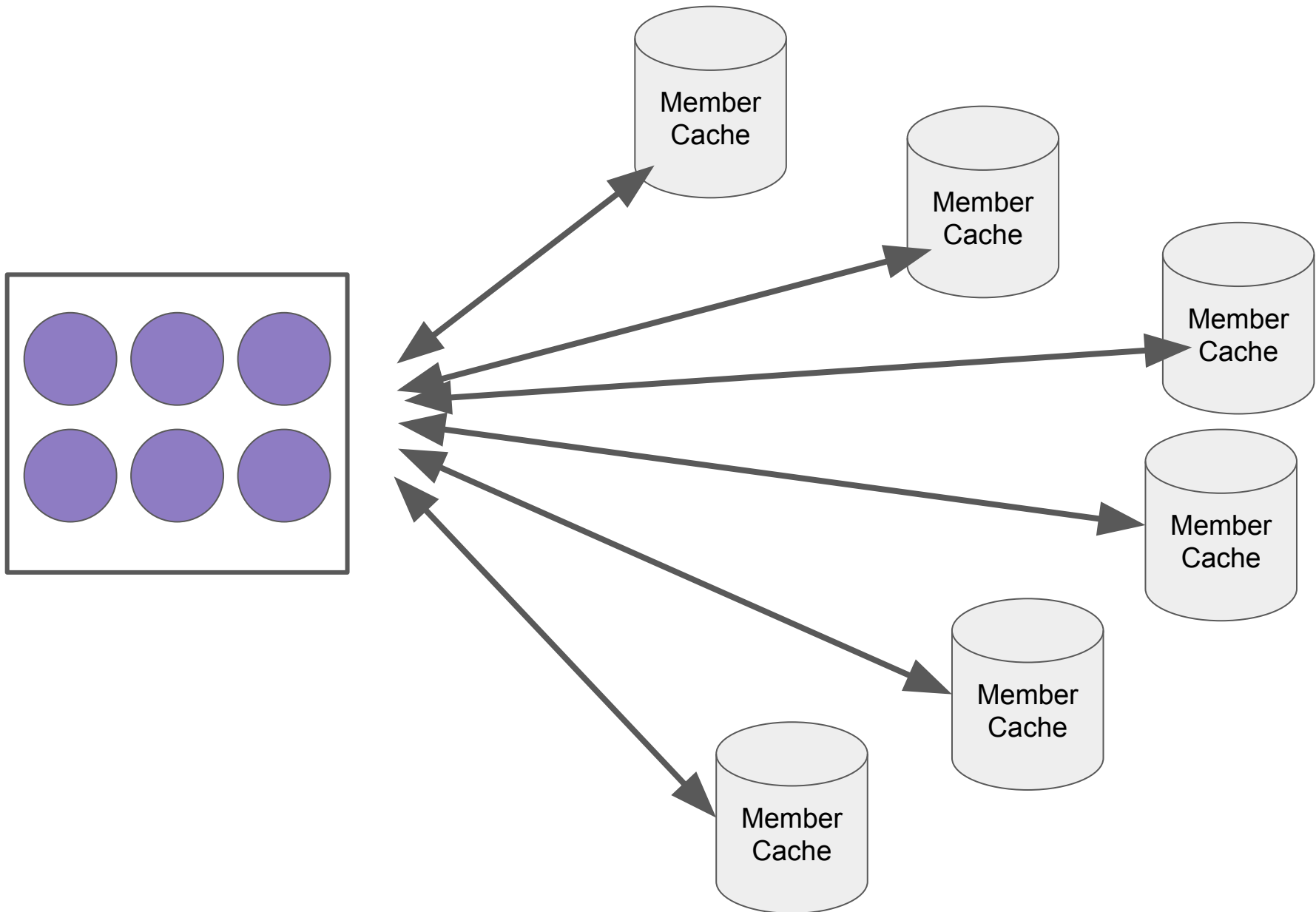


MetaArchive Practices

Basic processes

“Producer” (OAIS) determines curation practices;
brings digital content to MetaArchive

