Getting to one button deploy using **KANBAN**

by Dominica DeGrandis

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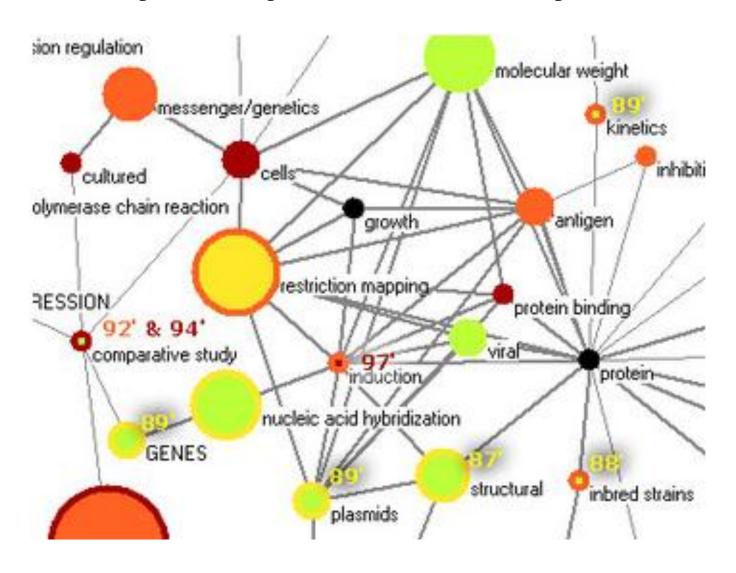
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Management Solutions for Knowledge Workers

"So – just when can we upgrade SQLServer on the DB servers?"

Crazy complicated DB system



Off-the-shelf software customized to the point of no return



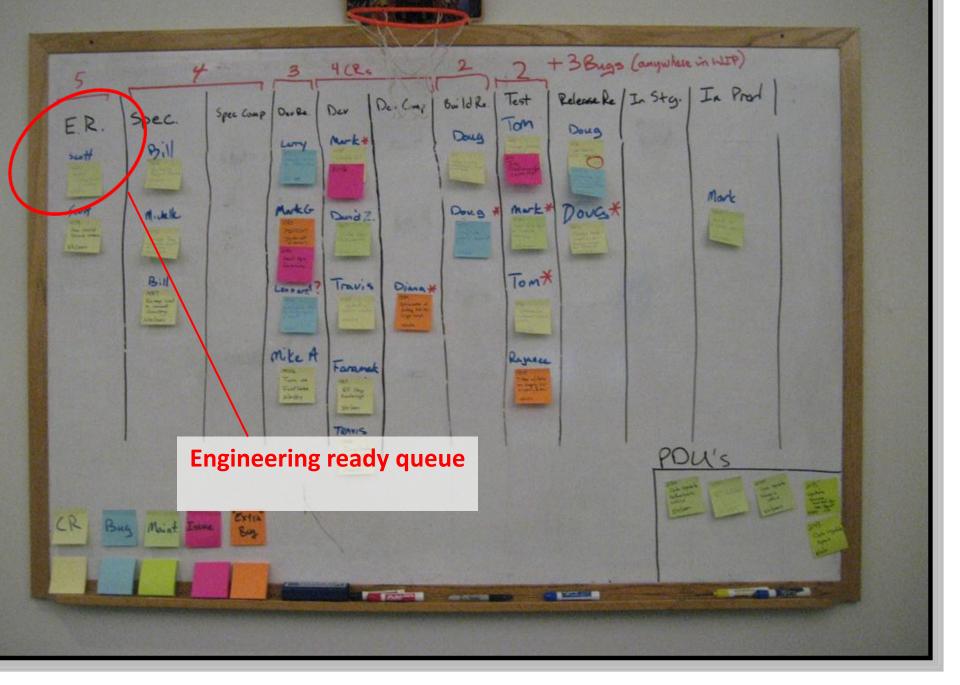
"What does it take to get recent data in test?"

"Don't hate me, but... the data is out of sync in test!"

