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Realities can stall software-driven innovation

Complexities in software delivery compounded by market pressures

Complex, Multi-platform Systems and Applications

62% of companies have agile projects requiring integration with legacy systems

Increasing **Mandates**

2010 Spending in U.S. on governance, risk and compliance was \$29.8 billion

Globally Distributed Software and Product Supply Chains

50% of outsourced projects are expected to under perform

Cost Reduction

70% budget locked in maintenance and **37%** of projects go over budget

Unpredictability in Software Delivery

62% of projects fail to meet intended schedule

Changing Requirements and Time to Market

30% of project costs are due to rework and poor execution of requirements





Anytime, for any team, silos inhibit software delivery productivity

People Best practices Data **Tools**

Decide

. Business

"At some point, you take a step back, and you realize you have an awful lot of Siloed systems that are limiting transparency across strategic projects."

> - Development Director Temenos, Inc.

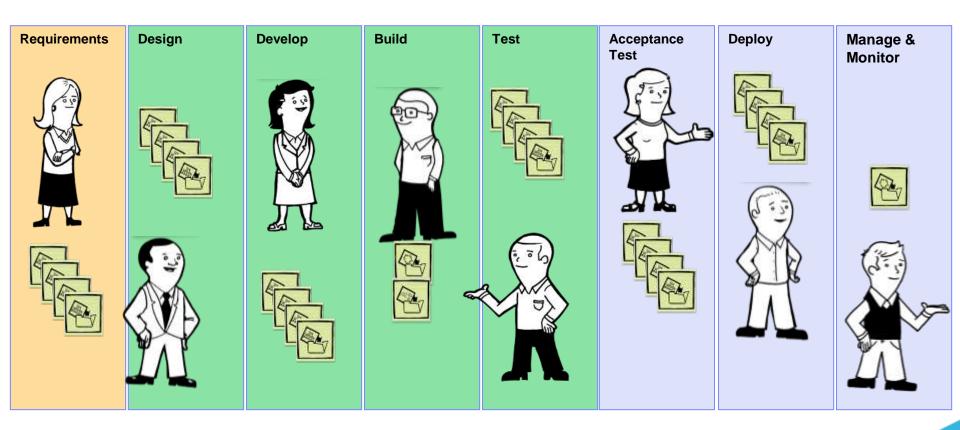
2. <u>Dev</u>elopment

3. Operations





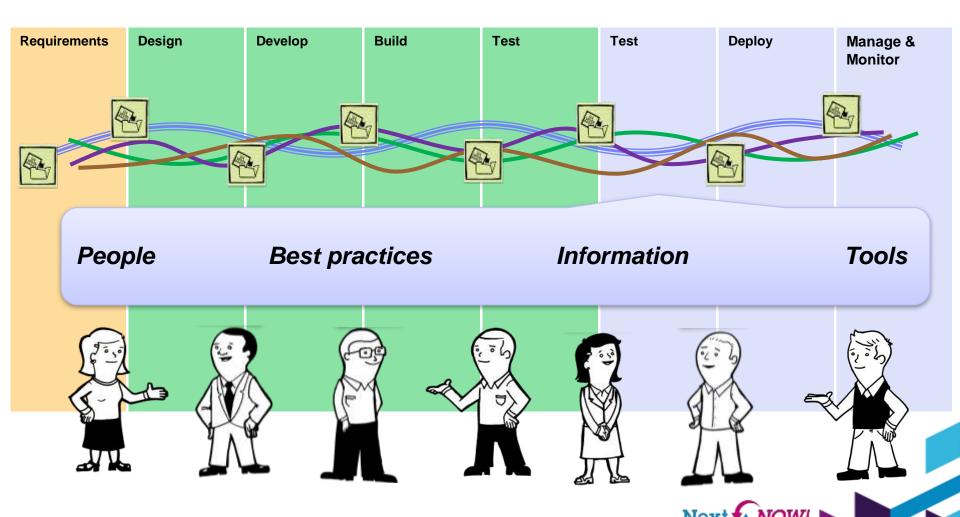
We're good at going deep in each discipline