**Multiple copies of digital content dispersed
across geographical, political, and
environmental lines**



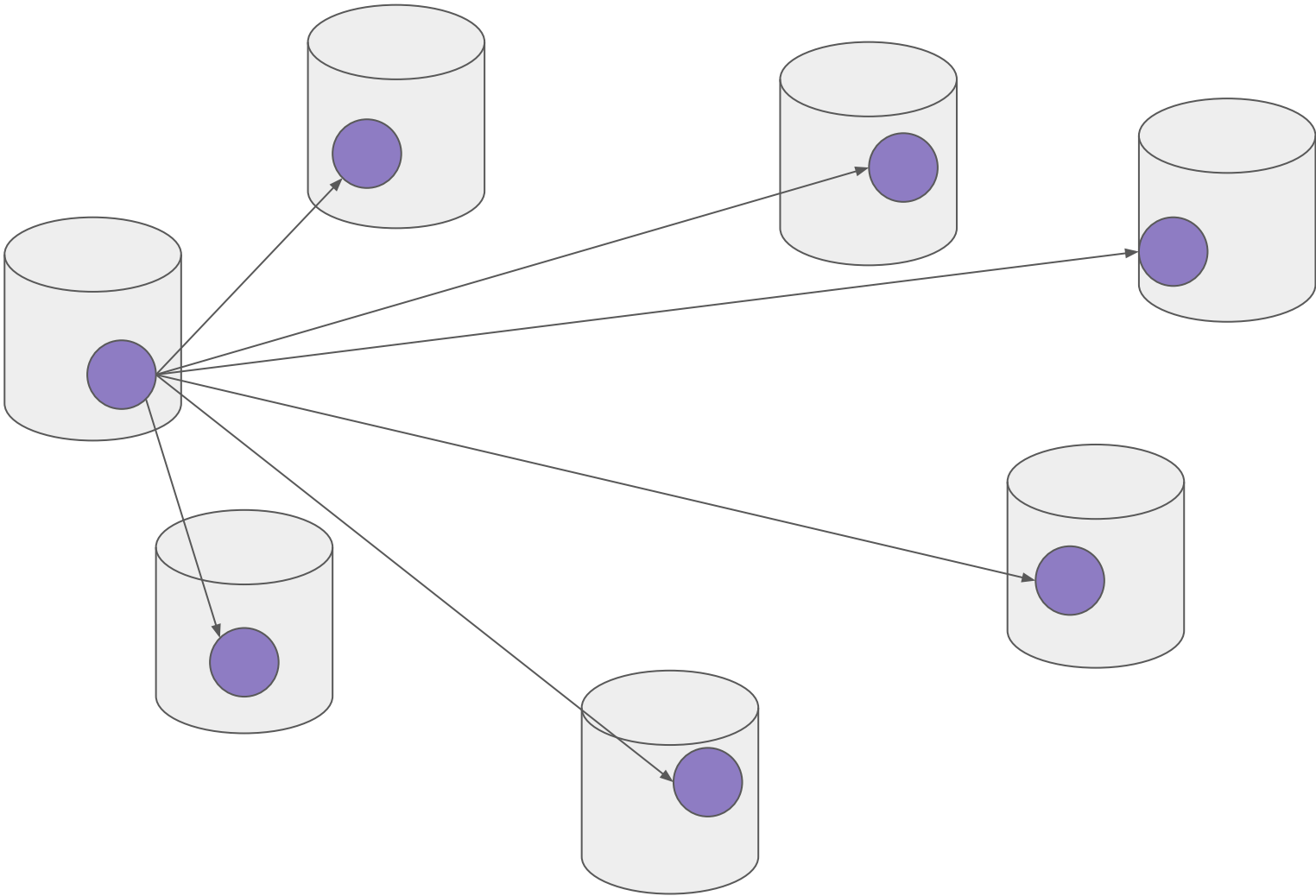
MetaArchive Practices

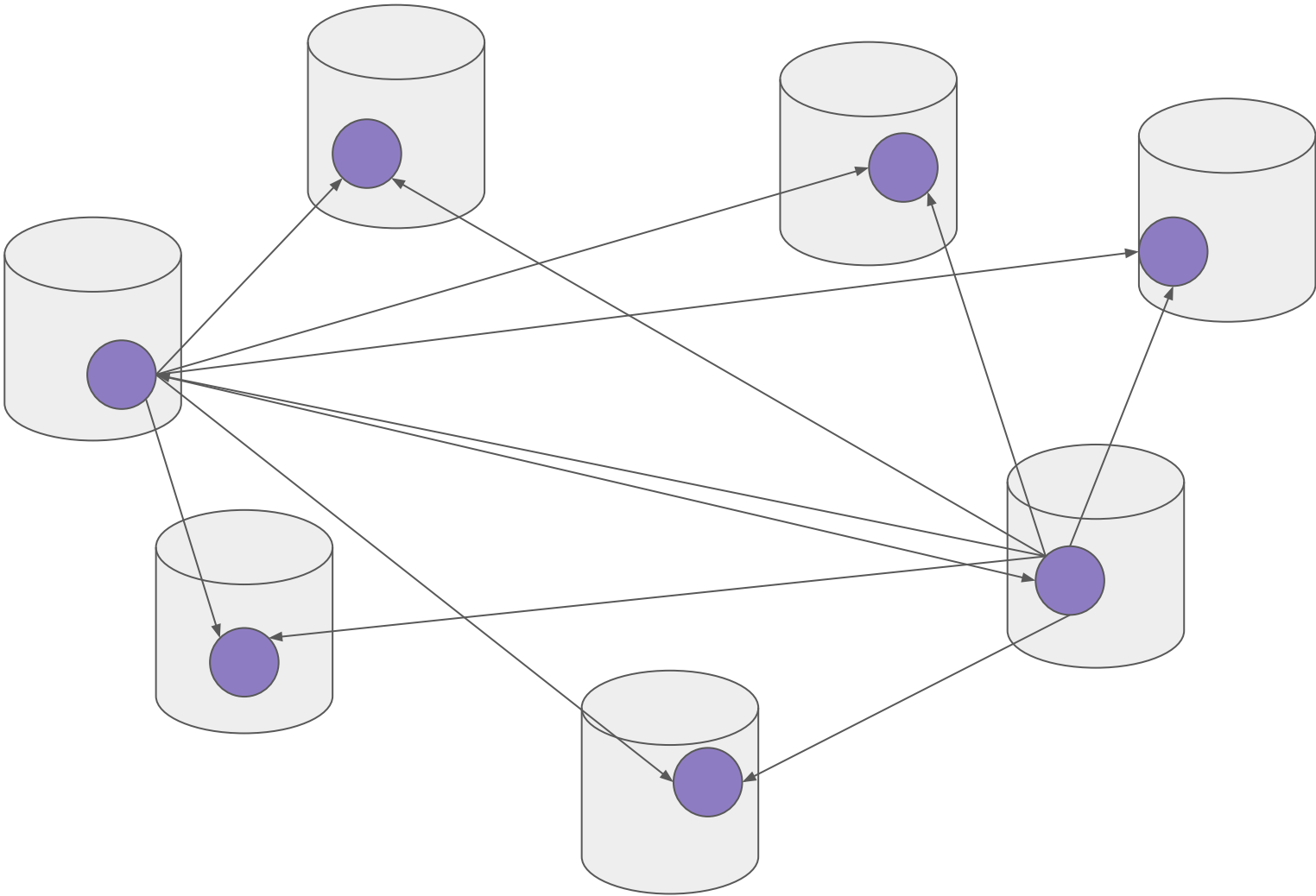
Basic processes

“Producer” (OAIS) determines curation practices;
brings SIPs to MetaArchive

Multiple copies of AIPs dispersed across
geographical, political, and environmental lines