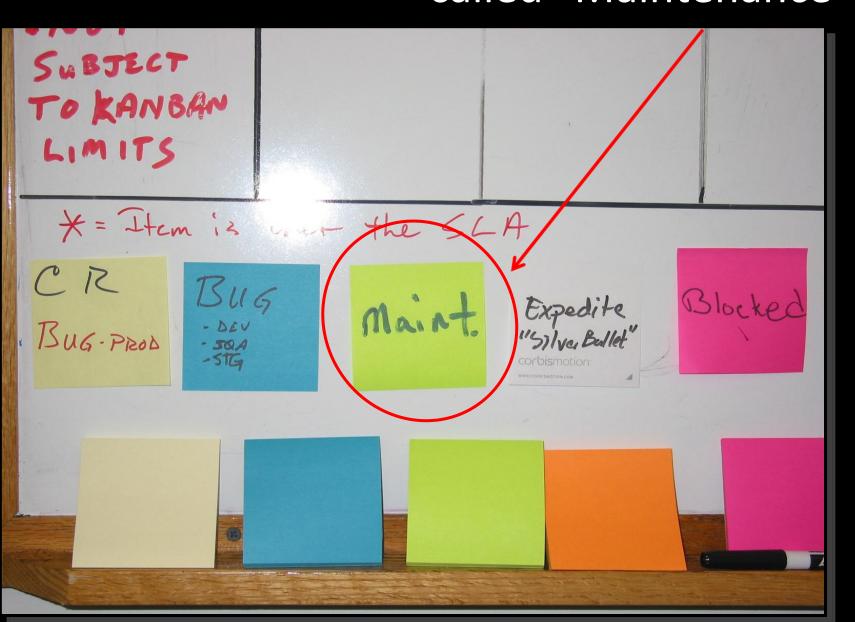




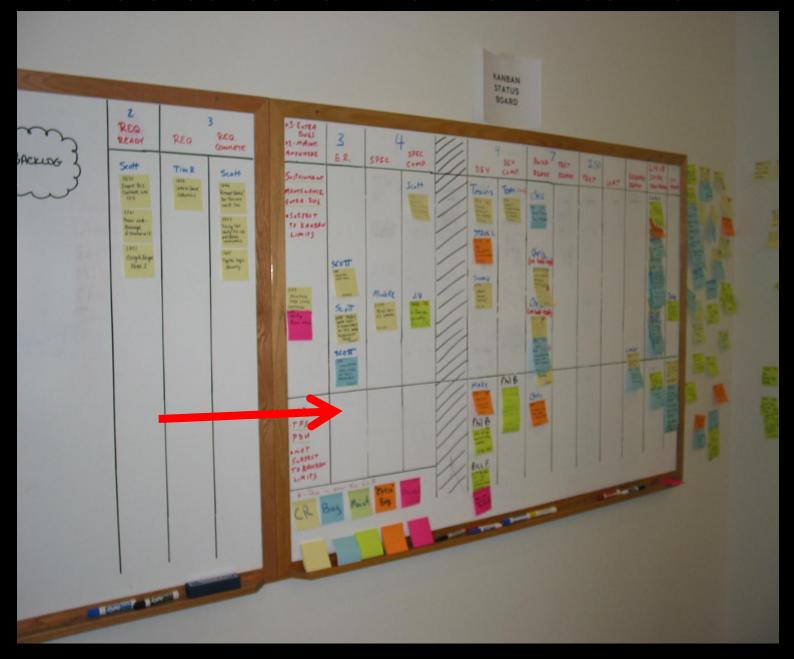
"Actually, mine should go next!"



New intangible work item type created called "Maintenance"

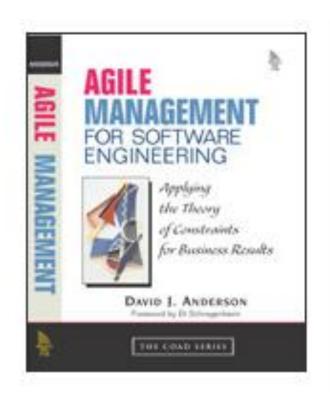


Swim lane created for maintenance work



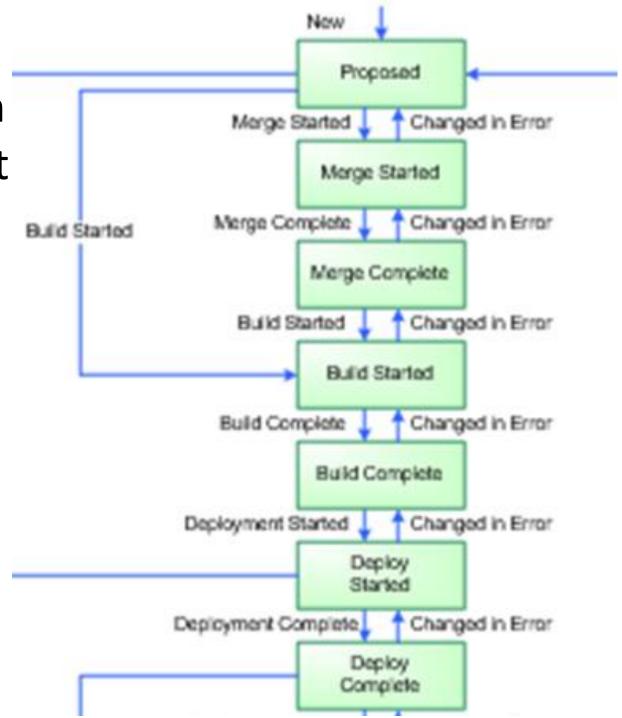
"Dude, It's really not a configuration issue."

