



IBM Rational Software Conference 2009  
As Real as It Gets!



## All that Jazz – Innovation in Application Lifecycle Management Tools

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**Rational.** software



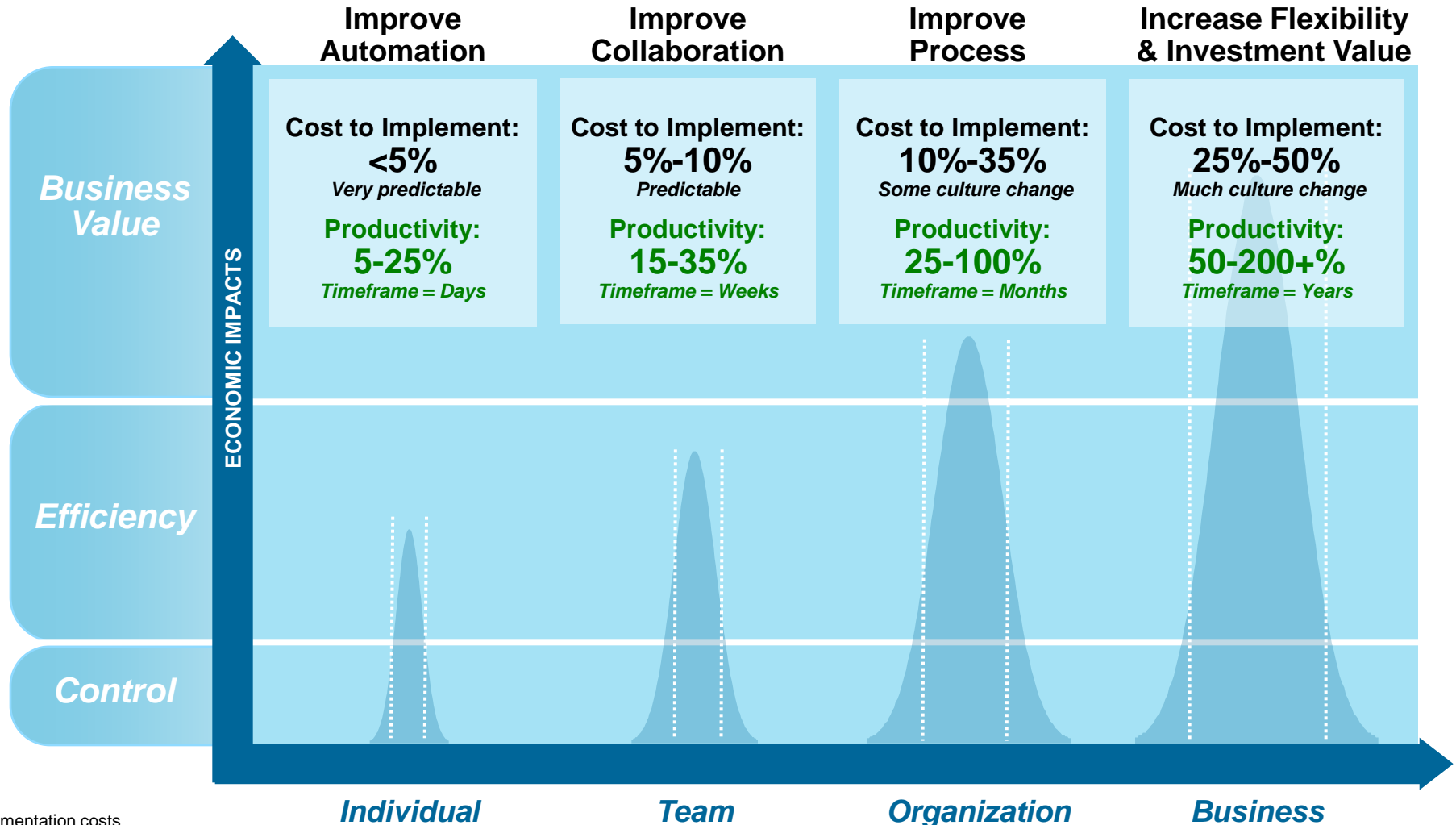
IBM Rational Software Conference 2009  
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- Goals of Jazz project
- Measuring the Application Lifecycle
- Open Services for Lifecycle Collaboration
- ALM integrations

