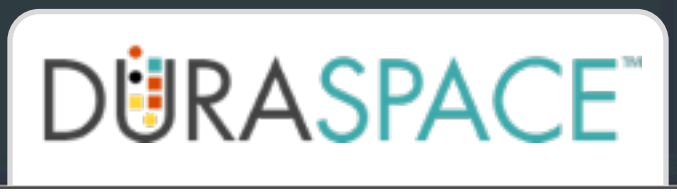
DuraSpace Strategic Overview

Sandy Payette
Bradley McLean
Thorny Staples
Tim Donohue
Michele Kimpton

Open Repositories 2010

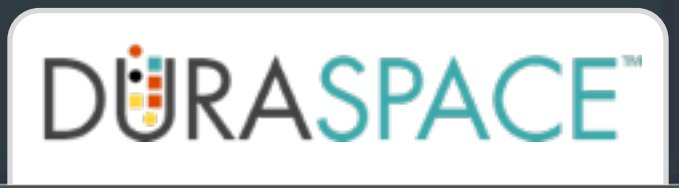


DuraSpace Strategic Directions

Bradley McLean

OR 2010

Madrid

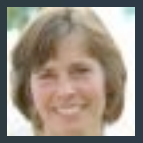


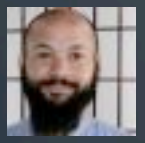
In this session

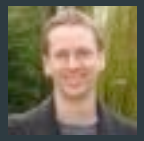
- DuraSpace Strategy
- Fedora RoadMap
- DSpace RoadMap
- DuraSpace Sustainability

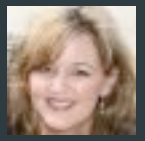
DuraSpace is:

Michele

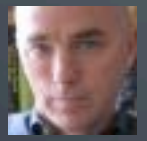

Sandy


Brad

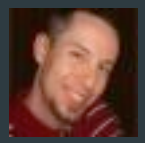

Tim


Valorie

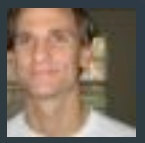
Carol


Thorny

Chris


Bill

Carissa


Andrew

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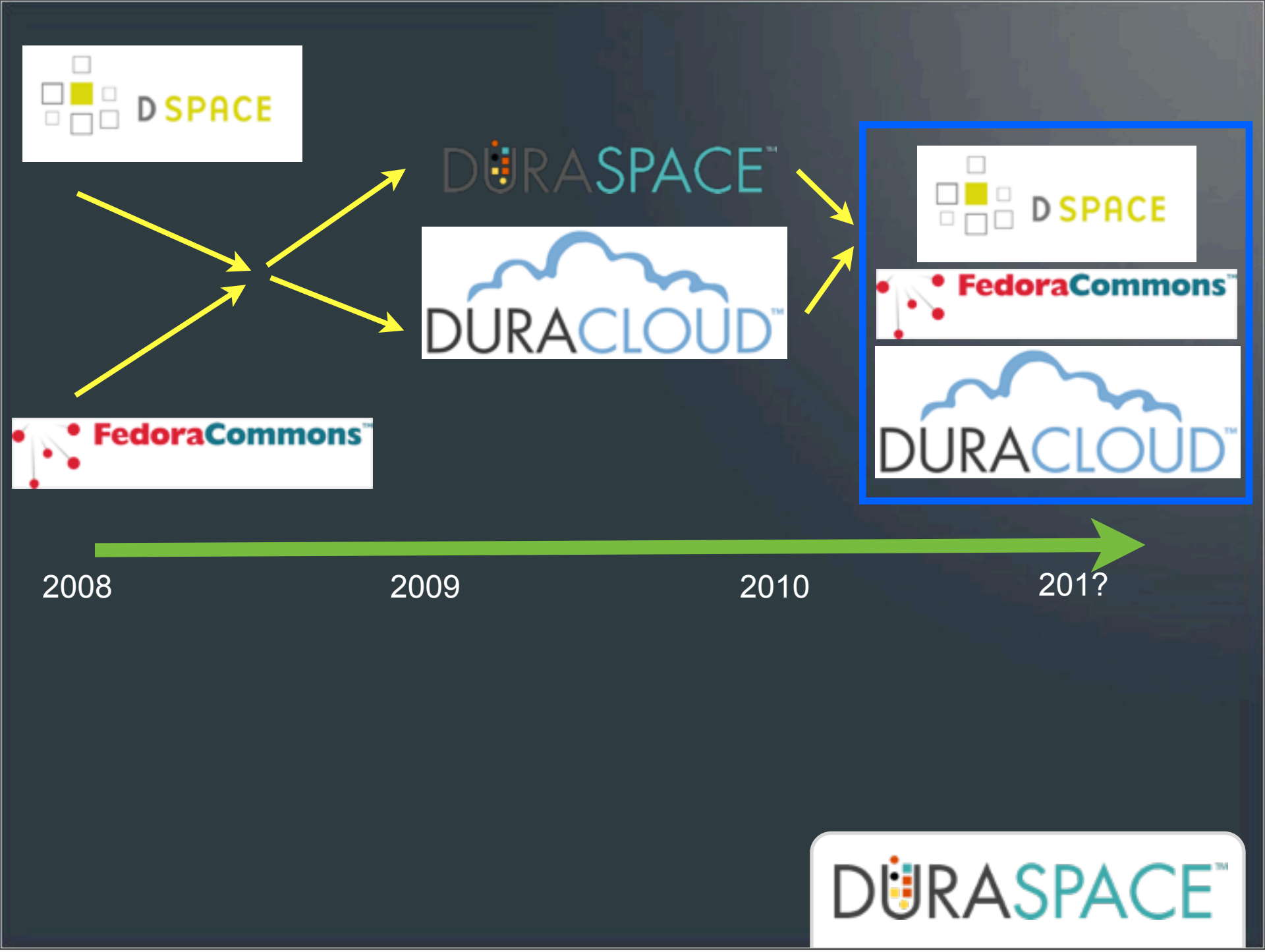
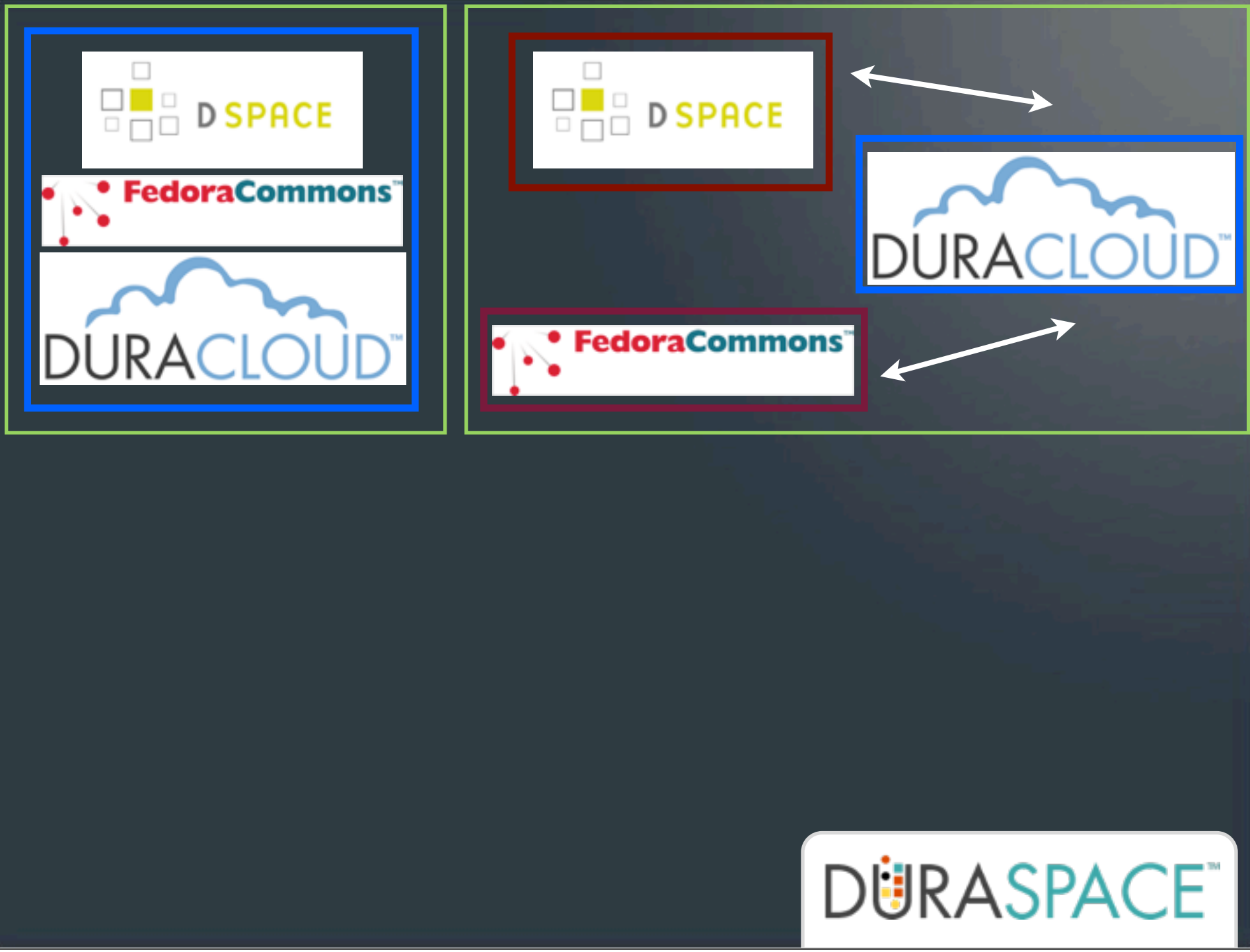

