

DSpace RoadMap

2009-2010

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DuraSpace

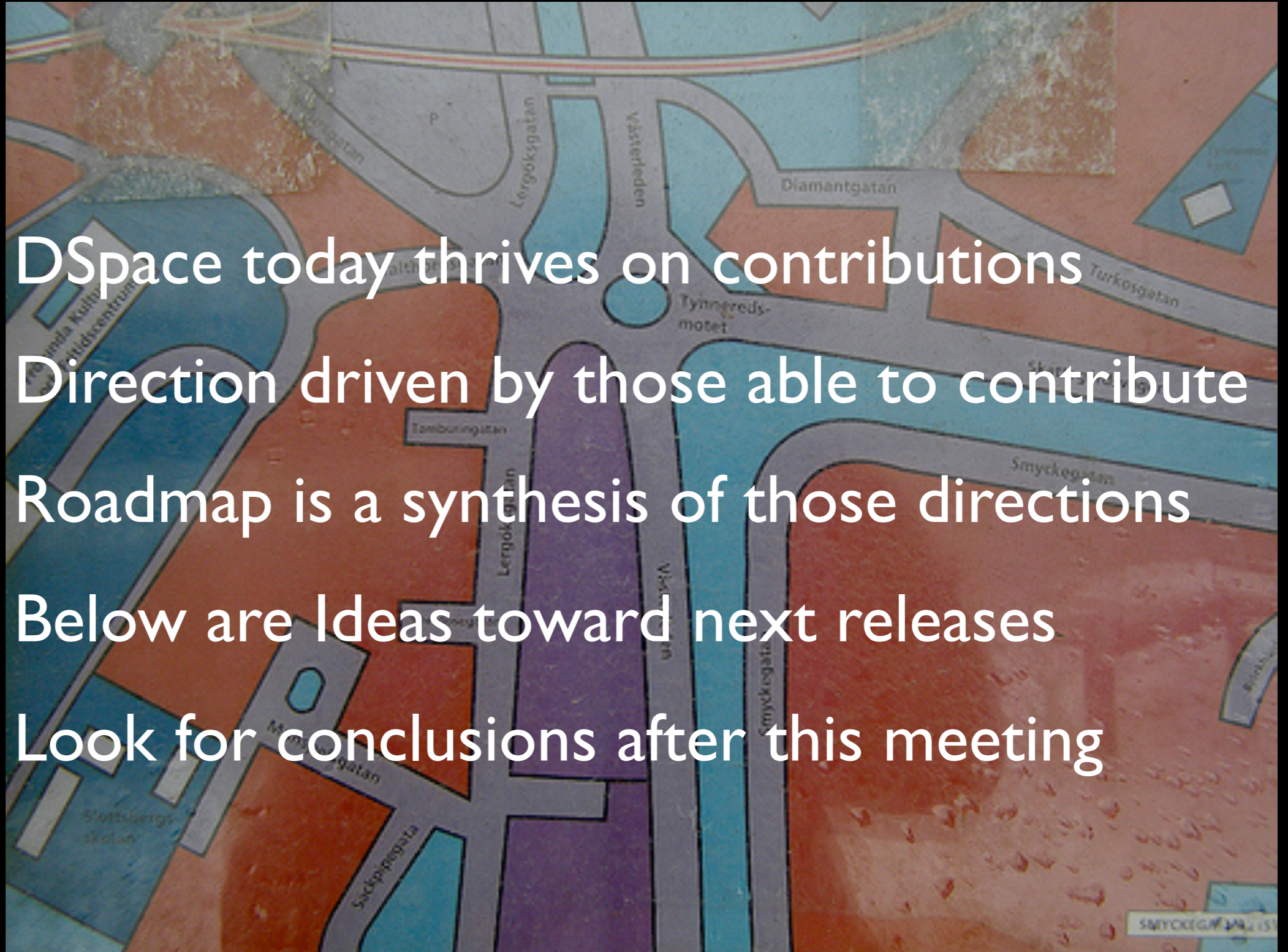
Highway

- 2009
- Open Issues
- 2010
- Governance



Trip Plan

- DSpace today thrives on contributions
- Direction driven by those able to contribute
- Roadmap is a synthesis of those directions
- Below are Ideas toward next releases
- Look for conclusions after this meeting