**Rational.** software

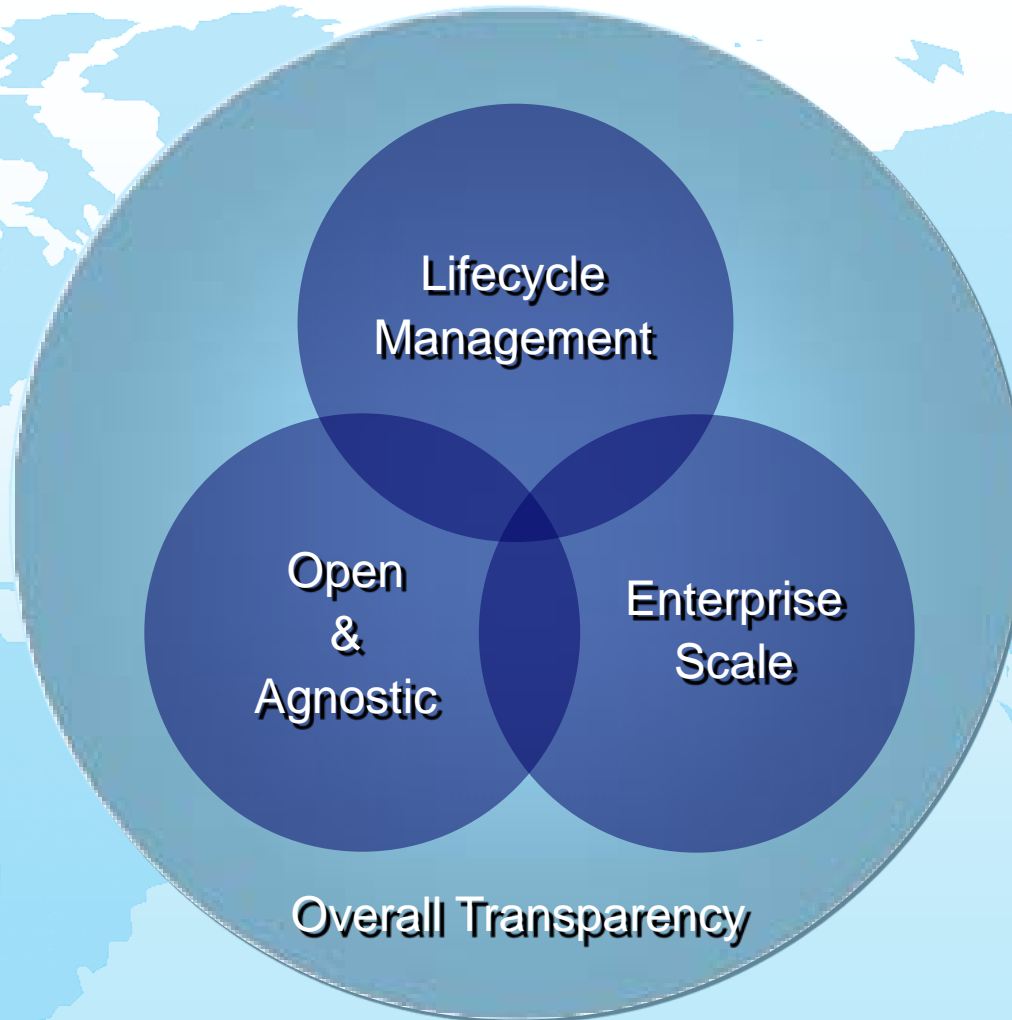
# Manage risks and optimize business outcomes through a software development platform



Implementation costs are per person per year



# Three areas of focus for Jazz Foundation



# Transparency – Jazz.net

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Jazz  
 COMMUNITY SITE

We're building a new generation of products to help make software development more collaborative, productive and enjoyable.

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**Explore**  
projects

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products

### Jazz Team Blog

**Enterprise performance and scalability testing**  
By Jean-Michel Lemieux

Fri, 03 Apr 2009 @ 09:41:40

If you've been reading some of our previous blog posts (wan performance testing using metronome, selfhosting sizing numbers, repository workspace scalability,...

[More >](#)

### Upcoming Events

**Rational Software Conference 2009**

31 May - 4 June 2009 in Orlando, FL

It's no secret that in today's economy, we are facing more challenges than ever. And...

[More >](#)

**Jazz Research Event at ICSE 2009**

19 May 2009 in Vancouver, Canada

Please join us at the Jazz Research Reception taking place at the International Conference...

[More >](#)

## Rational Quality Manager and Rational Test Lab Manager now available!

Fri, 20 Mar 2009

We are pleased to welcome Rational Quality Manager and Rational Test Lab Manager to jazz.net.

Now available for download: 1.0.1.1 and 2.0 Beta 1.

[Read more in the blog >](#)

### Announcements

**Rational Quality Manager ecosystem now expanded**

Fri, 27 Mar 2009

Adapters for interfacing Rational Quality Manager with HP Quick Test Professional and HP LoadRunner are now available for download on jazz.net with the Rational Quality Manager 1.0.1 release. With these adapters, you can associate HP Quick Test Professional and HP LoadRunner scripts with Rational Quality Manager test cases, initiate the execution of the test cases, and visualize the results directly within Rational Quality Manager.