DSPACE
DURASPACE
DURACLOUD
FedoraCommons
DSPACE
FedoraCommons
DURACLOUD
2008
2009
2010
201?
DURASPACE


DSPACE
FedoraCommons
DURACLOUD
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DURASPACE

DSPACE

FedoraCommons

DURACLOUD

DSPACE

FedoraCommons

DURACLOUD

DSPACE

FedoraCommons

DURACLOUD

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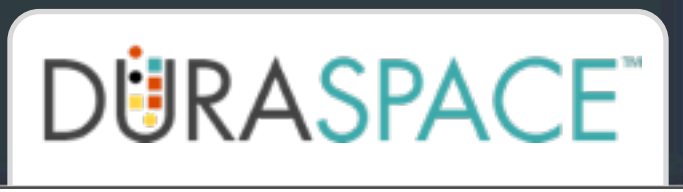
- No, you aren't in the wrong room!



<sword />

DSPACE

eprints

blacklight

hydra

Apache Solr

MediaShelf

islandora
building a rich digital repository ecosystem

FedoraCommons

DURACLOUD

iscovery arden

Drupal

DURASPACE

?

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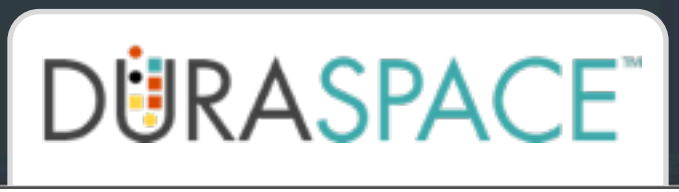
DuraSpace is committed to providing leadership and innovation in the development and deployment of open technologies that promote durable, persistent access to digital data. We collaborate with academic, scientific, cultural, and technology communities in creating practical solutions to help ensure that current and future generations have digital access to our collective heritage.



Strategy

Create and sustain projects that coexist in a growing digital ecosystem.

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Development Streams

- DSpace
  - turnkey reference platform for institutional repositories
  - user experience incubator
- Fedora
  - robust repository toolkit, easily installed, configured and maintained with rich primitives for storage, indexing and access control.
  - Integration ready
- DuraCloud
  - easy access to cloud computing, as a managed service on public clouds or as a toolkit for private clouds

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Play Nice With Others

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@MIRE
cilea
Enovation Solutions
LONGSIGHT
building open source solutions together℠
numérica
desarrollando ideas
Open Repository
sdlc
scottish digital library consortium
NITLE
wijiti
Royal Technosoft Pvt Ltd.
IT Solutions
CREVISSE PARTNERS
cometatech
Smile group
ABAX
asesores
المذاكي لتقنية المعلومات
Almathaki For Information Technology
ibai
sistemas
iscovery arden
hp
MediaShelf
Destin
ARGONET
JumpBox
4TIC
D REPOSITORY
Neki
TECHNOLOGIES
Modal
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Ongoing Integrations

- Drupal and WordPress at Islandora
- MS Word Author Add-In plugin - extension to OpenOffice and Desktop (#depositmo)
- SWORD
- NSF DATANET funded Data Conservancy project at JHU
- Big Digital Machine at Indiana with PKP and Connexions
-

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What about DSpace & Fedora?