2009



2009 – DSpace 1.5

- DSpace 1.5 and 1.5.1 as year began
 - Maven build and overlay system
 - XMLUI (Manakin) as well as JSPUI



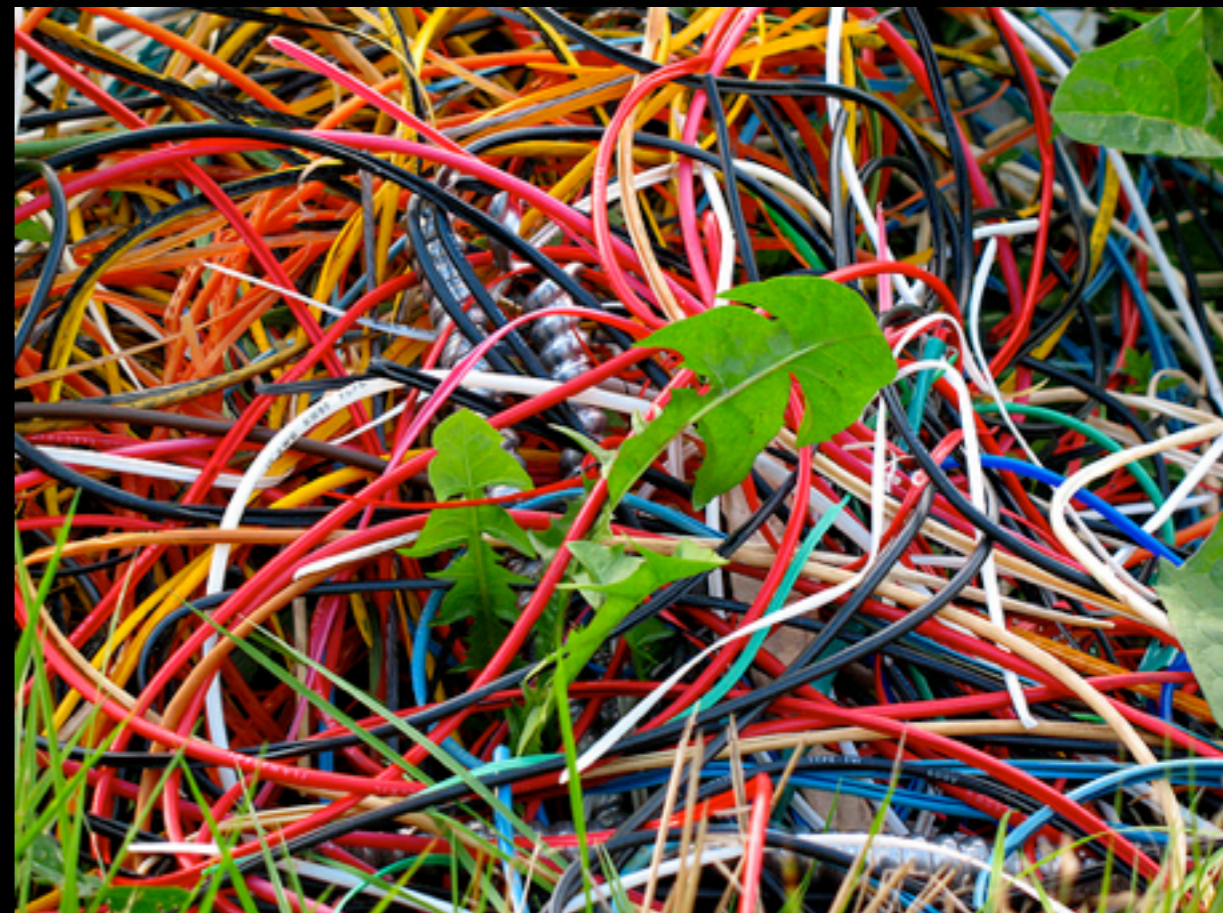
2009 – DSpace 1.5.2



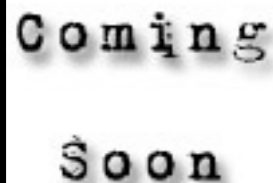
- SWORD module/version 1.3.1 supporting the sword standard version 1.3
- Cocoon upgraded to 2.2
- Fix for the UTF-8 issues with the XMLUI
- New authentication methods: Hierarchical LDAP and Shibboleth
- Full update translations: German, Italian for both XMLUI and JSPUI and Ukrainian for JSPUI
- New translations for 1.5.x: Greek and Thai
- Graceful resolver for urn in the item page for the JSPUI