[Download >](#)

**Rational Team Concert 1.0.1.1 now available**

Fri, 27 Feb 2009

This release of IBM Rational Team Concert extends team collaboration to Microsoft .NET developers with a new client that works with Microsoft Visual Studio 2005 and 2008. Customers can reduce their costs with a single repository for both .NET and J2EE platforms. This release supports cross

Buy

**Rational Products**

→ at [ibm.com](http://ibm.com)

**IBM.**

#### Featured Downloads

- Rational Quality Manager and Rational Test Lab Manager 1.0.1.1**
- Rational Requirements Composer 1.0.0.1**
- Rational Team Concert 1.0.1.1**

[All Downloads >](#)

#### In The News

**From the Eclipse Platform to the IBM Rational Jazz Platform SDLC blog**  
Monday, 20 April 2009

**Jazz - Better the Second Time Around?**  
dtoczala.wordpress.com  
Wednesday, 8 April 2009

**Jazz in the Real World**  
dtoczala.wordpress.com  
Thursday, 2 April 2009

[More information >](#)



# Jazz.net – New Projects and Technologies!

- New products onboard!
  - ▶ Rational Team Concert
  - ▶ Rational Quality Manager/Rational Test Lab Manager
  - ▶ Rational Requirements Composer
  - ▶ Rational Focal Point for Project Management
- Easier navigation and an overall improved user experience
- More materials available outside the registered login area. Optimized for google searches, etc.
- Searchable library of contents (documents, video, presentations, etc.)
- Using Twitter to increase community awareness, social networking.

**Jazz Projects**

We host the following development projects right here on Jazz.net. Take a look around and get involved!

**Rational Quality Manager and Rational Test Lab Manager**  
 Rational Quality Manager is a centralized test management environment that helps increase the efficiency and quality of software delivery through test planning, workflow control, tracking and traceability, and metrics reporting. Rational Test Lab Manager, an extended component of Rational Quality Manager, helps to improve the efficiency of the test lab environment and optimize its utilization, cutting workload and saving on test infrastructure.

**Rational Requirements Composer**  
 IBM Rational Requirements Composer provides a platform for collaborative requirements definition that enables business analysts, client stakeholders and software development teams to elicit, capture, elaborate, discuss, review, and validate requirements using a variety of requirements definition techniques and collaboration capabilities.

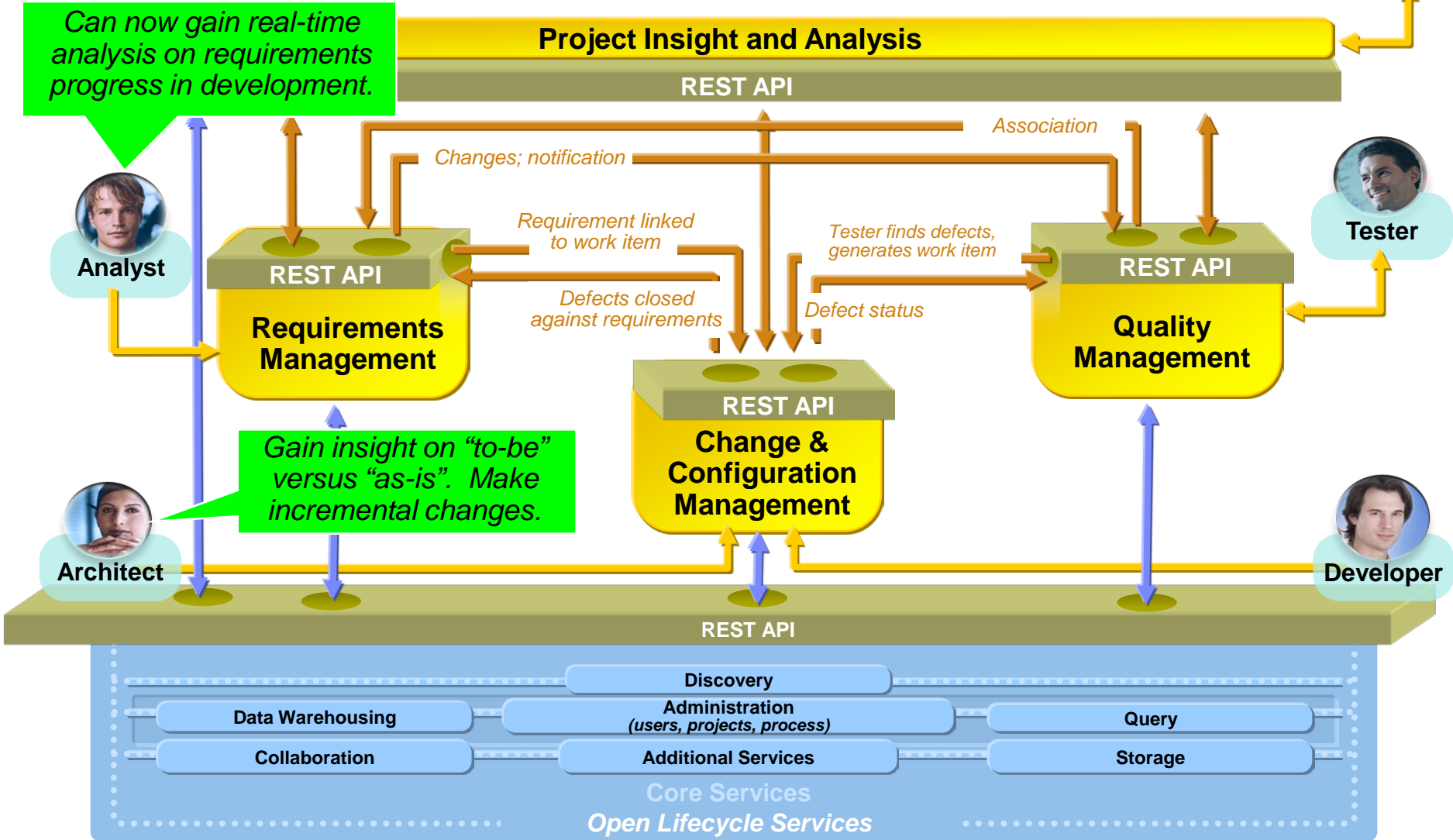
**Rational Team Concert**  
 IBM Rational Team Concert is a team-aware software development platform that integrates work item tracking, builds, source control, and agile planning. Rational Team Concert interoperates with other products by providing Visual Studio integration and connectors for ClearCase and ClearQuest.

