

IBM DevOps Solution: Collaborative Development to Spark Innovation and Integration Among Teams

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Abstract



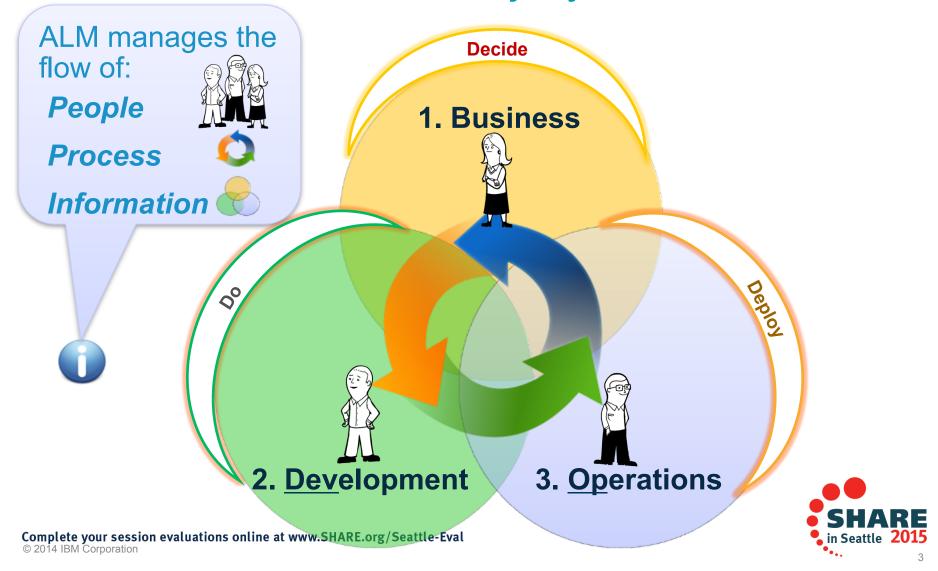
Businesses today are in a constant struggle to keep strategic goals, objectives and projects connected, and not miss out on valuable windows of opportunity. But it can be difficult to gather input, collaborate on design and understand the needs of stakeholders across the business and IT. Without insight into application structure, relationships and dependencies during development and testing, the result may be software that does not meet market needs or business requirements.

This session will discuss the considerations for collaborative application development. Application development cannot be sustained in disjointed silos. New mobile, social, big data and analytics projects demand a development process that is fast, integrated, creative and affordable. Teams need to work closely with one another, regardless of the deployment platform used to run the components of their applications. The needs of the business can change quickly too, making it necessary to re-prioritize work quickly and shift resources to different projects efficiently. Learn how advanced, productive and unified development environments and middleware from Rational® and CICS® can help you apply talent across boundaries and keep the focus on innovation and high-quality code development and test.





Application Lifecycle Management can help break down the barriers to effective software delivery any team can face...



What happens if you do nothing?

When failure is not an option...



"What happens if you can't easily or effectively integrate your most critical software delivery applications?"

*Only 47% are successful, 36% are challenged, and 17% are failures



"What happens if your deliverable date slips?"



"What happens if you can't effectively manage product quality before your ship/release?"





Software failures do have impact the bottom line!Complete your session evaluations online at www.SHARE.org/Seattle-Eval

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*Source: 2010 IT Project Success Rates, 2010 – Scott Ambler LINK

What is required to deliver end-to-end visibility across teams, tools and projects?



Five Imperatives for <u>Effective</u> 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 predictability with **Development Intelligence**



Reduce costs with Continuous Improvement



imperatives help answer questions such as these



Can your team(s)...

...find <u>all</u> the information related to a specific task?



... instantly see the impact of project changes

...see what requirements we' re *implementing* in a given release/milestone?



It's not all or nothing!

Tackle the ones causing the greatest pain.





...provide a <u>single view</u> of project health at multiple levels?









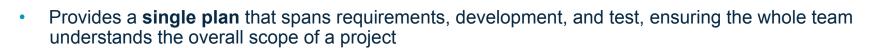


 Teams can collaborate on and review software development artifacts while incorporating feedback early and often to continuously align delivery with the stakeholders' vision

• Provides a **single source of truth** hosted in a shared repository so team members can collaborate effectively around the globe and build a collective intelligence

 Makes information <u>immediately</u> accessible to all team members in the context of their work





- Integrates planning with execution ensuring the entire team understands the true project status
- Allows everyone to participate in keeping the plan current and accurate
- Helps teams respond to the unexpected in a timely manner ensuring the team stays on schedule

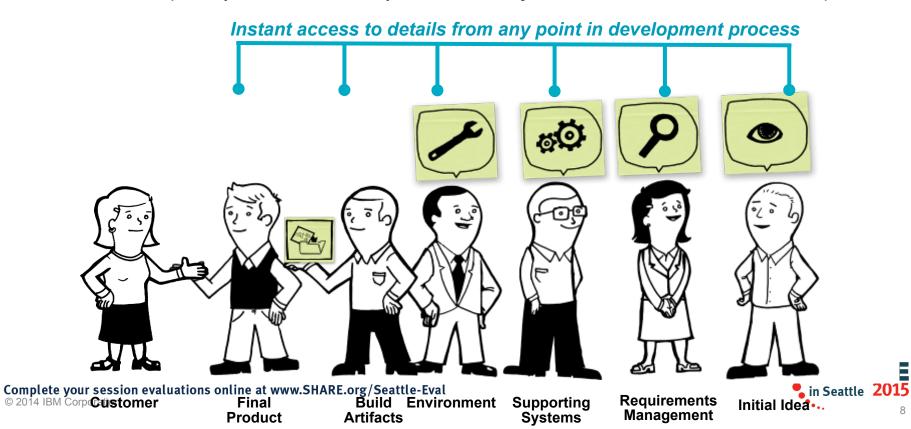




Lifecycle Traceability supports compliance, improves quality



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

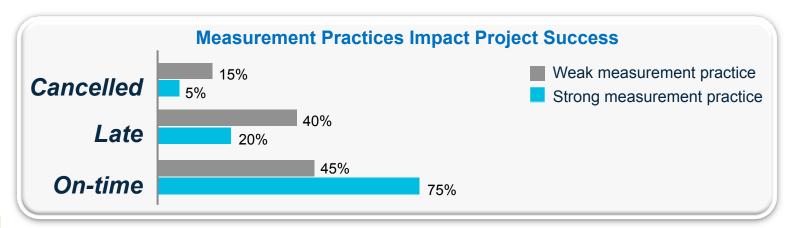




Development Intelligence improves predictability



- 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





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.