DuraSpace recommends that the DSpace and Fedora communities investigate strategies to allow DSpace software to run "on top of" the Fedora platform. Essentially, this would mean that the DSpace application would have a new option to install it with "Fedora Inside".

DSpace with "Fedora Inside" would be a version of the DSpace application which can store its contents (files and/or metadata) in Fedora. The goal is to retain the out-of-the-box experience that is DSpace, while also enabling the extra features that Fedora provides (e.g. versioning, relationships between objects, flexible architecture).

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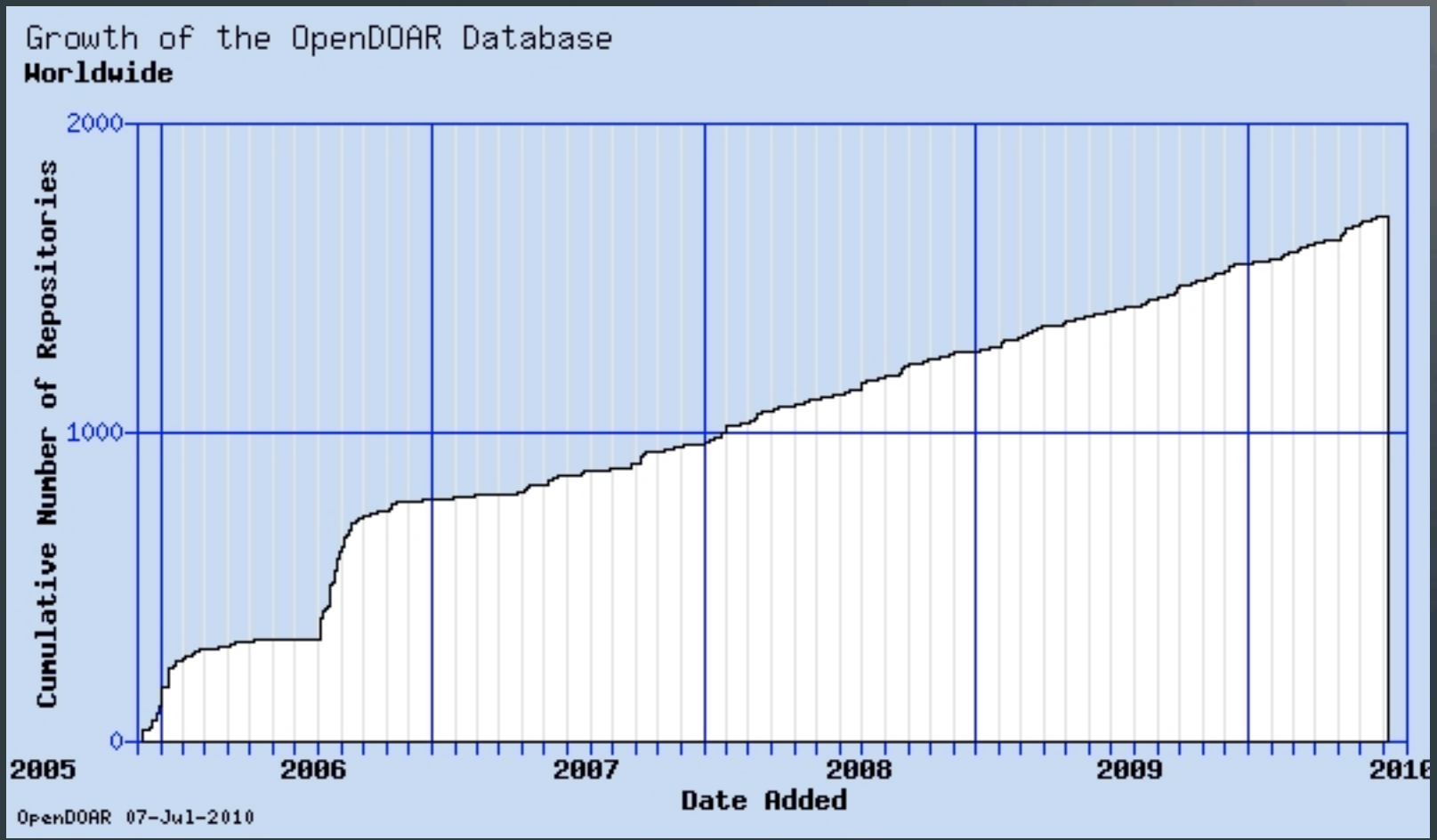
Trends



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Trend: Factoring Services

- Interfaces everywhere
- CDL - microservices
- Repositories -> Frameworks

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Trend: Decouple UI/workbenches

- Manakin
- Blacklight
- SWORD / Author add-in - and beyond
- Is administration next?
-

Trend: Repo tech in mainstream

- Can we use your repository software for
  - Motion Picture preservation?
  - Legal Office Records?
  - Inside our biochem company?
- Zotero
  - How do I publish and share?
- Personal online backup services
  - How do I share just a little?

Trendy Musings

- No standalone systems
- Identity and Auth* is always an integration
- Everything exposed to web
- Most digital objects cross applications
- Linked data / SemWeb will take over one of these years
- Nothing and everything is permanent

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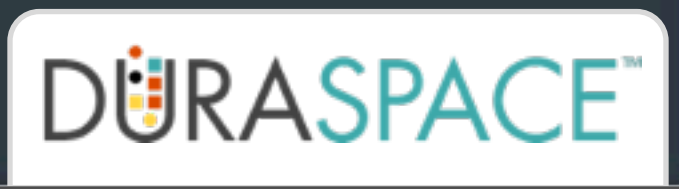
2010

- Enhance data portability
- Grow some more service interfaces
- Support more independent user facing projects
- Predictable release schedules of community driven core technologies
- Work gradually towards code reuse
- Progress towards common cloud practices
- Link friendly



Direction

- Sustain and enhance existing efforts to make preservation technology interoperable, compatible, and ubiquitous

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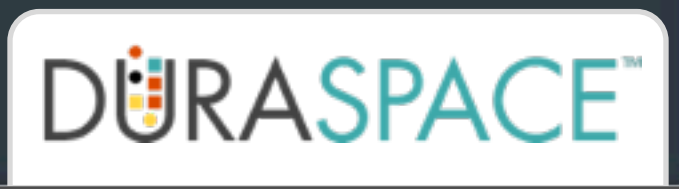
Fedora Roadmap

Thorny Staples
Director of the Fedora Project



Community-based effort now!

