Some assembly required: Access and preservation at UVic Libraries

CRKN 2022 Conference

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Repo roundup: How local practice is enhanced through collaboration

“...This session will look at the complex repository landscape of one institution through the lense of digital preservation. By examining digital preservation workflows associated with the University of Victoria’s institutional repository, plus repositories for digital collections and research data, we’ll look at how community-led preservation services are enabling local preservation actions right now, and what an ideal repository-preservation landscape would look like if even more shared services were developed nationally.”

Some assumptions…

- Repositories are here to stay…for now
- Preservation processing and storage are separate from repositories…for now
- A focus on collections vs. records
- There is no one repository or storage service to rule them all
- We can all do more, better

How things currently stand

Three main platforms

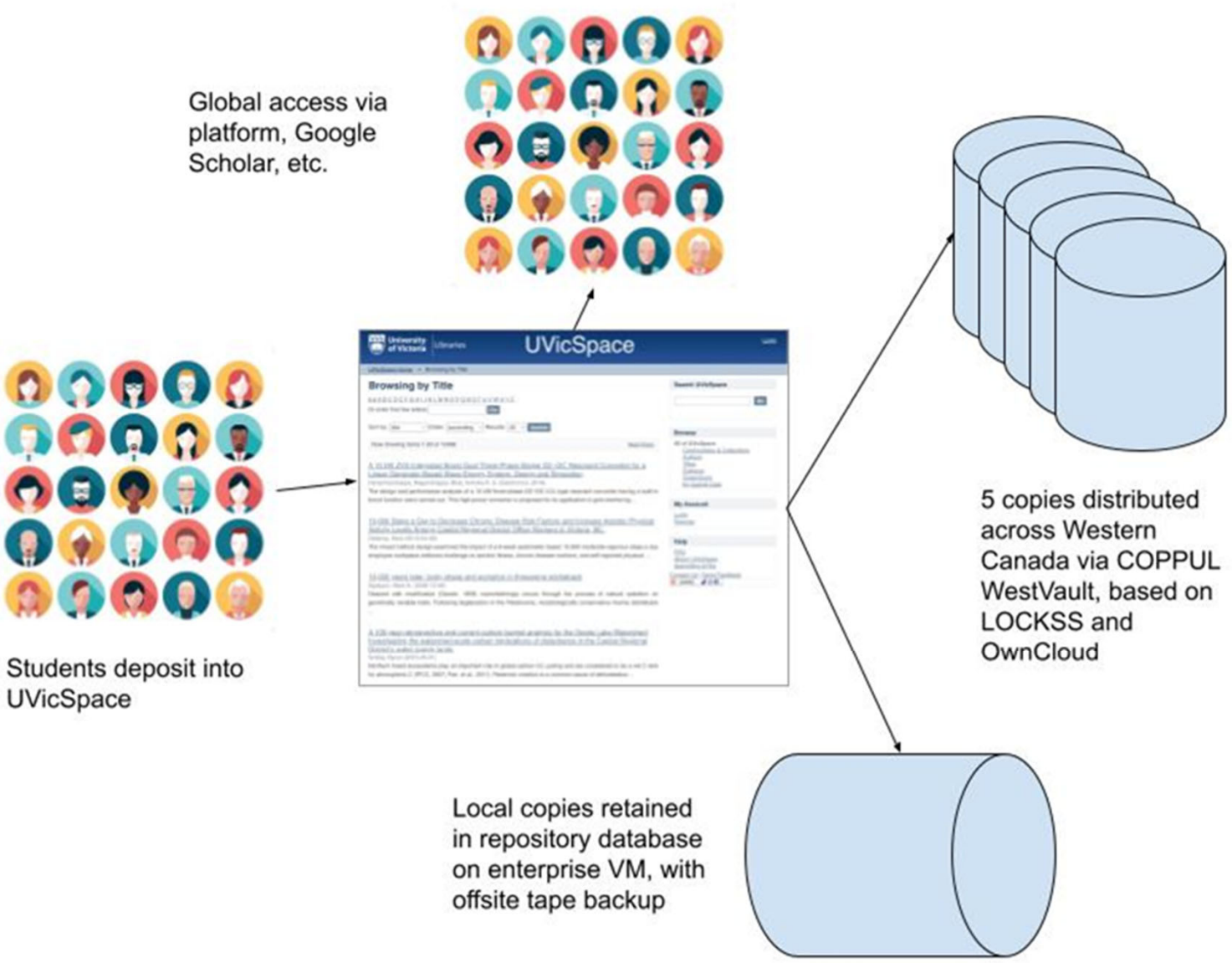
- UVicSpace = DSpace 6.x
- Vault = Samvera
- Dataverse = Borealis from Scholars Portal