Checks and repairs automated across network

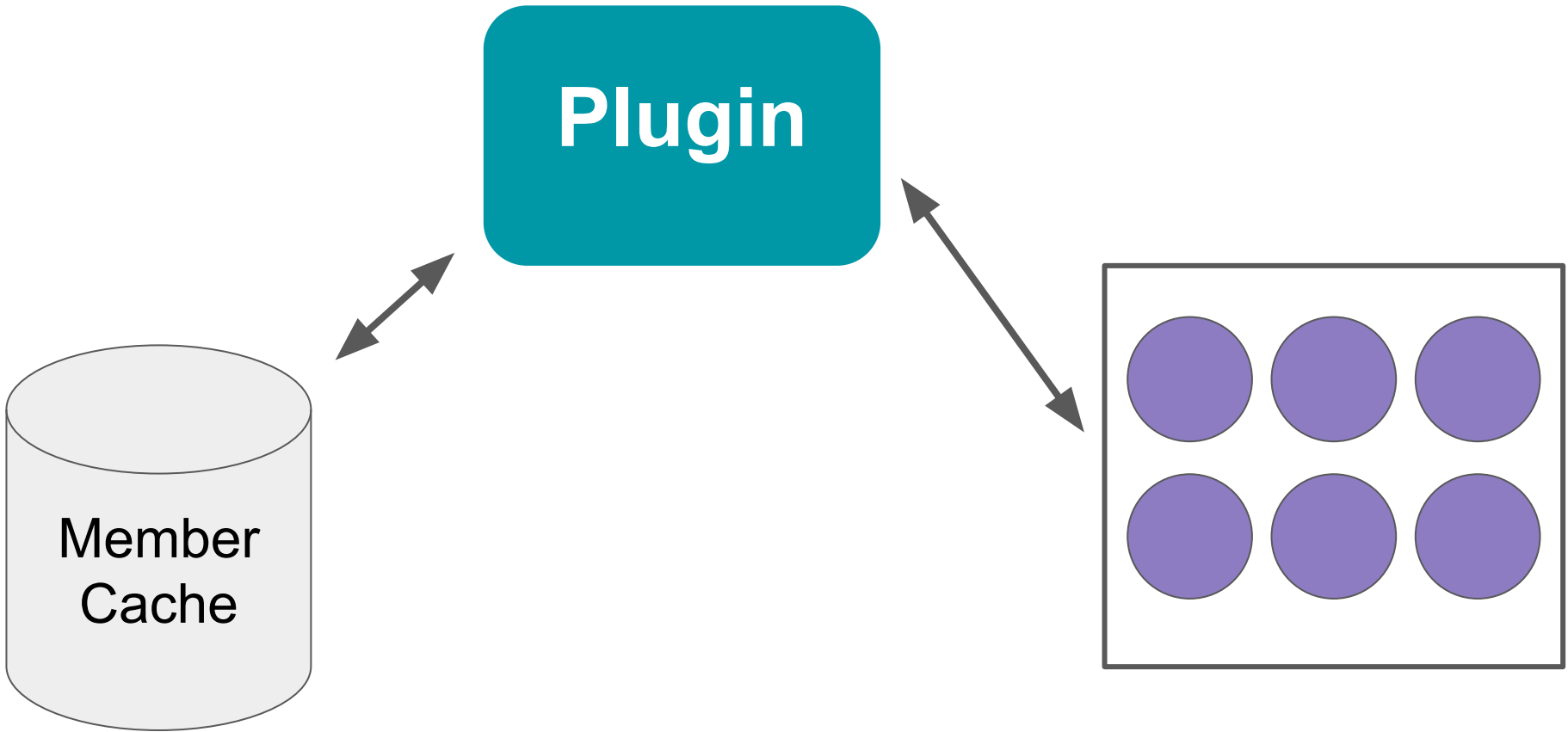




System Integration

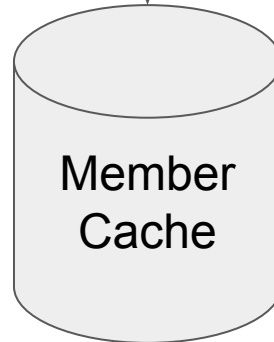
Goal:

Develop, implement, modify, and
evolve
technical infrastructure to support
variety of digital content from
multiple institution types





Plugin:
Digital
Commons

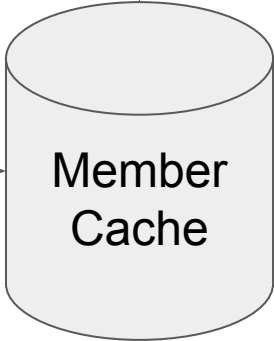




Plugin:
Digital
Commons

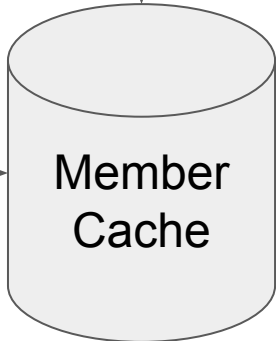


Plugin:
DSpace





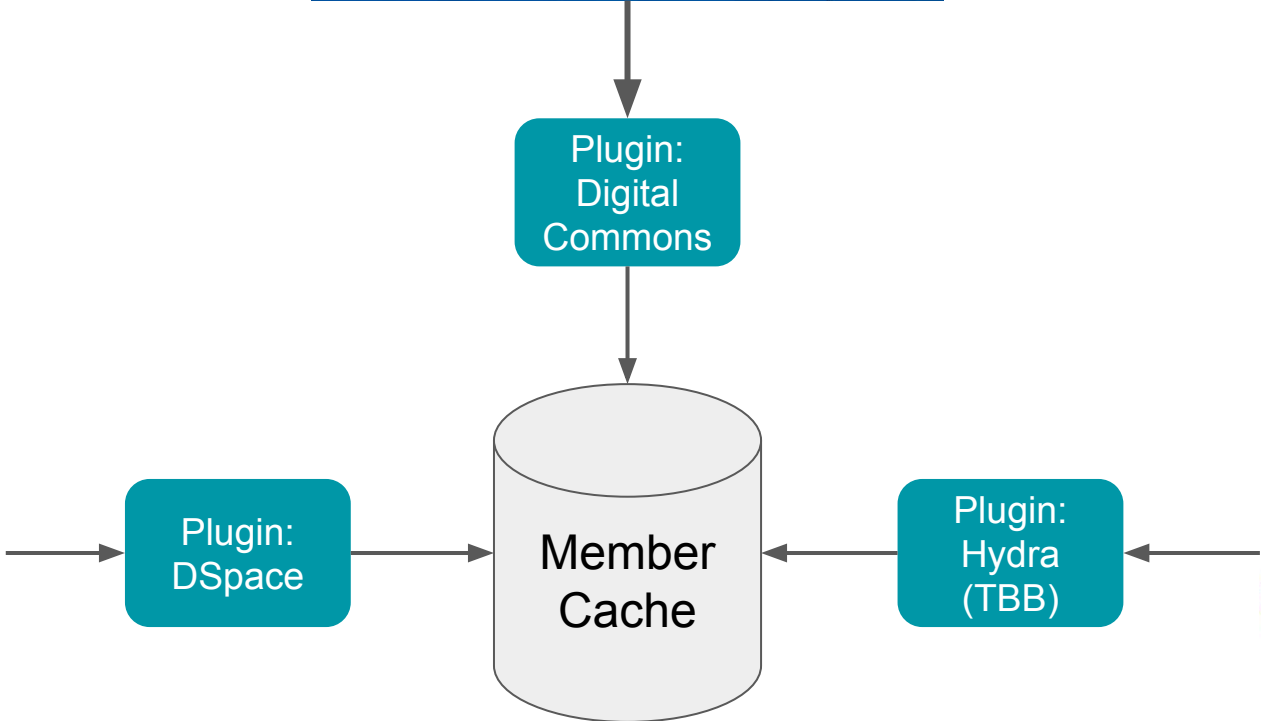
Plugin:
Digital
Commons



Plugin:
DSpace



Plugin:
Hydra
(TBB)

