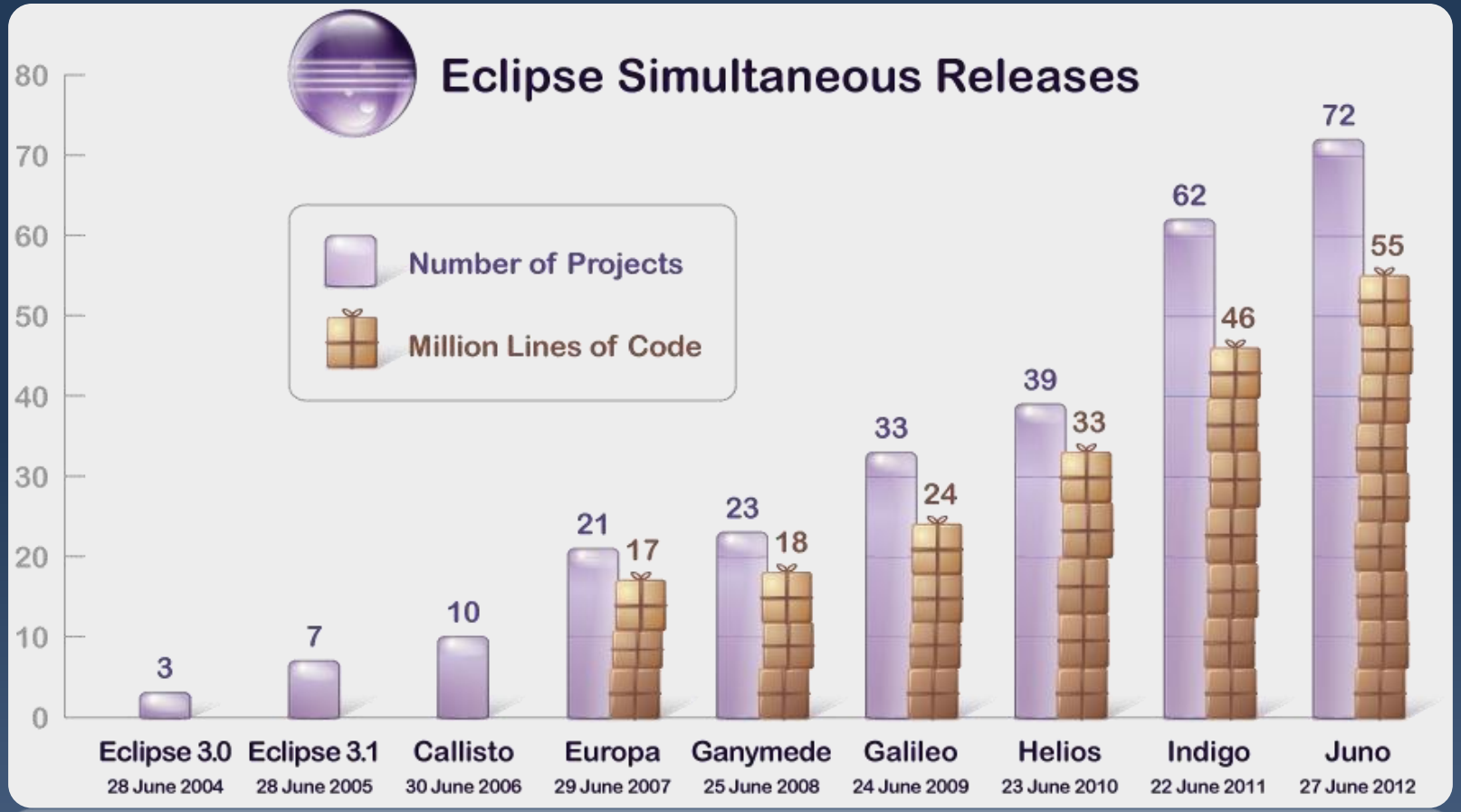
Tasktop®

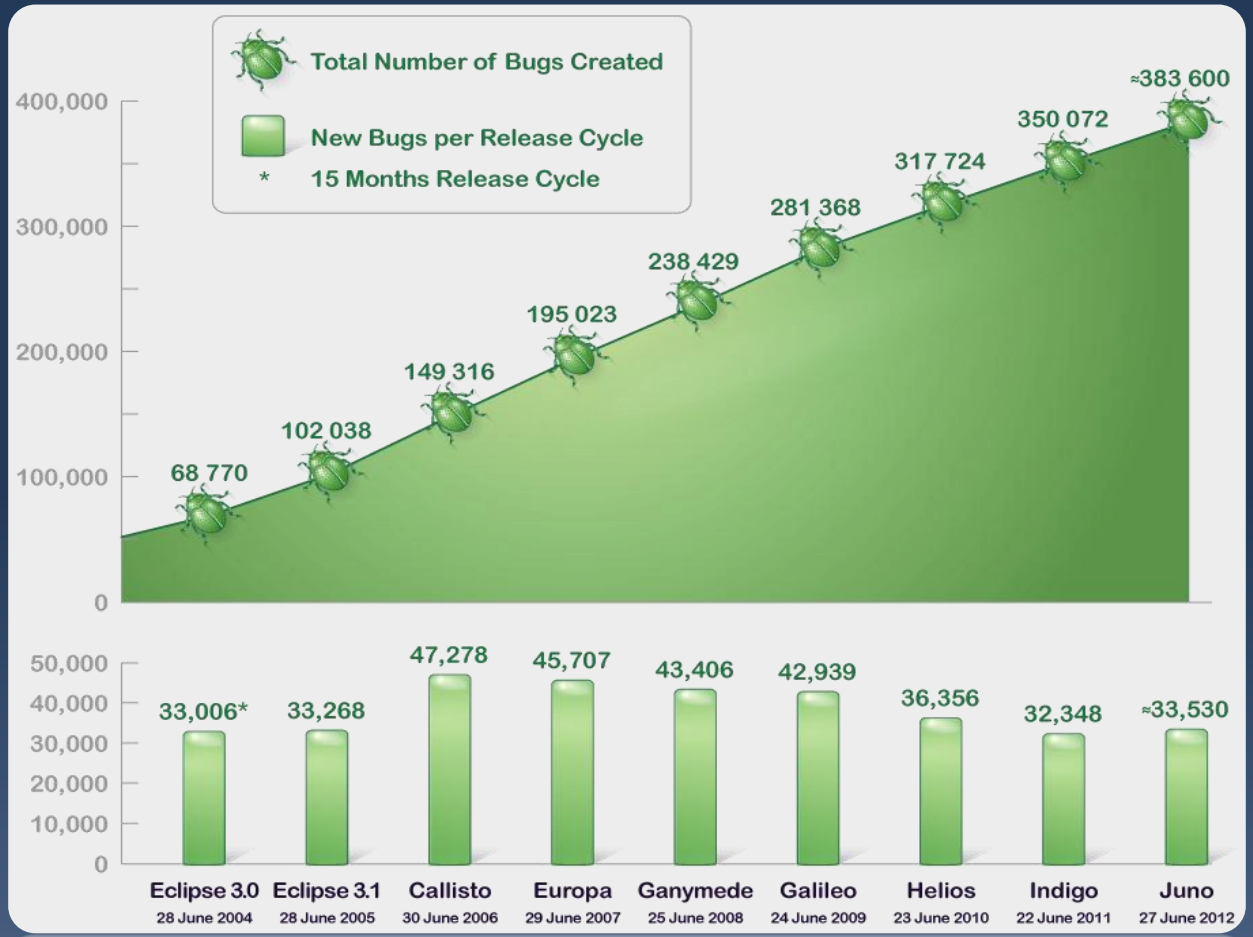
Connecting the world of software delivery