2009 – DSpace 2.0

- Technology preview assembled for OR2009
- Subsequent incremental development
- Service manager integrated into DSpace 1.6
- Needs community support to become complete



2009 – DSpace 1.6

A white rectangular graphic with the words "Coming" and "Soon" stacked vertically in a black, monospaced, typewriter-style font.

- Releasing Soon.
- Embargoes, Batch Metadata Editing, Statistics, and much more ...
- Covered by Stuart Lewis in following presentation

DSpace N.X?

Leave aside the numbering:

- More service / component orientation
- More generalized data model
- Straightforward migration
- Apply current dev, design, community techniques



Issues



Issues – Code migration



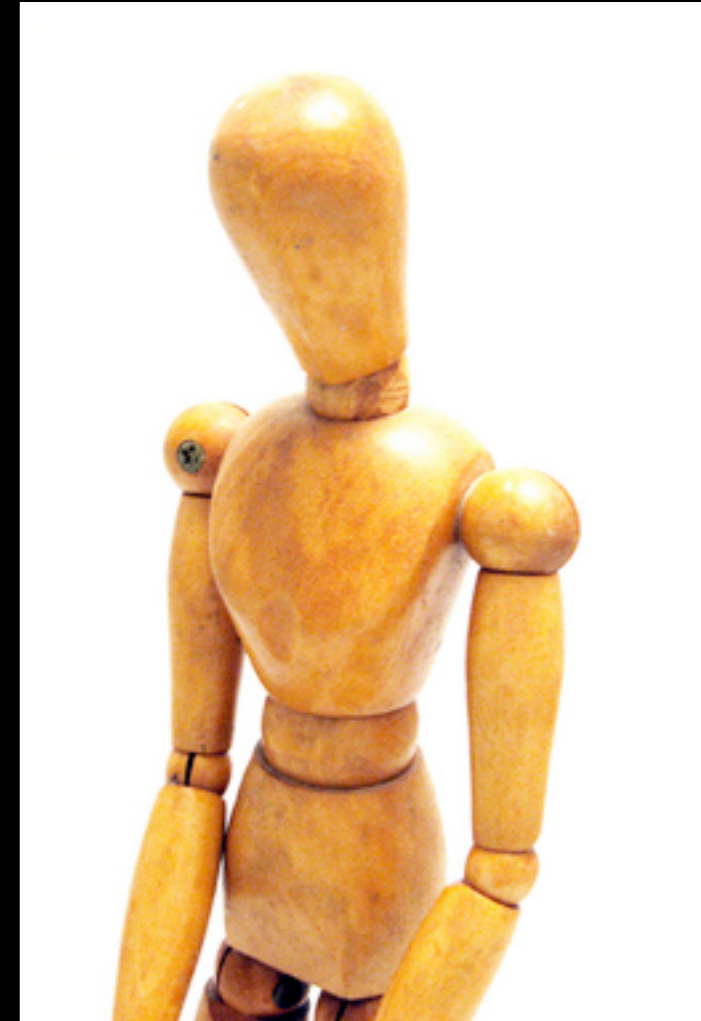
- Modularity / Components
 - Refactoring into the right ones
 - Always 90% done
- Extensibility
 - Best guesses lead to success (eventually)
- Maintaining and migrating local modifications

Issues – Data migration

- Upgrading data model means updating database
 - ... and in the worst case the content store - but not likely
- Using a data model means changing the code
 - ... and perhaps evolving local procedures and authorization

