

IBM Rational Software Development Conference 2008

WHERE TEAMS ARE **R-HEROES**



Quality in Action Kickoff

Kedar Walimbe

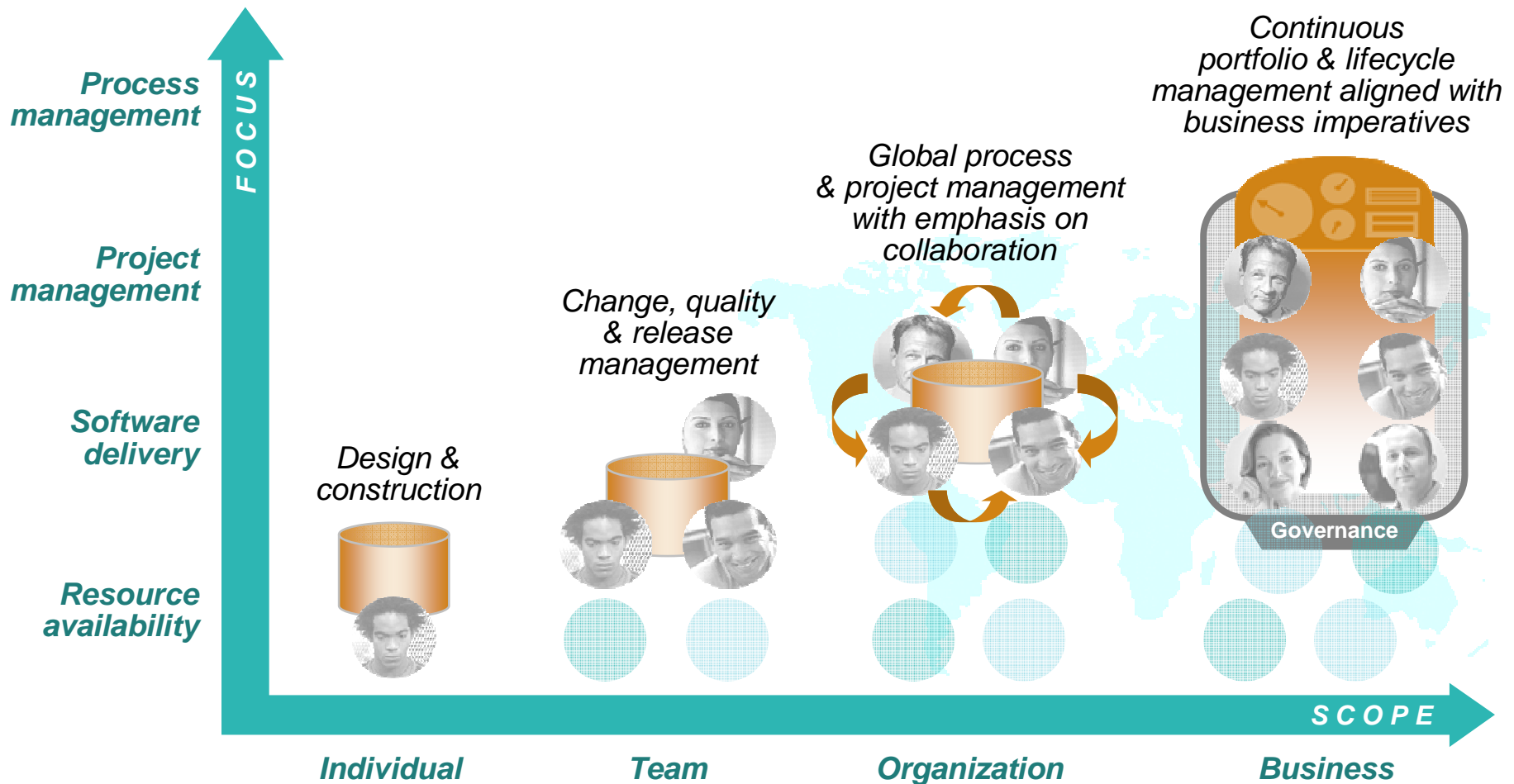
Technical Sales Manager, IBM Rational software

Today's Agenda



The evolution of customer priorities

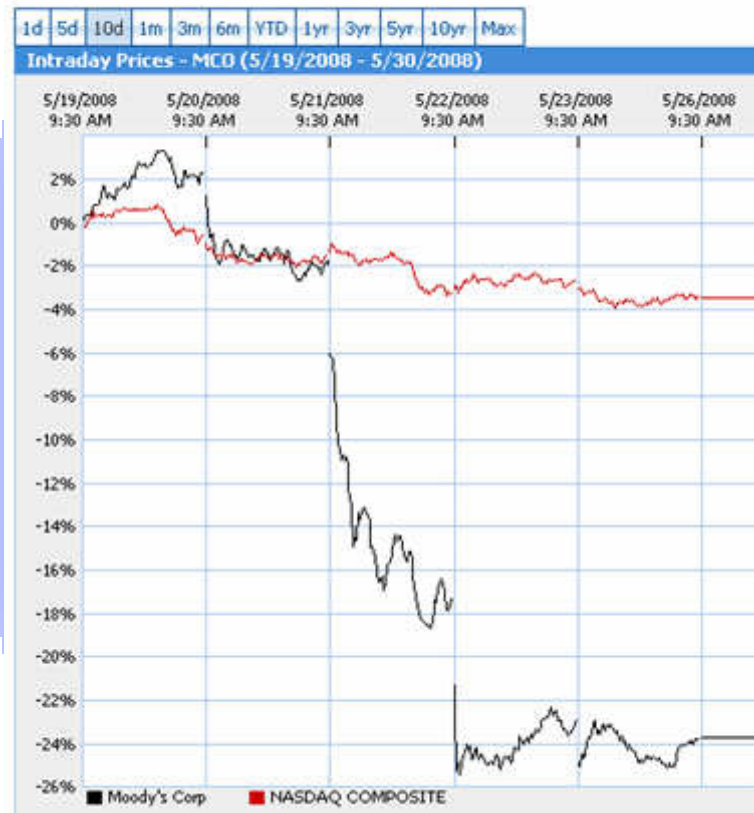
Driving the convergence of business drivers and software delivery



The Cost of Software Failure

Moody's Investment Services' \$1.7 billion dollar defect

Moody's Corp (MCO)



- Software bug incorrectly assigns positive safe credit ratings to \$4 Billion of high risk complex debt securities
- Moody's market value tumbles \$1.7 Billion in one day
- Los Angeles Times:
 - ▶ "Investors are petrified that the company could be charged with fraud."