David Anderson comes to Corbis

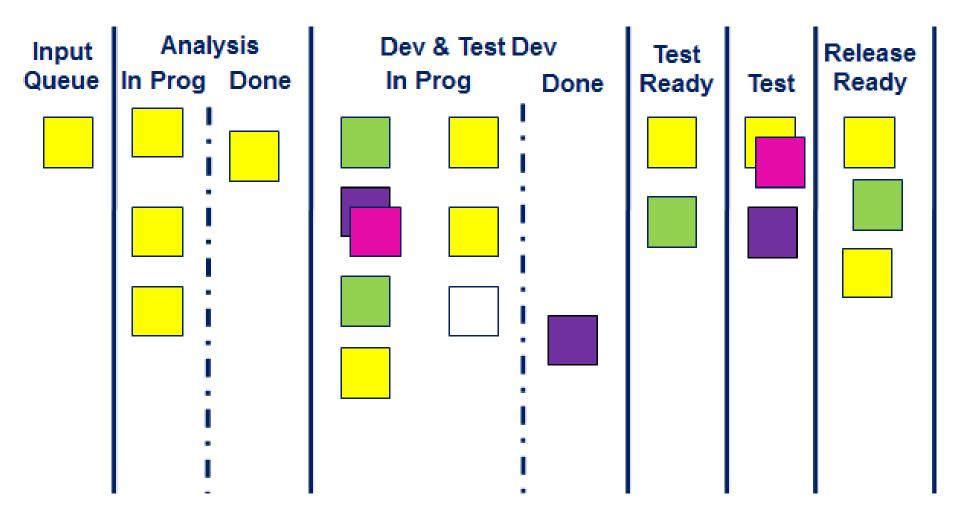


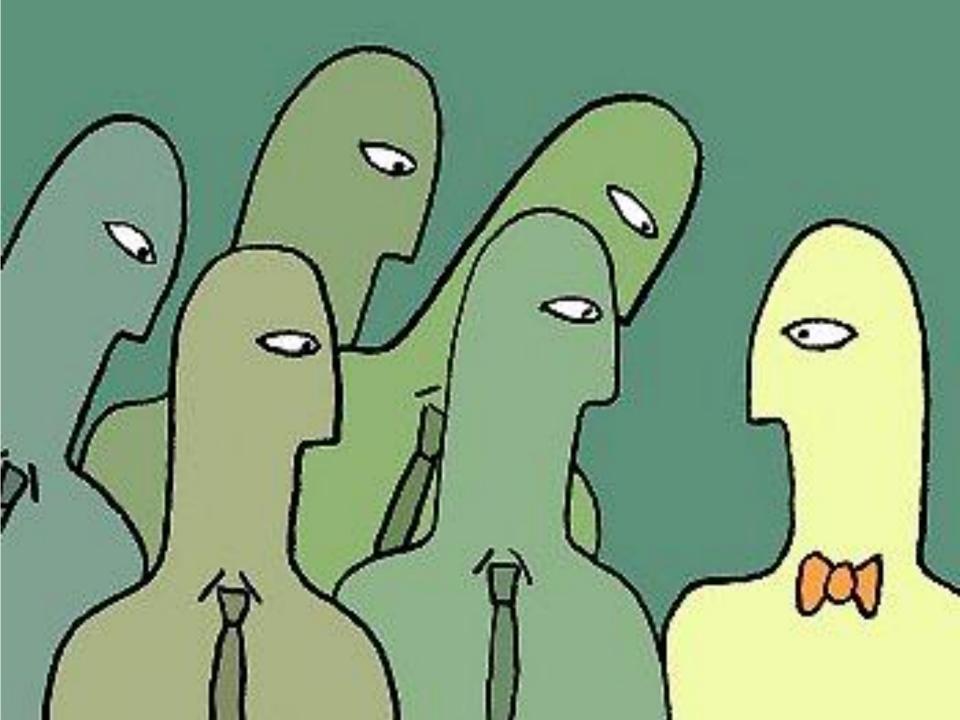
Featured Driven Development (FDD)
Eli Goldratt's "Theory of Constraints"

Configuration
Management
state model

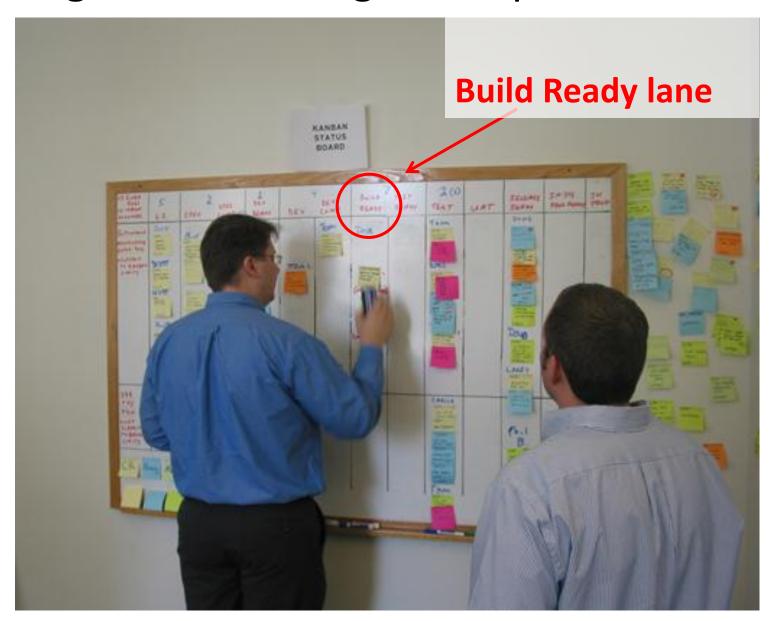


Um, where is Configuration Management?