- 8 of 11 committers not DuraSpace employees
- Chris Wilper, DuraSpace technical lead
- Two community release managers:
  - 3.3: Kai Strnad, FIZ Karlsruhe, Germany
  - 3.4: Steve Bayliss, Acuity Unlimited, UK
- Open conference calls with IRC every Tuesday
- All code discussions held on the developer's list

Fedora 3.3, released December 18th

- RELS-INT relationships supported
- FeSL, new experimental security module
- Ability to ingest and provide local content via file:// URIs
- Http proxy when getting external content
- REST API non-experimental
- Support for Microsoft SQL Server
- 29 bug-fixes

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Fedora 3.4 Coming Soon

- Release candidate out now, help us test!
- DC, RELS-EXT, etc can be Managed Content
- Enhanced Content Models (experimental)
- Optimistic locking for modify operations (REST)
- SIZE attribute for managed datastreams
- Allow use of FeSL AuthN without FeSL AuthZ
- Improved logging configuration
- REST API improvements
- 25 Bug-fixes

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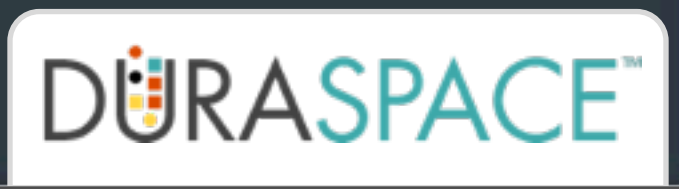
Future Roadmap Areas

- RESTful Relationship API
- High-level Storage Interface
- Re-Implementing Service Deployments
- Module Architecture Development (Spring and OSGi)
- Improve support for the Semantic Web and Linked Data
- Enhanced Content Models
- Fedora Command Line Interface



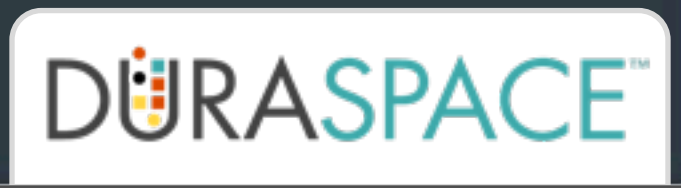
Fedora Committers Wiki:

https://wiki.duraspace.org/display/FCREPO/Fedora+Repository+Development+Wiki

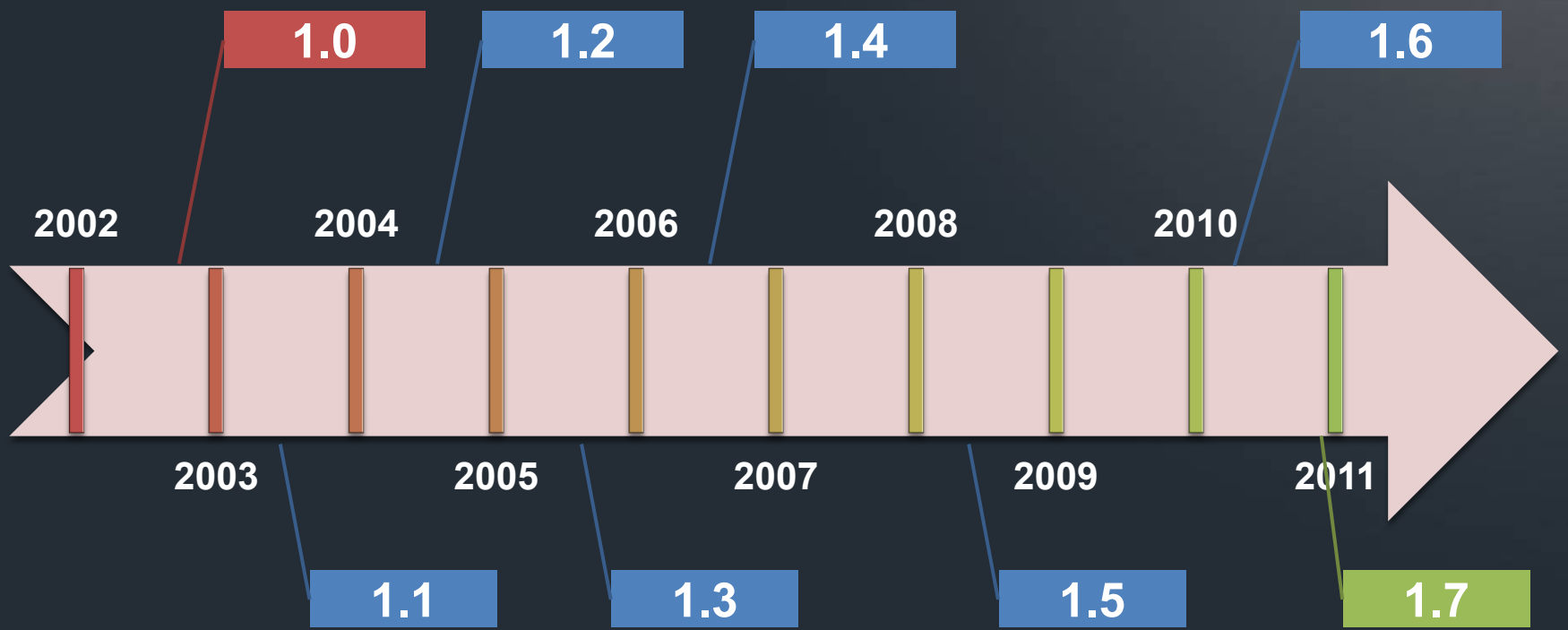
DSpace RoadMap 2010 - 2011

Tim Donohue

DuraSpace



DSpace Releases through Time



144+ different contributors
63+ different institutions

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Where we are

- 1.6.0 – March 2010 (36+ contributors)
- 1.6.1 – May 2010 (16+ contributors)
- 1.6.2 – June 2010 (6+ contributors)

Extra Special Thanks

– Stuart Lewis (1.6.0 RC)
– Kim Shepherd (1.6.1 & 1.6.2 RC)
– Jeffrey Trimble (Documentation Gardener)

