



Discovering the Value of IBM Rational Quality Manager

Presentation



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Discovering the Value of IBM Rational Quality Manager





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Welcome to the Technical Exploration Center

- Introductions
- Access restrictions
- Restrooms

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- Emergency Exits
- Smoking Policy
- Breakfast/Lunch/Snacks location and times
- Special meal requirements?

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Agenda

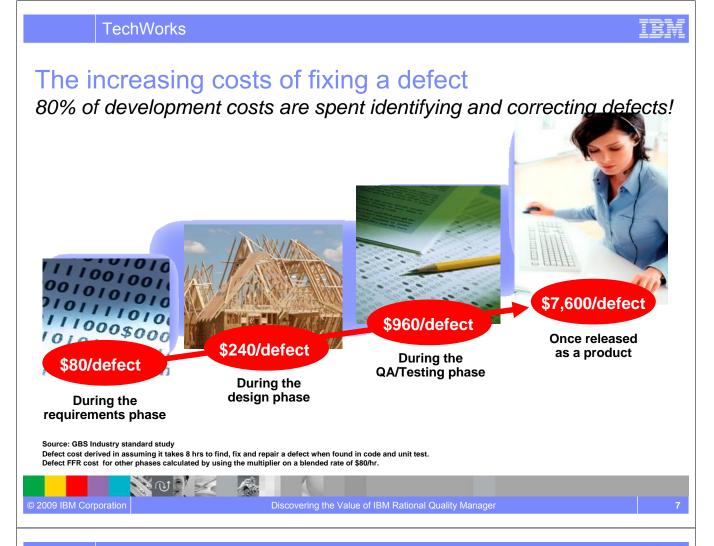
- Rational® Quality Manager Overview
- Test Management Overview
 - Lab 1: Test Management
- Test Planning Overview
 - Lab 2: Test Planning
- Test Creation Overview
 - Lab 3: Test Creation
- Test Execution Overview
 - Lab 4: Test Execution
- Reporting Overview
 - Lab 5: Reporting

- Lab 6 Impact Analysis of a Requirement Change
- Lab 7 Importing Requirements from Requisite Pro® (Optional)
- Lab 8: Running Rational Functional Tester (RFT) tests from Rational Quality Manager (Optional)

Objectives

- Demonstrate how Rational Quality Manager:
 - Mitigates business risk: Catch defects earlier and keep the team in synch with dynamic process and activity-based workflows
 - Improves operational efficiency: Automate labor-intensive lifecycle processes and determine optimal plans addressing wide range of platforms and requirements
 - Provides greater visibility of metrics: Make reliable decisions with constant access to prioritized metrics tailored for individuals and teams
 - Protect existing investments and deliver greater predictability: Adopt successful deployment patterns and map to operational Key Performance Indicators (KPIs), platforms and requirements





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Process-led Automation yields real savings Examples of automation capabilities

		veloping repeatable lustry test solutions		Advanced Defect Analysis	Developing repeated test process models applicable to future projects		Integrating end to end processes	
Asset	Test cases copied	Manual scripts copied	Manual scripts Reuse	Prevent and Block duplicate Defects	Baseline & migrate documentation	Baseline artifacts	Leveraging component Reuse	Dynamic updates of test assets
Quantity	290	296	1,178	765	1,154	1,711	870	1,883
Hours saved	141	148	589	Discovery in 4 Hr 1,484	577	855	435	470
Value	\$11, 600	\$11,850	\$47,000	\$857,000	\$46,200	\$68,000	\$34,800	\$37,700

Source: GBS Test Practices study over 855 projects

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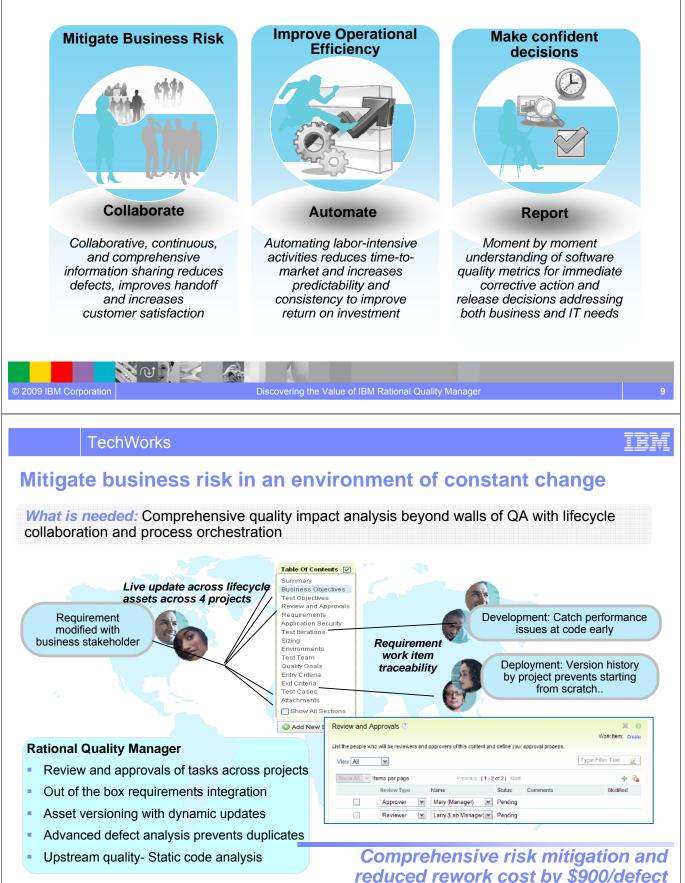
Average per project saving with automation and collaboration best practices calculated on a per asset task and process savings