Los Angeles Times | Business

You are here: [LAT Home](#) > Business

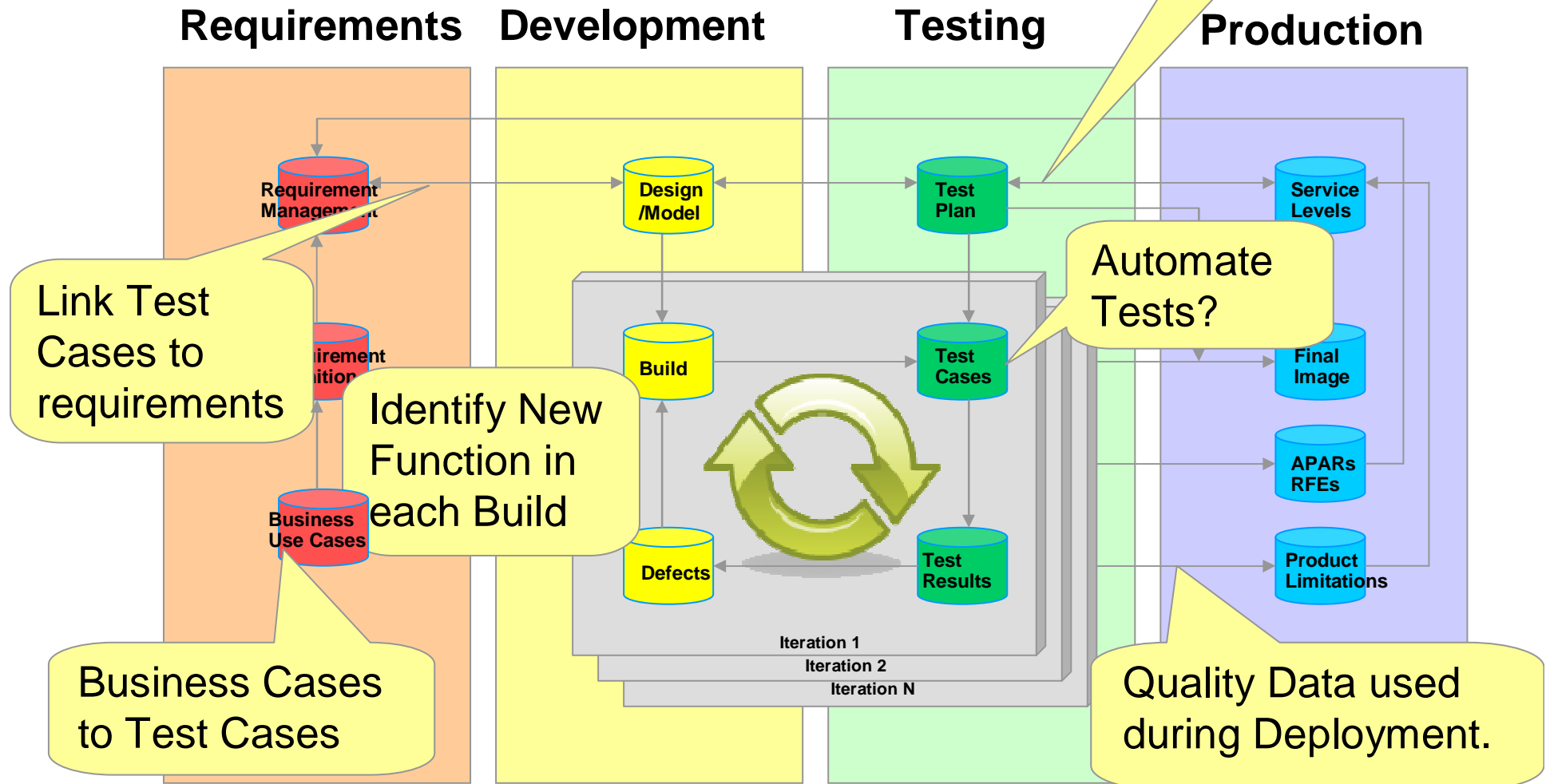
Bond grader Moody's stock dives on fear of ratings fraud

11:23 AM, May 21, 2008



The Application Development Lifecycle

Leverage data to make workflows more efficient, addressing customer integration pain points



IBM eating their own dog food!

Challenge

- Development cycle of 12 months for major release and quarterly for maintenance put significant strain on test team
- Needed to automate test process to reduce cycle time and human error

Solution

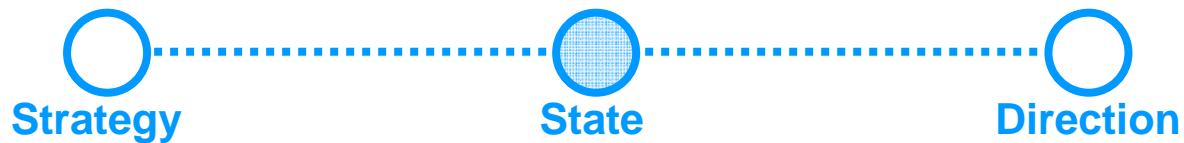
- Rational Functional Tester for automating test bucket

quickly assess and baseline overall quality for new product builds and maintenance releases