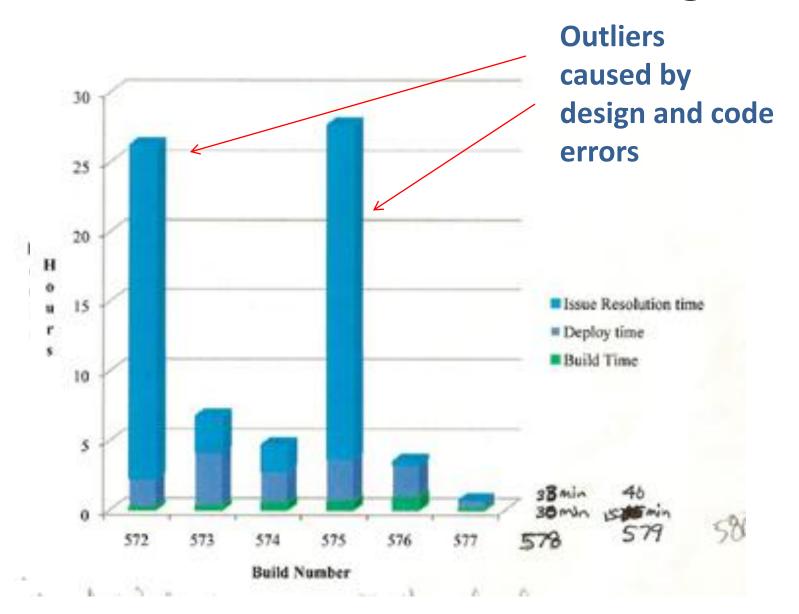
Configuration Management part of the team



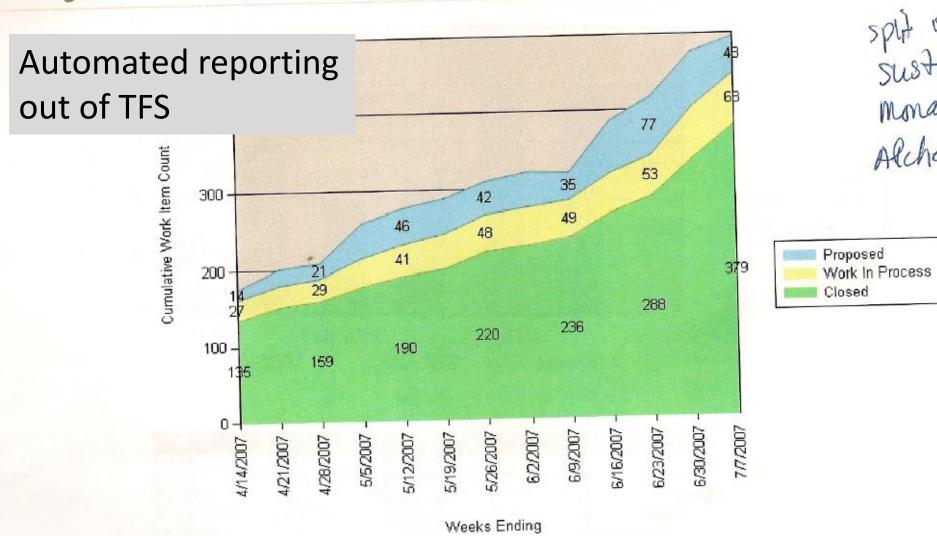
Configuration Management website

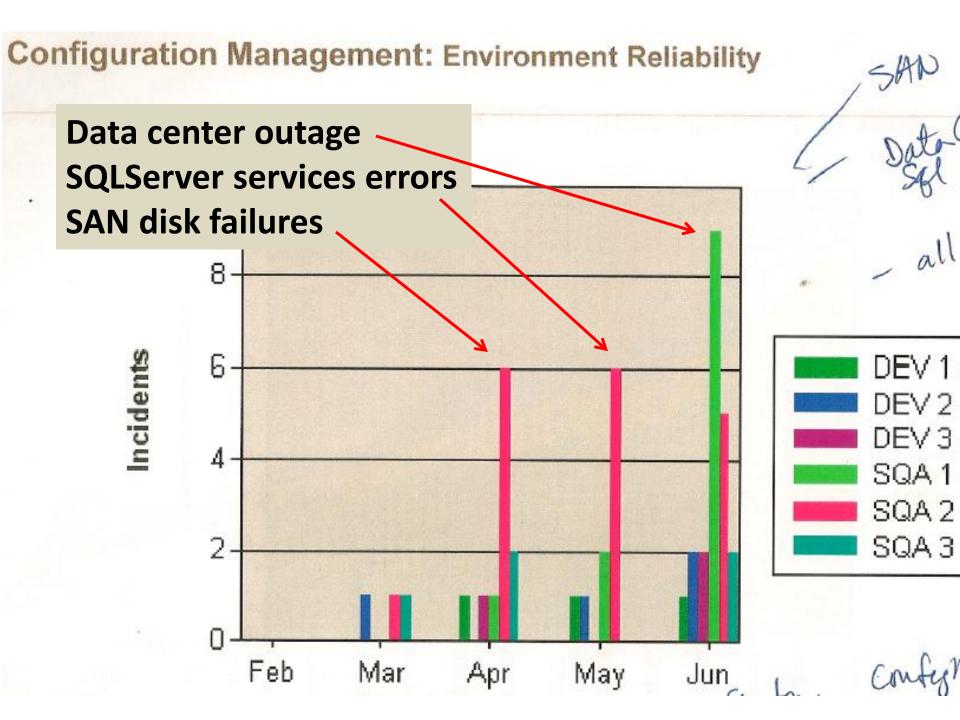


Builds don't take that long



Configuration Management: Work In Progress spiked up in June





Configuration Management: Environment availability increased.