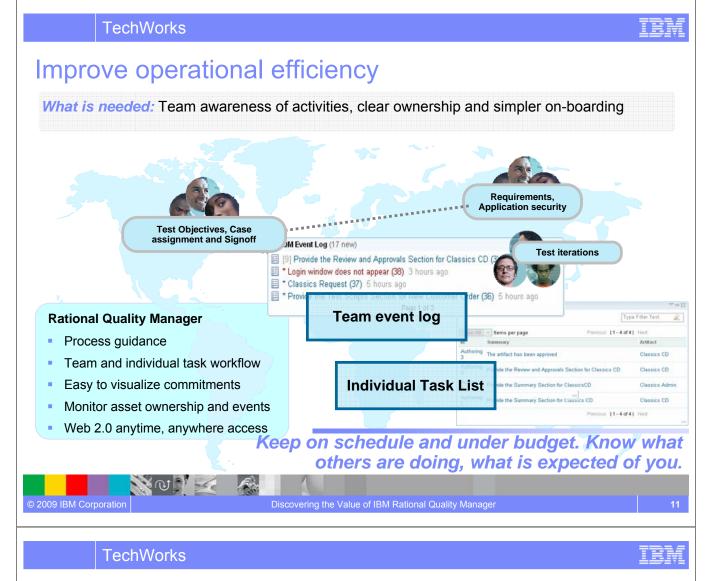
Estimated hours saved per project: 4700 hours

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IBM® Rational raises the bar for Quality management Scenarios that show the difference



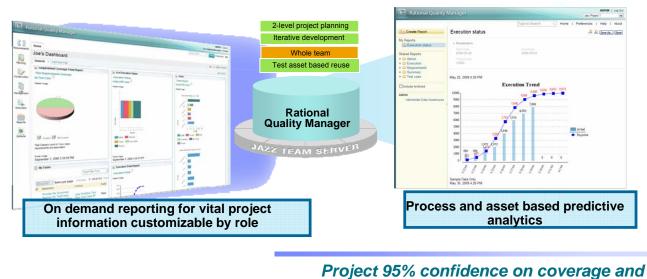


Make confident decisions

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What is needed: Always current metrics tailored by role for the right stage coupled with trends, best practices and proven assets to accelerate decision making

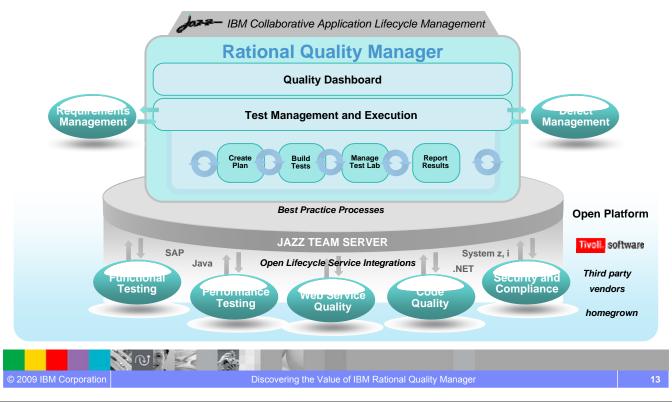


Project 95% confidence on coverage and cycle completion



IBM

Centralized test management offering allowing full lifecycle support across all types of testing and platforms



TechWorks PoT Lab Overview Quality Management Lifecycle Lab 1 -Lab 2 -Lab 3 -Lab 4 -Lab 5 -**Test Management Test Planning Test Creation Test Execution Test Reporting** The QM Manager The QM Manage The Tester The Tester The QM Manager Mary Tony •Out of the box reports Mary Create Test Execution Record User Dashboard Entering Test Plan Information Customizing Dashboard Test Suite Creation Defect Reporting Creating Test Cases Review and Approval Process Adding Requirements to Test Plan • Test Plan Versioning - Creating Test Execution Setting up traceability of Test Cases Generating Test Environment Baselines to Requirements Automated Manual Testing Creating Manual Test Case Assisted Data Entry Data Driven manual testing Leverage Data Driven Testing Test Results Keyword Driven Testing Weights Entering Test Defect

Lab 6 – Requirements Coverage

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Lab 7 – OPTIONAL Import Requirements from Requisite Pro Lab 8 – OPTIONAL Executing Rational Functional Tests from Rational Quality Manager

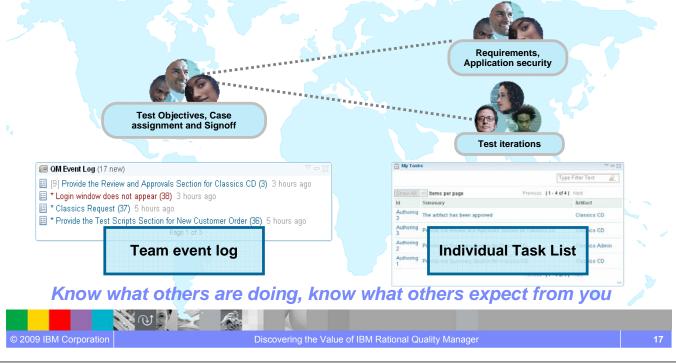


Up to date work progress information

Task management for individual and team

Challenge: Assigning and coordinating test plan ownership and events across distributed teams

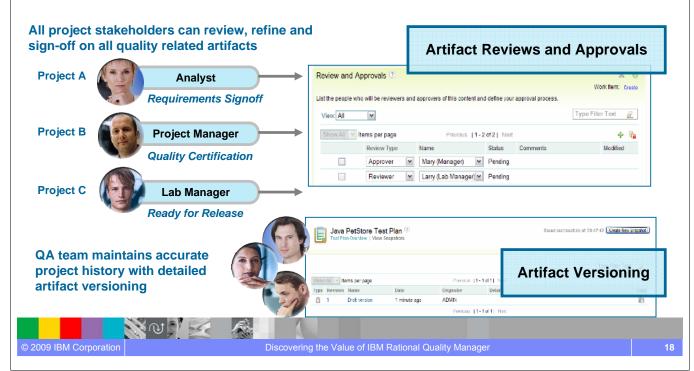
Solution: Visualize commitments, reduce rework, track tasks and monitor events

