

Hydra Use Cases & Development Practices 24x7

Open Repositories 2011

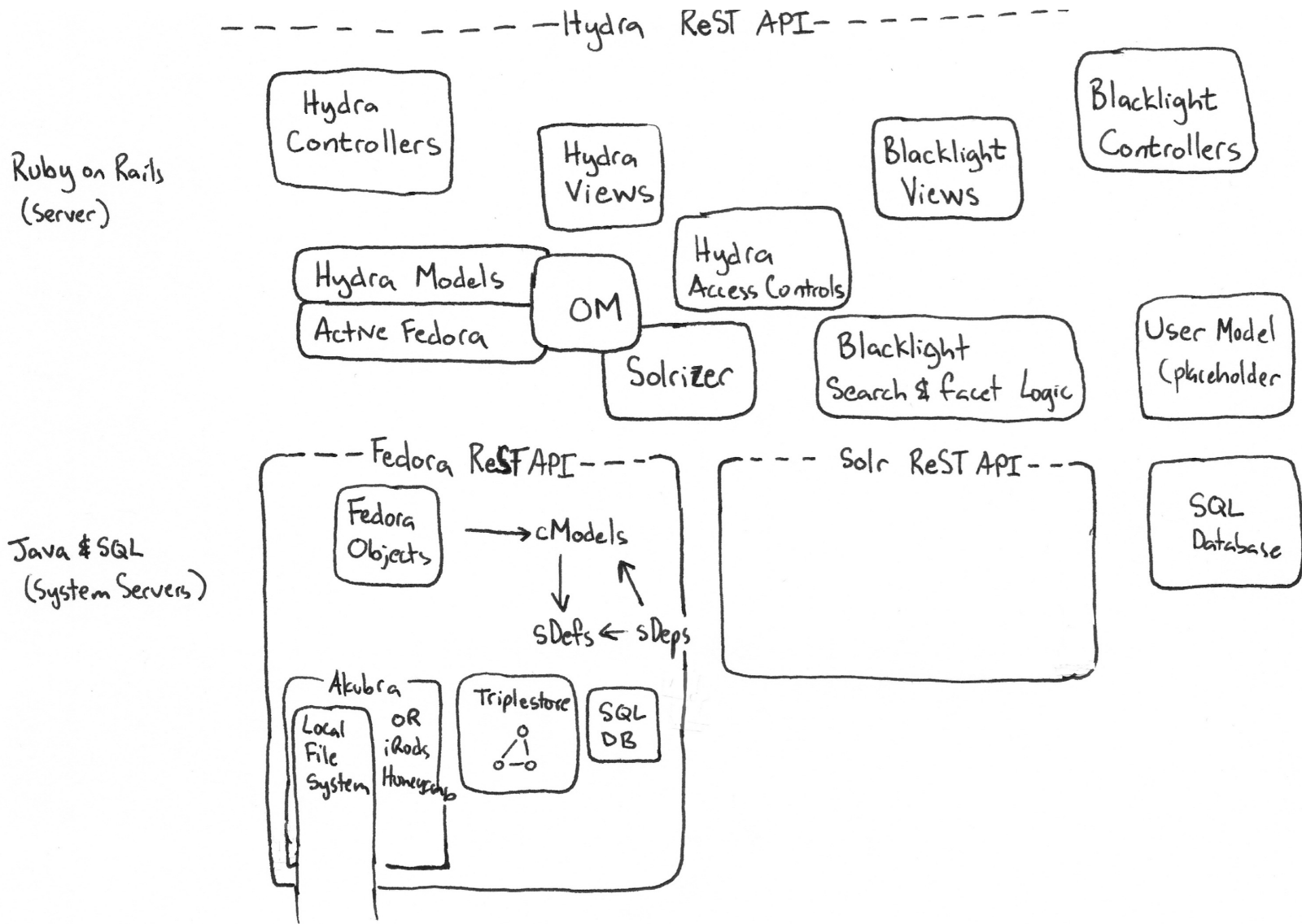
Austin, Texas

June 10, 2011

Line Up

- Stanford Hydra Heads – SALT, ETDs and EEMs
 - Tom Cramer
- Libra at Uva
 - Julie Meloni
- Hydra in Hull
 - Richard Green
- Hydra @ Northwestern
 - Bill Parod & Mike Stroming
- Best Practices in Shared Development: What Makes Hydra Tick
 - Bess Sadler
- Conclusion: So What is Hydra?
 - Tom (again)

At 5 PM...