**reduced test effort by 90%
from 5 days → 3 hrs**



Today's Agenda

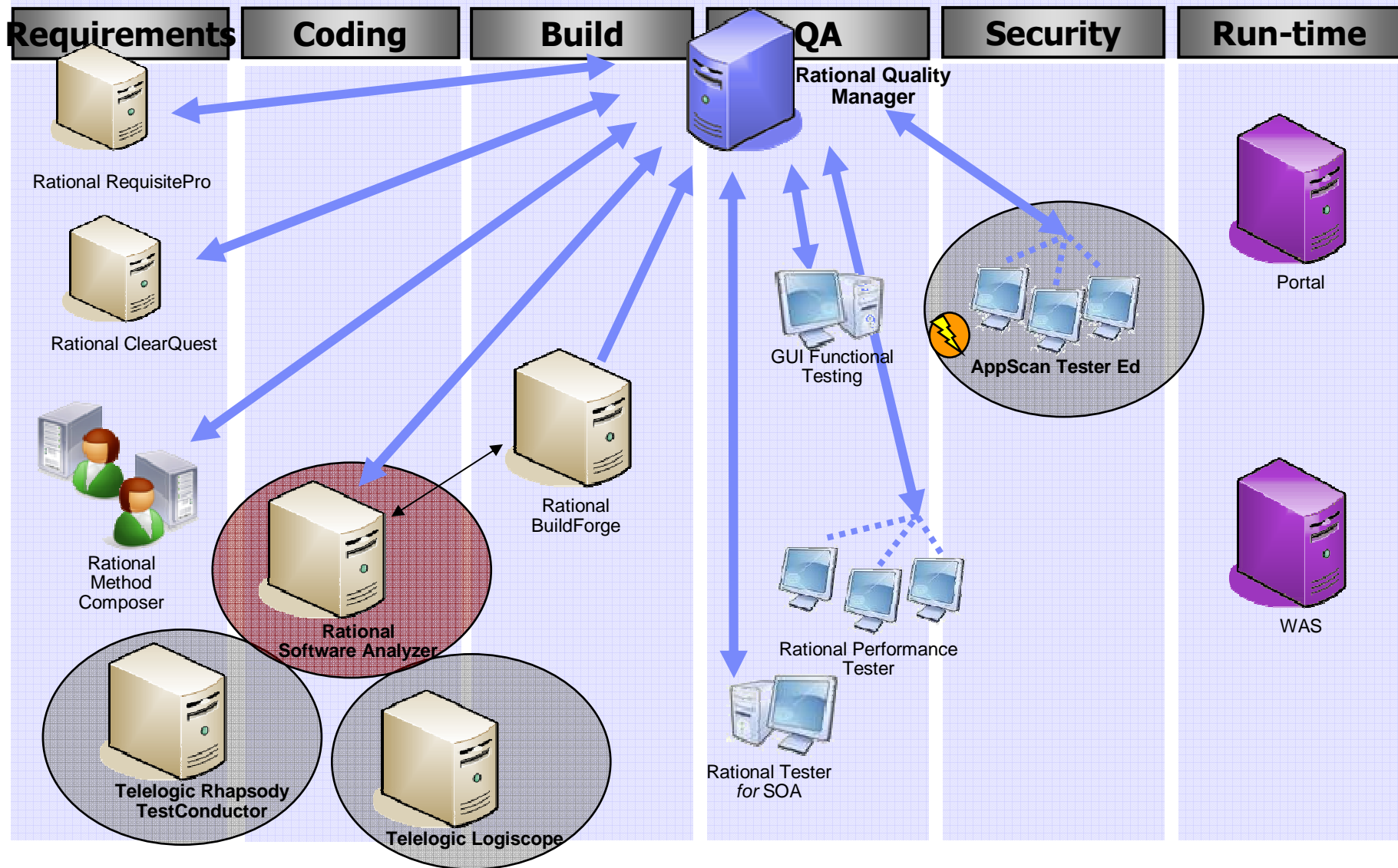


Battling the Super Villains

*Quality
Management
updates
2007 - 2008*



Quality Throughout the Life Cycle



Expanded
Environment
Support

Siebel

Version 7.9 & 8.0



Oracle Forms GUI Proxy

New



SAP JCo Batch Tests

Unequaled Scalability



*Packaged
Applications*



- Web 2.0

Expanded Environment Support



Flex

Functional GUI testing



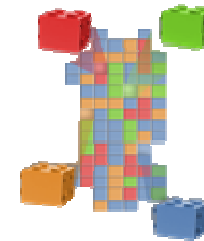
AJAX

Functional GUI testing



SOA

RESTful Architectures *SOAP 1.2*
MQ Transport *Custom security*



- Proxy and Protocol Extensions

Expanded Environment Support



Session Initiation Protocol (SIP)

Instant Messaging, Gaming, Telco



TCP/IP Socket Protocol

Performance testing



GUI Control Proxy SDK

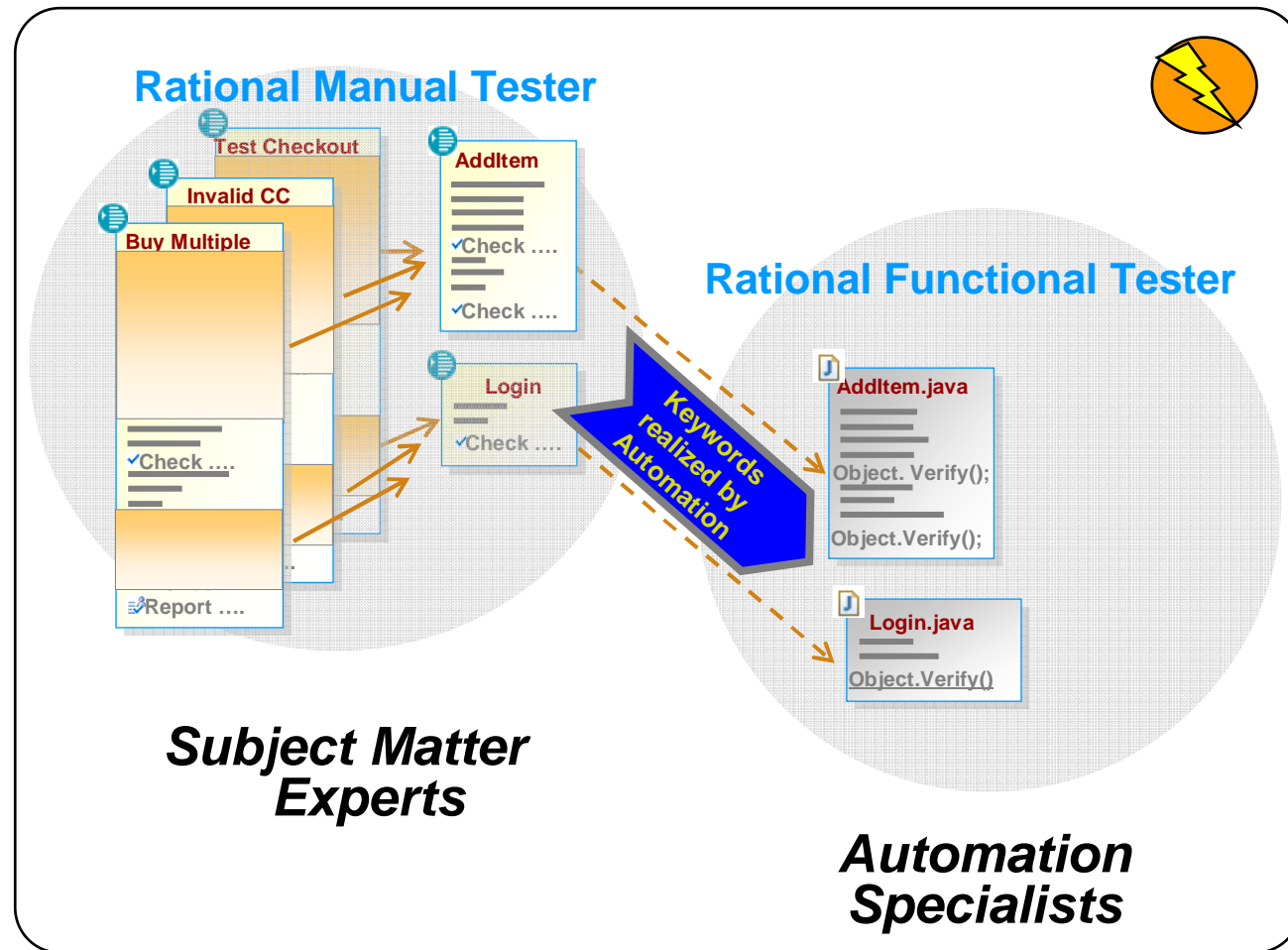
ORACLE

APPOINT

Infragistics
Powering The Presentation Layer



- Keyword testing
Enhanced
Productivity





Increased Productivity

Multi-staged schedule loads



Test - EoYSimulation - Rational Performance Tester

File Edit Navigate Search Project Data Run Window Help

Performance Schedule - EoYSimulation

Schedule Contents

This section shows the schedule contents

- EoYSimulation
 - Account Holders (80%)
 - AccountCheck
 - Browsers (15%)
 - AccountCheck
 - New Customers (5%)
 - AccountCheck