© Tasktop 2012

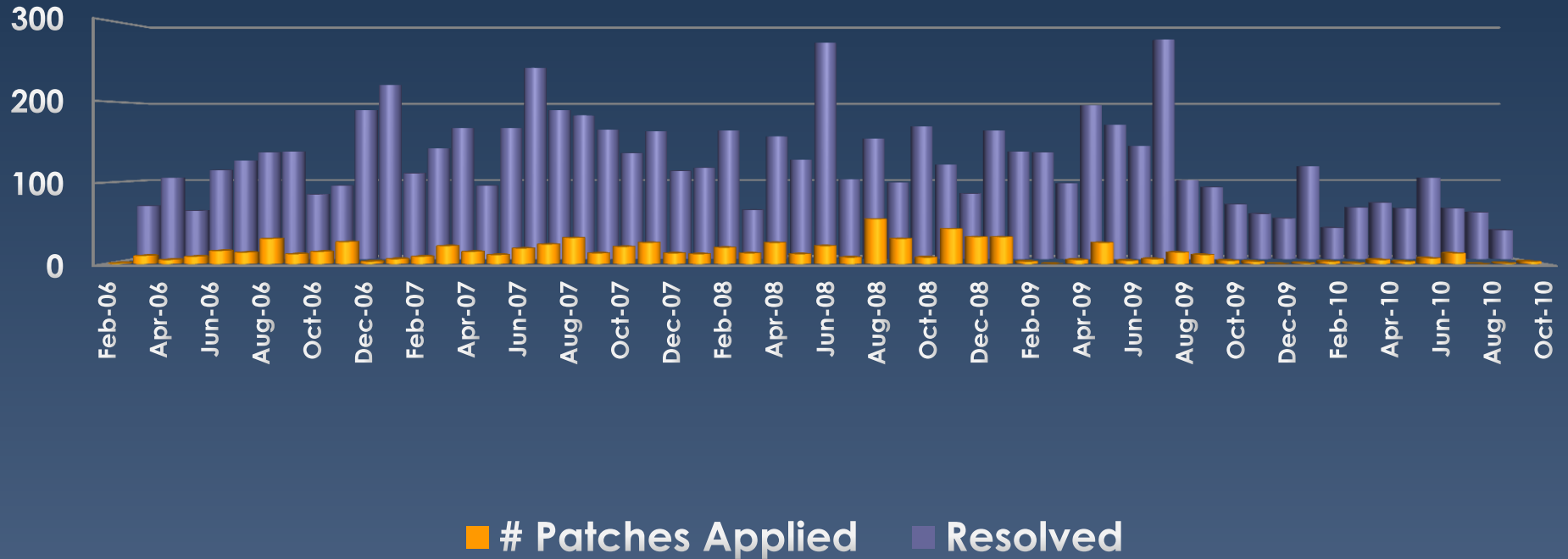
Gaining traceability in the world of Agile ALM stacks