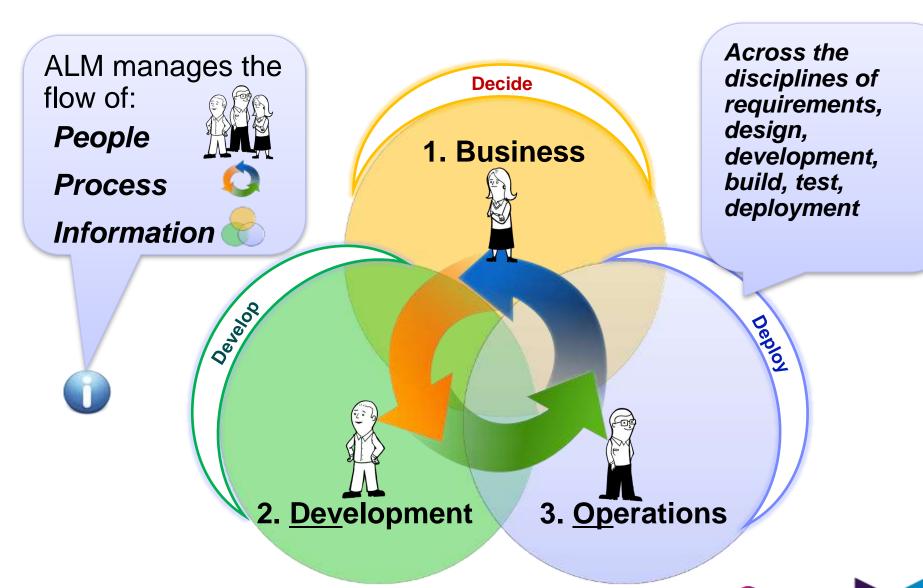


The challenge is coordinating across the disciplines...





Application Lifecycle Management can improve productivity



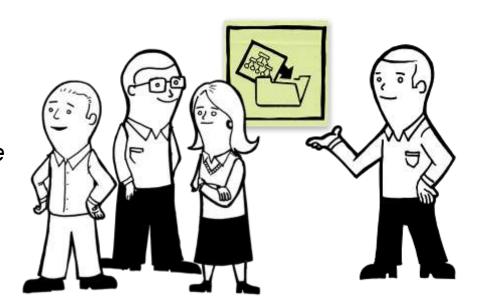


Collaboration challenges

Can your team...



- ...find all the information related to a specific task?
- ...quickly grasp the "who, what, when and why" of team activities?
- ...bring new team members up-to-speed quickly?
- ...overcome the barriers of multiple time zones when working with outsourced and distributed team members?



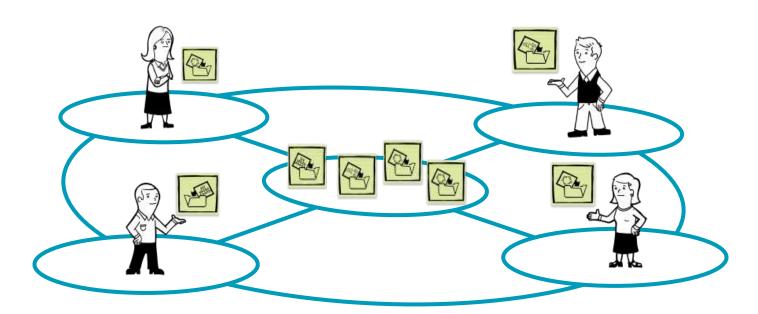




In-Context Collaboration improves product value



- Empower teams to collaborate on and review software development artifacts so they can incorporate feedback early and often, aligning delivery with stakeholders' vision
- Provide a **single source of truth** hosted in a shared repository so that team members can collaborate effectively around the globe to build a collective intelligence
- Make **information immediately accessible** to all team members in the context of their work