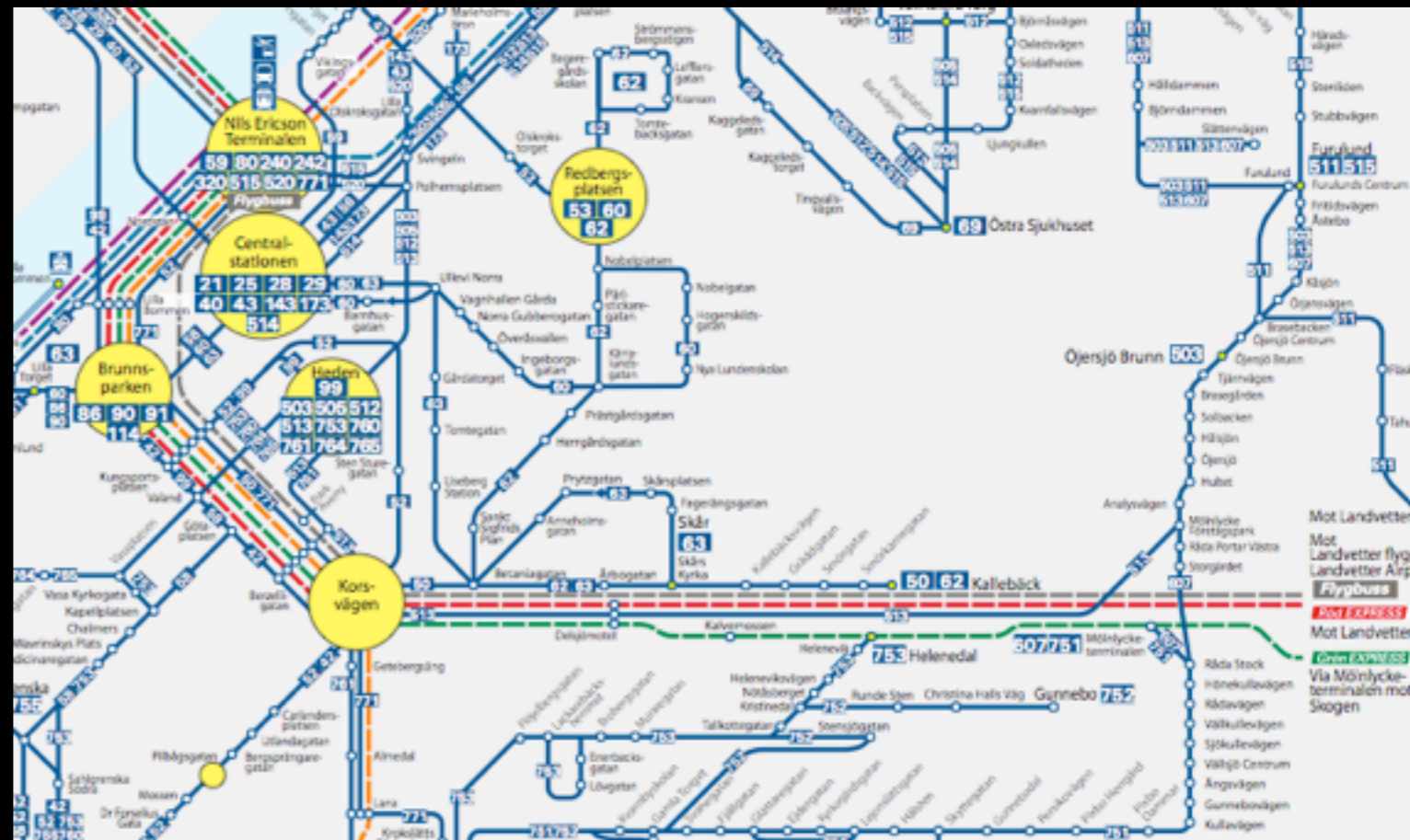
Issues – Two UIs

- Expensive to maintain two
- Tradeoff: double work vs mismatched features
- Neither is universally accepted
 - JSPUI: dated, flawed organization
 - XMLUI: XML is hard, tech has bugs, less efficient