Three big buckets

- UVicSpace = Publications
- Vault = Digital collections
- Dataverse = Research data

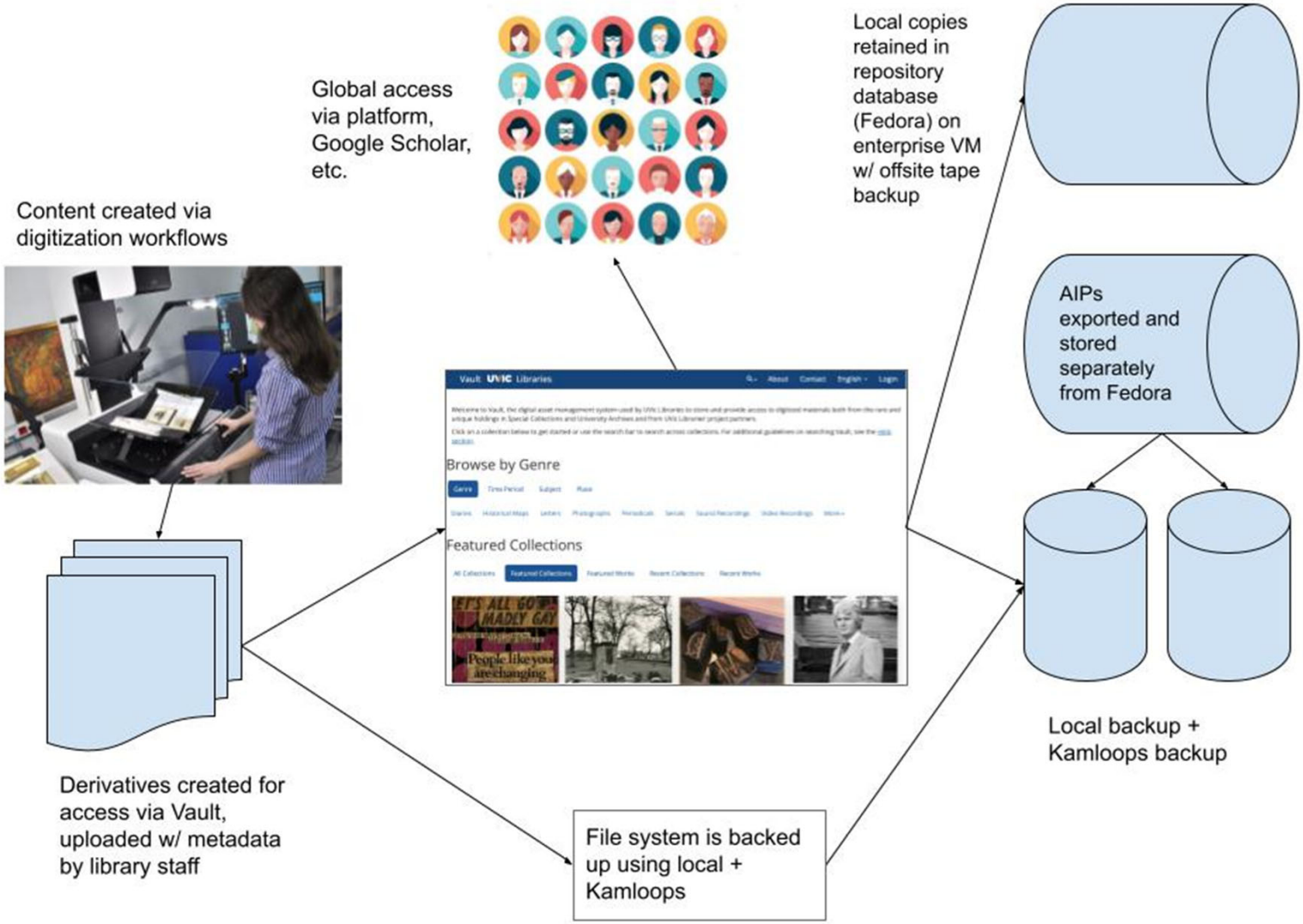
UVicSpace

- DSpace 7 is an opportunity to rethink some workflows associated with access and preservation
- Stuff is repository is copy of record, so export to preservation services is straight-forward


Global access via platform, Google Scholar, etc.
UVicSpace
Browsing by Title
Students deposit into UVicSpace
5 copies distributed across Western Canada via COPPUL WestVault, based on LOCKSS and OwnCloud
Local copies retained in repository database on enterprise VM, with offsite tape backup

Vault

- Access to digital collections with little thought for preservation
- Fedora is not being used to its fullest potential here
- Workflows currently leave master copies on network storage, sometimes
- Export to preservation services is straight-forward