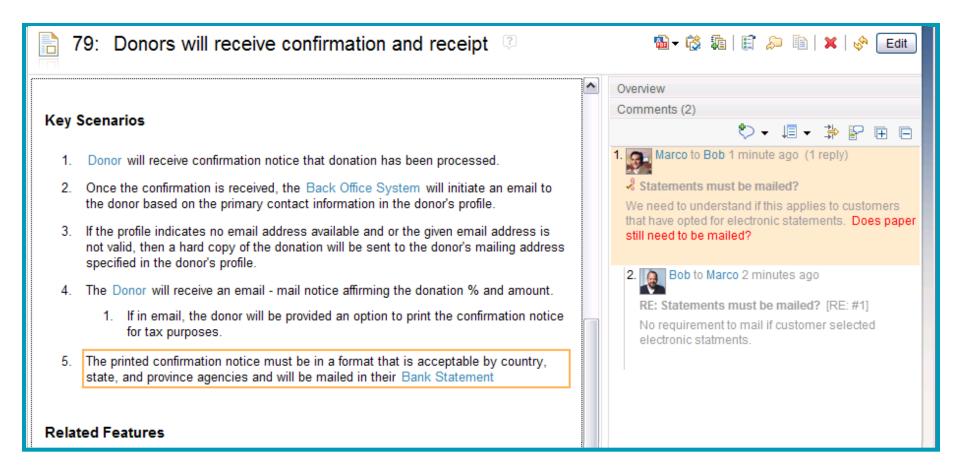






Comments on requirements' details are in-context





A click on the comment highlights the text under discussion.





Formal reviews drive agreement & prevent re-work



Reviews & approvals ensure artifacts are reviewed and/or approved by key team members and capture compliance requirements.

Requirements

Work Items



18 : Divide			entage
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Due: Apr.18, 2011			
Instructions to re-	viewers:		
List of requirements as	ents for our second sp written	ort. At comments have been	resolved. Please review and app
Participant	Type of Participant	Review results	
☐ 🌉 Bob	Approver	Done Done	6 Approved
Deb Deb	Approver	Done Done	- 5 Approved
Marco	Approver	60%	- 2 Approved, 1 Disapproved
Tanuj	Approver		

Approvats (1) - 1 p	ending		
New & Approval	•		
Type	Name	State	
Review •	Check of algorithm to prevent transfer on weekend	Pending	
	н	Pending	
Curtis		Pending	
Tanuj		Approved -	
	Add Approveru		