Objectives

- Chris gave an overview of the collaboration & context for the project yesterday
- This will give you a review of the extant Hydra heads from many of the partners
- Bess will talk about how we've structured successful shared development practices on a large & distributed team
- Matt will do the technical nitty gritty at 5 PM

Stanford's three Hydra Heads

1. SALT

(Self Archiving Legacy Toolkit)

2. ETDs

(Electronic Theses & Dissertations)

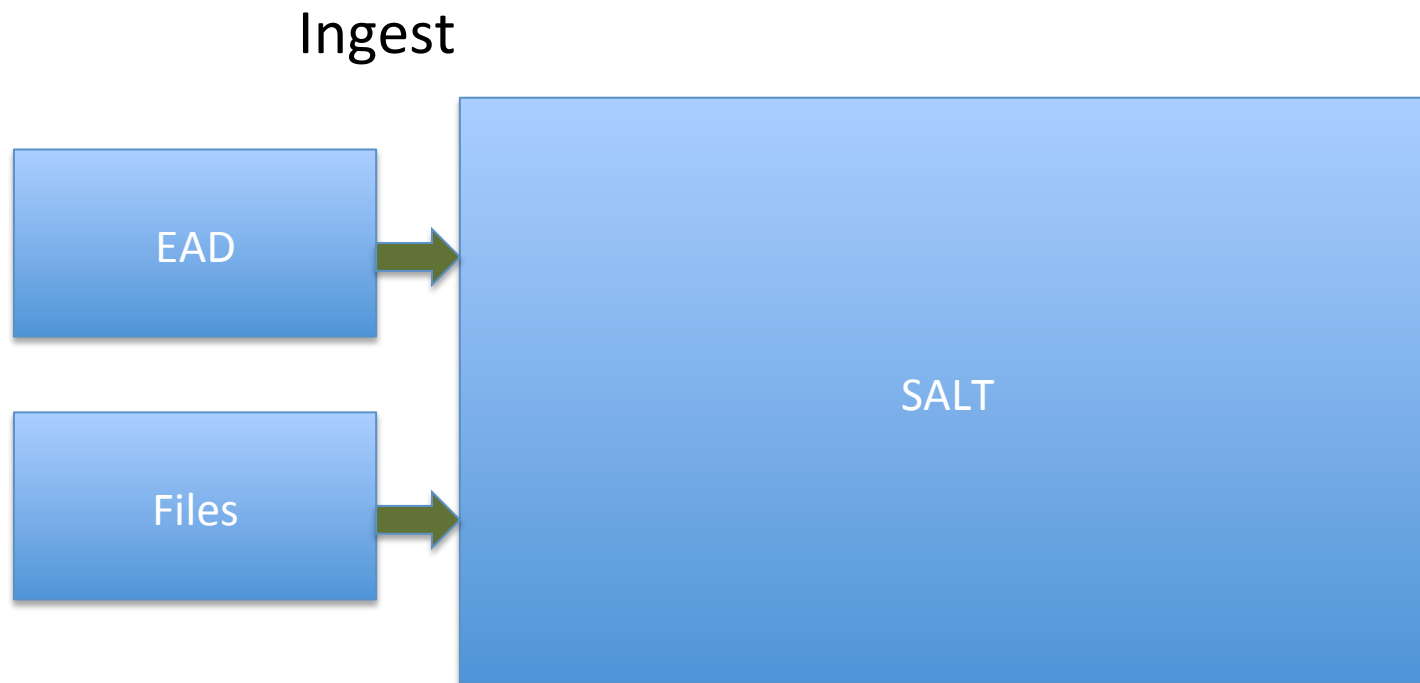
3. EEMs

(Everyday Electronic Materials)

