

Digital Commonwealth 2.0

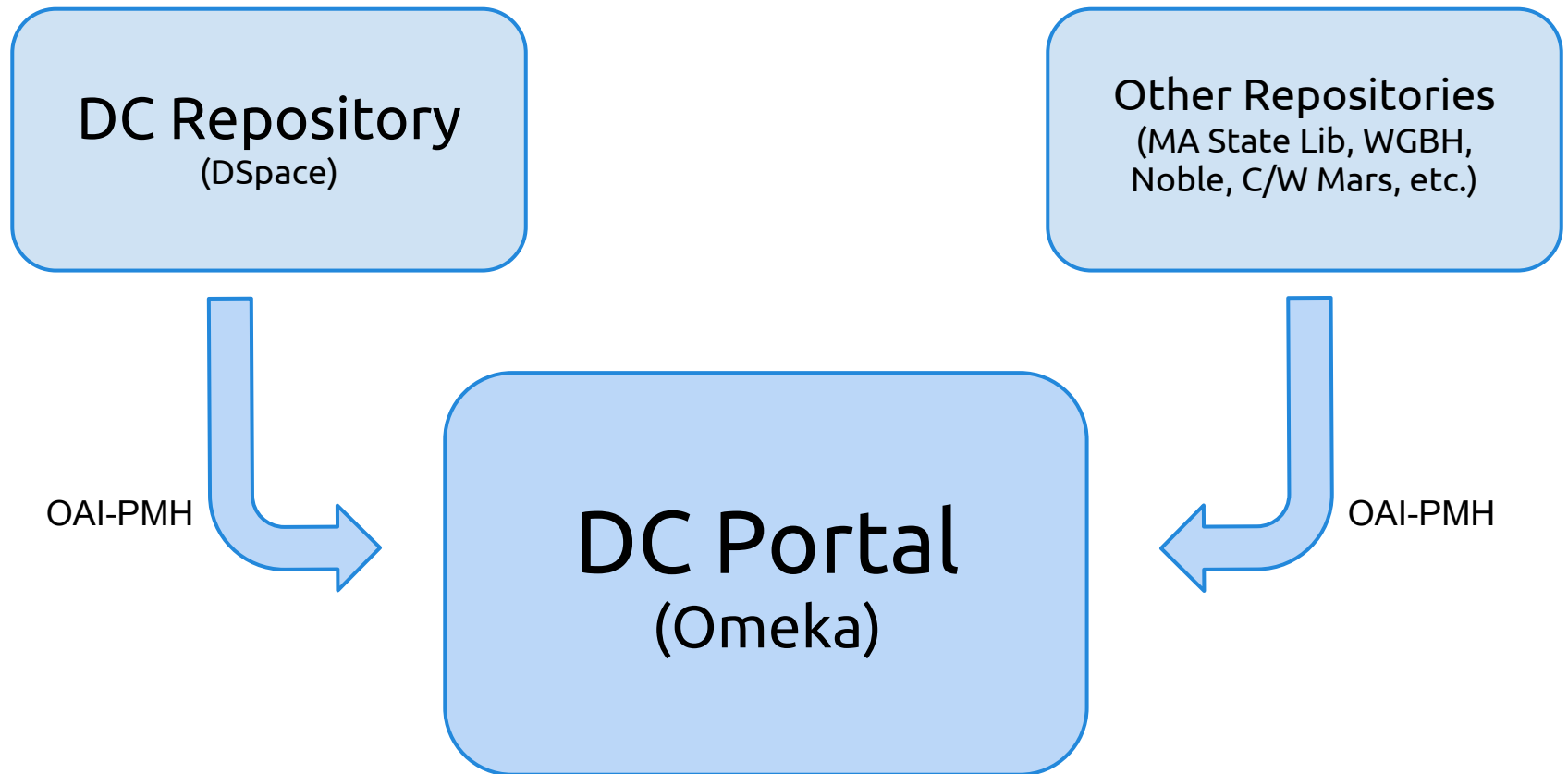
Creating Digital Collections with the Redesigned Repository System

Steven Anderson
Eben English
Boston Public Library

Why build a new repository?

- DSpace features limited
- need a system tailored to needs, context
- manage infrastructure/technology
- merge portal & repository functions

Current situation



Needs

- scalable
- customizable
- accommodates diverse content
- accommodates diverse contributors
- extensible
- preservation-worthy
- discoverability
- shareability

Hydra Framework

An ecosystem of components that facilitate the creation of digital repositories (the body) supporting multiple 'heads.'