11



Rich hover automates information access without having to click

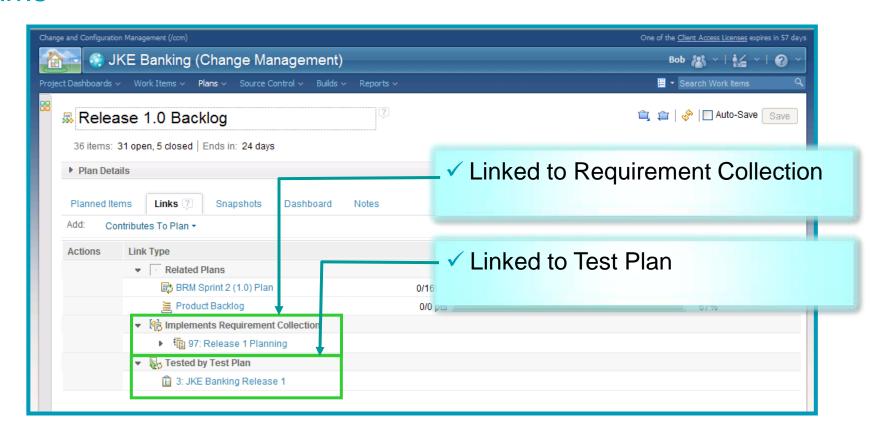






Align planning across the business, development and test teams





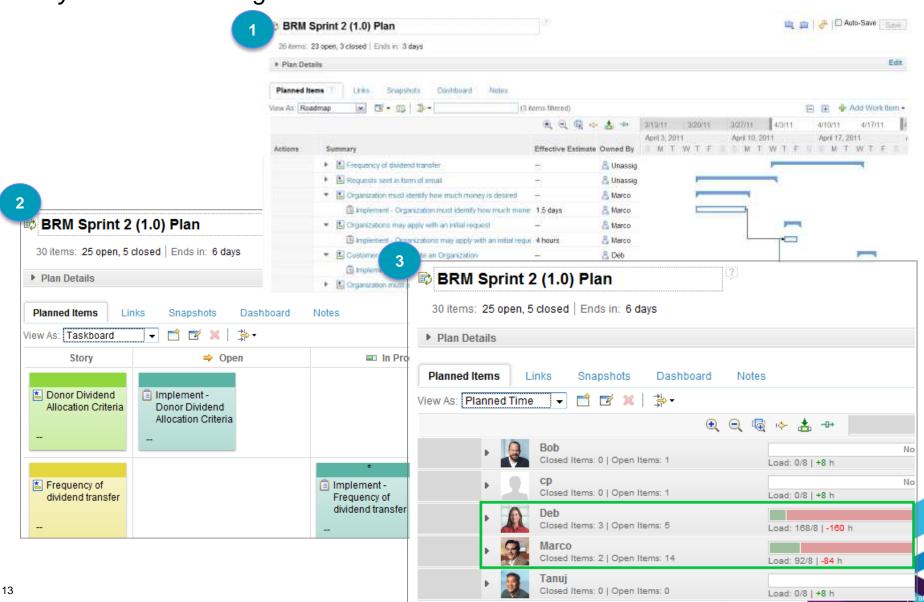




One plan with multiple views

Everyone sees meaningful data in the context of their work



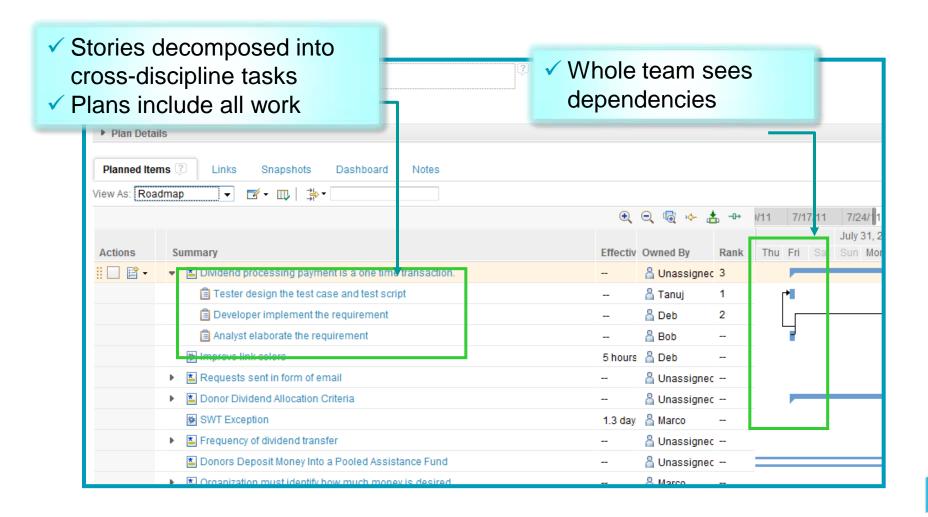




Plan at the right level of detail

Everyone participates in planning



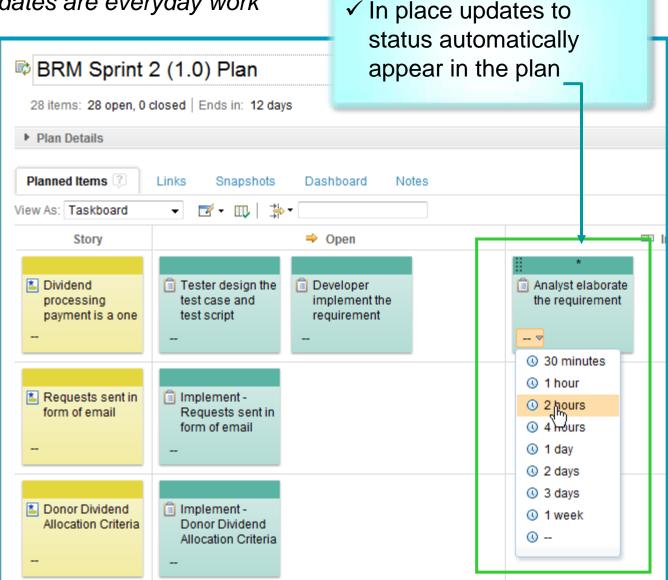






Plans tied to execution

Status updates are everyday work





Next VA NOW!