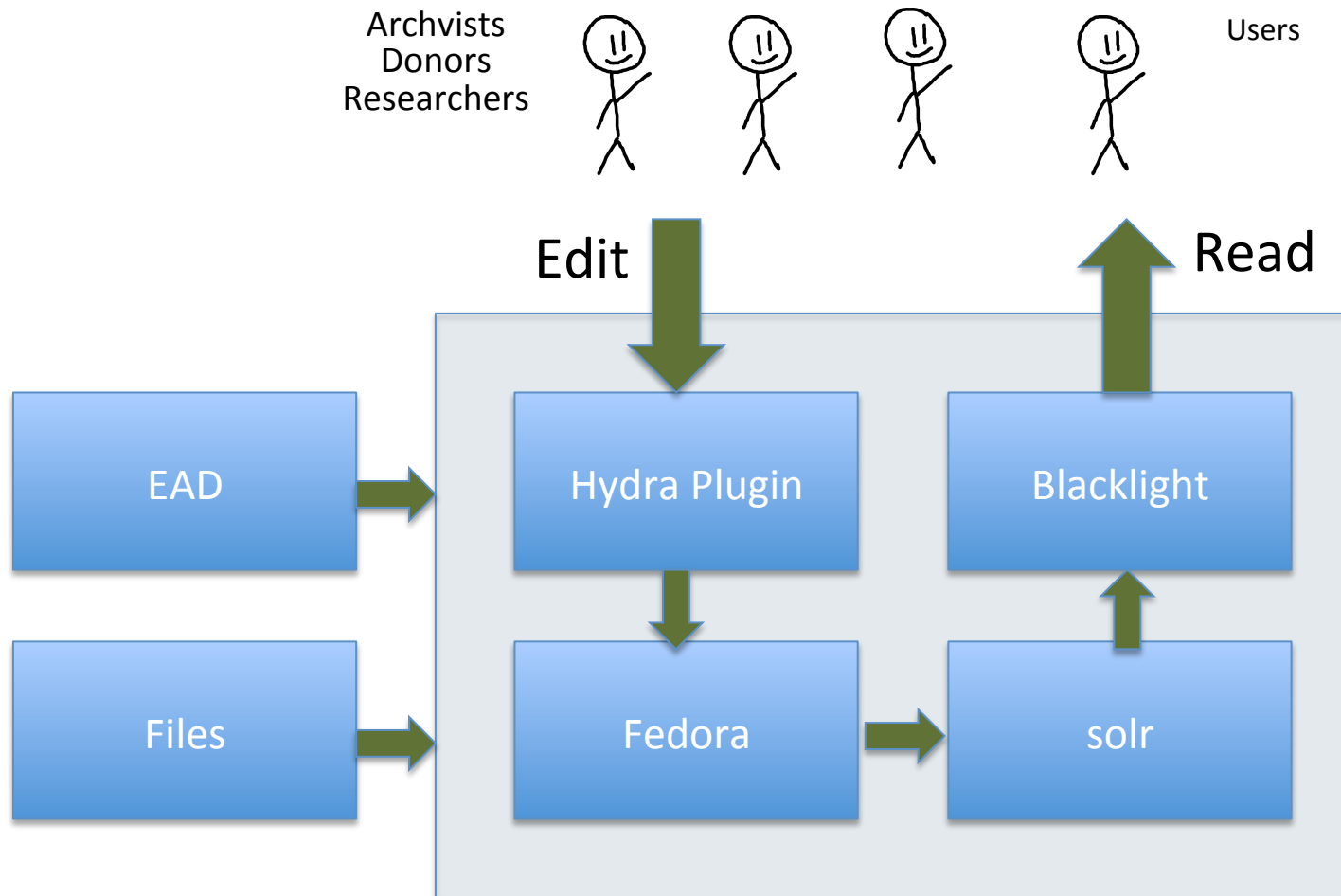
SALT

- Archives comprising digitalia require management, access & preservation
- They are expensive and labor-intensive to process and present
- SALT inverts the traditional approach (process-then-deliver) with a new paradigm (deliver-and-process-as-you-go)
- Need: System for presenting, managing & preserving digital archival objects
- Users: Archivists, Donors, Researchers, Projects

SALTworks Data Flow



SALTworks Data Flow



SALT

- Bulk ingest
- Permissions aware discovery & reading
- Role-based editing, tagging & annotation
- In line document viewer