Global access via platform, Google Scholar, etc.
Local copies retained in repository database (Fedora) on enterprise VM w/ offsite tape backup
Content created via digitization workflows
AIPs exported and stored separately from Fedora
Browse by Genre
Featured Collections
Local backup + Kamloops backup
Derivatives created for access via Vault, uploaded w/ metadata by library staff
File system is backed up using local + Kamloops

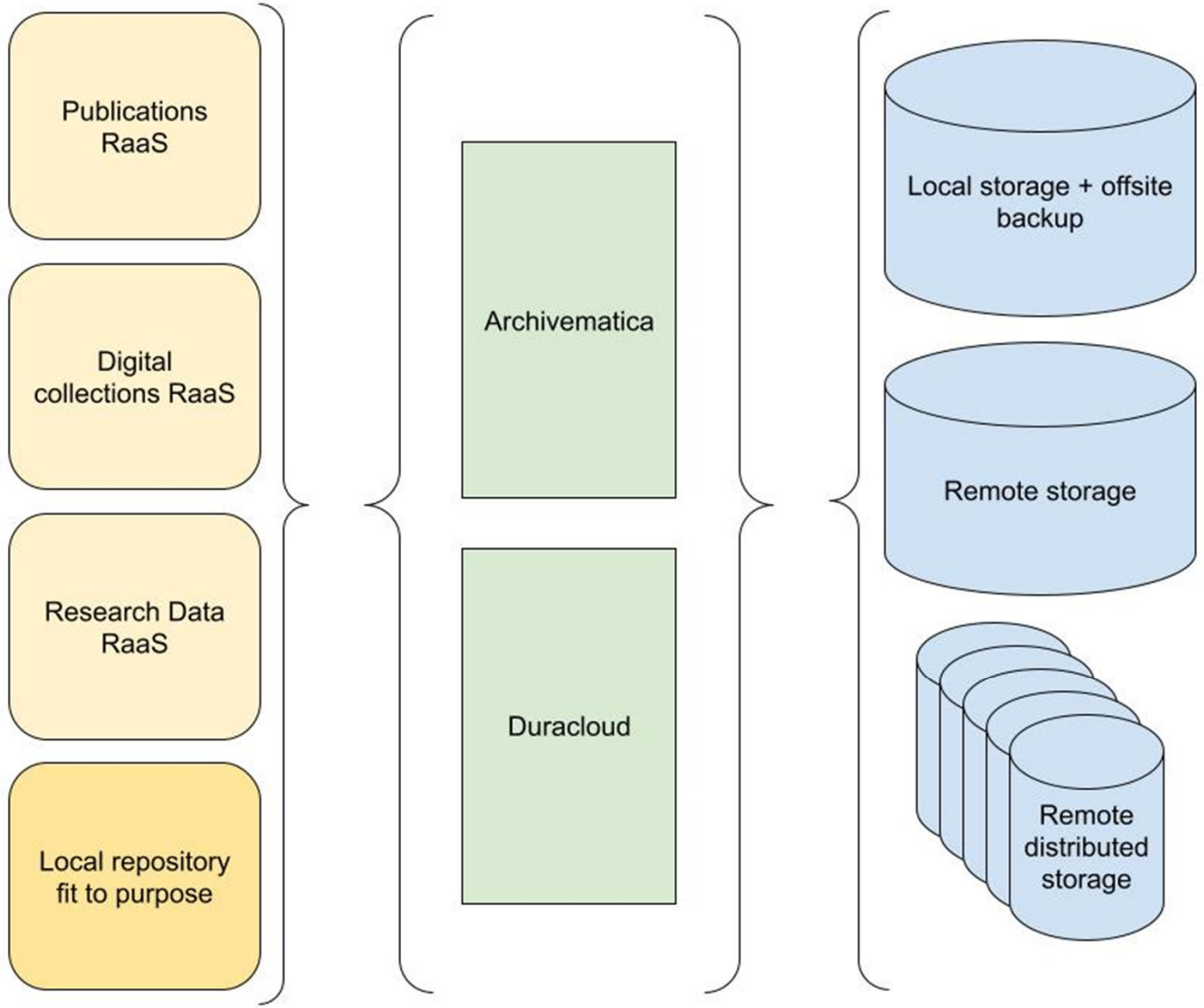
University of Victoria Dataverse @ Borealis

- Hosted service
- Using Archivematica integration to download local copies
- Need to think about storage services for private/sensitive data

Three different beasts

- UVicSpace = Same basic work being done at 20+ CARL institutions
  - Shared service is possible
- Vault = Cutting edge for now, but what about tomorrow?
  - Why do we continue to build things in isolation?
- Dataverse = Repository-as-a-service
  - Excellent service, will evolve to meet community needs BUT need an exit plan