Lifecycle Traceability challenges

Can your team answer...



Analyst

Which requirements are addressed in this iteration?

> Are all of the requirements tested?

What defects are affecting which requirements?

Project Manager

Can we pass an audit?

Are we ready to release?

What defects were resolved in this release?

Are we aligned with the business?

Architect

Can we implement in a way that supports maintainability?

Which requirement the designs

Beta!

Are there reusal components we can leverage?

Developer

What requirements am I implementing? What test uncovered this defect, on which environment and what build?

What changes occurred overnight?

Release Engineer

How can I standardize when teams use different tools?

Where are the bottlenecks in our processes? Are build times getting longer or shorter?

How can I speed up my builds?

Quality Professional

What is the quality of the build?

What is ready for me to test?

What defects have been addressed since the last build?

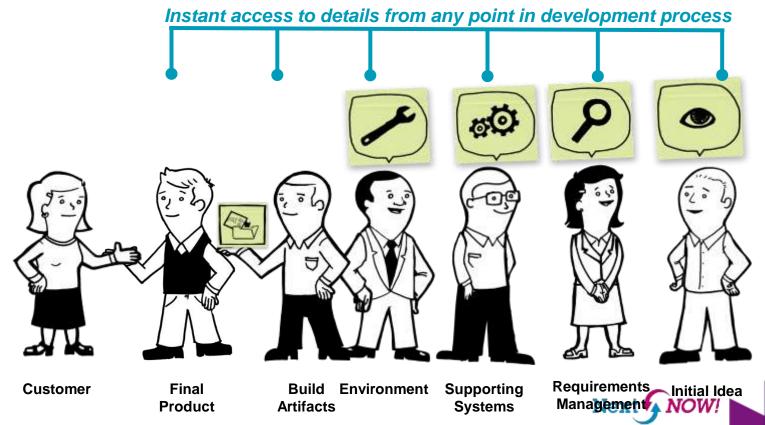




Lifecycle Traceability improves quality



- Establish relationships between software artifacts
- Identify and close artifact gaps, ensuring coverage across disciplines
- Provide visibility into the completeness of planned items by inspecting all related artifacts
- Provide easy access to related artifacts ensuring everyone shares the same view
- Deliver transparency which enables everyone to make fully informed decisions based business priorities

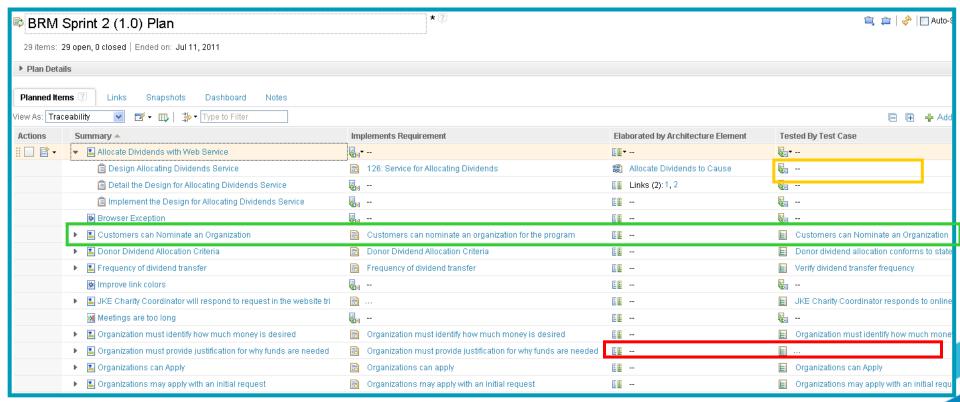




Team leads have visibility into coverage & completeness



- Proactively respond to gaps across all the silos as they surface throughout the project
- Issues are quickly highlighted and resolved







12: Donor Divid ... +

Dwitterst Allocation By percentage

. Divisional Allocation By amount

. Define frequency of allocation

Brief Description

Requirement: Donor Dividend Allocation Criteria

Donors should have the ability to choose allocation options for their dividends to a cause.

