Subversion Goodness = Single Repository

- No support for inter-repository operations
- … not even on same server
- … despite the lack of error messages.
Different repository = “Vendor Release”

Typical scenario
- Small patch or ongoing customization
- Infrequent releases from vendor

Details
- Other conference presentations
- Sakai Confluence
Vendor Drop

Local

Customization

Me

Vendor

Source for V1.1

Source for V2.1

svn_load_dirs.pl
Sakai Maintenance Branch
“Vendor Drop”

“Me” (Us)

“Vendor” (More of Us)

Local

Customization

Bug fix

Feature

Exported Rev 3753

Exported Rev 4215

Exported Rev 4039

Exported Rev 3920

“Me” (Us)

“Vendor” (More of Us)
BREAKDOWN!

- Extremely long times for all steps.
- Frequent script failures.
- Frequent bogus conflicts.
- High overhead on moves and renames.
- Patches are extra work and noise-prone.
Slim down with svn:externals

# Local customizations in local repo

# Modules in Contrib
discussion \ 
https://source.sakaiproject.org/contrib/deprecated/discussion/branches/sakai_2-5-x
opencast \ 
https://source.sakaiproject.org/contrib/ucb/webcast/.../

# Untouched modules in 2.5.x
access https://source.sakaiproject.org/svn/access/branches/sakai_2-5-x
alias https://source.sakaiproject.org/svn/alias/branches/sakai_2-5-x
...
Slim down with svn:externals

- Release management = externals management
- Specify revs or tags for local releases
- U. California, Davis, uses Groovy scripts to manage externals:
  
  https://confluence.ucdavis.edu/confluence/display/UCDSAKAI/Home
  
Slim down with svn:externals

“Me” (Us)

Customization

Bug fix

Feature

Local

“Vendor” (More of Us)

Exported Site Info

“Real” Chat

Exported Gradebook

“Real” Roster

Exported Content

“Real” Component

Exported DB

…
Sakai Goodness = Collaboration

Develop Locally. Merge Globally.

Sounds like Subversion branching….

http://thread.gmane.org/gmane.comp.cms.sakai.devel/19331

http://www.nabble.com/Re%3A-making-%22massively-inclusive-Subversion%22-happen-td17105598.html
Collaborate in Single Repository

Our work on Sakai

- Customization
- Bug fix
- Feature
- Local

Rest of Sakai

- Site Info
- Chat
- Gradebook
- Roster
- Content
- DB
- Component

Branch
Collaborate : Customization

# Check out bspace branch for site-manage
svn co \
https://source.sakaiproject.org/svn/bspace/site-manage/sakai_2-5-x \
site-manage

svn merge -r 47112:47600 \
https://source.sakaiproject.org/svn/site-manage/branches/sakai_2-5-x \
site-manage

# Deal with any conflicts, then merge for QA.
# Enter Sakai JIRA.
# Create local branch.
svn mkdir …/bspace/gradebook
svn copy …/gradebook/branches/sakai_2-5-x …/bspace/gradebook
# Check out bspace/gradebook, create failing test, fix bug, commit.
# Switch local “svn:externals” to local branch and test in QA.
# Merge from local branch to checkout of trunk and fix any conflicts.
svn merge –c 47111 …/bspace/gradebook/ \\
[working-copy]/gradebook/trunk
# Update JIRA and request merge from local branch to trunk:
svn merge –c 47111 …/bspace/gradebook/ ../gradebook/trunk
Collaborate: Multi-Project Feature

# Create feature branch.
svn mkdir .../bspace/SAK-13398
svn copy .../content/trunk .../bspace/SAK-13398
svn copy .../db/trunk .../bspace/SAK-13398

# Develop and test locally. Commit local branch.
# If possible, deploy locally by merging to 2-5-x branch and editing svn:externals.
# Test merge from local branches to check-out of trunk.
svn merge -r45798:46217 .../bspace/SAK-13398/content content
svn merge -r45798:46217 .../bspace/SAK-13398/db db

# Request merge to trunk.
Collaborate : The Future

- Seth Theriault leading effort to enable top-level “institution” area
- Community must supply administrators and other resources

http://bugs.sakaiproject.org/confluence/display/MGT/Subversion+and+Maven+changes