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New Committers (since OR09)

- Peter Dietz (Ohio State University)
- Keith Gilbertson (Georgia Institute of Technology)
- Larry Stone* (Harvard University)
- Robin Taylor (University of Edinburgh)
- Jeffrey Trimble (Youngstown State University)

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DSpace Community
Ambassadors
Global Outreach Committee
Community Advisory Team
Committers
Developers

DSpace 1.8
“Fedora Inside”
DSpace 1.7

DSpace 1.7
• Type-based Submission processes ?
• Improved Backup / Restore ?
• Curation Tools ?
For the Developers:
– Unit Testing ?
– REST API ?
– Underlying Storage Improvements ?
– SWORD-based Export ?
1.7 Tour Guide:
Peter Dietz

Longer Term RoadMap

- Proposal: DSpace with “Fedora Inside”

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Longer Term RoadMap

- Proposal: DSpace with “Fedora Inside”

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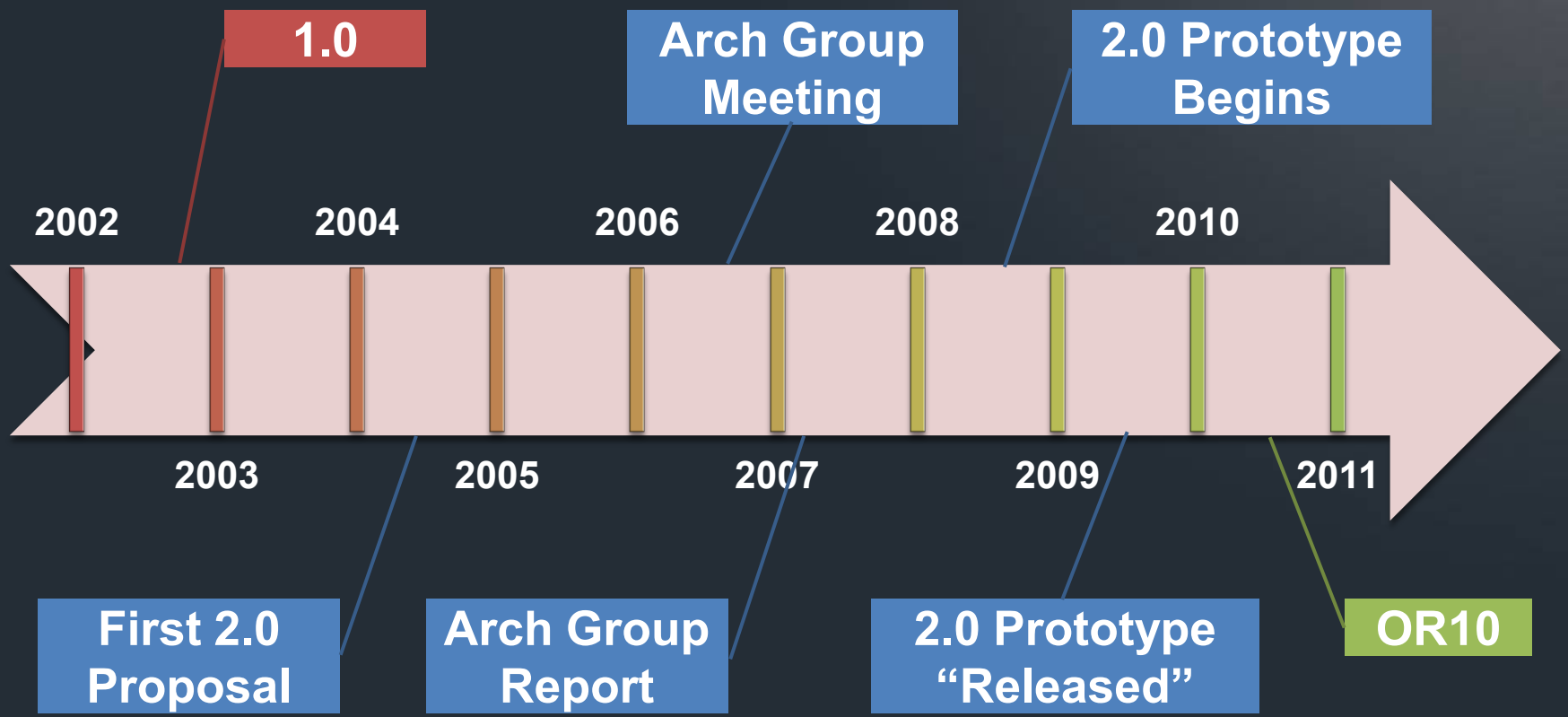
DSpace "2.0" Planning Timeline



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DSpace with Fedora Inside

DSpace 1.x

Fedora

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DSpace with Fedora Inside

DSpace 1.x

Fedora

DSpace 2.0
Prototype

DSpace
GSoC

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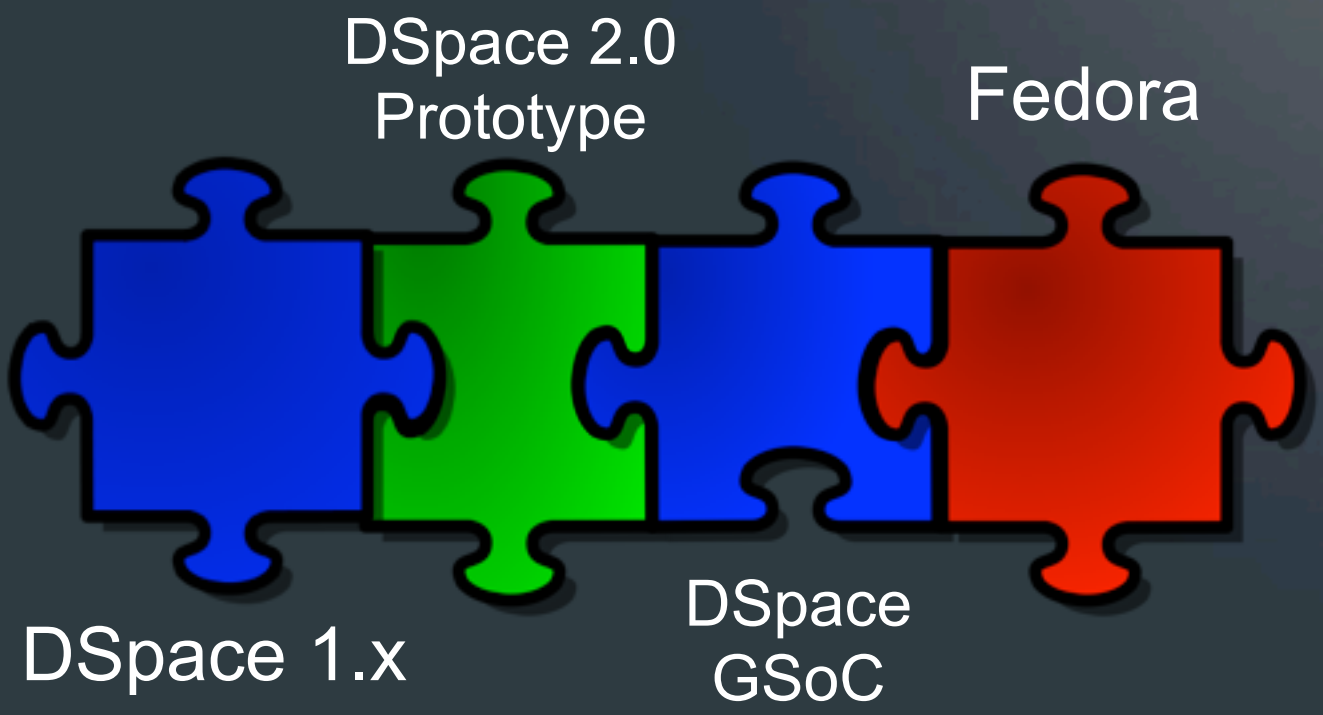
DSpace with Fedora Inside