3. J.C. Business Recovery Maters | Features | D. Extended Functionality, Release 1

Comments

46 Christian by Amount

Link From [1]

▼ Implemented By (1)

73 Frequency of dividend bransfer

10 Business Recovery Matters Vision

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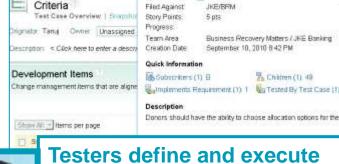


Team leads can improve quality and predictability



- Creating a shared vision delivers what the stakeholders want
- ✓ Whole team buy-in improves team trust, efficiency and focus
- Everyone knows what work is needed by whom and when.
- Traceability provides insight to knowing when you are DONE!





Details

Donor Dividend Alloca

* B7 Cons Dydded 8 Teams collaborate and clarify the details of requirements

Testers define and execute tests cases with a clear understanding of requirements

New Donor Dividend Allocation Criteria

Story

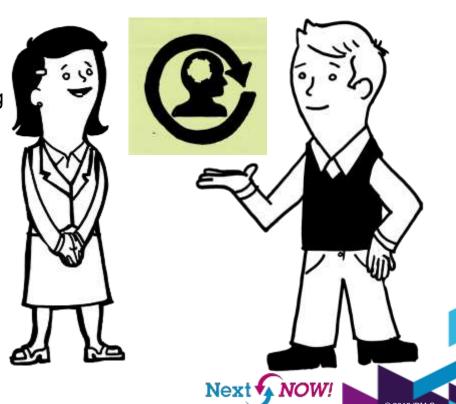


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Measuring and steering challenges Can your team...



- ...provide one view of project health at multiple levels?
- ...make steering decisions based on facts rather "guesstimates"?
- ...track desired improvements with metrics?
- ...minimize administrative overhead by relying on your environment to capture metrics?



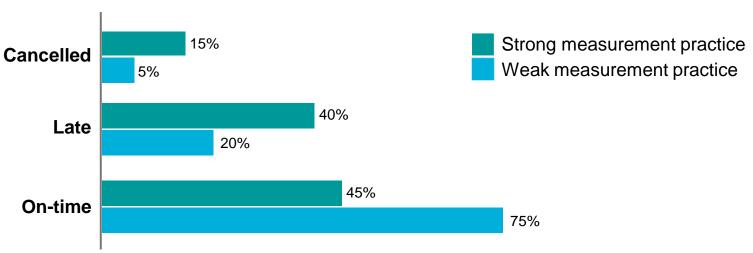


Development Intelligence improves predictability



- Enable fact-based decision making (to communicate status, monitor progress, diagnose problems, identify corrective actions)
- Steer projects and programs to deliver on-time
- Apply Business Intelligence techniques to software and systems development