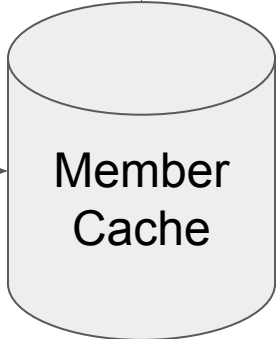




Plugin:
Digital
Commons



Plugin:
DSpace



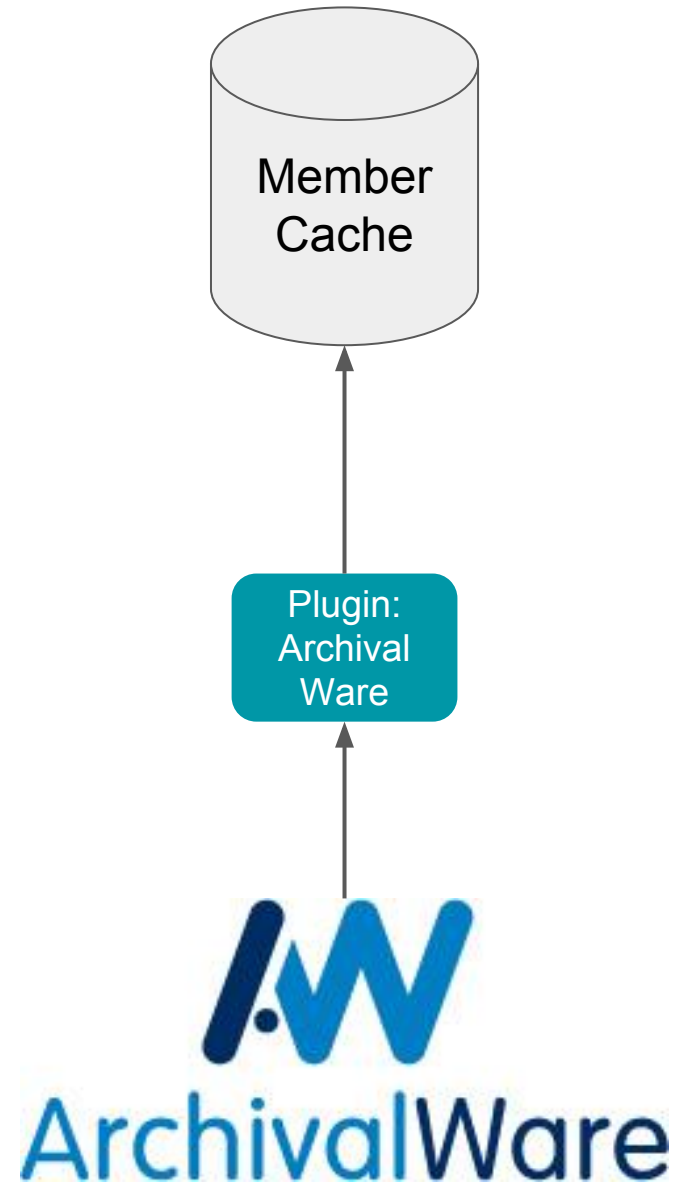
Member
Cache

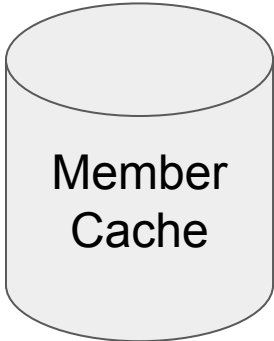
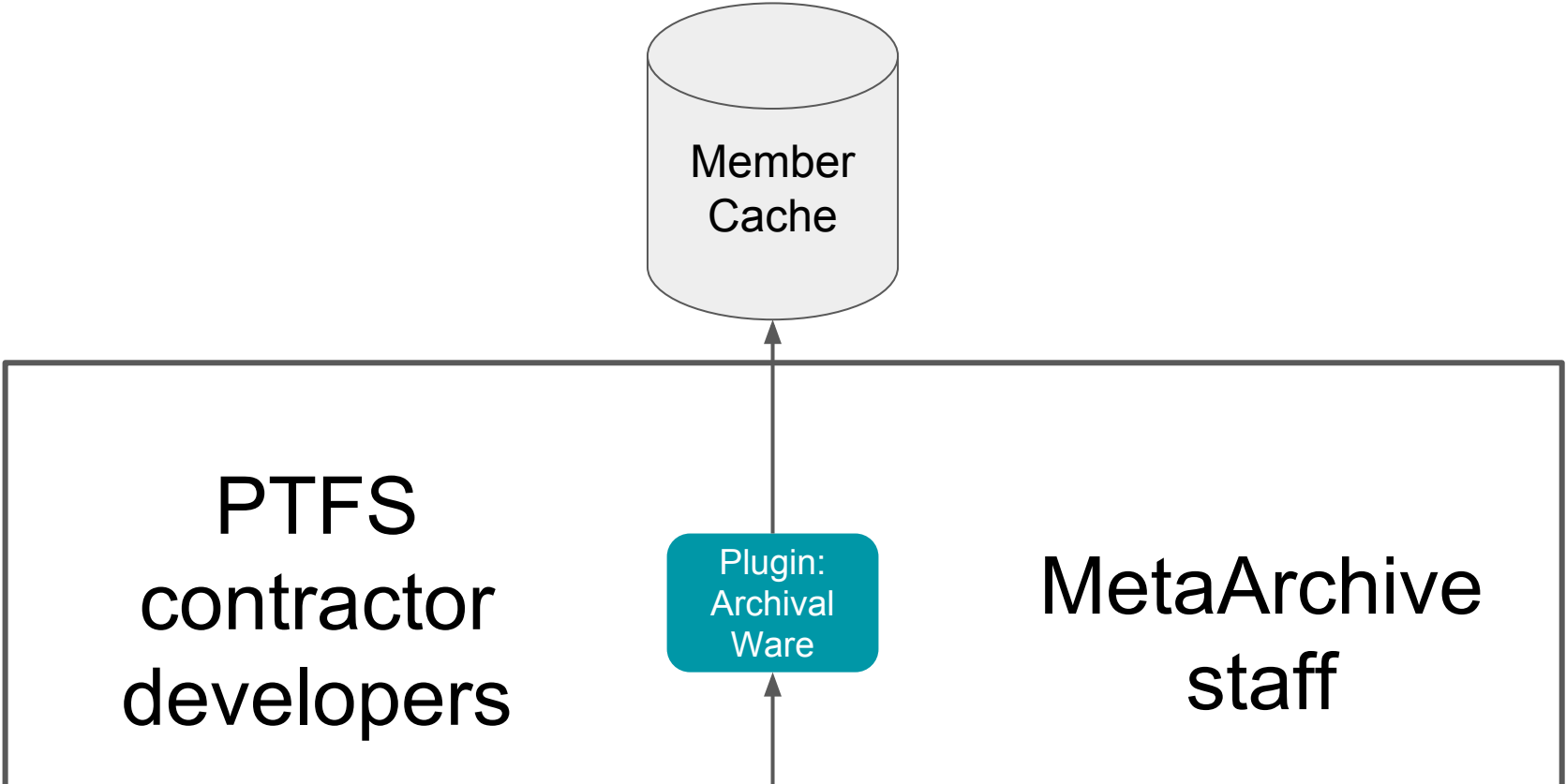
Plugin:
Hydra
(TBB)