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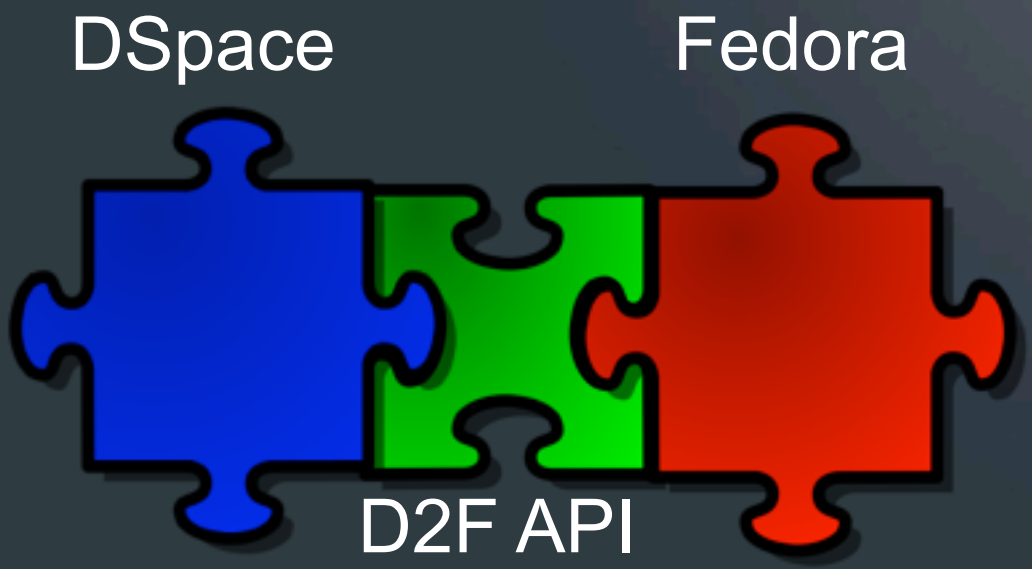
DSpace with Fedora Inside