Measurement Practices Impact Project Success



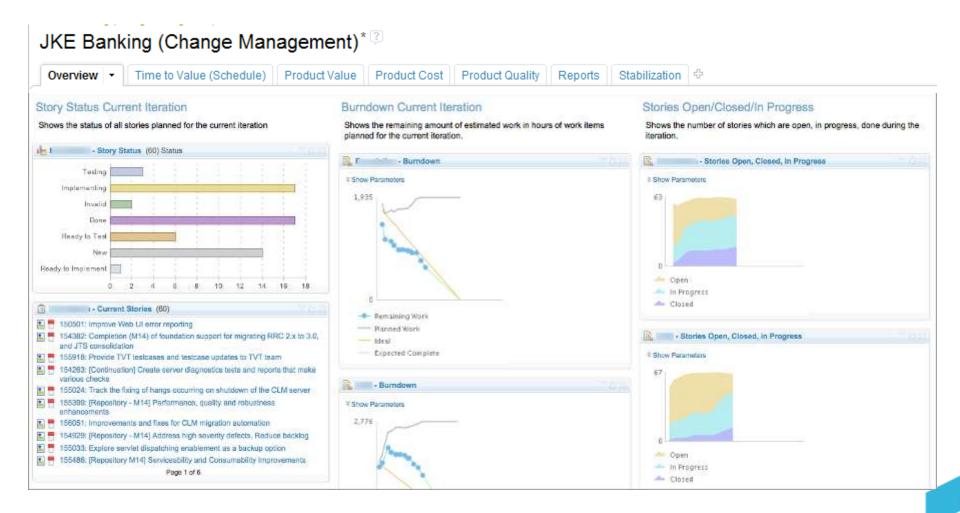
Sources: Capers Jones, Measurement, Metrics and Industry Leadership, Copyright © 2002-2007 by Capers Jones LLC Capers Jones, Software Engineering Best Practices, Copyright © 2010 McGraw-Hill





Use dashboards to provide that one view of project health





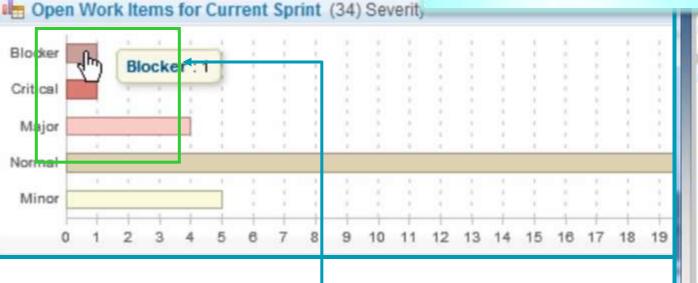




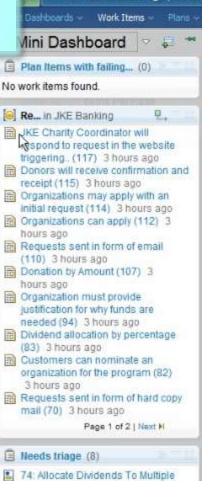
JKE Banking (Chan

Dashboard details Easily answer steering questions

Mini-dashboards: available on any page



Click thru on the viewlet to drill into information



2 70: Donor Dividend Allocation Criteria

67: Donation by amount



Causes

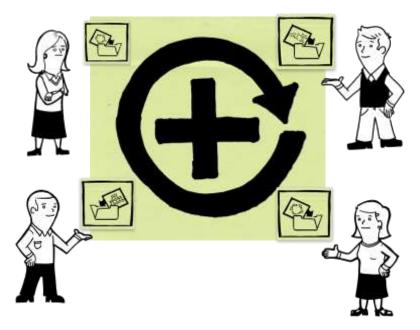


Continuous improvement challenges

Can your team...



- ...leverage out-of-the-box templates that support traditional and agile workflows?
- ...change process "on the fly" as part of a continuous feedback loop?
- ...allow team leads to determine how strict or lax the "rules of the road" should be?
- ...modify process enforcement over the life of a project, to encourage early-stage experimentation and end-game stability?







Continuous Improvement reduces cost



- Improve software delivery through the ongoing adoption of best practices and automation to reduce manual, non-creative and error prone tasks
- Promote incremental improvement of a project when needed
- Enable breakthrough improvement by capturing best practices and reusing across teams
- Allow everyone to participate with easy to adopt best practices at your fingertips.