Plugin:
Archival
Ware







PTFS
contractor
developers

Plugin:
Archival
Ware

MetaArchive
staff

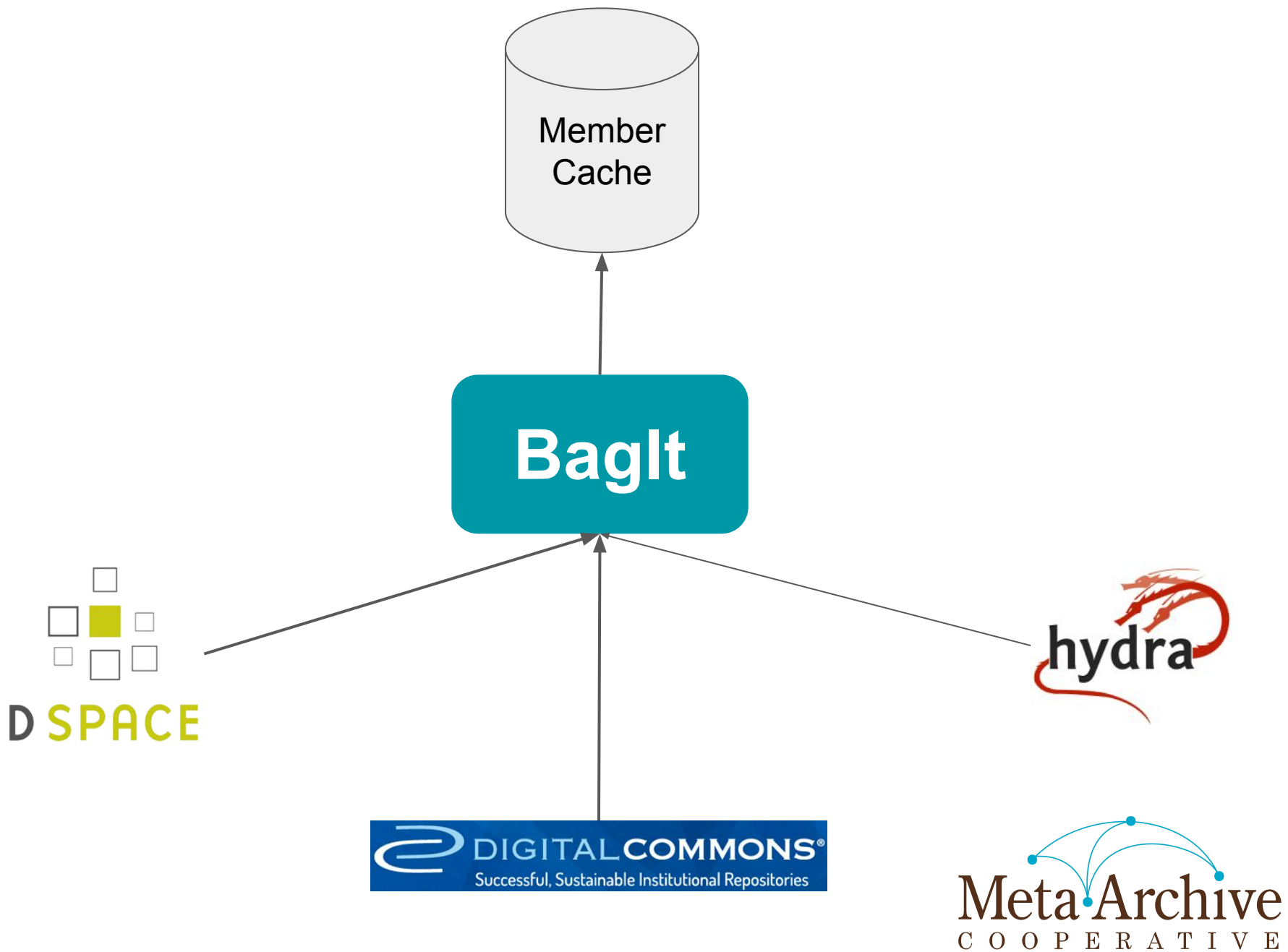


Simplify Ingest

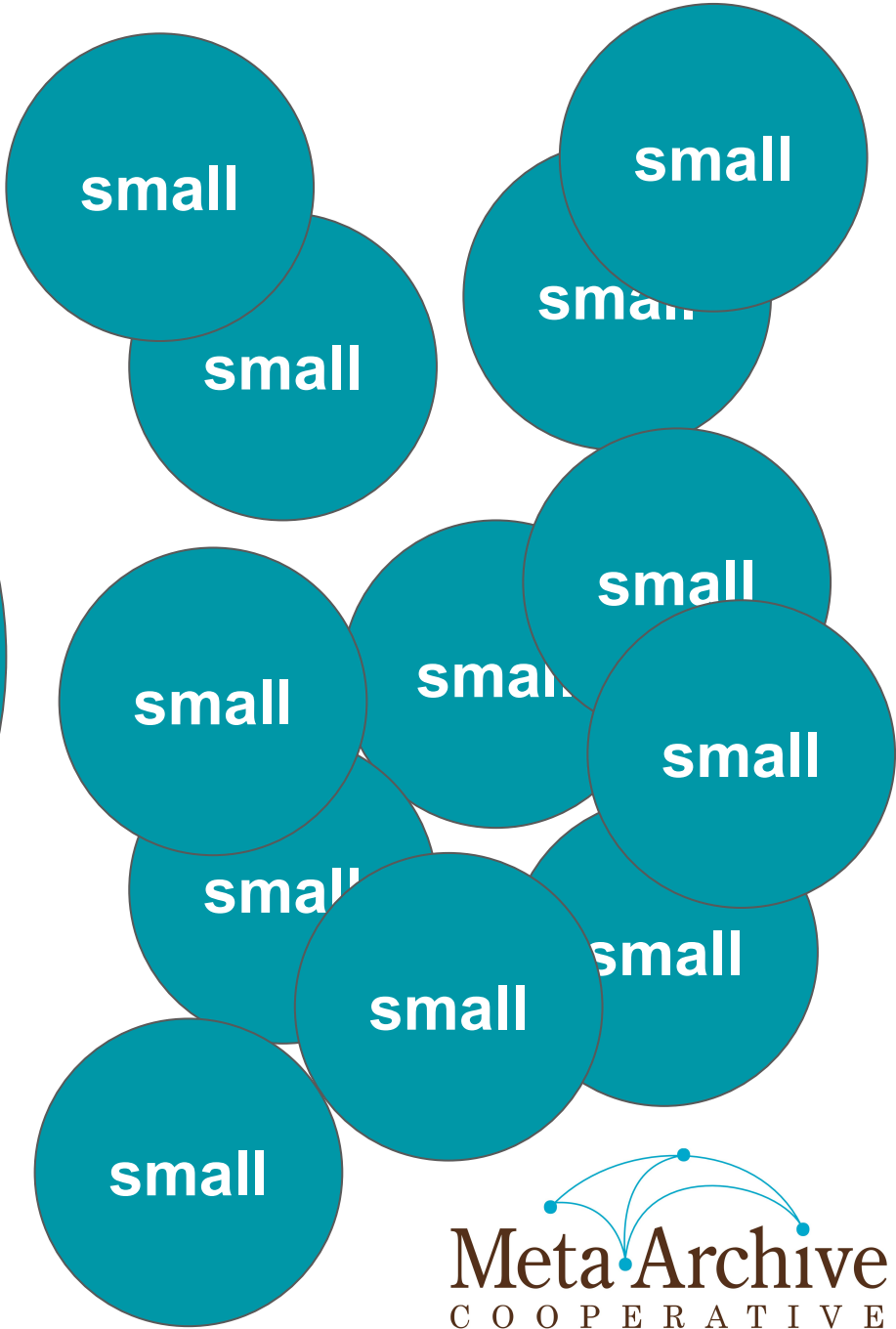
Baglit

BagIt:

A hierarchical file packaging format for the exchange of generalized digital content