Schedule Element Details

EoYSimulation

User Load Think Time Resource Monitoring Statistics Test Log Response Time Breakdown Problem Determination

Users	Stage Durat...	Change Rate	Settle Time
5	10 Minutes	One/10 Seconds	30 Seconds
10	15 Minutes	One/5 Seconds	30 Seconds
20	20 Minutes	One/12 Seconds	30 Seconds
1	1 Minute	One/5 Seconds	30 Seconds

Show Advanced

Time limit for a user to respond to a stop request: 30 Seconds

User Load Preview

Change number of users from 10 to 20

Enabled Writable

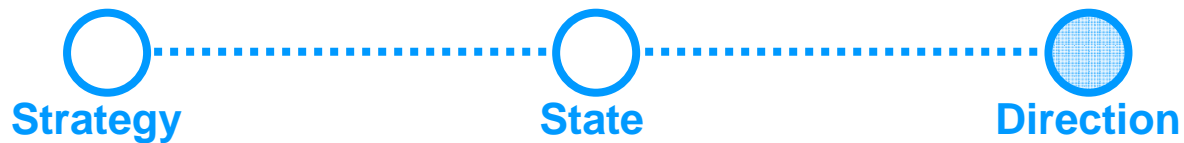
start Test - EoYSimulation - ... 1:15 PM