Added SQA3 Insufficient disk space on sql servers.

DEV2 Insufficient disk space on sql server.

SQA1 – SQL server issues with failed replication and DBs not installed.

TFS – bad switch port caused connection issues for 90 min.

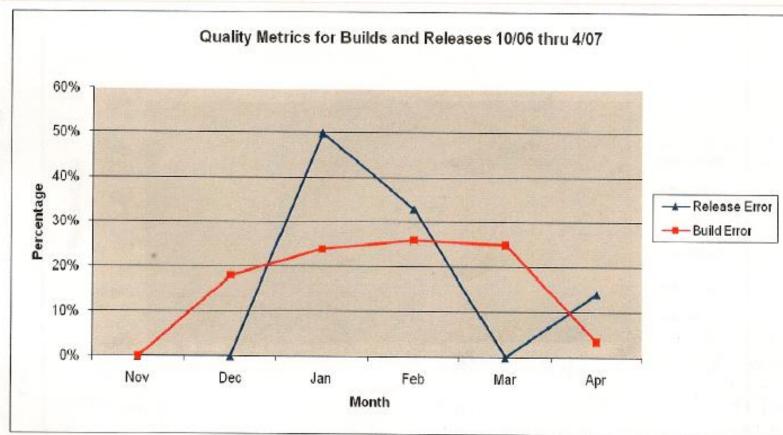
Build box – insufficient disk space



Manually created slides may seem like a burden, but resulted in us getting help and budget.

Configuration Management: Build Quality is improving but Release quality is not.

- Production release error: ExternalUI step missing in base install doc causing website to not run http compressn.
- Merge issues
 Shelvesets in wrong codeline, mi ssing shelvesets unresolved conflicts

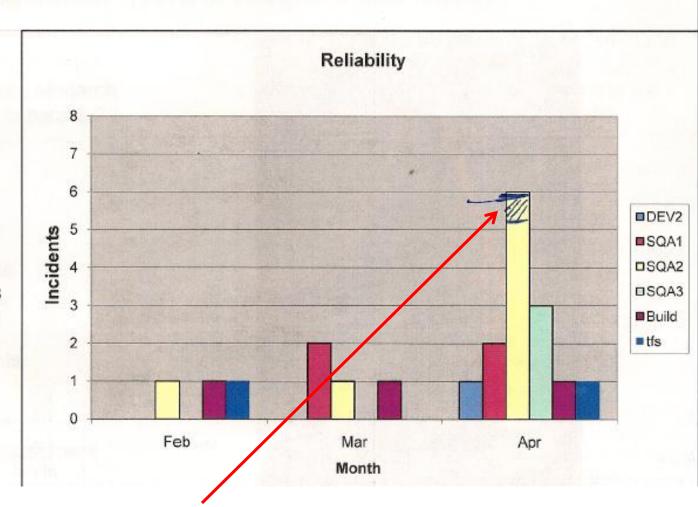


Configuration Management: The number of environment incidents increased.

Increased incidents due to capturing data from sqa3 and the team actually logging issues in TFS.

SQA3 – Server issues with disk space

SQA2 – Environment issues with pools, permissions and config settings.



Configuration issue in web.config

"um, It's Thanksgiving Eve and you want me to do what?"

"We would be hosed without you"

The Night Owl

Positive Punishment?

Quality doesn't happen on 5 hours of sleep.



Bi-weekly release cadence Overtime decreased Heroic efforts not needed anymore.

Production deployments over time evolved into a non-event.

Other contributors:

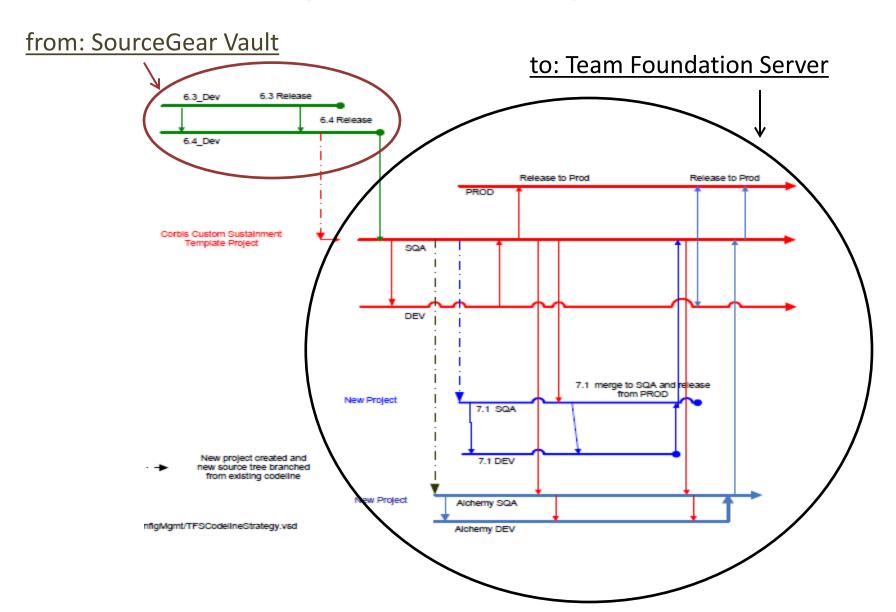
Development standards included backwards compatibility.