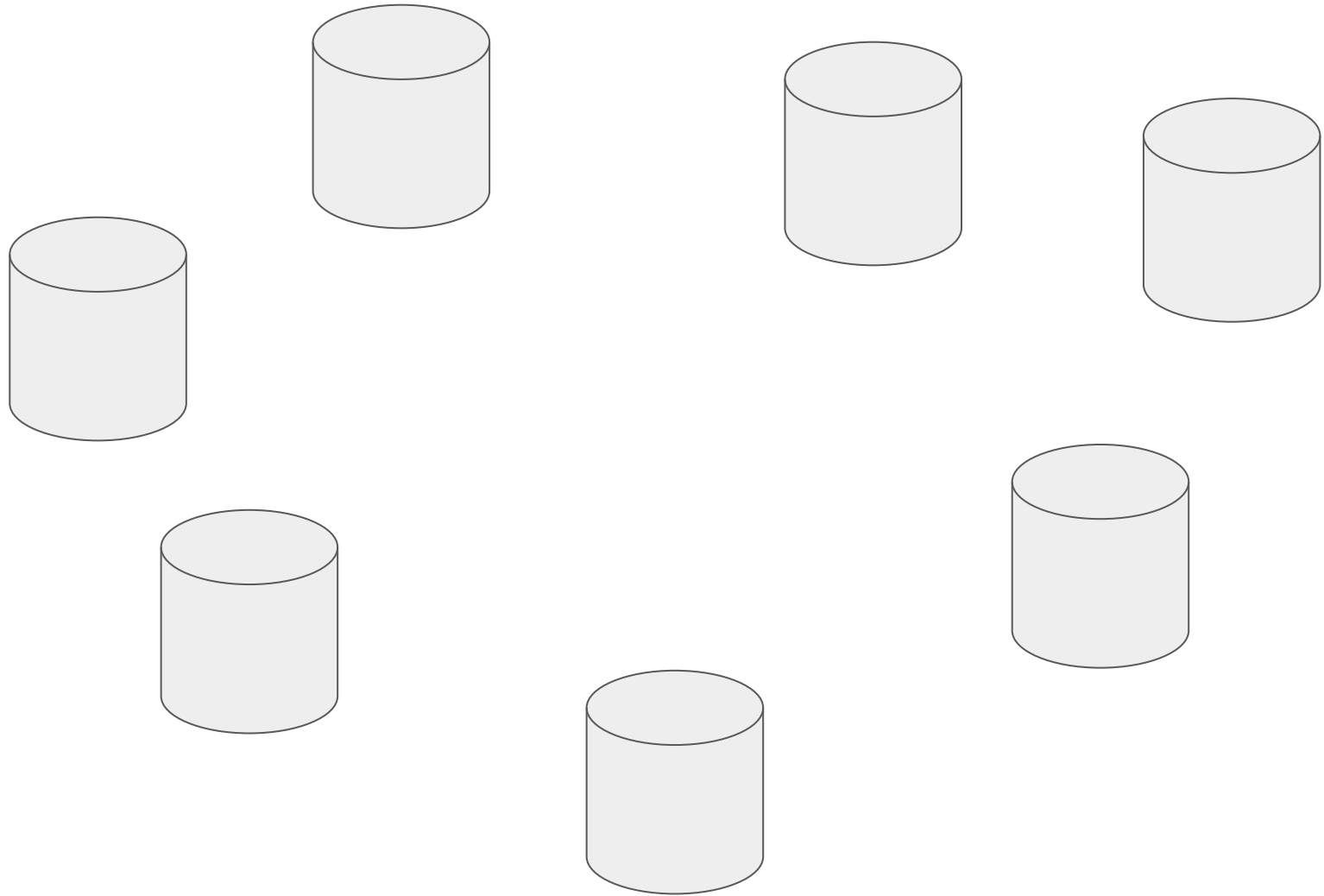


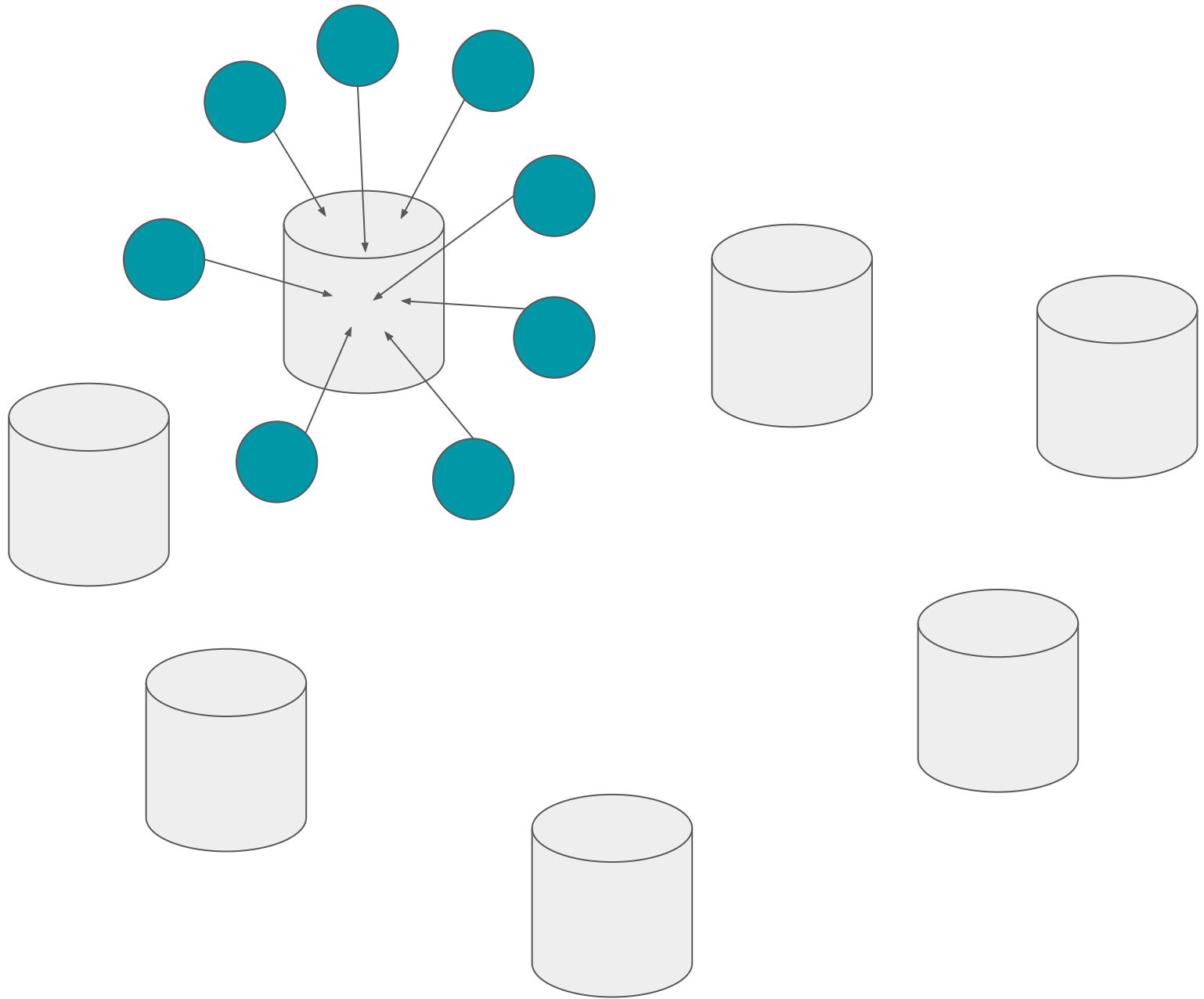