Battling the Storm

- Quality Management updates
2007 - 2008

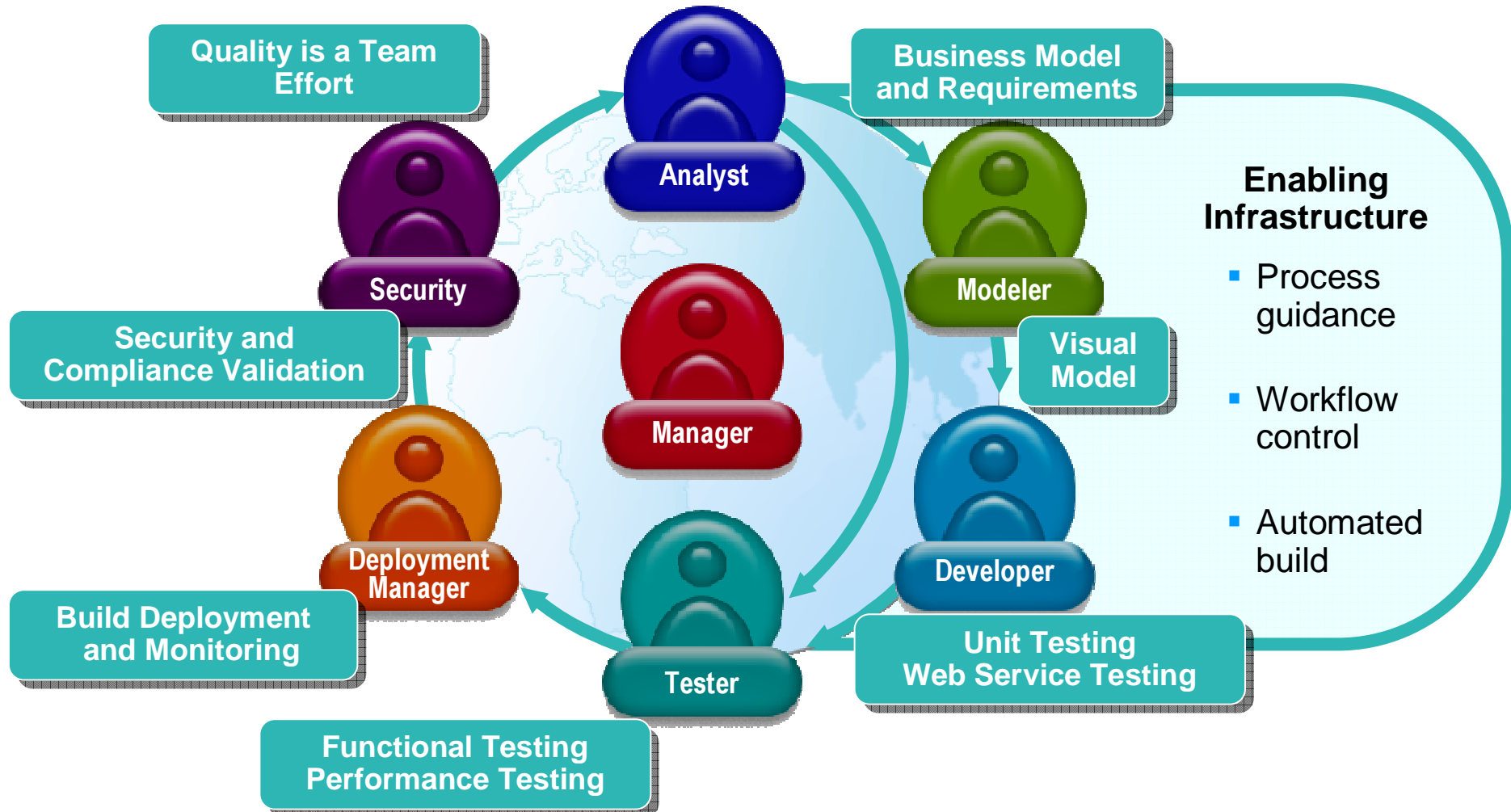


Today's Agenda



Quality management in action

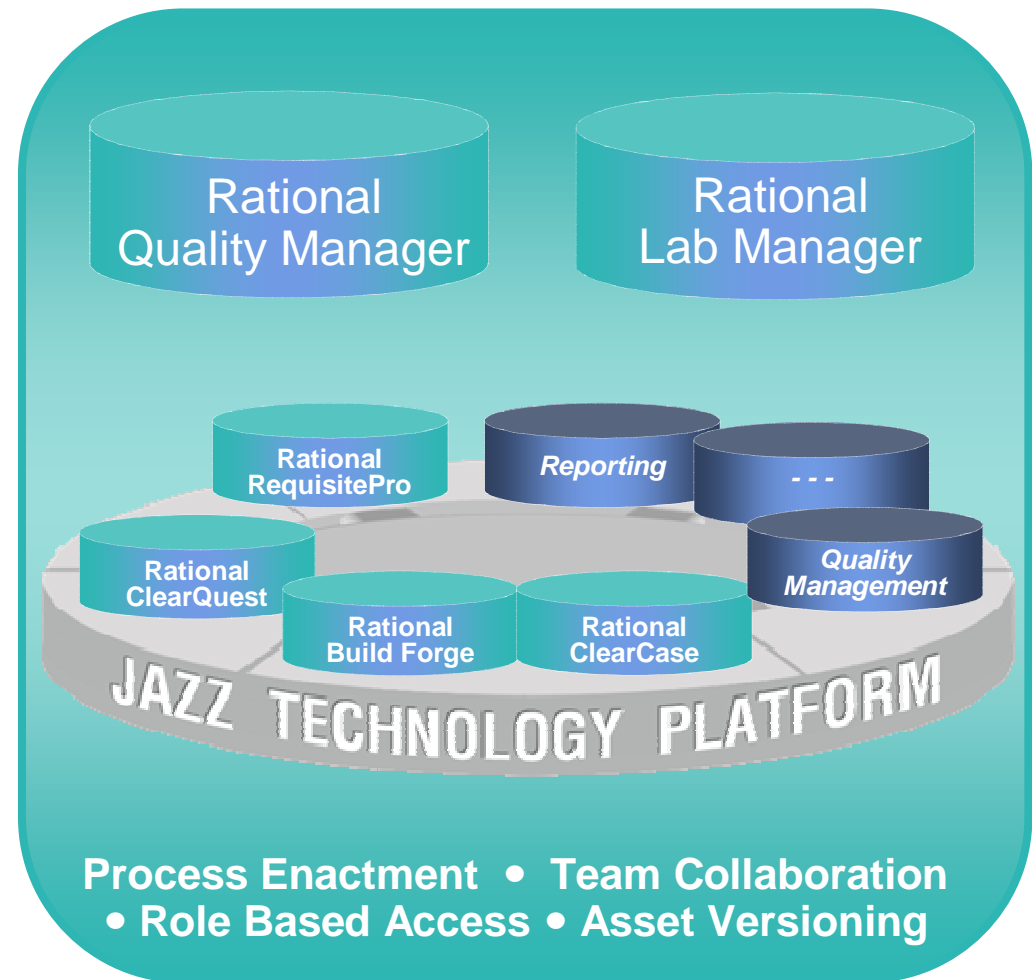
Continuous process, powered by automation to govern software delivery



New Quality Management Tools

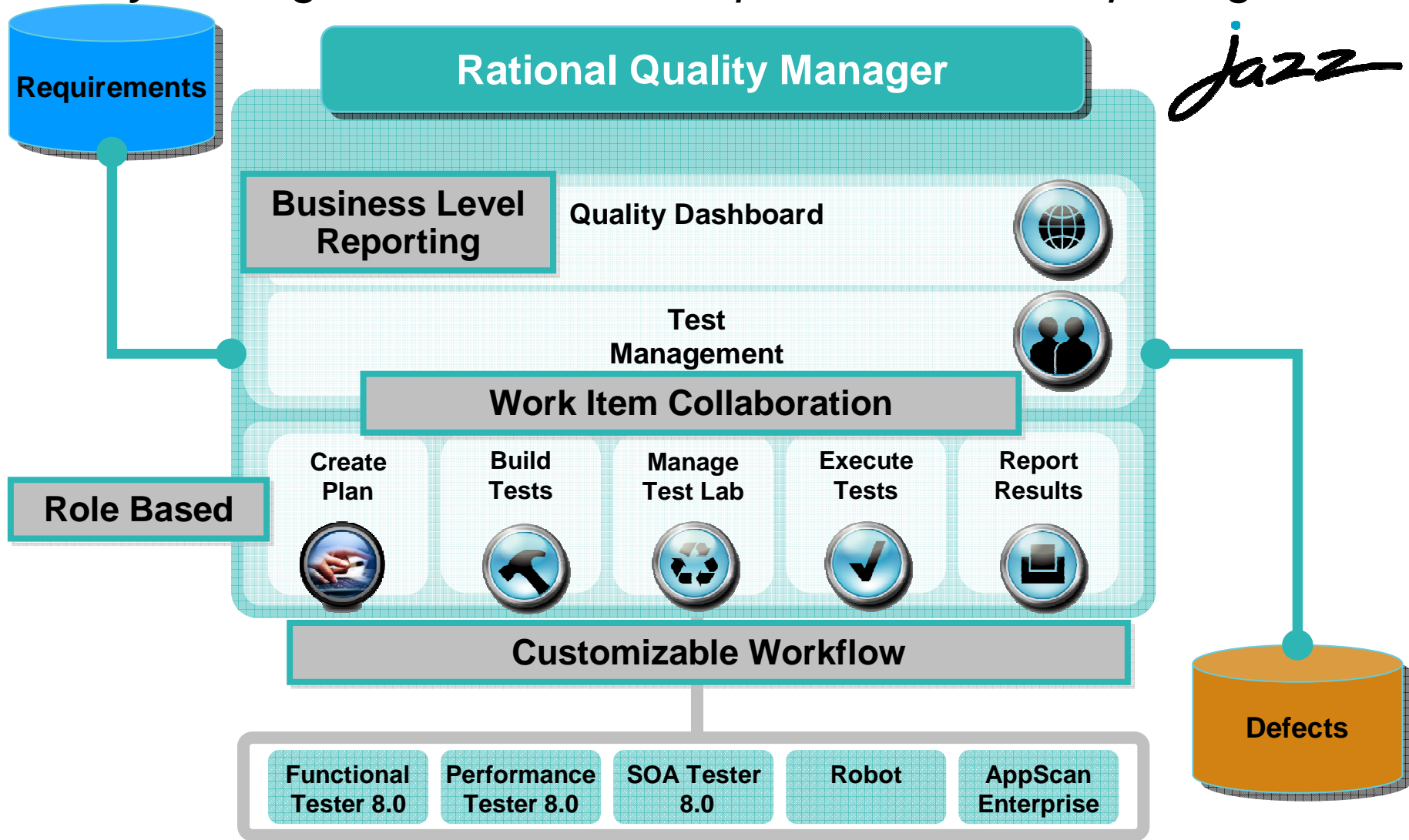
For Collaborative Quality Driven Software Delivery

- Web based solution for test and test lab management
- Align quality with business strategy
- Open and accessible test management platform
- Web Access for launch and control of testing tools
- Built on Jazz Platform



Quality in Action: Rational Quality Manager

Quality Management for the enterprise or the enterprising



The screenshot shows the Rational Quality Manager web application interface. At the top, it says 'Welcome Katie' and 'Project 001'. The main navigation bar includes 'Home', 'Planning', 'Construction', 'Lab Management', 'Execution', and 'Analysis'. The 'Katie's Home' dashboard is divided into several sections:

- My Tasks:** Lists tasks categorized by 'Newly Assigned (3 Items)', 'Today (3 Items)', and 'Future (1 Item)'. Tasks include 'Verify Build Verification test', 'Review Properties Test Case', and 'Create GUI Install Test Plan'.
- Team Load:** A bar chart showing the workload for team members: Katie Testlead (20 items assigned, 10 complete, Behind), Ted Tester (13 items assigned, 10 complete, On Time), Terry Tester (15 items assigned, 10 complete, Behind), and Uma Requester (21 items assigned, 15 complete, On Time).
- Event Log:** A list of system events such as 'Build 0986 has successfully finished' and 'Machine 0892-v2 has been reserved'.
- Overall Progress:** A line graph showing 'Test Case Points' over time, comparing 'Projected Complete' (grey line) and 'Actual Complete' (green line).
- Milestone:** A progress bar for 'Project ABC Milestone 4' starting on Nov. 15, 2007, and ending on Dec. 31, 2007, currently marked as 'Behind'.