@bmuskalla


Eclipse Simultaneous Releases
Number of Projects
Million Lines of Code
80
70
60
50
40
30
20
10
0
3
7
10
21
17
23
18
33
24
39
33
62
46
72
55
Eclipse 3.0
28 June 2004
Eclipse 3.1
28 June 2005
Callisto
30 June 2006
Europa
29 June 2007
Ganymede
25 June 2008
Galileo
24 June 2009
Helios
23 June 2010
Indigo
22 June 2011
Juno
27 June 2012


Total Number of Bugs Created
New Bugs per Release Cycle
* 15 Months Release Cycle
400,000
300,000
200,000
100,000
0
68 770
102 038
149 316
195 023
238 429
281 368
317 724
350 072
≈383 600
50,000
40,000
30,000
20,000
10,000
0
33,006*
33,268
47,278
45,707
43,406
42,939
36,356
32,348
≈33,530
Eclipse 3.0
28 June 2004
Eclipse 3.1
28 June 2005
Callisto
30 June 2006
Europa
29 June 2007
Ganymede
25 June 2008
Galileo
24 June 2009
Helios
23 June 2010
Indigo
22 June 2011
Juno
27 June 2012

Mylyn Bugzilla



Source: Eclipse.org

© 2011 Tasktop Technologies

Tasktop®

Contribution Workflow

How is this?

Apply Patch
Compile
Test
Review

Approved!

Integration tests failed! Oops.

Apply Patch
Compile
Test
Review

Awesome! Committed.

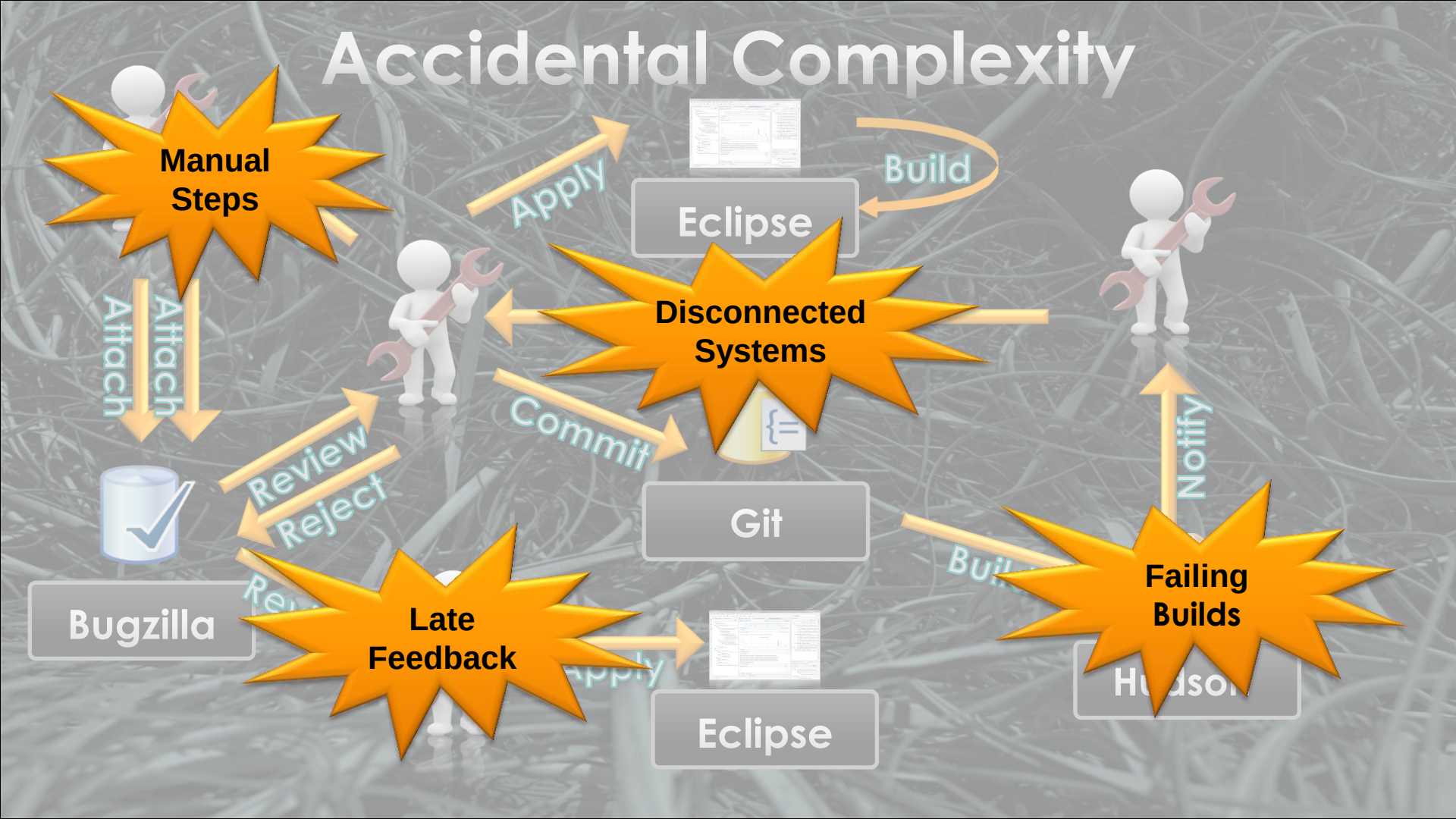
Look good. Dude, can you verify?