SALT

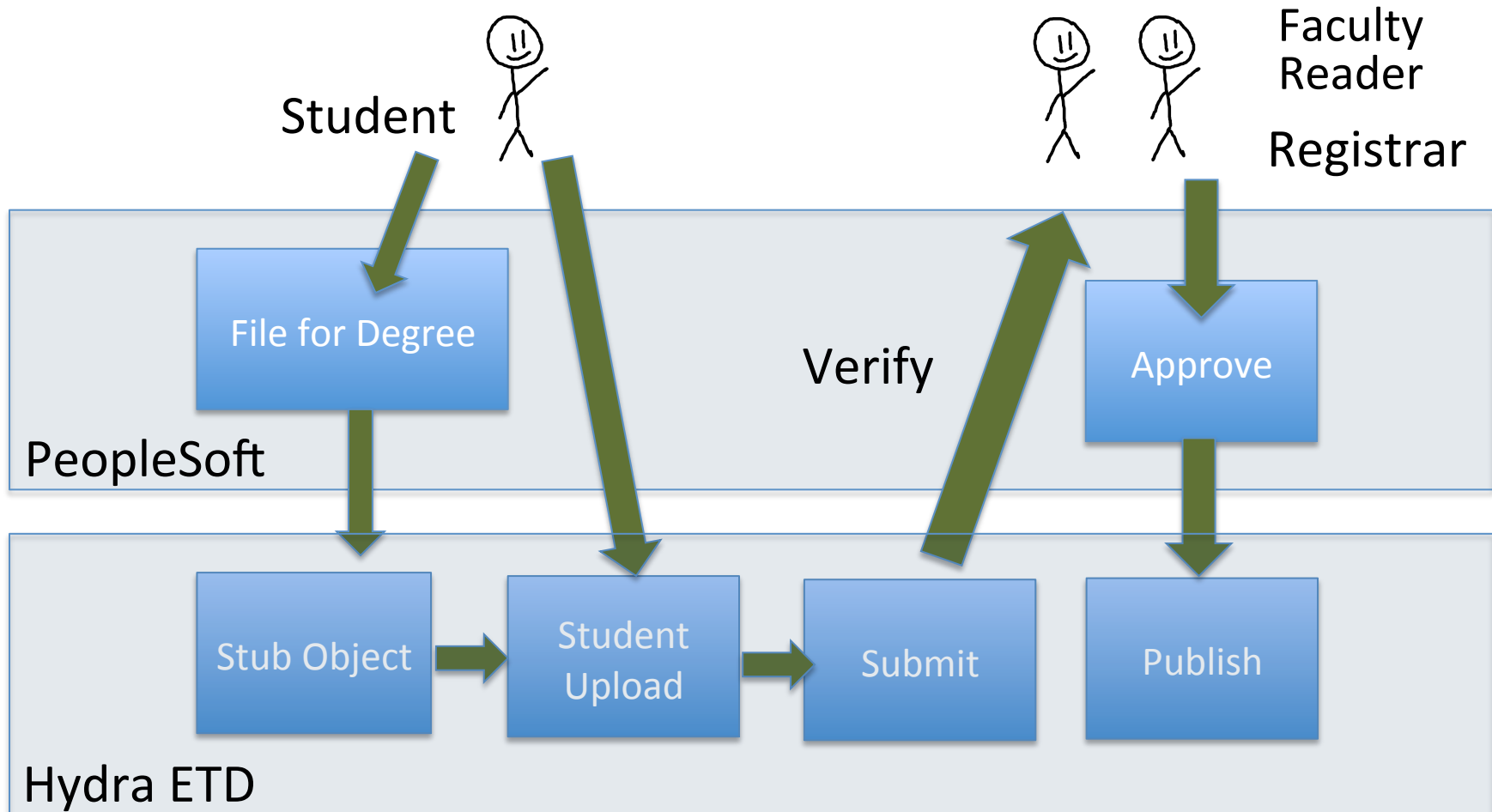
- Whole management of the archival object!
- Previously:
 - Files on a separate files store
 - A distinct index with its own faceted browser (Flamenco, pre-BL)
 - A separate Drupal site for collection landing page
 - A separate Mysql db for tags

= a Nightmare to synchronize, update and migrate

ETD's

- Submission & approval system for ETDs
- Critical Functions
 - Integration with PeopleSoft
 - Integration with Library Management System
 - ETD Upload, Description
 - Support for auxiliary files
 - Support Licensing & Embargo Settings
- Users: Students, Faculty Readers, Registrar's Office, Library Staff