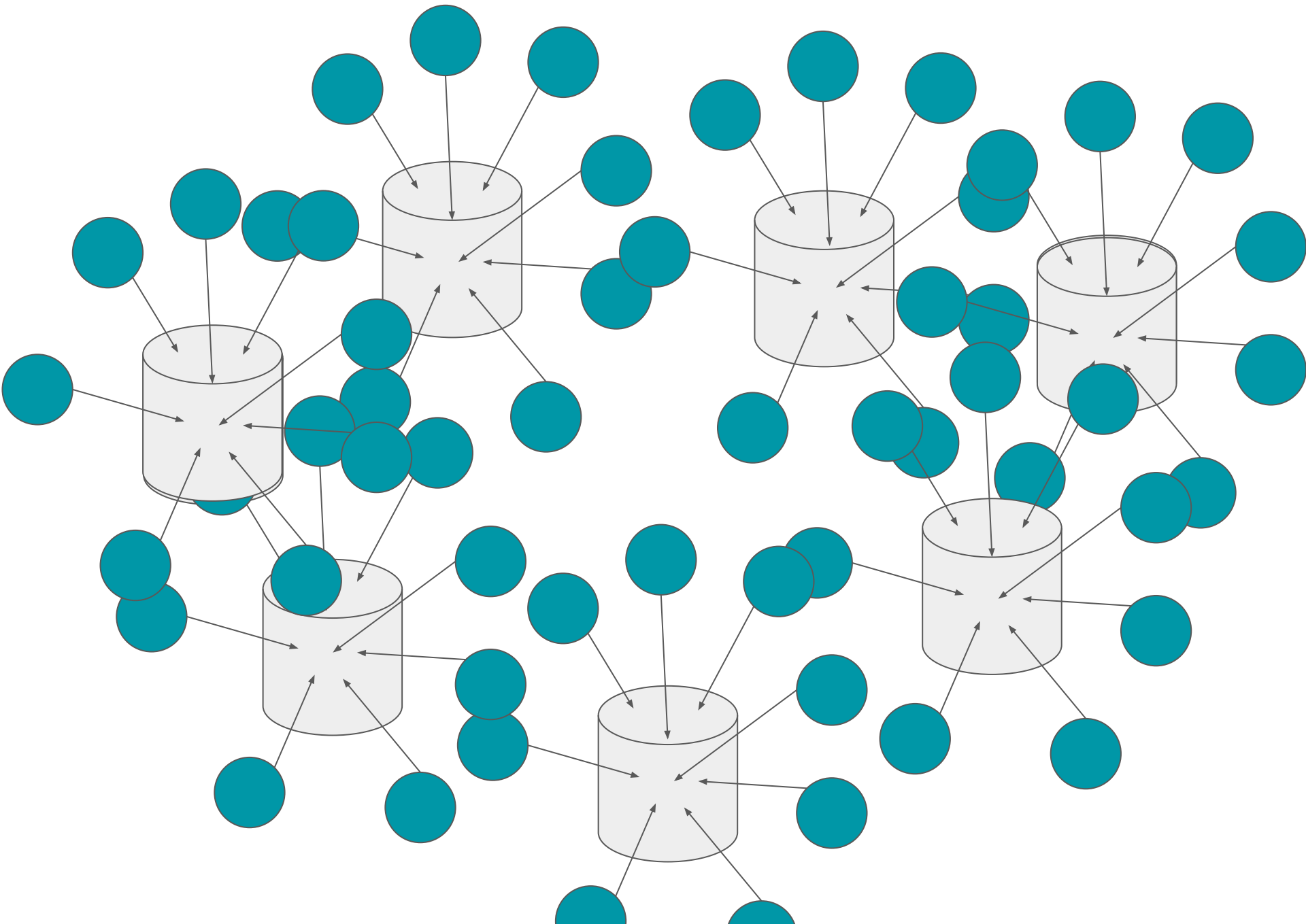


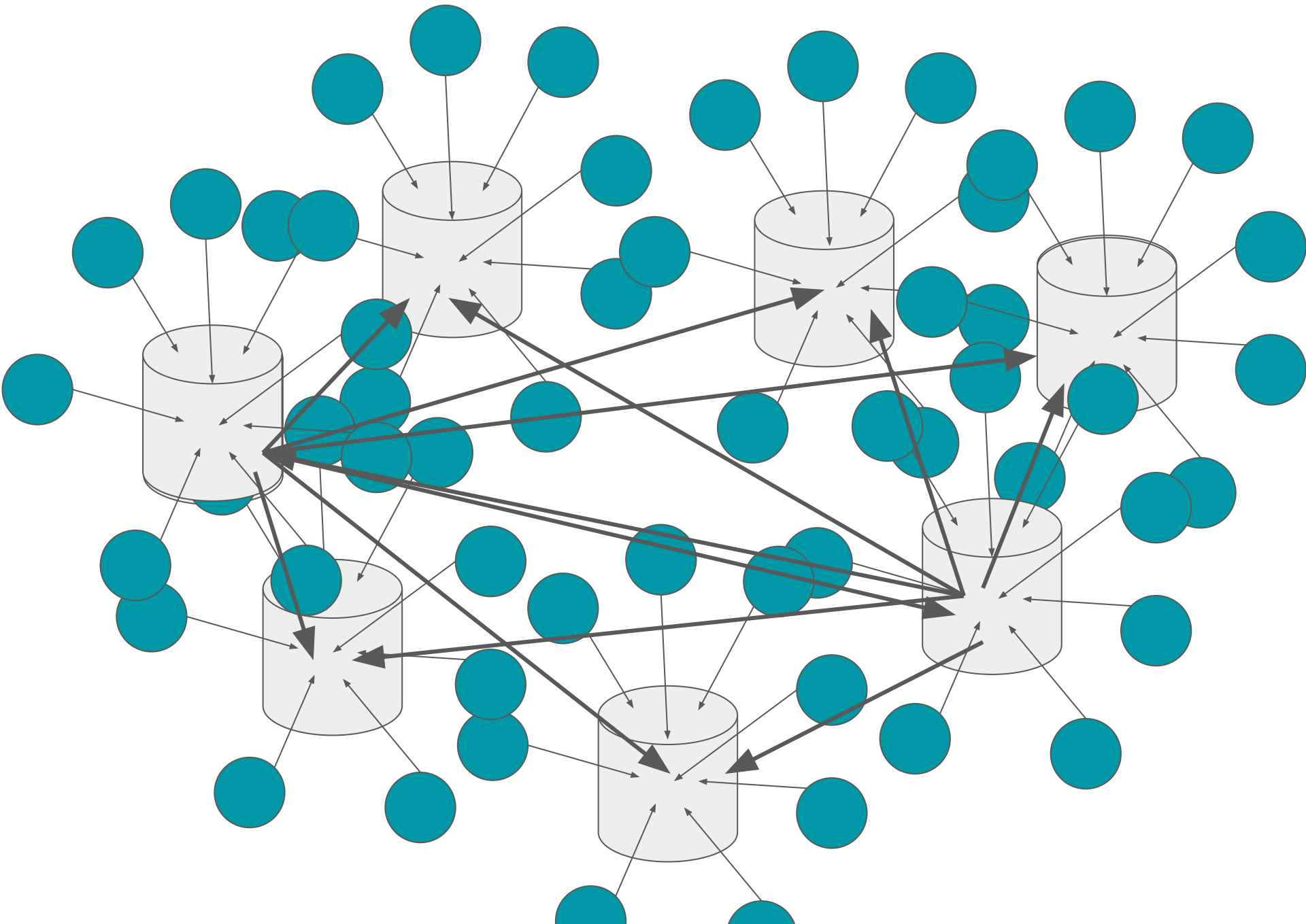
Current Network

Supernode Network









Thank you!

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