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~~What~~ Why

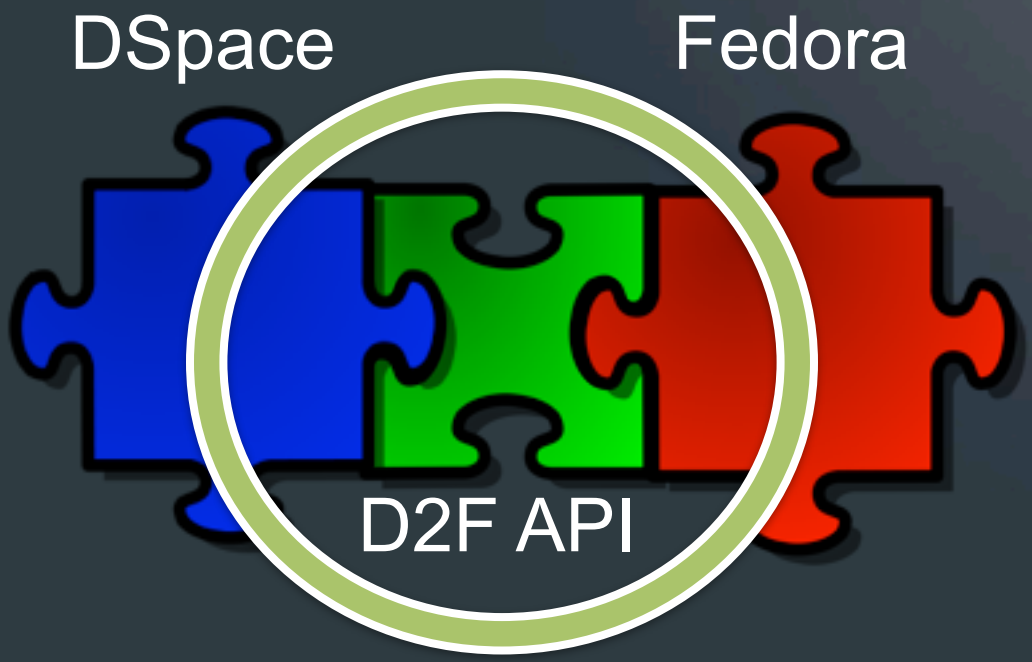
Who When

Less Redundancy

Less Redundancy

Pooling Resources
& Knowledge

DSpace with Fedora Inside



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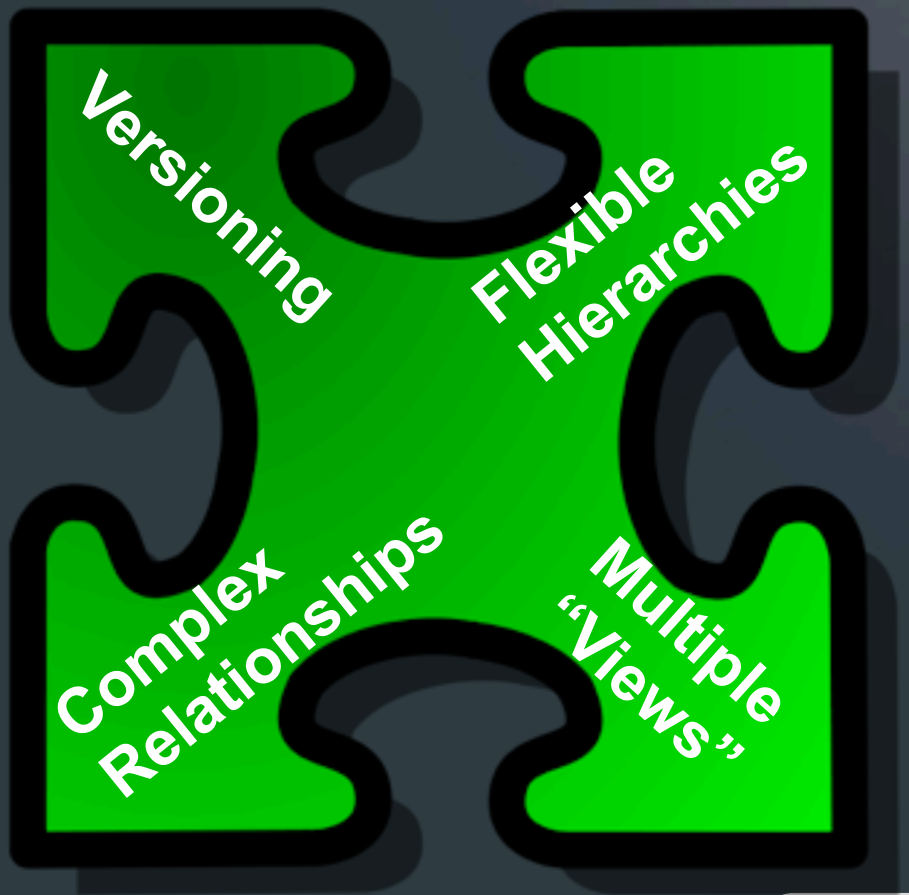
Potential New DSpace Features?



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Volunteers Needed

When?

- DSpace 1.7 (Dec 2010)
- DSpace 1.8 (2011)
- DSpace with Fedora Inside (2011-12?)

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We are one big community
Use your “voice”
Help us build it
You decide
(Finding a developer also helps)

Photo Acknowledgments

- Road: http://www.flickr.com/photos/jasmic/279741827/
- Puzzle Pieces: http://www.openclipart.org/user-detail/nicubunu
- ? Puzzle Pieces: http://www.flickr.com/photos/horiavarlan/4273168957/
- Poker Chips: http://www.flickr.com/photos/blyzz/2545222895/
- Redundancy: http://www.flickr.com/photos/ruthhb/3773684096/
- Hands: http://www.flickr.com/photos/fotorita/2313873355/
- Warning Label: http://www.warninglabelgenerator.com/
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- Birdhouses: http://www.flickr.com/photos/seeminglee/2149309015/
- ? Cloud: http://www.flickr.com/photos/stevemac/476730936/

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Contact Info

Tim Donohue
DuraSpace
tdonohue@duraspace.org

More Info on DSpace with “Fedora Inside”:

http://expertvoices.nsdl.org/duraspace/
http://wiki.dspace.org/DSpace-Fedora+Integration+FAQ

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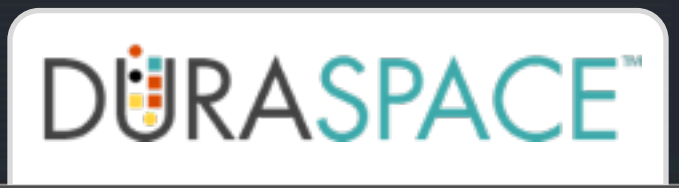
DuraSpace sustainability

Strategy and programs

Michele Kimpton, CBO

OR2010, July 2010



To the finals!

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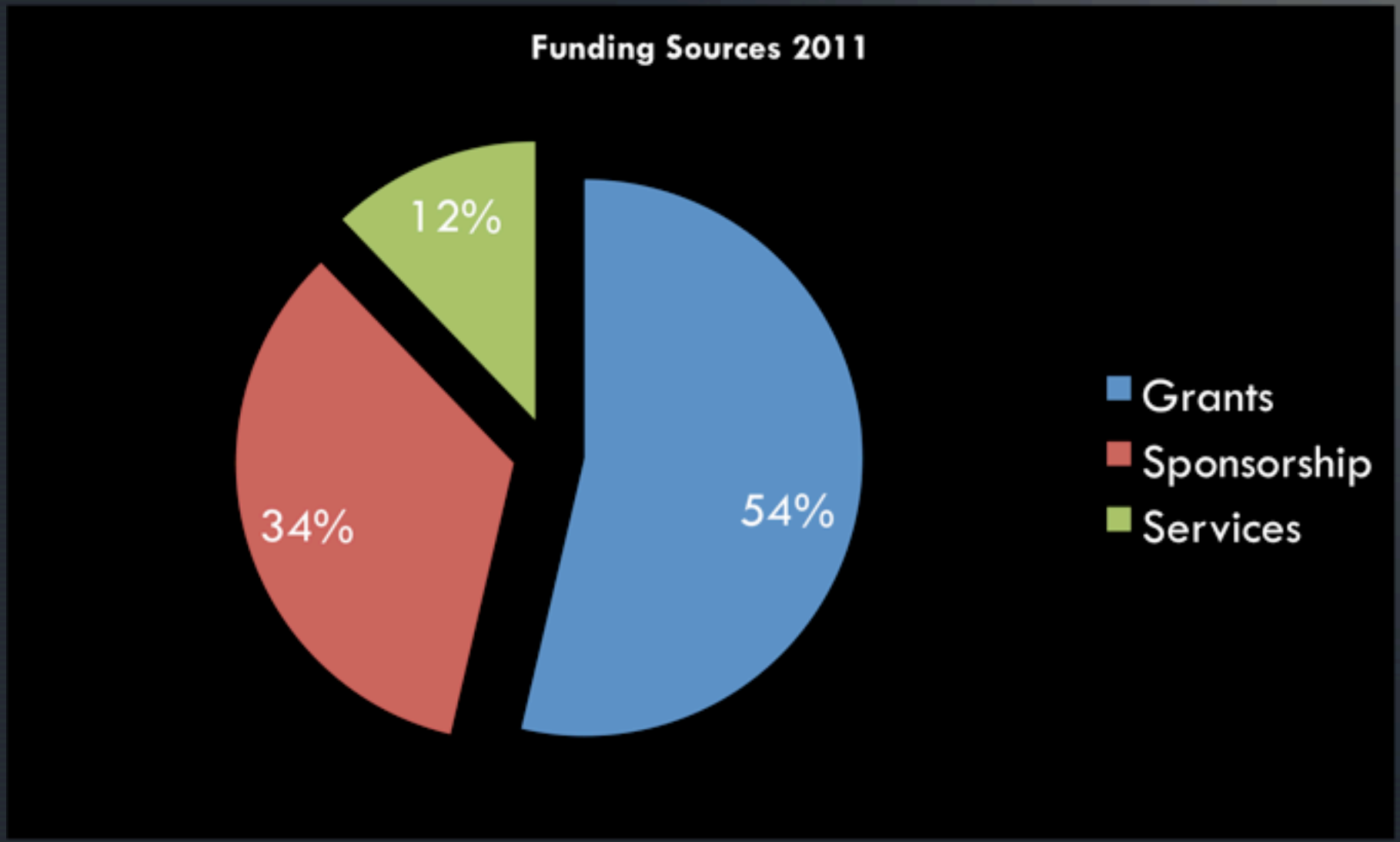