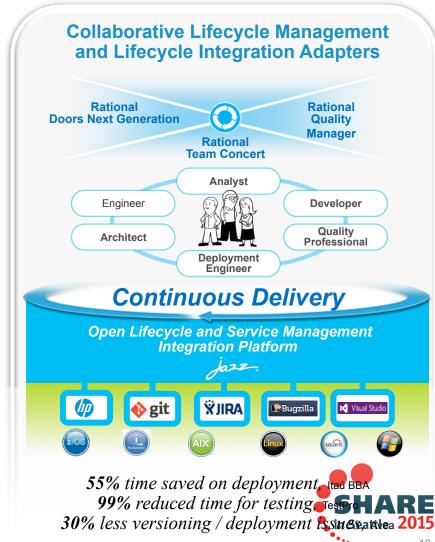


SHARE Educate · Network · Influence

Proven capabilities for accelerating software delivery

Reduce the costs of inefficient, multiplatform software delivery!

- Focus on the five imperatives to establish effective ALM
- Create resilient designs by involving more stakeholders with integrated design
- Prioritize entry point; extend as needs evolve
- Leverage open Jazz platform to unify and protect current infrastructure investments
- Fill in gaps and unify across diverse lifecycle toolset by integrating ALM tools and Rational capabilities with latest Lifecycle Integration Adapters
 - Standard Edition: connects HP, Jira, Git tools
 - Tasktop Edition: provides additional use cases; connects Microsoft Visual Studio and Bugzilla tools





Multiplatform Development

A Common platform for all types of development

- Common Eclipse-based IDEs
- Broad coverage of technologies, languages, and platforms
- Connect systems of record to systems of engagement and apply talent across boundaries while keeping the focus on innovation
- ✓ Modern tools to attract new talent
 ✓ 22-37% improvement in developer productivity¹

- Rational Developer for the Enterprise v9.0*
- Rational Developer for z V9.0
- Rational Asset Analyzer

* Includes IBM Worklight

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¹ Aggregation of results from a productivity study conducted by IBM System z customers.



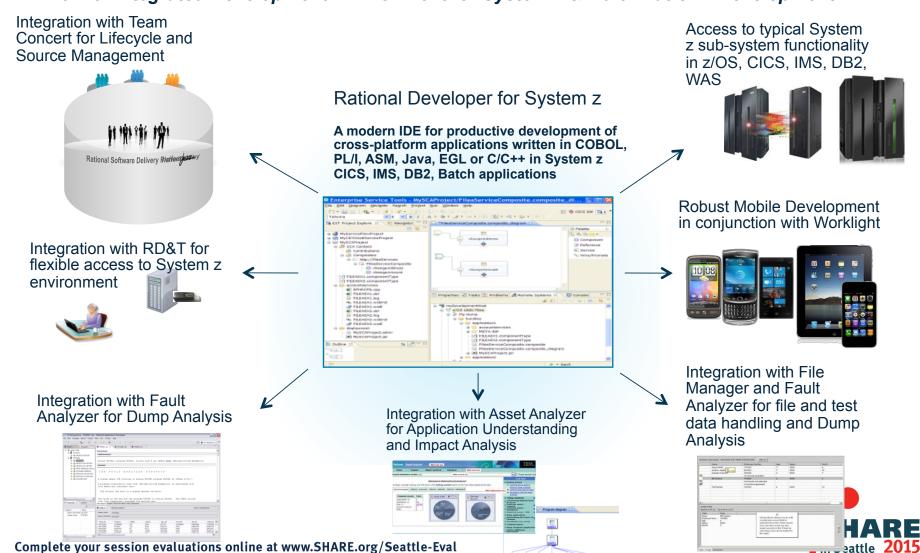




Rational Developer for the Enterprise:

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THE Premier Integrated Development Environment for System z & Multi-Platform Development





Cost Effective Off-Host Development and Unit Test

Offload testing to reduce MIPS, improve development flexibility

- DevOps will dramatically increase build and test activity
- Makes it affordable by offloading from System z
- ✓ Liberate developers to rapidly prototype new applications
- ✓ Free up mainframe development MIPS for production capacity



IBM Rational Development and Test Environment for System z





Nationwide embraces DevOps to drive continuous HARE. delivery across platforms and improve speed to market

50% increase in software quality over the last three years

90% on-time delivery vs. 60% previously

70% decrease in user downtime

58% of developers moved to industry top quartile in productivity measures



"We're more agile as a business and more responsive to our customers. Collaboration has become an expected part of our culture "

> - Steve Farley, Vice President, Application Development Center, Nationwide



Take Action Now!



- Develop an end-to-end DevOps strategy
- Adopt mobile-first design thinking, and cloud-centric architectures
- Start incrementally on business-critical projects
- Measure and reduce overhead, rework and duplication
- Innovate! It's a great time to be in the technology business
- Get your free guide to faster, continuous software delivery with DevOps



It is not a typo....use .co not .com

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