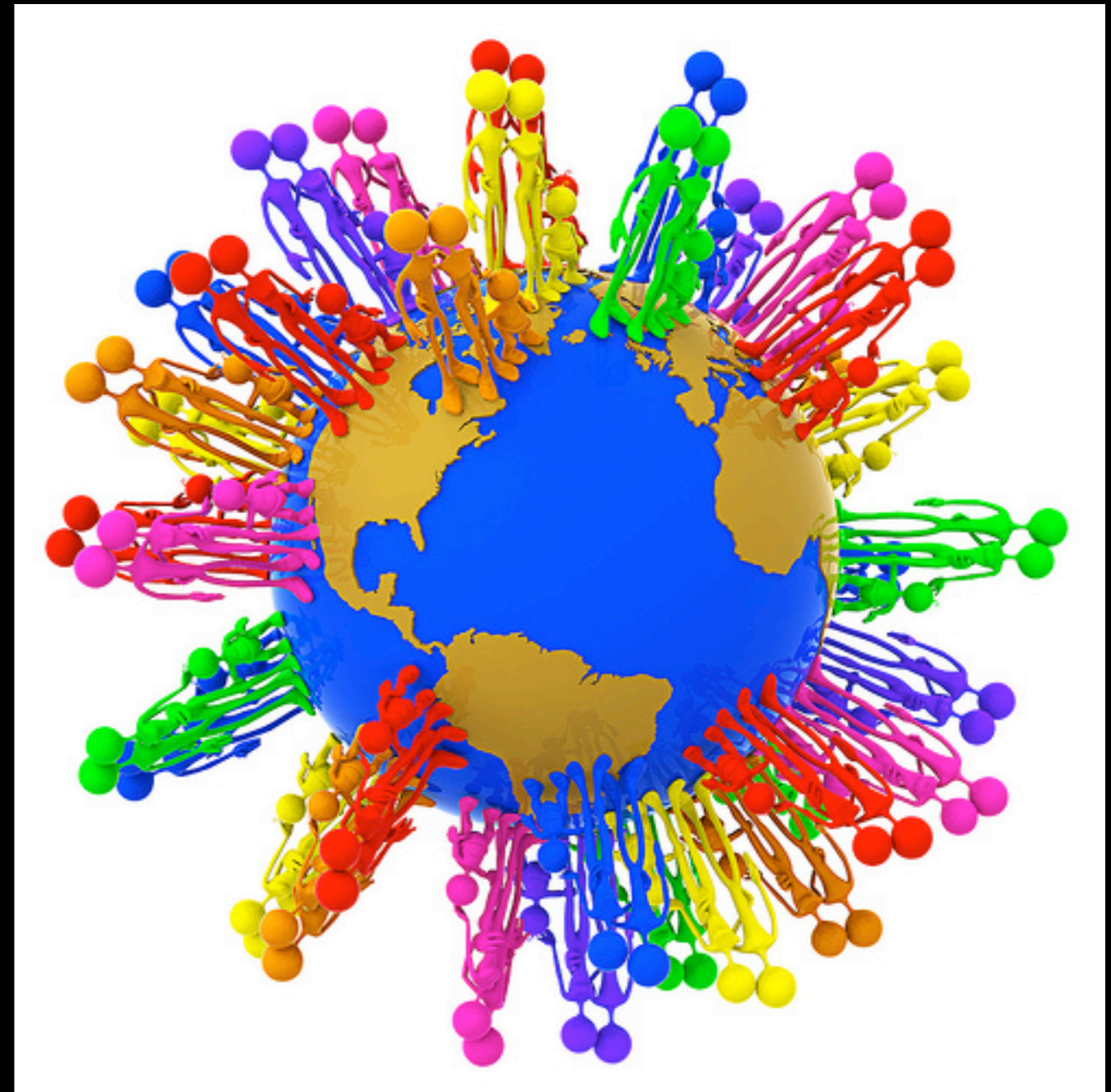
Issues – Service platforms

- DSpace 1: None (implied, JVM, JSP, Cocoon)
- DSpace 2: Custom; Spring (or flexible)
- Gaining momentum: OSGi (outside DSpace)



Issues – Dev community

- Small (dedicated!)
- Varying availability
- Widely distributed
- Working to local needs