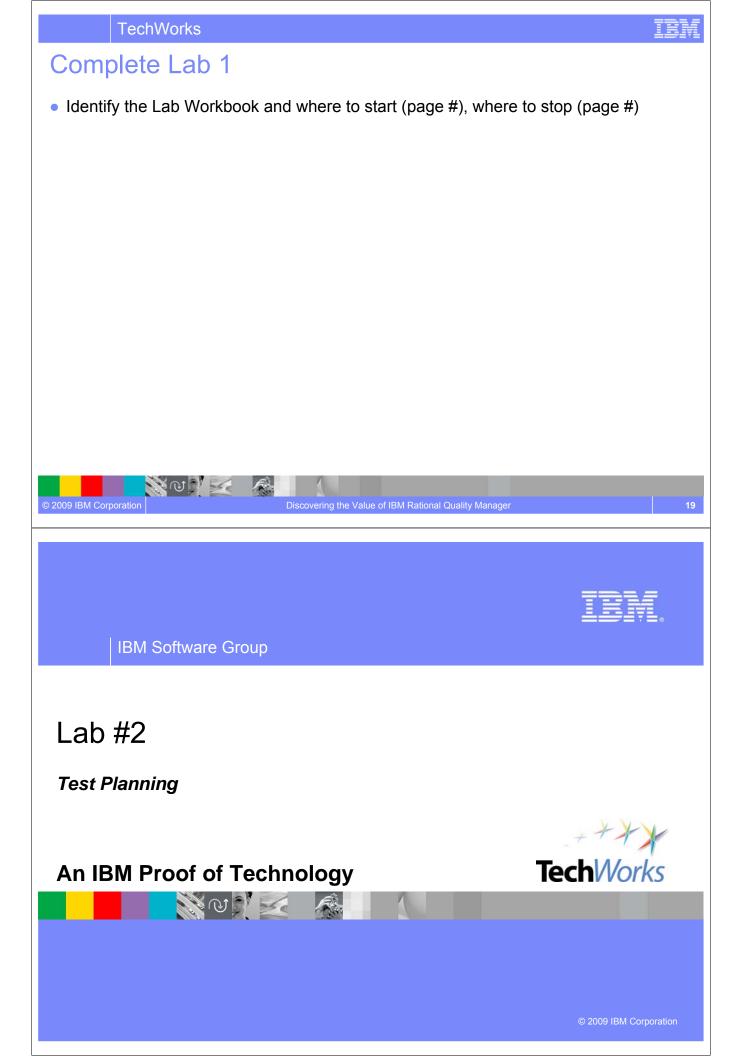


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Proof of process

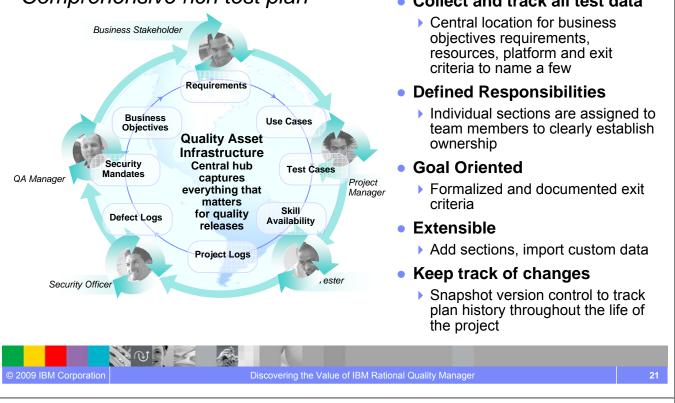
Challenge: Centralized QA team works with multiple stakeholders across lines of business *Solution:* Keeping version history and managing approval process at different phases





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A quality contract for the entire software delivery team Comprehensive rich test plan • Collect and track all test data



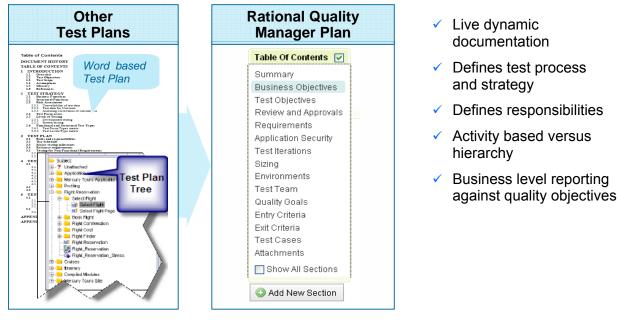
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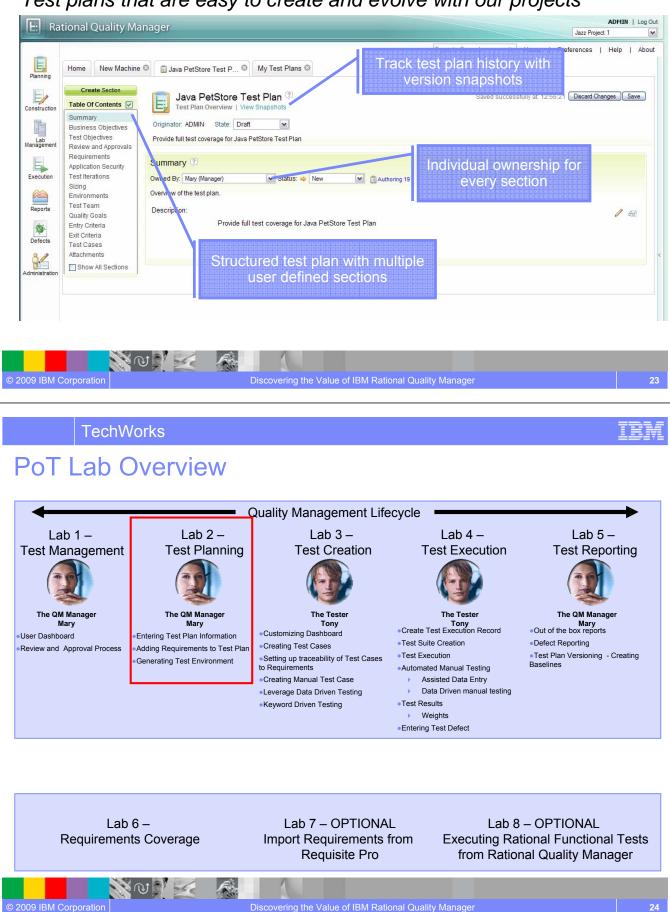
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Comprehensive dynamic planning and updates