The test team began to accept latent code patterns ("feature switches").

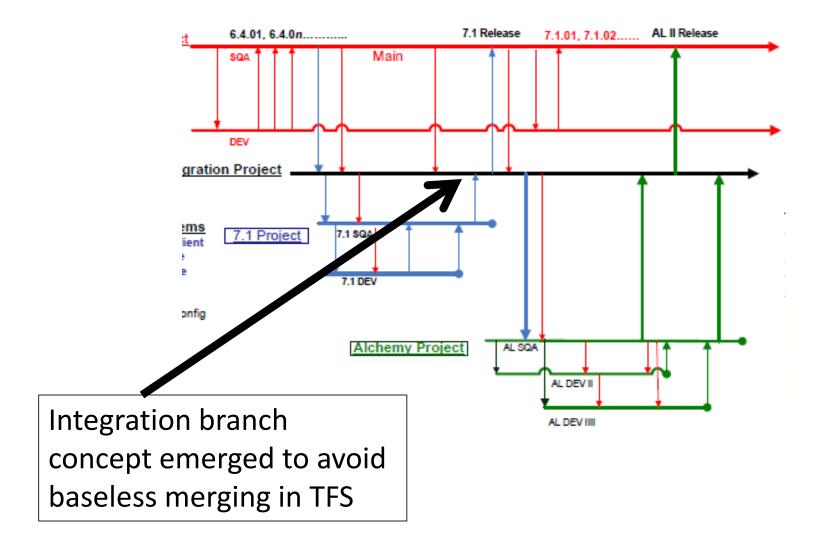
Merge issues became less frequent.

"M" is for Merge

Codeline Migration Strategy - Oct 2006



Codeline strategy - Dec 2006

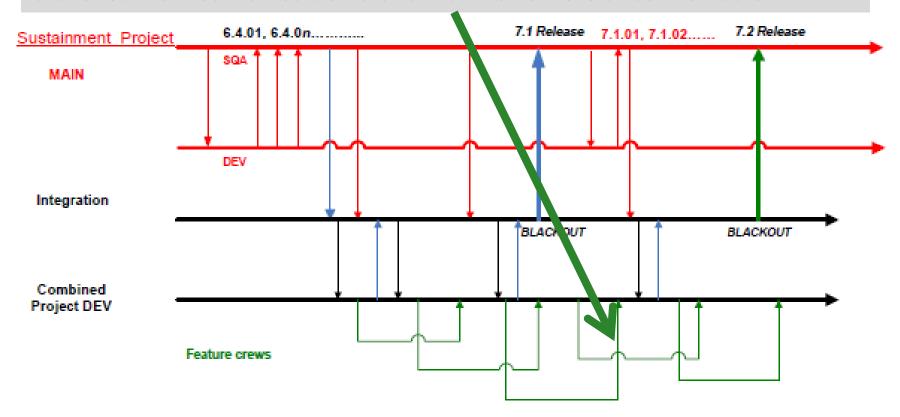


Codeline strategy - Jan 2007

Major Merge issues reported at Ops reviews

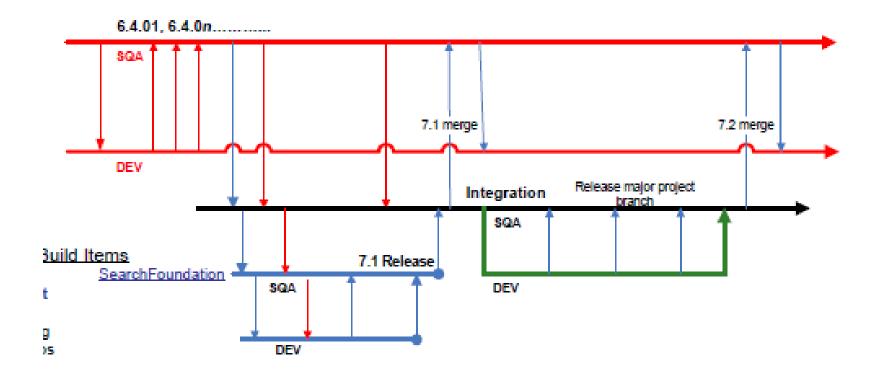
Merging consumed more capacity than development.

Experimented with Feature crew branches for large project work all branched from combined dev branch but folks were uncomfortable with it.



Codeline strategy – July 2007

Major Merge issues reported at Ops reviews Merging consumed more capacity than development.