Bugzilla

Git

Hudson

Accidental Complexity

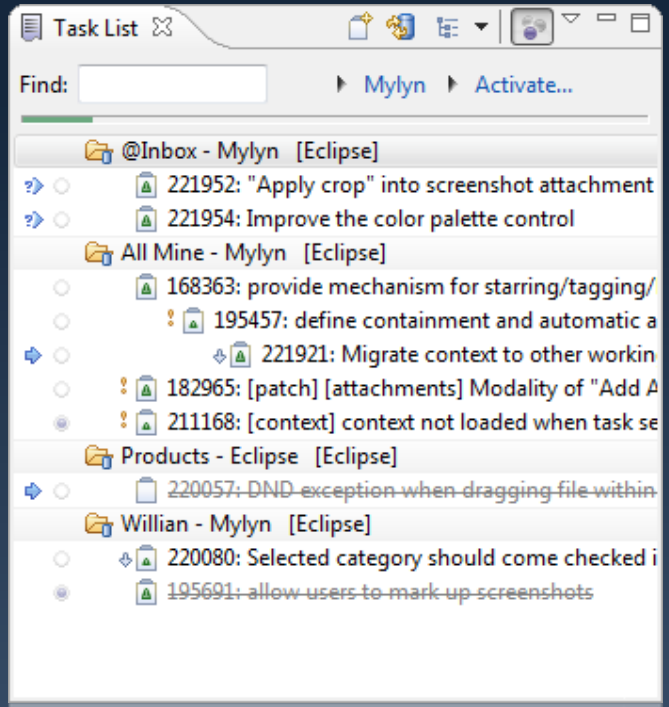


Friction + Distraction = :-(

Flow + Focus = :-)