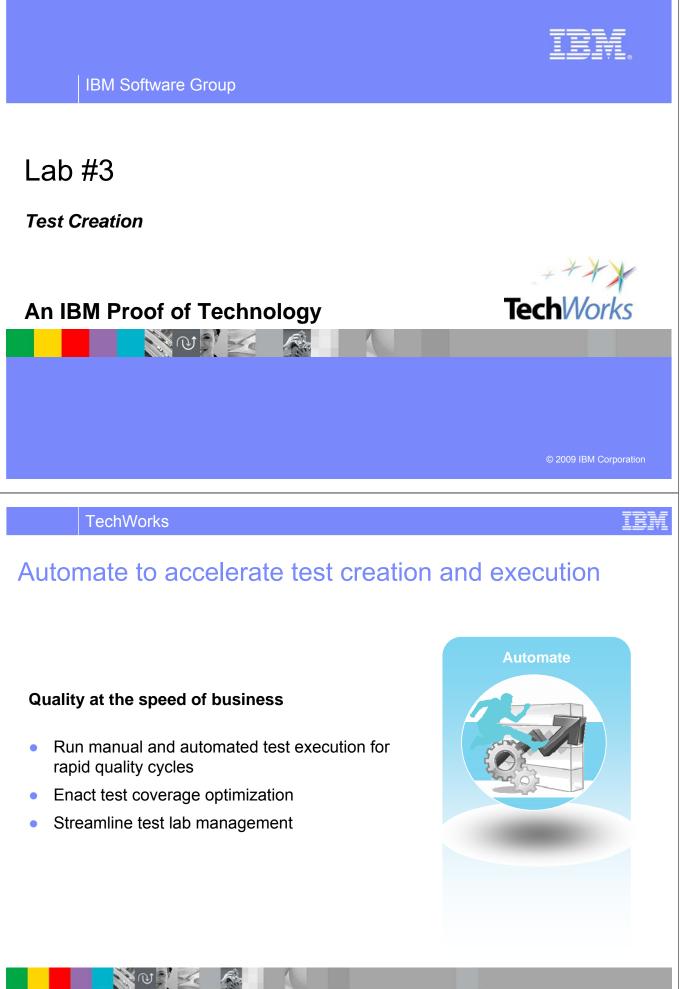
Process flow, not artifacts drives team activities



Collaborative and adaptive test plan management Test plans that are easy to create and evolve with our projects