ETD Data Flow



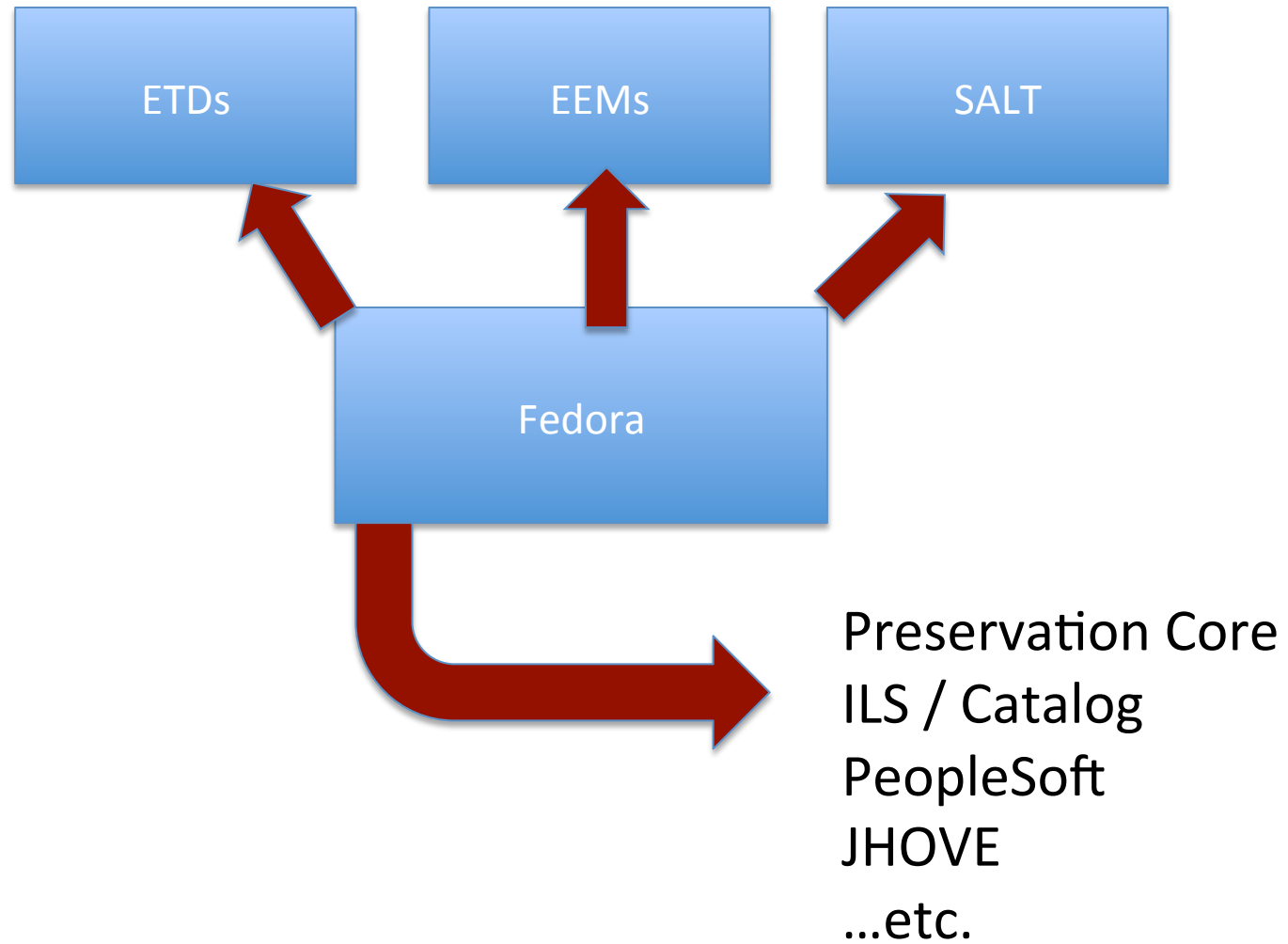
ETDs

- Complex objects
(PDF, auxiliary files, permissions letters)
- Integration with external systems (PS, ILS)
- Workflow tool
- Highly tailored UI

EEMs

- Workflow tool for librarians
- Select & submit digital monographs to the library
- Run through technical services (Acq & Cataloging)
- Publish & preserve completed objects
- Simple objects

RaaS?