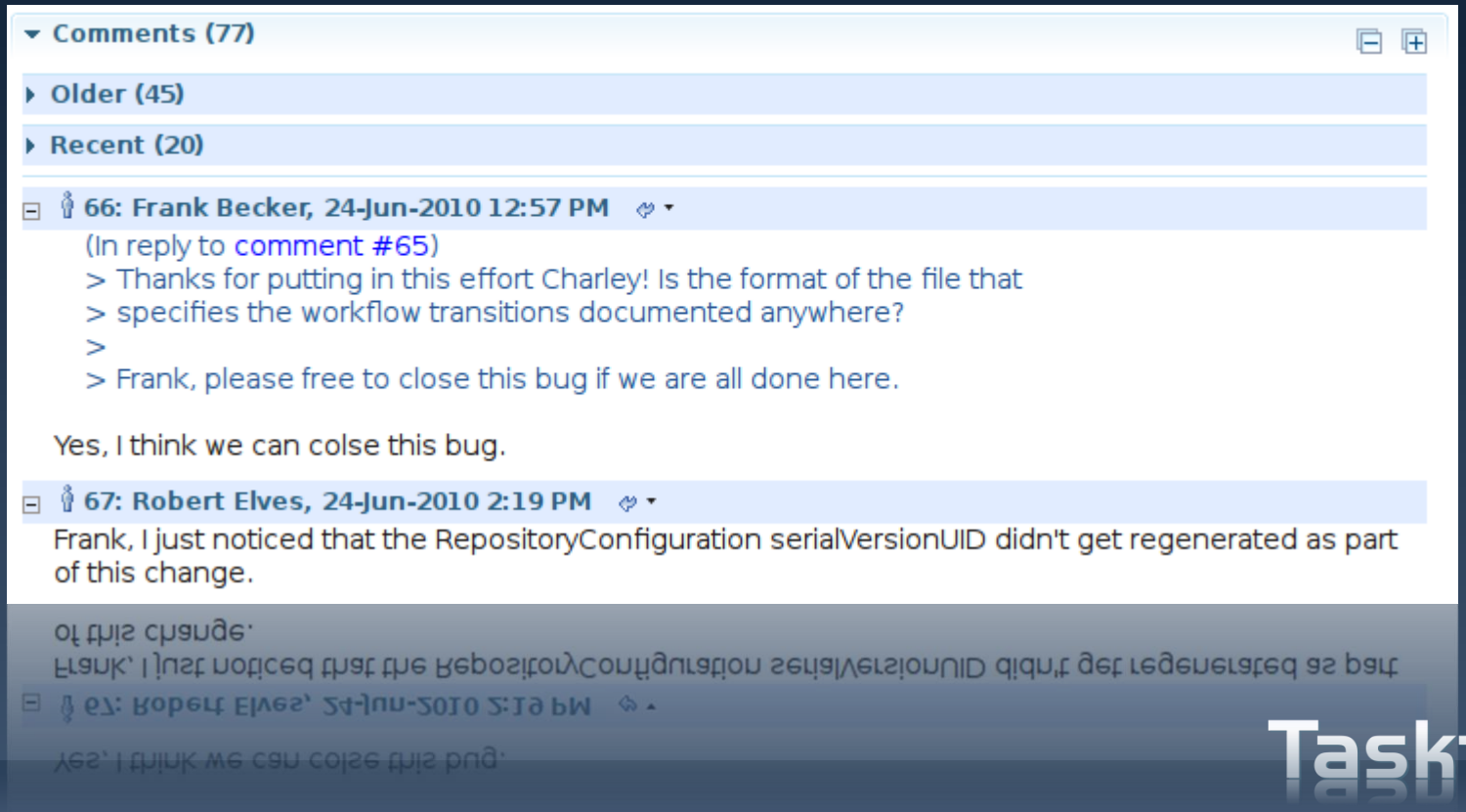
Tasktop

Mylyn – From tasks…



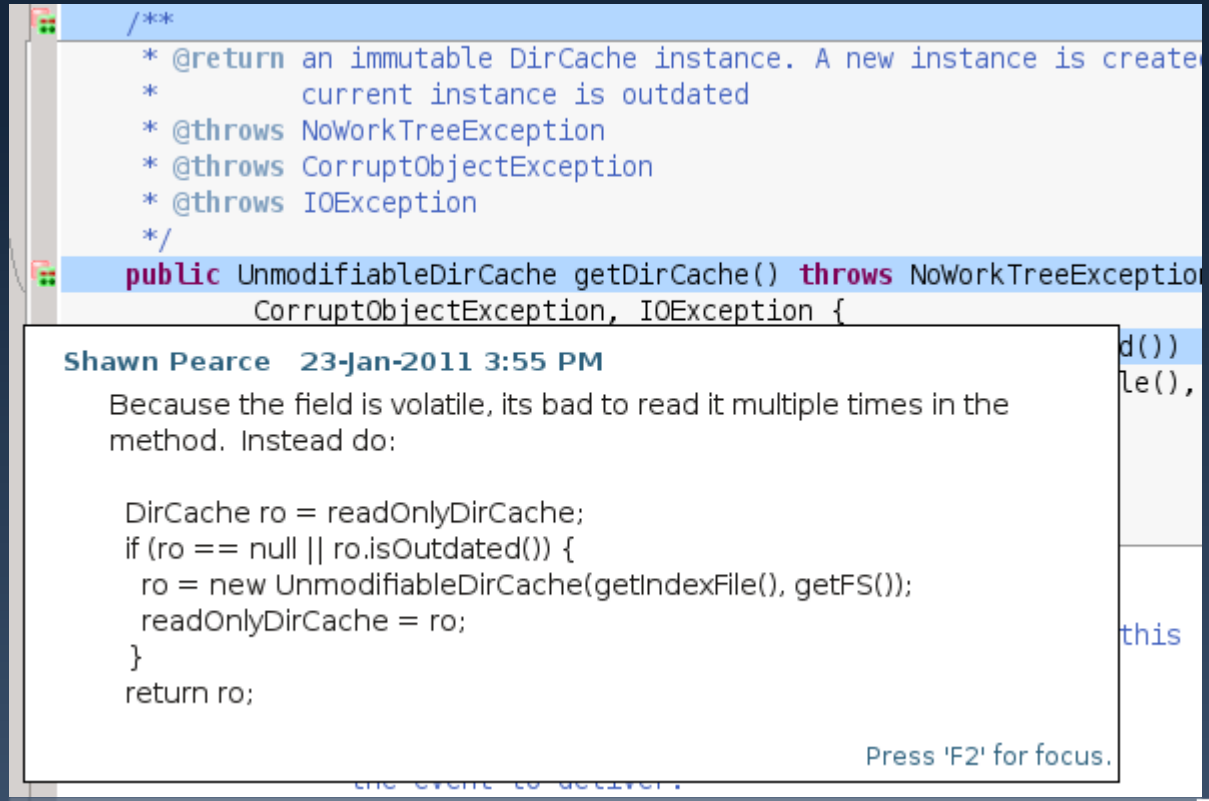
Tasktop

…over collaboration…