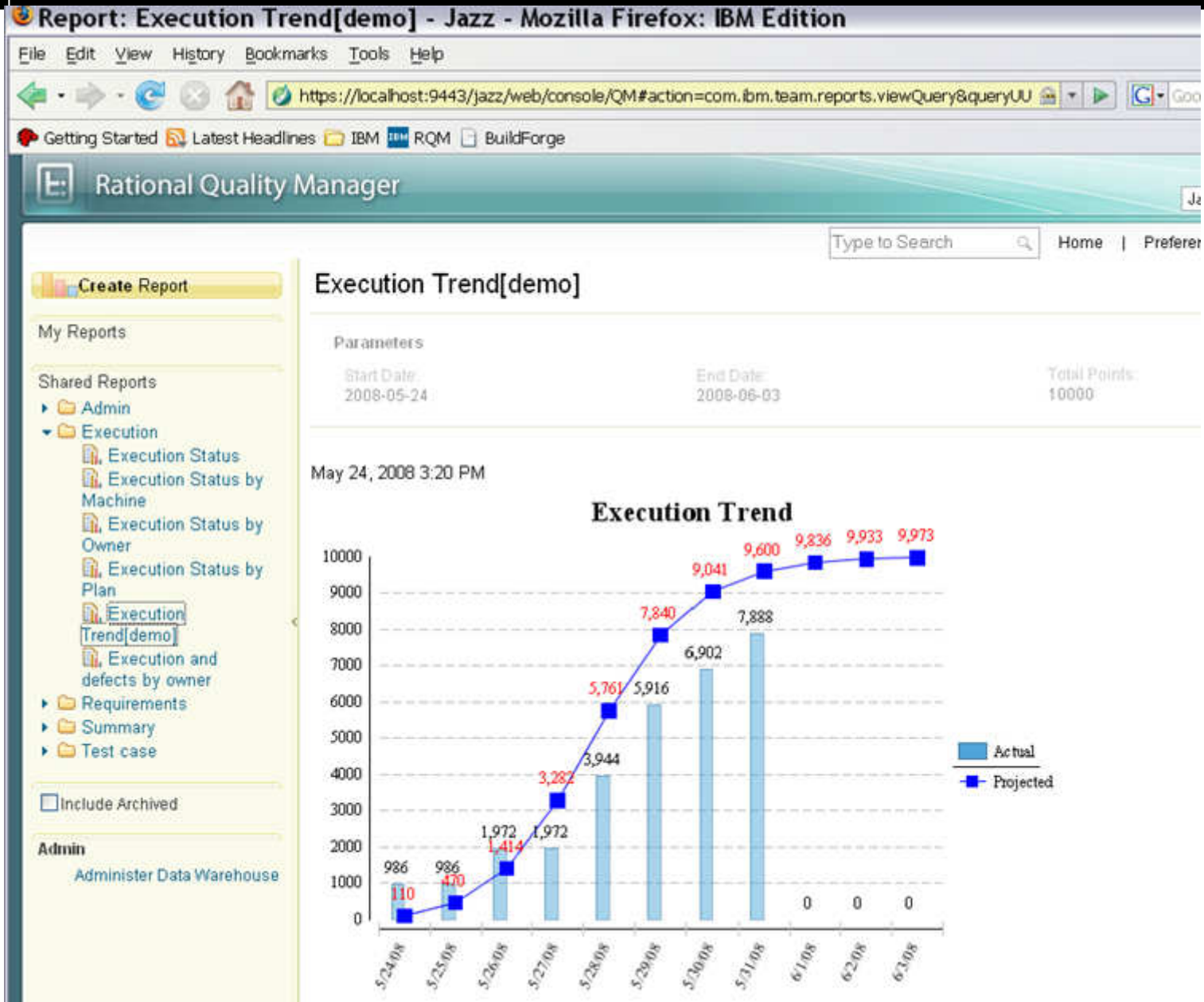
The footer of the application includes the IBM logo, copyright information '© IBM Corporation 1996, 2007', and 'Powered by jazz'.