- open source
- rapidly growing community of adopters
 - Stanford, Notre Dame, Duke, Northwestern, Indiana, WGBH, Penn State, Virginia, Columbia
- flexible & extensible
- built on proven technologies

Hydra Framework

- Fedora Commons
- Solr
- Blacklight
- Hydra Head
- Ruby on Rails

Fedora Commons (storage)

- any type of digital content
- any metadata schema
- platform agnostic
- scalable to millions of objects
- manage versions and datastreams

Solr (indexing)

- full-text search
- hit highlighting
- faceted search
- (near) real-time indexing
- rich document (e.g., Word, PDF) handling

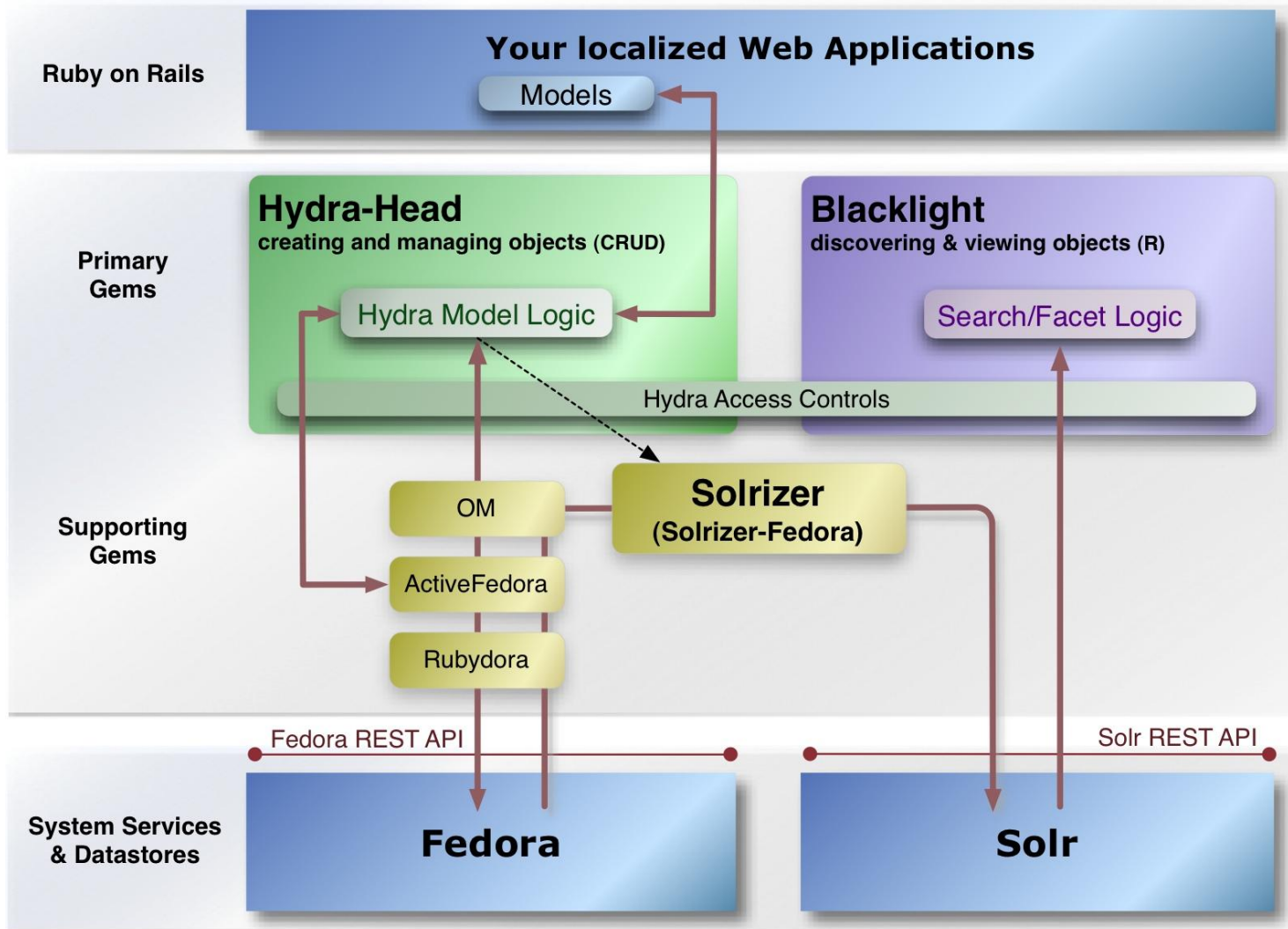
Blacklight (search and discovery)

- originally developed as an open-source OPAC
- faceted browsing
- content-specific templating
- bookmarking

Hydra Head (creation & editing)

- create objects in a repository
- upload files
- edit metadata
- manage permissions

Hydra Framework



Project Overview

- replace current DSpace functionality
 - migrate content & metadata
 - beta release; testing
 - integrate portal functionality
 - ingest OAI-harvested content
 - launch of site integrating repository & portal
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- preservation repository
 - application development

Components

- **Commonwealth-Admin**
 - administrative functionality
 - upload, edit, manage collections & objects
 - MODS metadata schema
 - derivative creation
 - ARK minting

- **Commonwealth-Search**
 - search & discovery functionality
 - search/browse for collections & objects
 - view content
 - share content
 - OAI-PMH feed

Where We're At

- **basic repository functionality**
 - create and manage simple objects
 - derivatives
 - persistent identifiers
 - MODS metadata
- **initial content population**
 - some DSpace collections
 - BPL collections
- **search & discovery interface**
 - searching, browsing, sharing
 - user content creation
- **beta release (soon)**

Show & Tell Time

Features to be added

- admin dashboard
- workflow staging
- complex objects
- series & subseries for collections
- batch uploads
- ingest of MARC & EAD records
- advanced search
- geospatial searching & browsing
- book viewer
- export slideshow

Questions?

- Steven Anderson
sanderson@bpl.org
- Eben English
eenglish@bpl.org