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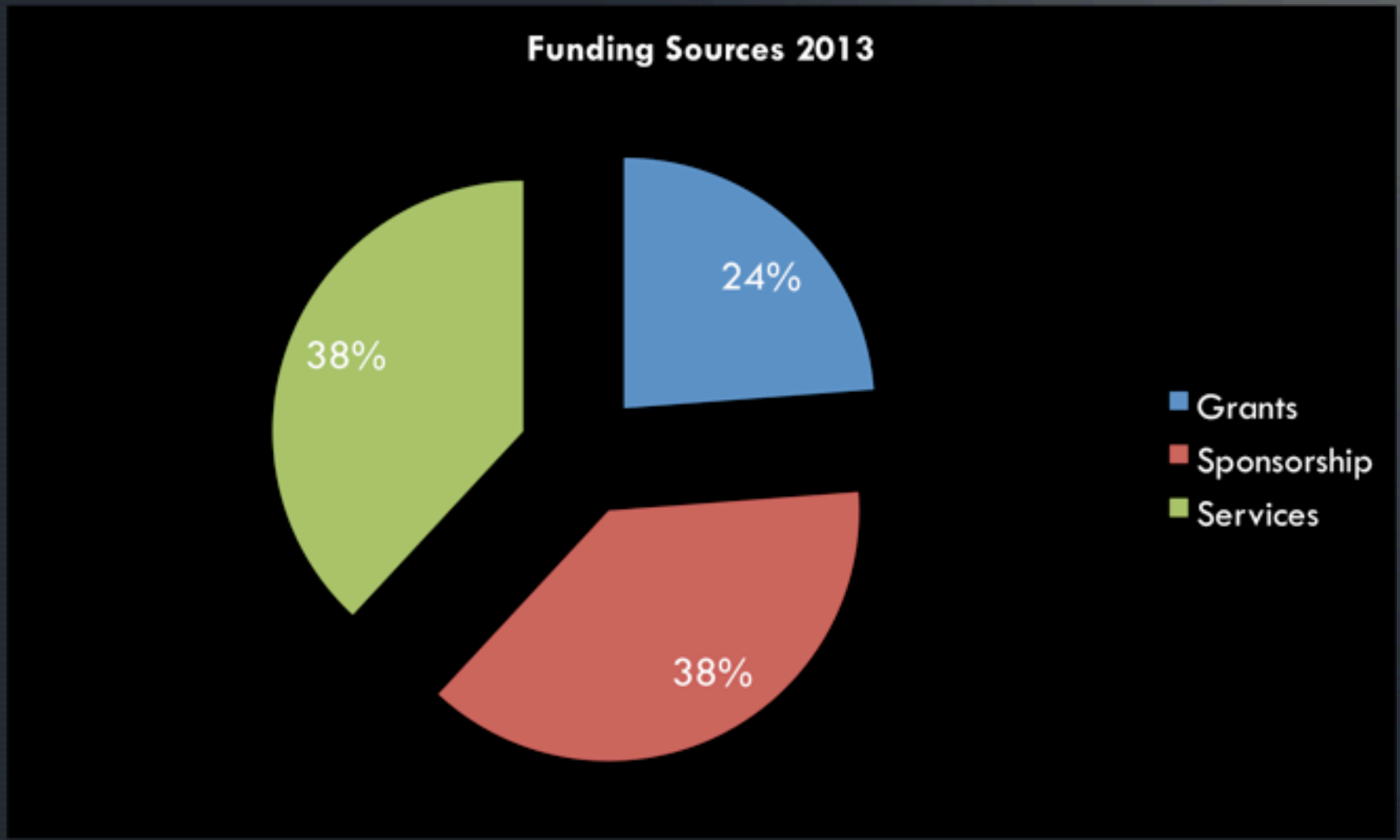

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Sponsor program

must be financially supported by the community to keep non profit status

Sponsorship Levels

"Continued support for DuraSpace's unique approach to developing innovative products and cultivating vibrant communities will benefit research and innovation the world over."

–Mark Leggott
University Librarian
Director
Islandora Project
University of
Prince Edward Island

Gold Sponsor - $10,000
Annual strategic forum with DuraSpace
All Silver and Bronze benefits

Silver Sponsor - $5,000
Annual sponsor webinar with DuraSpace
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Sponsorship program

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Stanford University Libraries and Academic Information Resources

Tufts University Libraries

University of Virginia Library

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Service Provider Program

Press release, July 1
Today, the DuraSpace not-for-profit organization announced its new Registered Service Provider Program to establish partnerships with companies that provide support services to institutions using the DSpace and Fedora digital repository software.

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Services

Hosted service and open source technology

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- DuraSpace Strategy
- Fedora RoadMap
- DSpace RoadMap
- DuraSpace Sustainability

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- http://www.fedora-commons.org/
- http://www.dspace.org/
- spayette@duraspace.org
- bmclean@duraspace.org
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