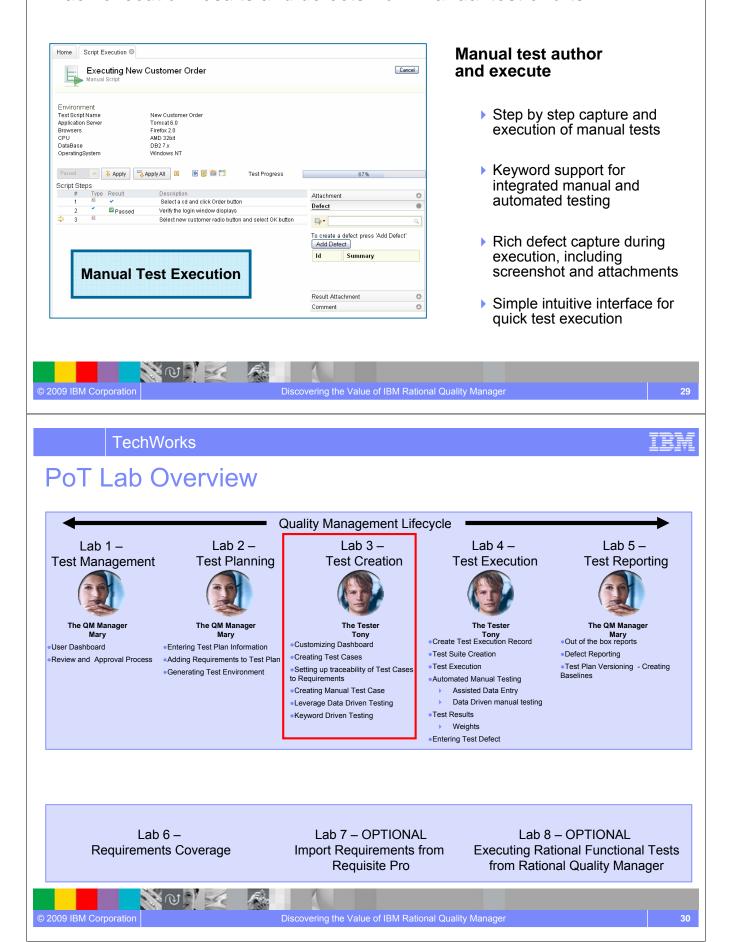


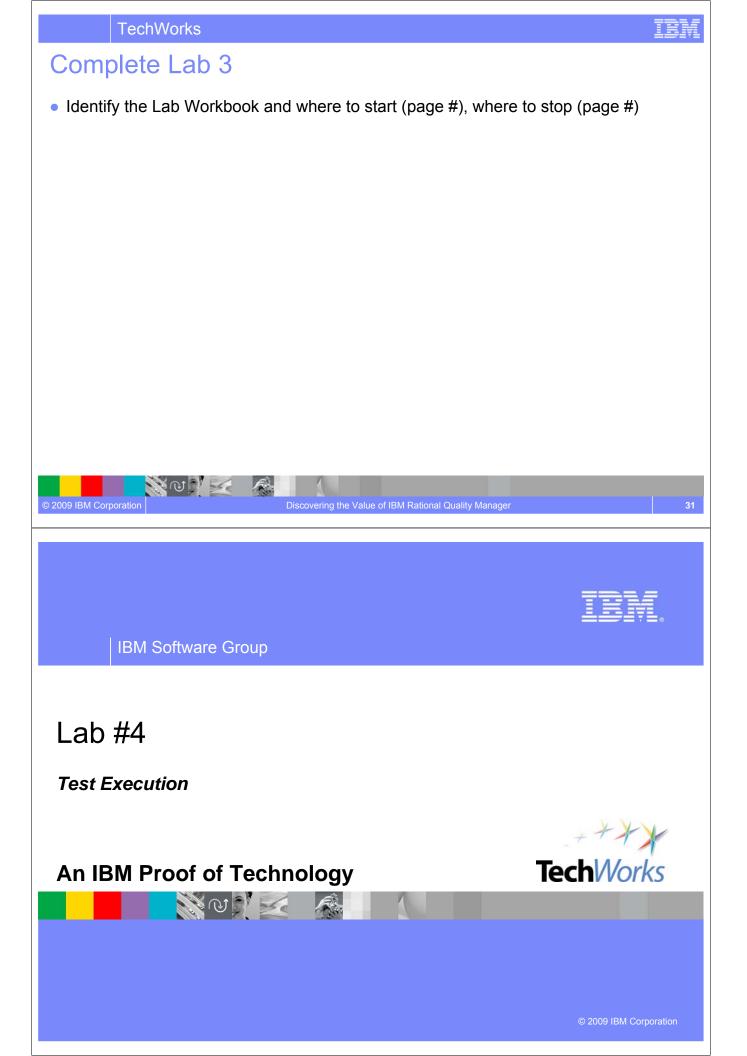


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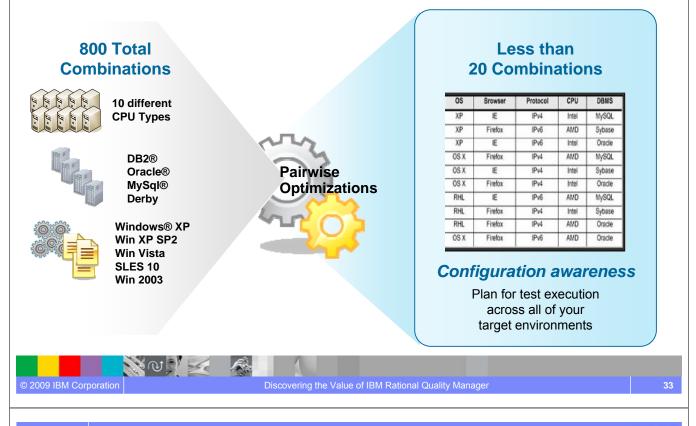
Integrated manual test authoring and execution Track execution results and defects from manual test efforts





Configuration aware testing

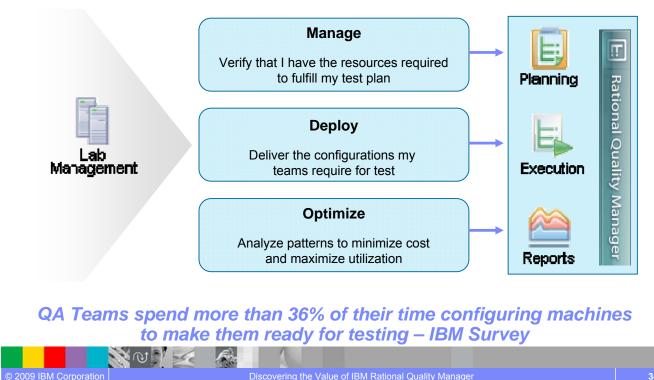
Test the right cases instead of everything. Plan optimal execution



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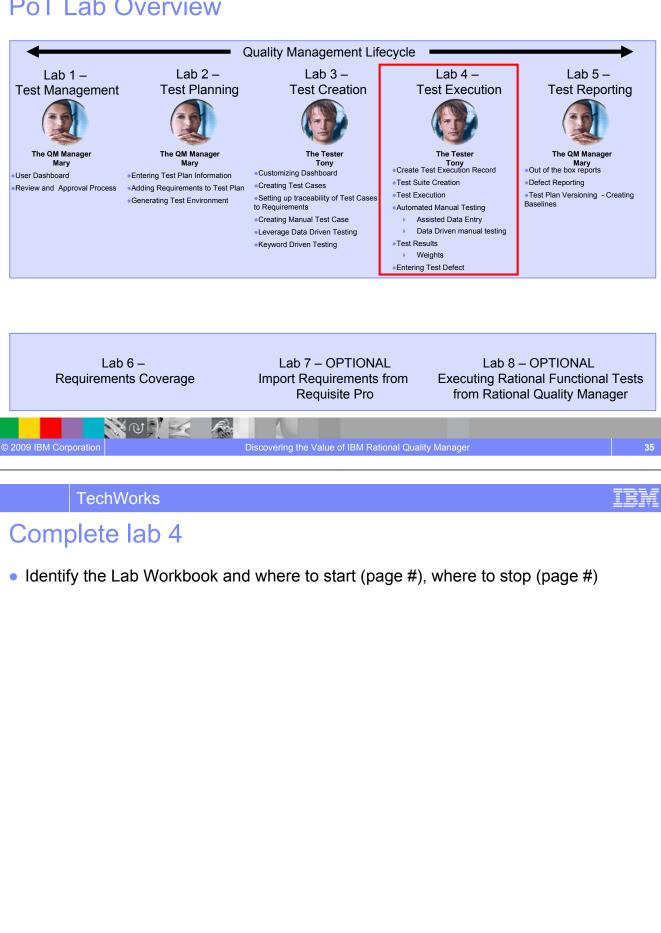
IBM Rational Test Lab Manager