Discussion

Collapse All | Expand All 1 Tanui Sep 1, 2011 1:22 PM

2 Tanui Sep 1, 2011 1:24 PM

3. Deb Sep 1, 2011 1:42 PM

4. Bob Sep 1, 2011 1:45 PM



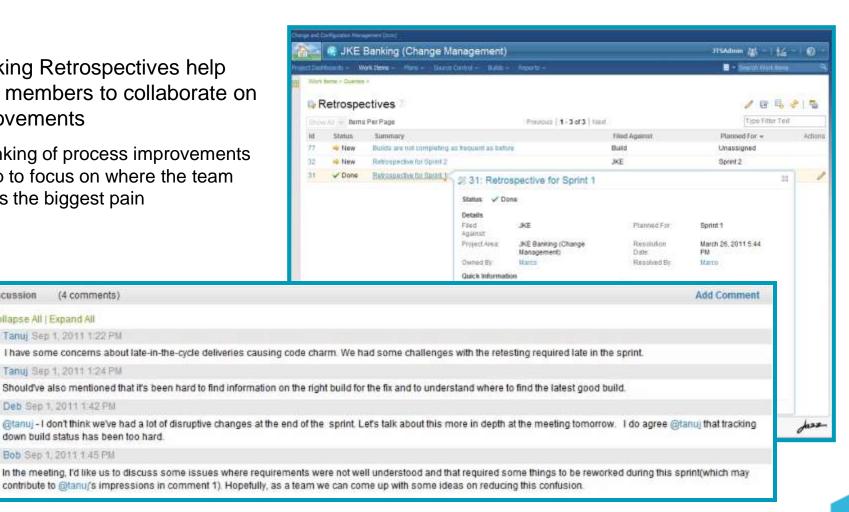
Team retrospectives help identify areas of improvement



- Tracking Retrospectives help team members to collaborate on improvements
 - Ranking of process improvements help to focus on where the team feels the biggest pain

(4 comments)

down build status has been too hard.



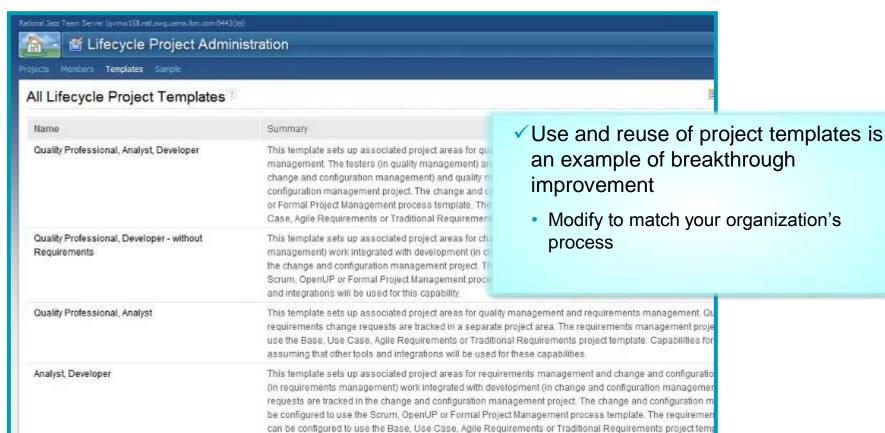




Templates

Support breakthrough improvement









Beyond milestones...

Continuous Integration testing for builds

Unit Test

"Green" builds have passed meaningful integration tests

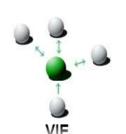
Compile



Install & Configure



Integration Test Environment



Run Tests

Publish Results



Nightly build is not published until integration tests run.





Five Imperatives for **Effective Application Lifecycle Management** to improve organizational productivity



Maximize product value with In-Context Collaboration



Accelerate time to delivery with Real-Time Planning



Improve quality with Lifecycle Traceability



Achieve <u>predictability</u> with <u>Development Intelligence</u>



Reduce costs with Continuous Improvement

Learn more at ALM Everywhere





Get Started! Collaborative Lifecycle Management



- view presentations
- see a project dashboard
- watch videos
- review the release plan

Try it out at jazz.net!

1 Download RTC, RRC or RQM for CLM

https://jazz.net/downloads/rational-team-concert/

Sample scenarios for CLM

https://jazz.net/wiki/bin/view/Main/MTM_Lifecycle_Welcome

Track our progress at jazz.net!

We openly develop our software with our own tools!

https://iazz.net/projects/clm/

Interactive White Board



Short, simple way to share the 5 ALM imperatives ibm.co/alm-everywhere

Role-based Demo



VP of Development, a Business Analyst or Project Owner, Agile Team Lead, Developer and Test Lead.







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