Contextual Collaboration

Customized dashboard provides information you need to get your job done

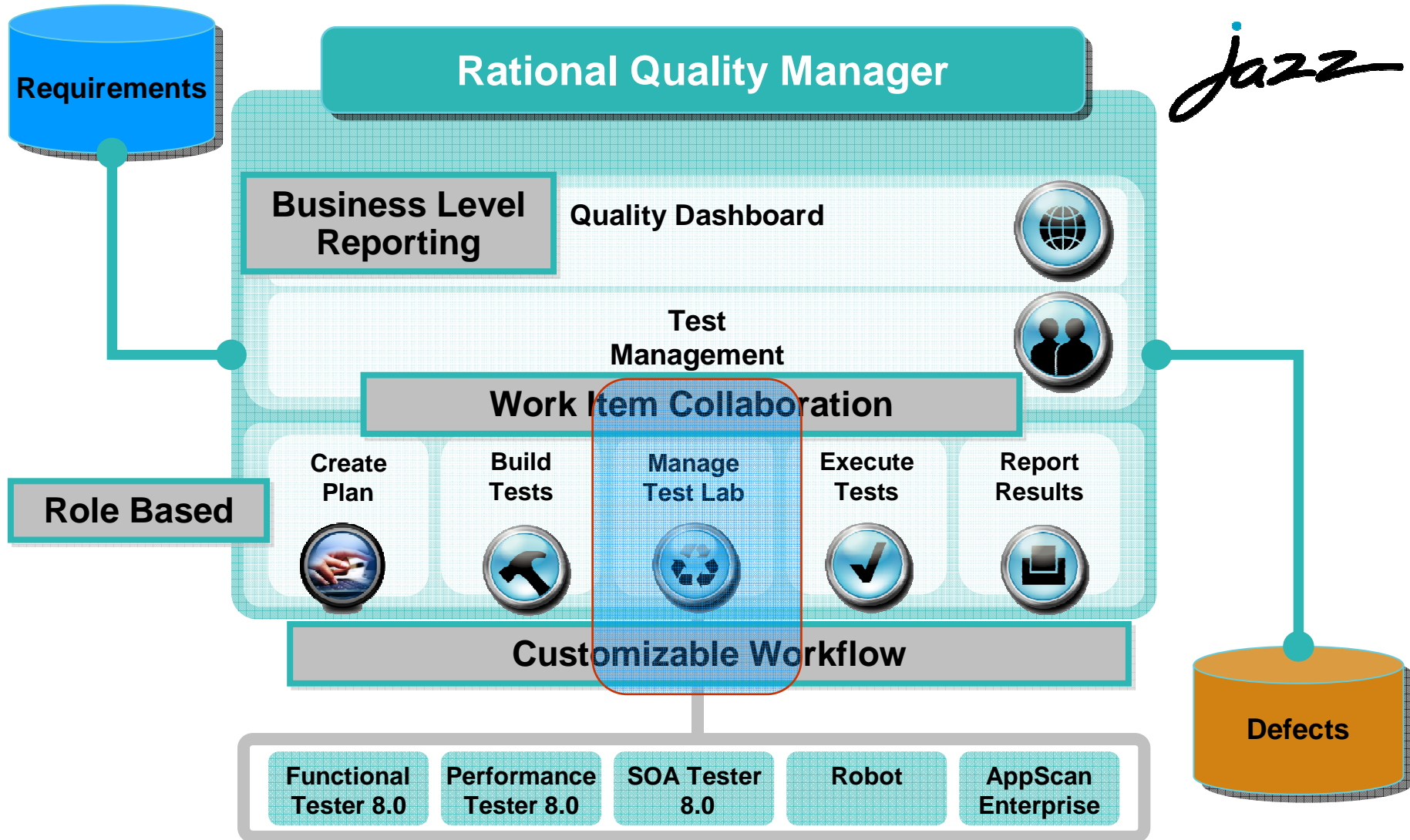


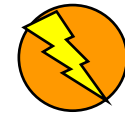
Project Dashboard and Reports



Quality in Action: Rational Quality Manager

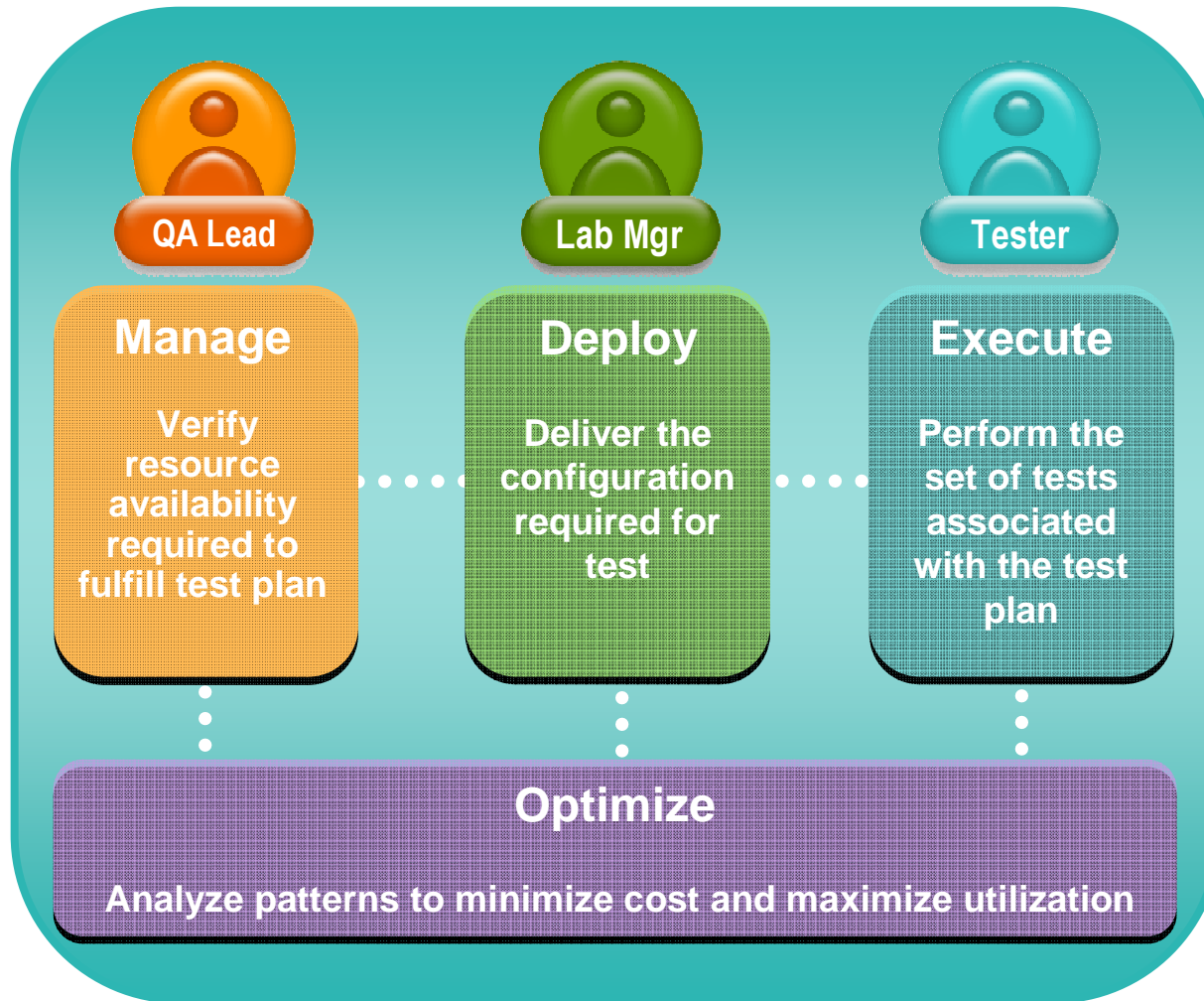
Collect, Execute and Inform for Quality Driven Software Delivery