Save 30-40% test time with integrated test lab management



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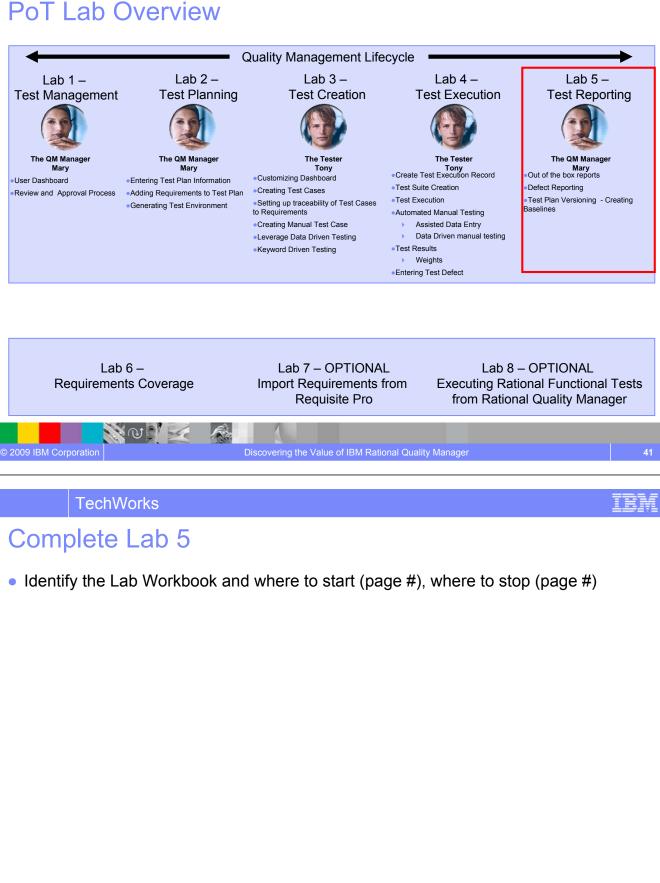
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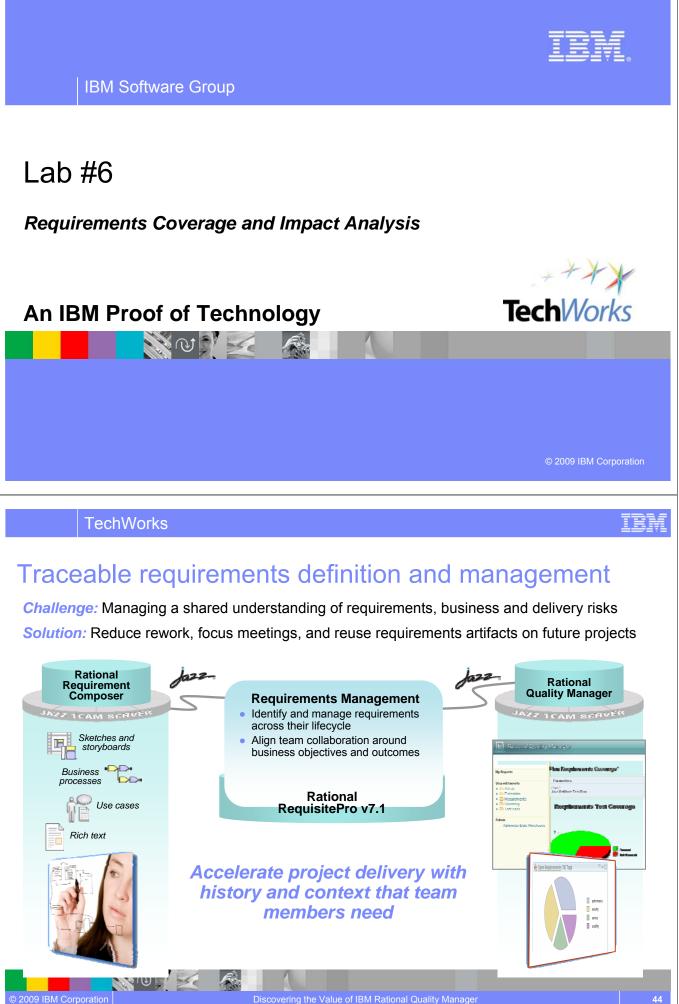


Reduce risk with constant access to quality metrics Lifecycle quality perspective to proactively manage risk