Merge Policy documented but not made explicit enough

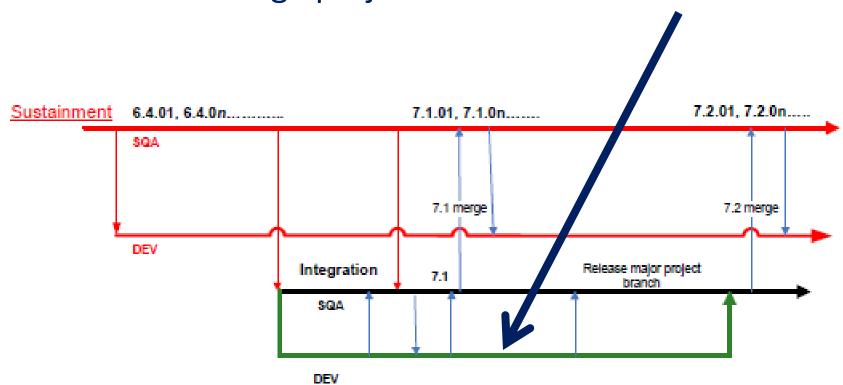
Corbis Code Line Guidelines



Check-in, Shelving and Merge Guidelines

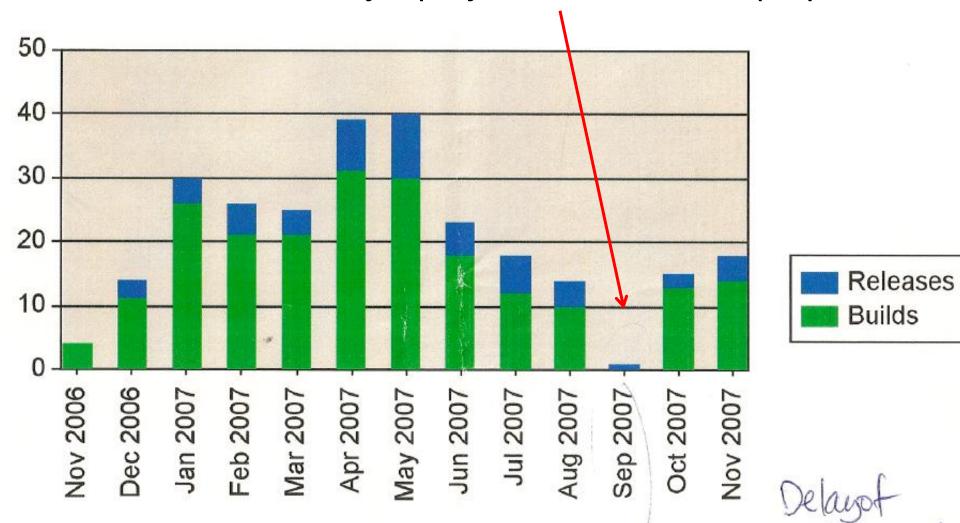
Codeline strategy - Sept 2007

Large project Dev branches combined

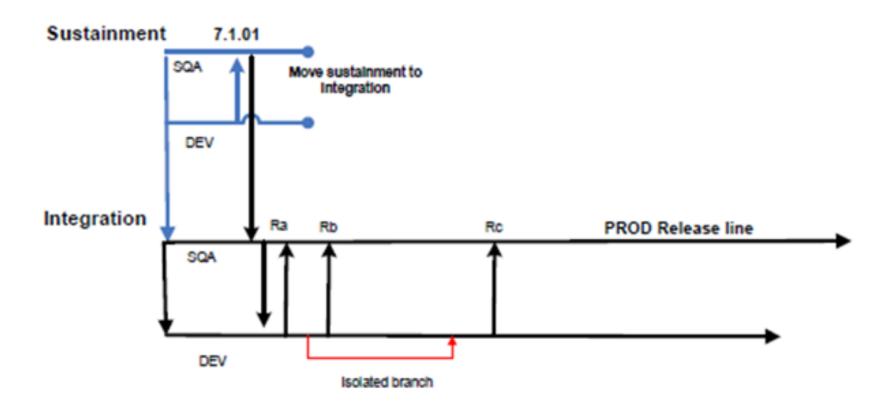


Sustainment releases stuck waiting a release.

The approach used to branch the code prevented check-ins until the major project release was deployed.



Codeline Strategy – Oct 2007



Those tricky environment specific config files

Production Release Issues log

RRT 8.1.18 - Prod release error due to password error in MediaSuite WCF service for Marketing collections DB connection string. This also occurred with a prior release too."