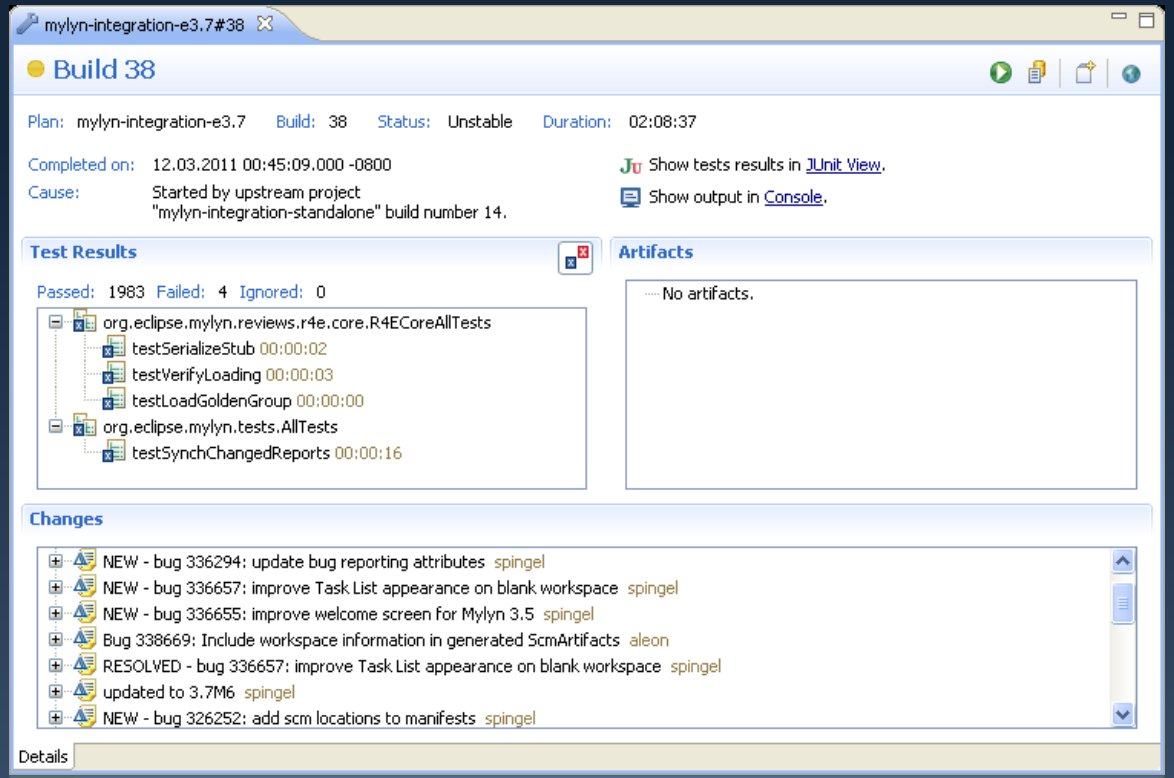
Tasktop

...doing code reviews...

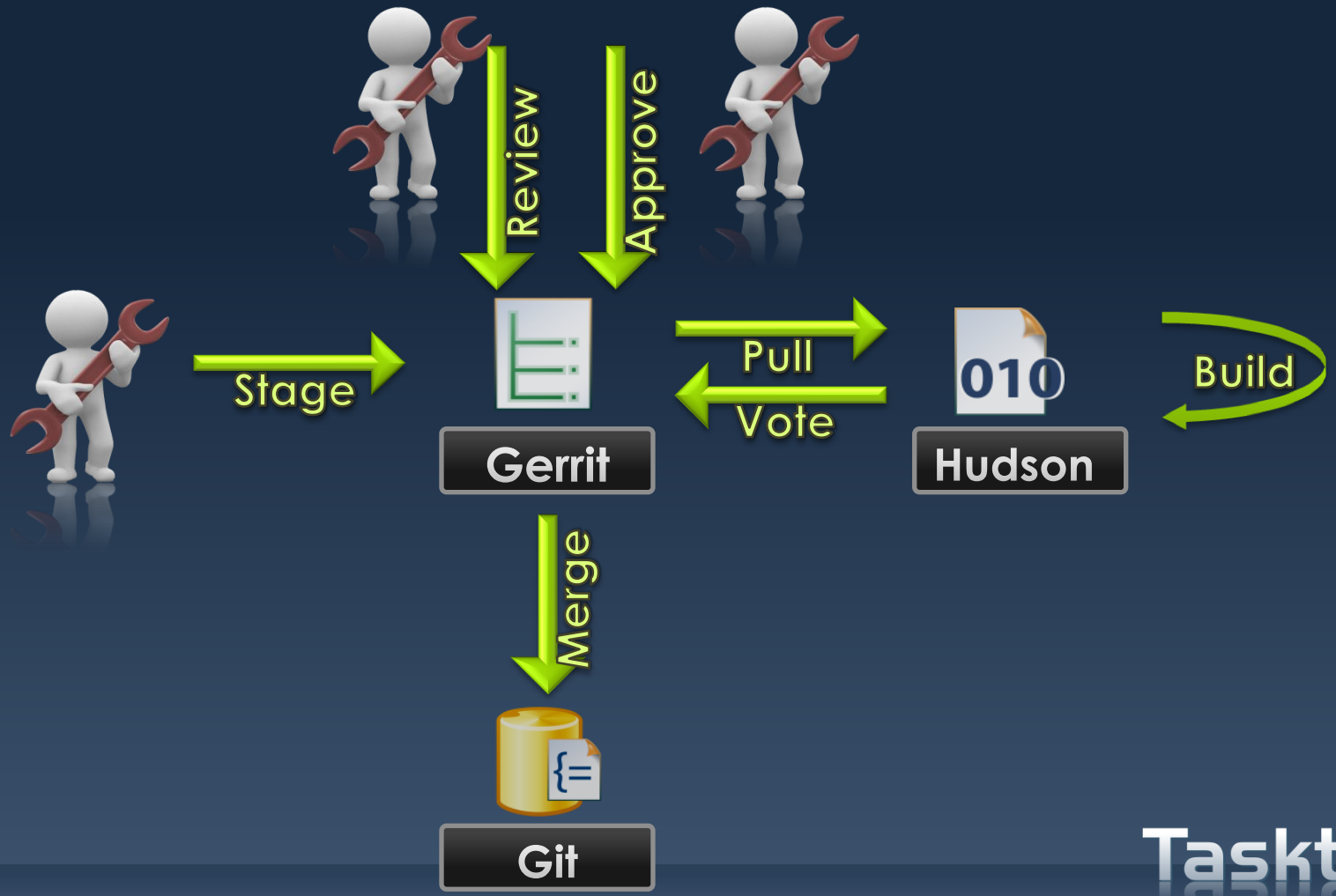


Tasktop

to continuous integration!