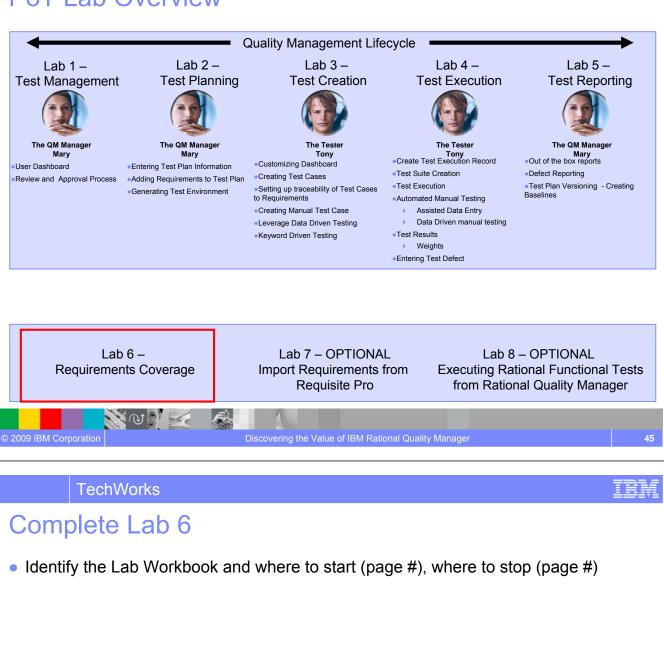






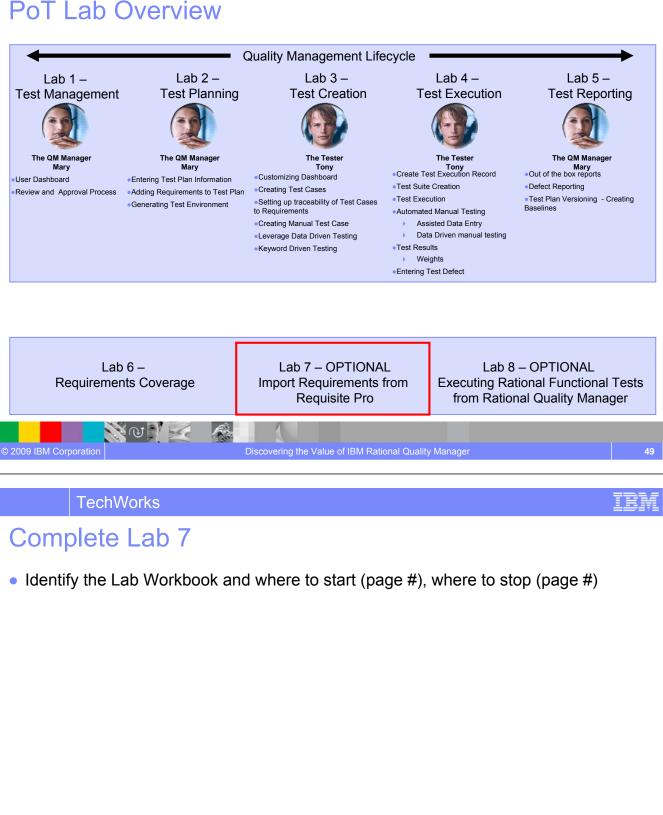
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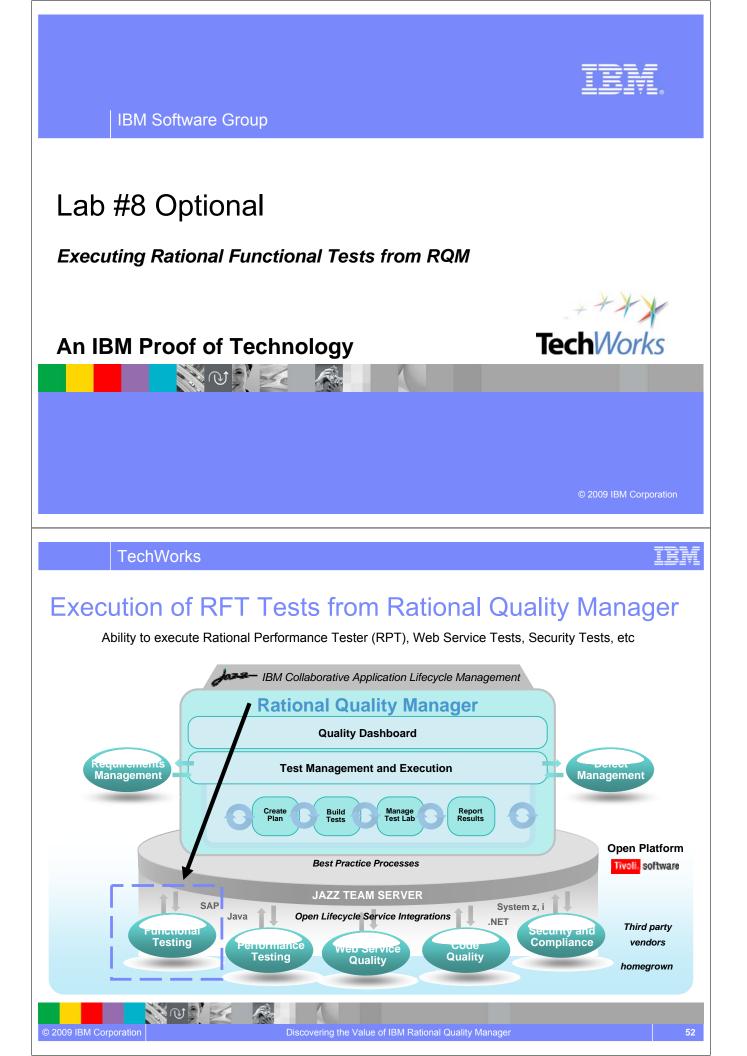