9:30 standup every morning

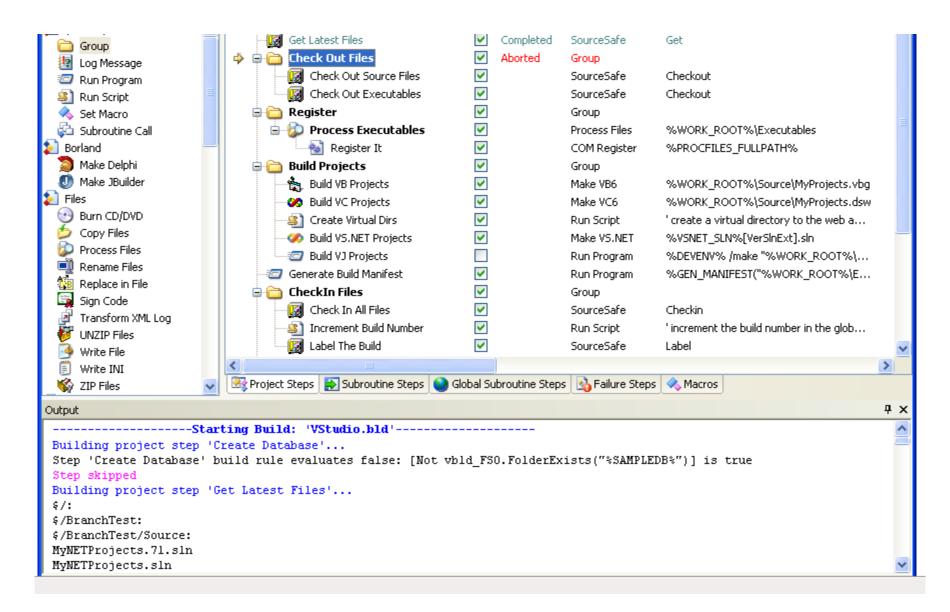


If interested, be there



The Transition from manually triggered builds to Continuous Integration

Automating builds and deployments

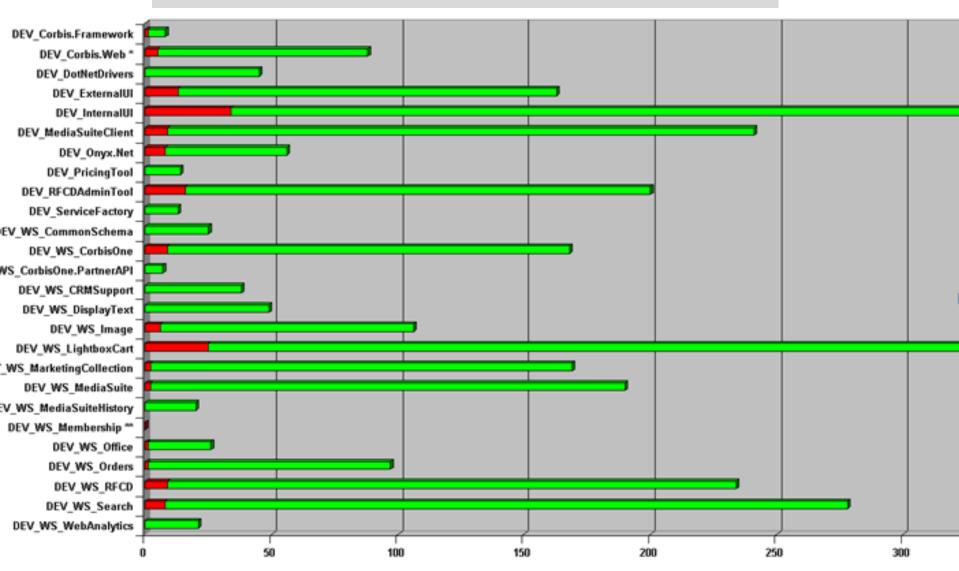


Automated testing was seen as too expensive



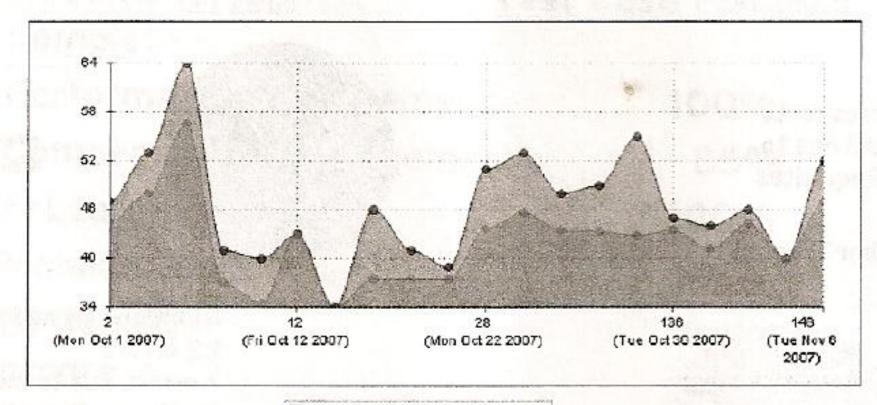
Someone was smart enough to collect and present some vital data on the "cost of delay" from developers who were unable to see the impact of their changes quickly enough.

Continuous Integration reporting



Configuration Management: Build Duration

Build Duration

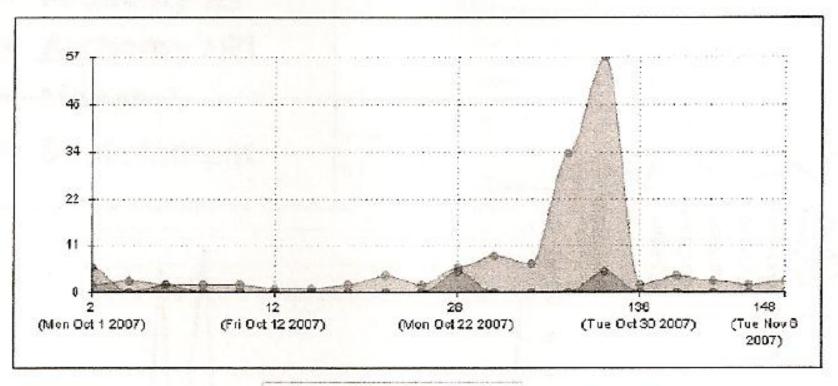


Max Duration (seconds)

Average Duration (seconds)

Configuration Management: Build Quality Reporting available thru Cruise Control

Build Report



Successful Builds
Failed Builds

"What would it take to get rid of

the 3 day freeze?"



Joking around after release, "Remember when it took all weekend to do a release?"



no heroics needed no overtime no chaos

Spontaneous meeting after standup

Not breaking the WIP limit provoked conversations which led to improvement.



Configuration Management reporting demonstrated incremental improvements over time



For much of 2007, CM reporting consisted mostly of problems.

By 2008, CM reporting consisted mostly of improvements.

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