Tasktop


Review
Approve
Stage
Pull
Vote
010
Build
Gerrit
Hudson
Merge
Git

Mylyn - Application Lifecycle Tools

Tasks — Bugzilla — Trac — OSLC

Context — Java — C/C++

Versions — CVS — Git — OSLC

Docs — WikiText — RichText

Builds — Hudson — OSLC

Reviews — Gerrit

Tasktop

Git – 60M LOC

Bugzilla – 380K tasks

Hudson – 350 jobs

Gerrit – 8000 reviews

Ops – 35TB/month

ALM at Eclipse

Developer Populism

I use to tell my developers what tools to use, but now they are increasingly telling me. Next thing you know I will be letting them bring their own laptops into work!

CIO, Large Financial Company

Tasktop

Development

Issue Tracking (CM)

SCM

CI

IDE

Tasktop

Application Lifecycle Management (ALM)

- Requirements Management (RM)
- Agile Planning
- Quality Management (QM)

Development

- Issue Tracking (CM)
- SCM
- CI
- IDE

Project and Portfolio Management

CA Clarity

HP PPM

Application Lifecycle Management (ALM)

Requirements Management (RM)

Agile Planning

Quality Management (QM)

Development

Issue Tracking (CM)

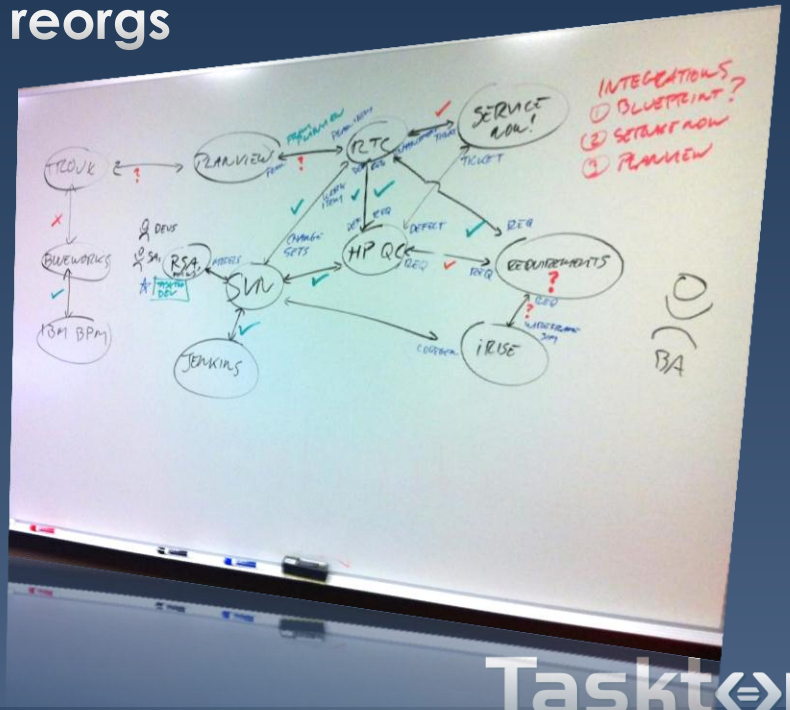
SCM

CI

IDE

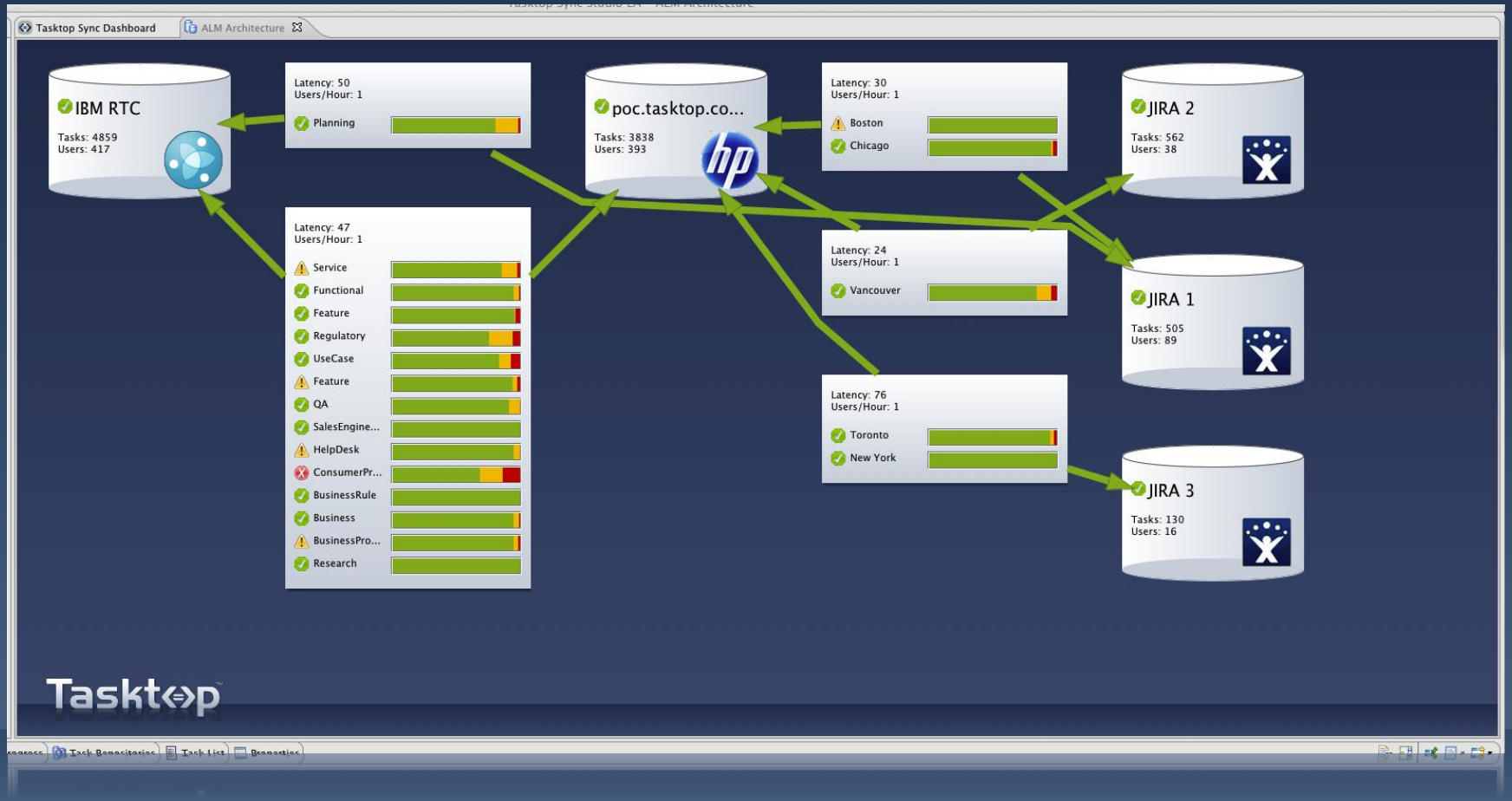
ALM Strategy

- Heterogeneous ALM stack is reality
  - Best of breed / acquisitions / reorgs
- Integrate or die
- Get connected
  - Eclipse Mylyn