Issues, Issues, Issues

- Code migration
- Data migration
- Two UIs
- Service platforms
- Dev community



Solutions – Code

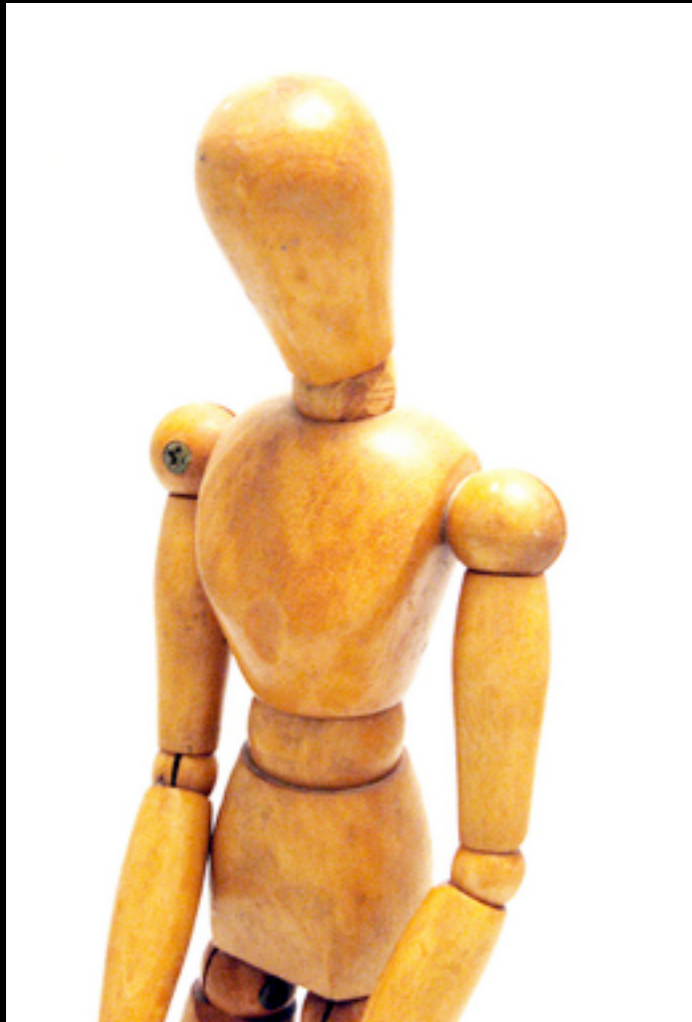
- Maven: Already improved in 1.5.x
- Refactor and repackage
- Sort out overlays
 - Need best practice examples!
 - Multiple overlays = unpredictable.
- Service managers and components

Solutions – Data

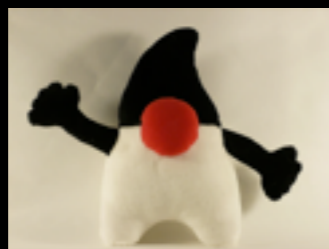


- Incremental migration
- New model alongside old data
- Augment data as required
- Move to new code

Solutions – One UI?



- Inevitably XMLUI / Manakin?
- Resolve differences in embedded logic
- Provide migration for customized JSPUIs
- Subcommunities?
- Address problems real and perceived
- Cookbooks



Solutions – Svc Platform



- Ensure DSpace 1.6 (2.0) Service framework stays current and plays well with others

