Fedora, Islandora, & Samvera: Requirements and Gaps

David Wilcox, DuraSpace
@d_wilcox
Our community is part of an interconnected, worldwide, scholarly ecosystem.

Fedora...

Stores, preserves, and provides access to digital objects.

Supports flexible and complex content models for objects.

Supports semantic relationships between objects using RDF.

Supports millions of objects, both large and small.

Interoperates with other applications and services.
Why use Fedora?

Fedora is **flexible**: it can handle both simple and complex use cases.

Content in Fedora is **durable**: Fedora supports digital preservation.

Fedora powers successful digital repository applications.

Fedora is **standards-based**.

Fedora is backed by a **thriving community**.
High-Level View of Fedora
Samvera (formerly Hydra)... 

Builds on Fedora, so you get all the Fedora features, plus...

Flexible and rich user interfaces tailored to distinct content types

Solr and Blacklight for search -- fast, flexible, faceted discovery that scales, plus all the benefits of Blacklight community

Choice between whole solutions and modules to build your own

If you want to go far, go together
High-Level View of Samvera
What is Islandora?

Islandora is an open-source software framework designed to help institutions and organizations and their audiences collaboratively manage, and discover digital assets using a best-practices framework.
Current Version

- Drupal 7
- Solr
- Fedora 3
- Solution Packs
The Future

- Drupal 8
- Solr
- Fedora 4
- Modules

Islandora CLAW
Ingest
Portability and Provenance

Software changes over time so data must be able to move freely.

Resources can be imported/exported in standard formats and packages.

Fedora (optionally) maintains a complete audit history.
Storage and preservation

Store files in Fedora or use external file systems

Calculate, store, and verify fixity information (checksums)

Maintain a complete version history
**Workflows**

Islandora and Samvera provide automated derivative generation

Tasks can be distributed to multiple servers as needed

Common tasks are handled by shareable modules
Operations
Metadata

Fedora can support any metadata format/standard

Islandora provides a form builder for customized metadata forms

Samvera forms can be configured in code
Security

Standardized authorization via Web Access Control

Islandora also supports XACML

Authentication is pluggable - LDAP, Shibboleth, etc.
Sustainability
Fedora facts

Managed by DuraSpace (not-for-profit)

Funded by the community

Collaboratively developed by the community

Supported by 2 full-time staff members (not developers)
Islandora Foundation

A soliciting non-profit founded in July, 2013 to steward the Islandora project and future development of both the software and the community.
Who uses Samvera?

- Libraries
- Museums
- Galleries
- Archives
- TV and radio
Samvera Members Over Time

Number of development partners over time

Number of Partners

Year

Number of Partners

Training and support

Workshops hosted throughout the year at conferences and events

3 day **Fedora Camps** are also available

- Fedora/Samvera Camp in UK in September
- Next camp in Austin, TX in October

**Mailing lists** for ongoing support
Useful Links

Fedora Website

- http://fedorarepository.org

Communication channels

- https://wiki.duraspace.org/display/FF/Mailing+Lists+etc

Contact

- dwilcox@duraspace.org