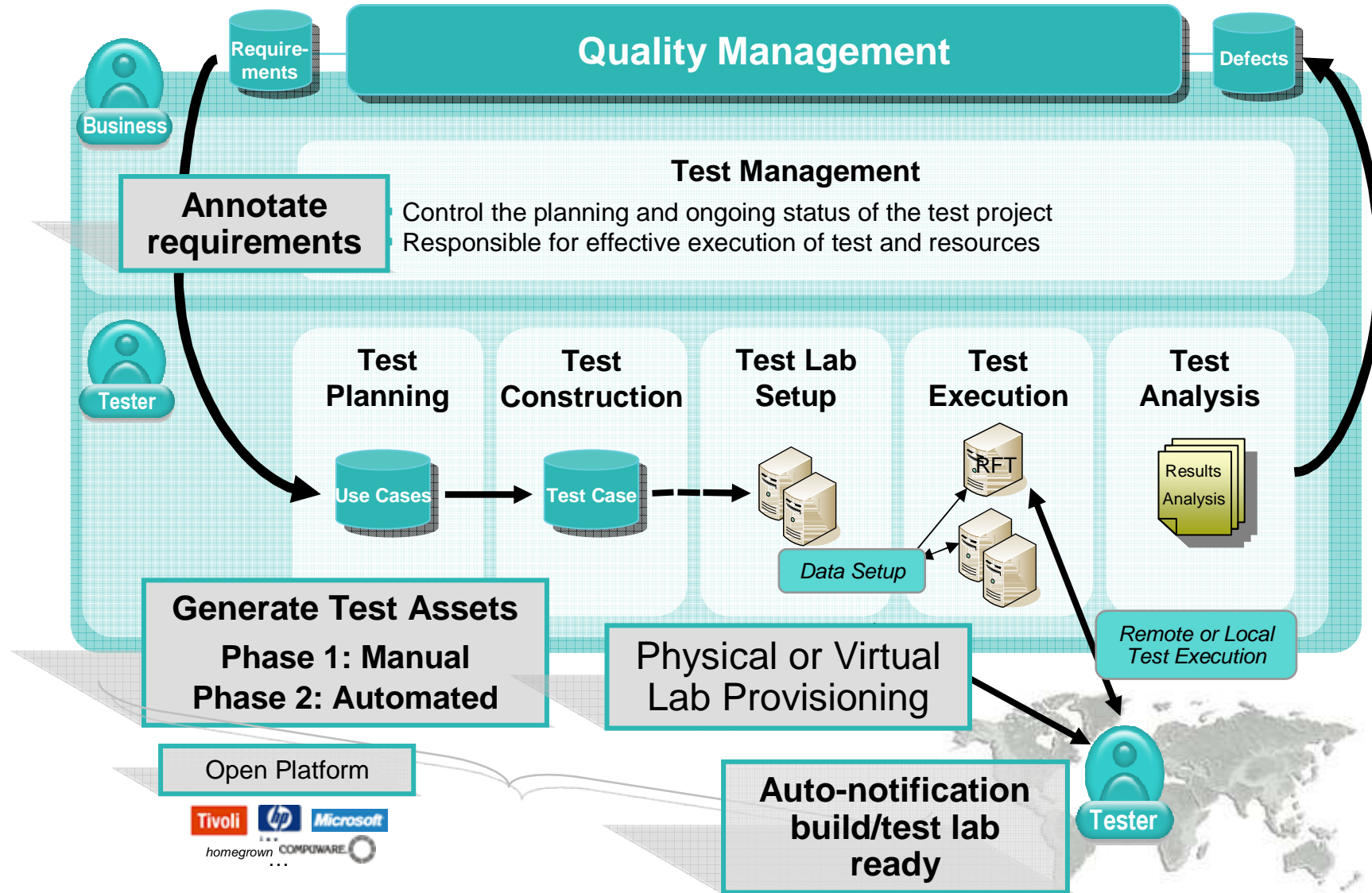
IBM Rational Test Lab Manager

Manage, Deploy and Execute test lab resources to accelerated testing

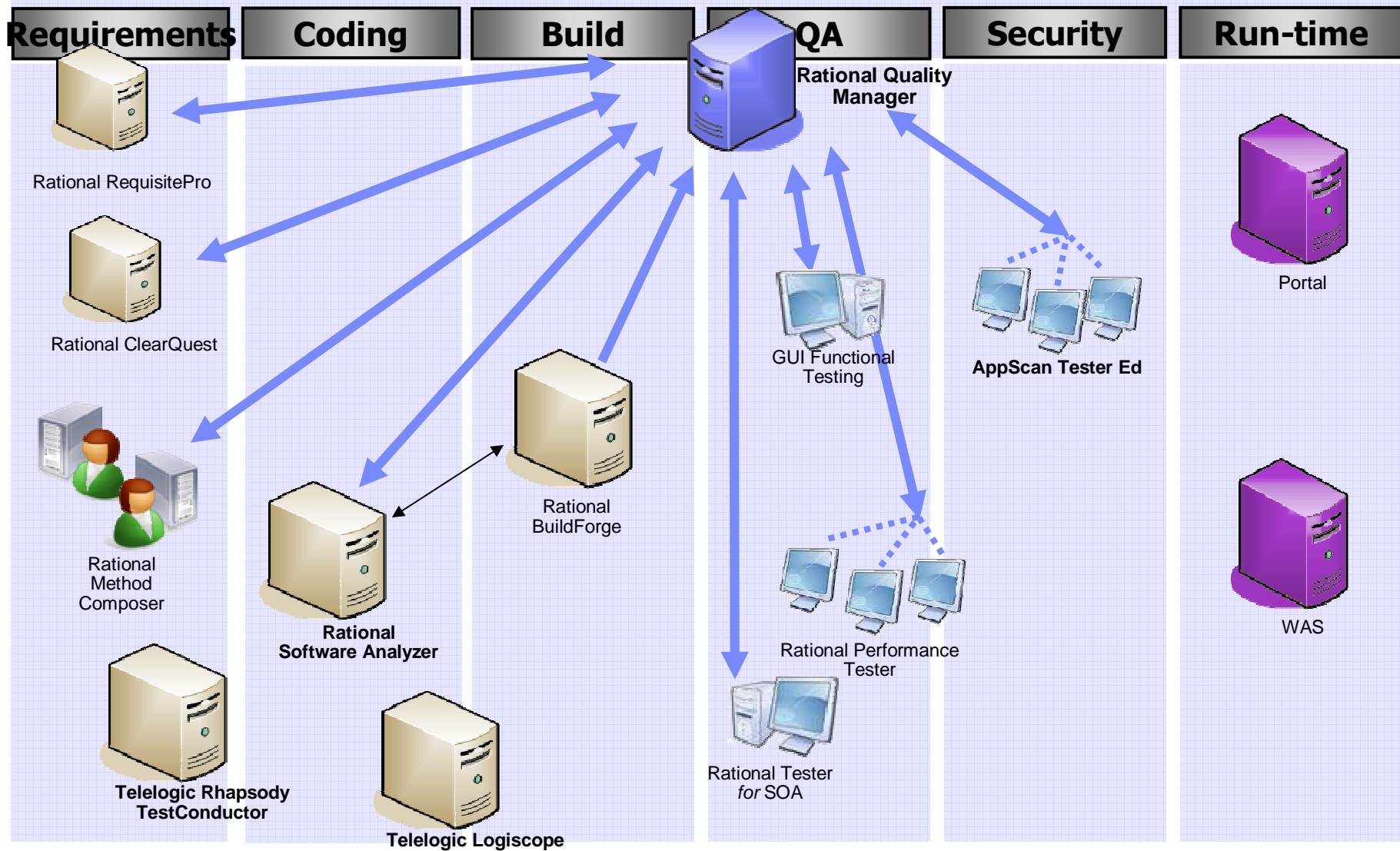


- A centralized asset inventory
- Automation tasks accelerate the delivery of test configurations
- Asset reservation system
- Utilization metrics
- Integration of physical and virtual systems maximizes flexibility

Quality in Action: Rational Quality Manager



Quality Throughout the Life Cycle



Special Announcement: Open Beta Program

- Rational Quality Manager
- Rational Test Lab Manager
- Rational Functional Tester
- Rational Performance Tester
- Rational Service Tester for SOA Quality

**June
24th**

<https://www14.software.ibm.com/iwm/web/cc/earlyprograms/rational/QMOpen/>





THANK YOU

- **Learn more at:**

- [IBM Rational software](#)
- [IBM Rational Software Delivery Platform](#)
- [Process and portfolio management](#)
- [Change and release management](#)
- [Quality management](#)
- [Architecture management](#)
- [Rational trial downloads](#)
- [Leading Innovation Web site](#)
- [developerWorks Rational](#)
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QUESTIONS