Solutions – Dev Team

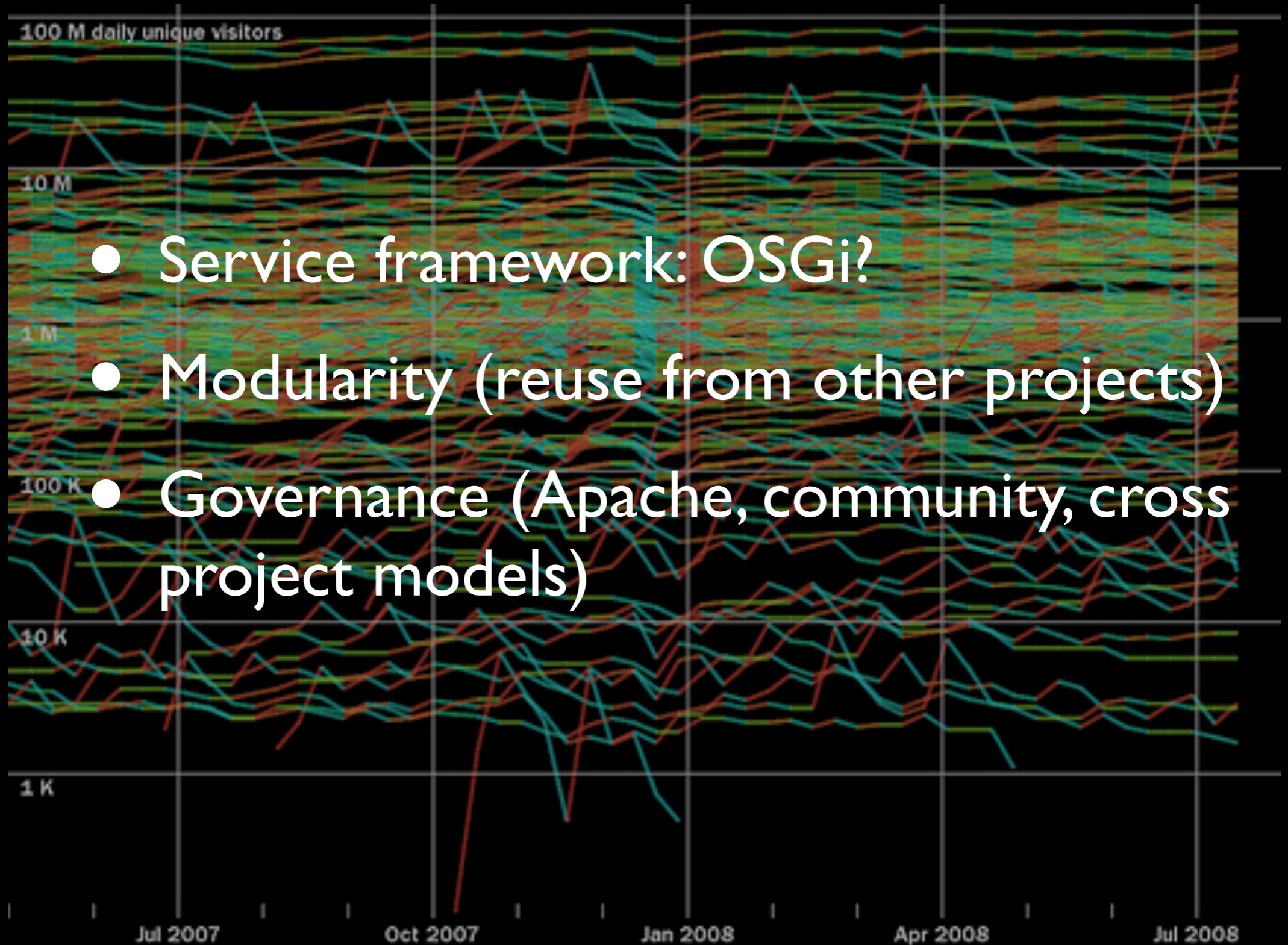
- Get more committers?
- less tech / specialists?
- Share more components
- Rely on adjacent teams
- Get more commitment?



2010



2010 - Trends



Governance

- Apache Model embraced by committers
 - Voting by “PMC”: -1, 0, or +1
 - Majority for procedural issues
 - Minimum of (3) +1 for releases
 - -1 can “Veto” a code change.
- Who becomes the PMC?
 - Default: existing committers

Opportunity

- Directions and technologies of DSpace and Fedora are similar
- Pause and look at possibilities
- Join together and avoid disparate development efforts



Proposal

- DSpace and Fedora committer communities consider and develop a recommendation for aligning and integrating the DSpace 2 and Fedora Repository efforts into a feature complete upgrade for turnkey institutional repository users.



TimeLine

- 4Q09 “Now”
 - DSpace 1.6 release
 - Release Manager for “next”
 - What goes in “next”
- 1Q10 “Develop”
- 2Q10 “Push to Release”
- 3Q10 ??



Links

<http://www.dspace.org>

<http://www.duraspace.org>

<http://www.apache.org/foundation/voting.html>

<http://www.apache.org/foundation/how-it-works.html>

<http://www.osgi.org/>

Want to Discuss?
After 1.6
(and into the evening)



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