What the future looks like


Publications RaaS
Digital collections RaaS
Research Data RaaS
Local repository fit to purpose
Archivematica
Duracloud
Local storage + offsite backup
Remote storage
Remote distributed storage

Community development opportunities

What can we do together

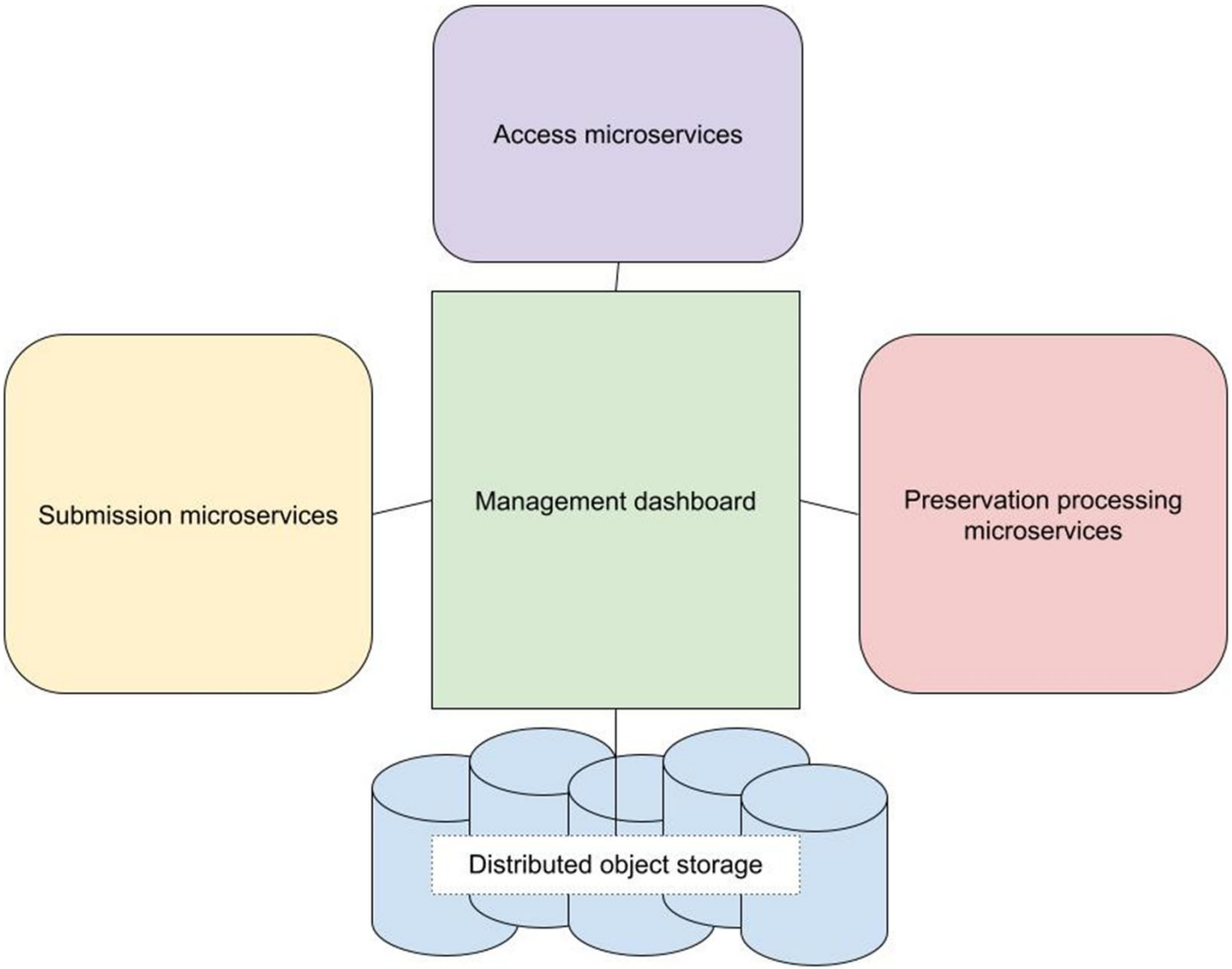
- Repositories-as-a-service
  - Repository-as-a-service for publications and digital collections
  - Repository integrations at scale
- Management/processing layers
  - Expansion of DuraCloud and/or Archivematica services, with integrations to a variety of storage services + local
- Storage services and management tools
  - More and cheaper distributed object storage
  - Policy engines to drive replication and administration

Infrastructure partnerships

- Scholars Portal
- CRKN
- Internet Archive
- Alliance

Dare to dream

- Public cloud serverless microservices for submission, dissemination, and preservation
- No more servers, no more repositories, just services and buckets of content and management tools


Access microservices
Submission microservices
Management dashboard
Preservation processing microservices
Distributed object storage

Thanks

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