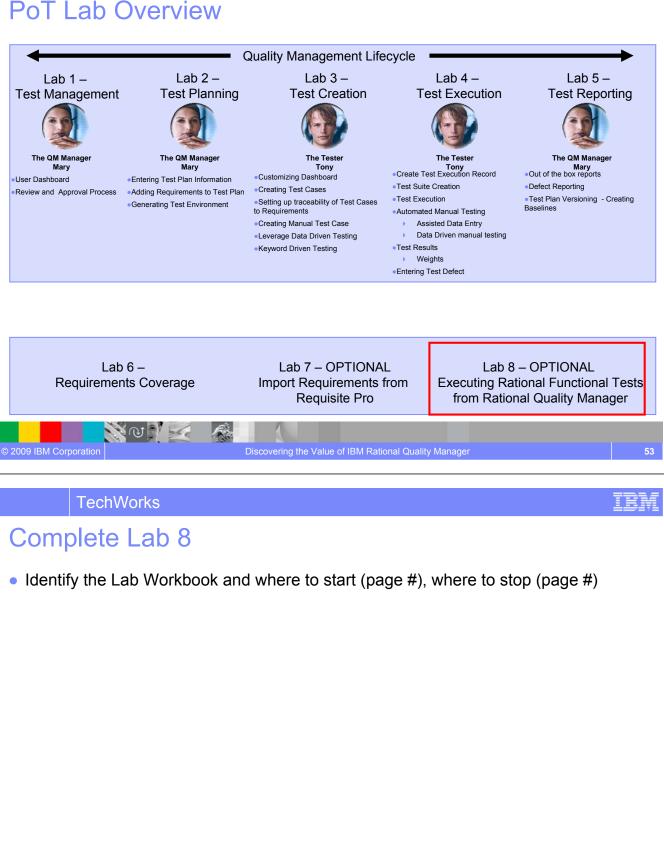




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IBM Software Group

Session summary

This is the summary of the entire session.

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An IBM Proof of Technology



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A central hub for business-driven software quality

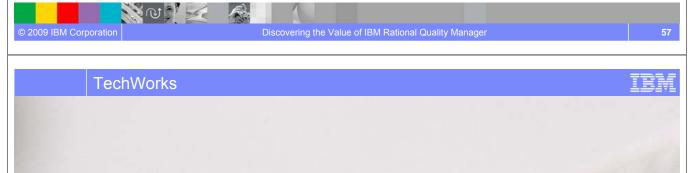
Delivering innovation into the hands of quality professionals

Improve operational of ficiency and asset utilization Save 30-40% testing time overall Improve operational of ficiency and asset utilization Save 30-40% testing time overall Test coverage optimization across environments 95% confidence on optimal coverage Industry leading environment and lifecycle coverage System z®, System i®, SAP® and .Net Make confident decision history and trending within and across projects Proactive risk management and decision-making Proactive risk management and decision-making	Mitigate business risk and reduce cost by catching quality issues early	Stakeholder and team coordination Fewer meetings, less rework using a dynamic test plan Automated process workflow Reduce labor-intensive tasks, improve cycle time Upstream and downstream quality Enforce standards at coding and deployment	IBM Rational Quality Manager
Make confident docisions with Version history and trending within and across projects Proactive risk management and decision-making	operational efficiency and accelerate time	Save 30-40% testing time overall Test coverage optimization across environments 95% confidence on optimal coverage Industry leading environment and lifecycle coverage	Contractions of the second sec
effortless reporting Automated, filtered and prioritized reporting Protect existing investments, deliver greater predictability Adopt successful deployment patterns, map to operational KPIs	confident decisions with effortless	Version history and trending within and across projects Proactive risk management and decision-making Automated, filtered and prioritized reporting Protect existing investments, deliver greater predictabi	lity

Session summary

Rational Quality Manager:

- Mitigates business risk: Catch defects earlier and keep the team in synch with dynamic process and activity-based workflows
- Improves operational efficiency: Automate labor-intensive lifecycle processes and determine optimal plans addressing wide range of platforms and requirements
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- Protect existing investments and deliver greater predictability: Adopt successful deployment patterns and map to operational KPIs, platforms and requirements



Questions

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Additional resources

Find out more about Rational Quality Manager

http://www.ibm.com/software/awdtools/rgm/

- Download the Rational Quality Manager Trial Q4
- Learning resources Webcasts/Telcons/Podcasts.
 - Quality in Action: The Rational Quality Management v8.0 Portfolio The Shape of Things to Come, Hosted by the Globa Rational User Group Community
 - <u>Quality in Action: Managing the Test Lab</u>, Hosted by the Globa Rational User Group Community Þ
 - Ensuring Lifecycle Quality through RQM integration capabilit
- Blog with us Rational Quality Manager Blog & Rational **Tester Blog**
- Facebook. <u>Rational Quality Manager</u>
- Videos and quick demos (IBM TV, YouTube)
 - Rational Quality Manager Preview

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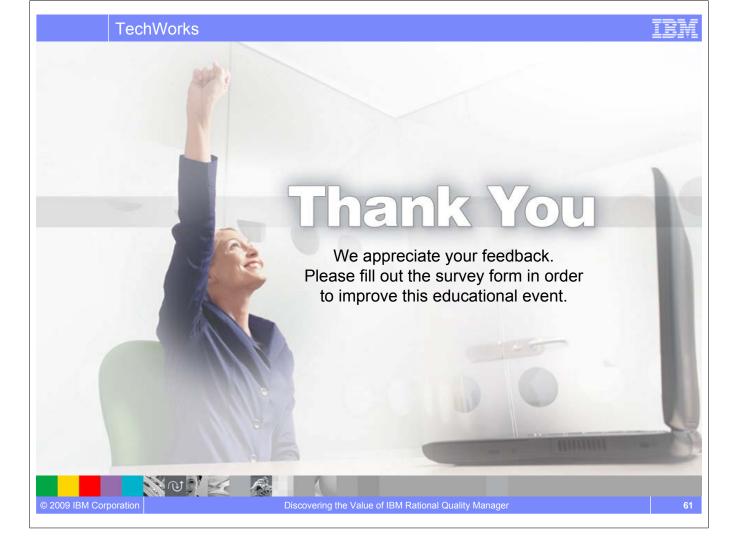
- Star East 2008: Taking a holistic approach to quality management
- Next Generation Requirements-driven Software Quality
- R-Heroes Episode 5: QM Put to the Test
- Rational Quality Manager in Three Minutes





Rational, software

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NOTES



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