  - OLSC



Tasktop®

Real world is messier

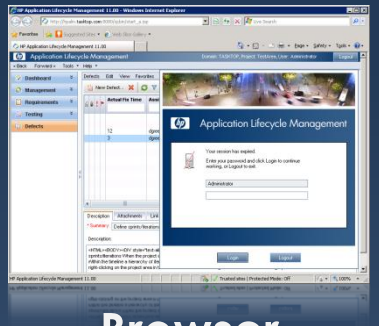


Agile Plans
Traditional Requirements
Mylyn
OSLC/Lyo
Tasks
Sources
1.1
Builds
Tests

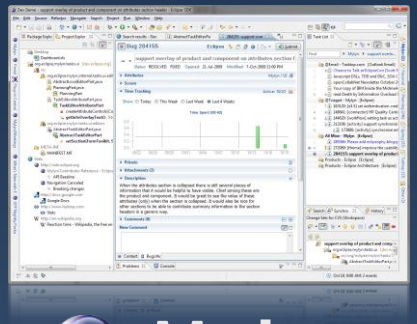
Tester

Developer

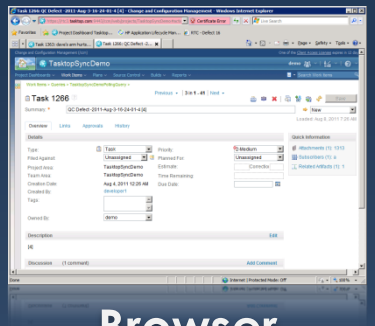
Manager



Browser



Mylyn



Browser

Tasktop

Mylyn ecosystem

Enterprise ALM

Agile Vision
Product Vision

RTC, RRC
ReqPro,
ClearQuest

HP ALM, ALI,
Quality Center

Microsoft
TFS

Agile ALM

More

SmartBear

Perforce

CollabNet

Bugzilla

Trac

Mantis

Subversion

Git

CVS

Hudson

Jenkins

Questions?

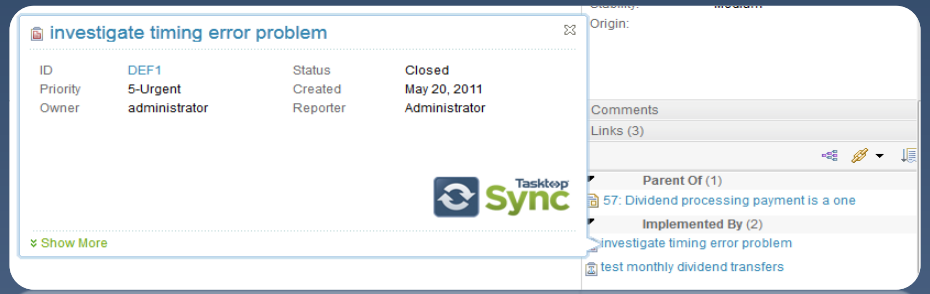
eclipse.org/mylyn

tasktop.com

OSLC Integration

- Open Services for Lifecycle Collaboration
- Linking data through HTTP
  - HTTP
  - RESTful based CRUD
  - RDF / Linked Data
- Linking data through HTML
  - Link to a new or existing resource
  - Preview resource in another tool

```
<?xml version="1.0" encoding="UTF-8"?>
  <rdf:RDF xmlns:rdf="http://...">
    <oslc_cm:ChangeRequest rdf:about="http://....">
        <rdf:type rdf:resource="http://...#ChangeRequest" />
        <dcterms:identifier> 00002314 </dcterms:identifier>
        <dcterms:title> Invalid instructions </dcterms:title>
    .
    .
    .
      </oslc_cm:ChangeRequest>
  </rdf:RDF>
```



Tasktop