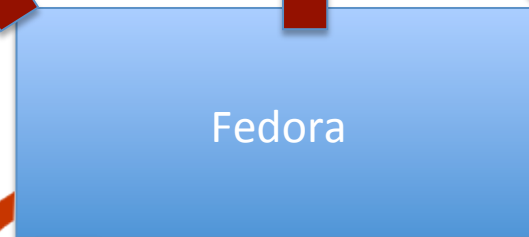


Hydra

Many
Heads



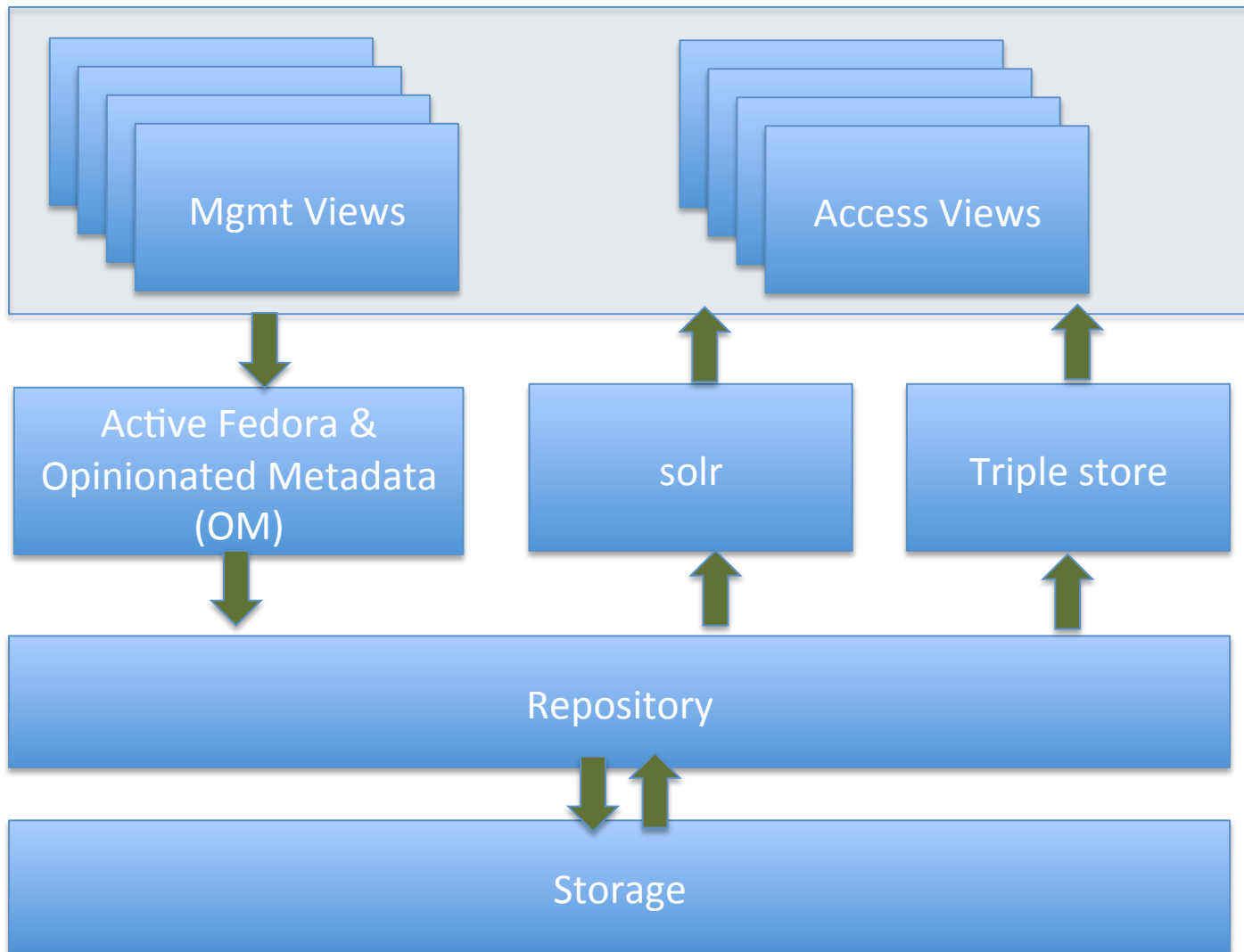
One
Body



Integration of
Lego Bricks of
Services

Preservation Core
ILS / Catalog
PeopleSoft
JHOVE
...etc.

So What is Hydra?



So What is Hydra?

- Design pattern with common componentry and platforms
 - Fedora, Ruby on Rails, solr, ActiveFedora, Blacklight
- Tremendous (but not perfect) overlap of data models across heads
 - Object types, data streams, syntax

So What is Hydra?

- Framework for generating Fedora front-end applications w/ full CRUD functionality
- That supports distinct UI's, content types, workflows, and policies

So What is Hydra?

- And a growing community of institutions and developers committed to framework and collaboration
 - Not grant based
 - Distributed
 - Robust
 - Open

With a growing suite of “solution bundles”

- ETD's
- Images
- Media
- Institutional Repositories
- Open Access Publishing
- Research Data deposit
- Archival collections
- Galleries & exhibits

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