**Collaborative ALM**  
 The Collaborative ALM integrations leverage and build upon the Jazz Foundation to increase the productivity of software delivery teams by unifying the disciplines in software lifecycle using in-context collaboration on software artifacts, web-like artifact navigation, and status tracking across

**Community Resources**  
 Join the conversation and interact with developers and community members:  
[Jazz.net Forums](#)  
[Jazz Team Blog](#)  
[Jazz Team Wiki](#)  
[Jazz Mailing List](#)

**Related Downloads**  
[Rational Quality Manager and Rational Test Lab Manager 1.0.0.1](#)  
[Rational Requirements Composer 1.0.0.1](#)  
[Rational Team Concert 1.0.1.1](#)  
[All Downloads >](#)

# The Software Delivery Platform – Unity in the Lifecycle



# The Software Delivery Platform – Unity in the Lifecycle

**Development Manager Portal**

Projects: Auction

Reports: Cognos > Public Folders > Auction Project Reports

Search: Name field

**Project Status Dashboard**

**Selected Report**

**Requirements Traceability Matrix**

Parameters

Project: Auction

Type: Usecase Requirement

ID	Tag	Name	Status	Priority	High Level Requirement	Related Defects	Related Activities	Related Test Cases
29	UC1	Arrange Shipment	INCORPORATED	SHOULD	<a href="#">FEAT1</a>			<a href="#">Add New Customer</a>
30	UC1.1	Brief Description	INCORPORATED	COULD	<a href="#">FEAT2</a>			
31	UC1.2	Basic Flow	INCORPORATED	COULD	<a href="#">FEAT2</a>			<a href="#">Add New Products</a>
32	UC1.3	INVENTORY NON AVAILABLE	PROPOSED	COULD	<a href="#">FEAT4</a>			<a href="#">Administer Orders</a>
33	UC1.4	INVALID INFORMATION	INCORPORATED	MUST	<a href="#">FEAT3</a>			<a href="#">Add New Products</a>
34	UC1.5	NO RESPONSE	PROPOSED	SHOULD	<a href="#">FEAT4</a>			<a href="#">Add New Products</a>
35	UC1.6	ORDER PLACED	INCORPORATED	SHOULD		<a href="#">SAMPL00000007</a>	<a href="#">SAMPL00000007</a>	<a href="#">Existing Customer Order</a>
36	UC1.7	SUCCESS	PROPOSED	SHOULD				<a href="#">Login</a>
37	UC2	Check Order	INCORPORATED	SHOULD	<a href="#">FEAT4</a>			<a href="#">New</a>

See EXACTLY which requirements have developer activities or related test cases. Guarantee that this release has the right requirements included.

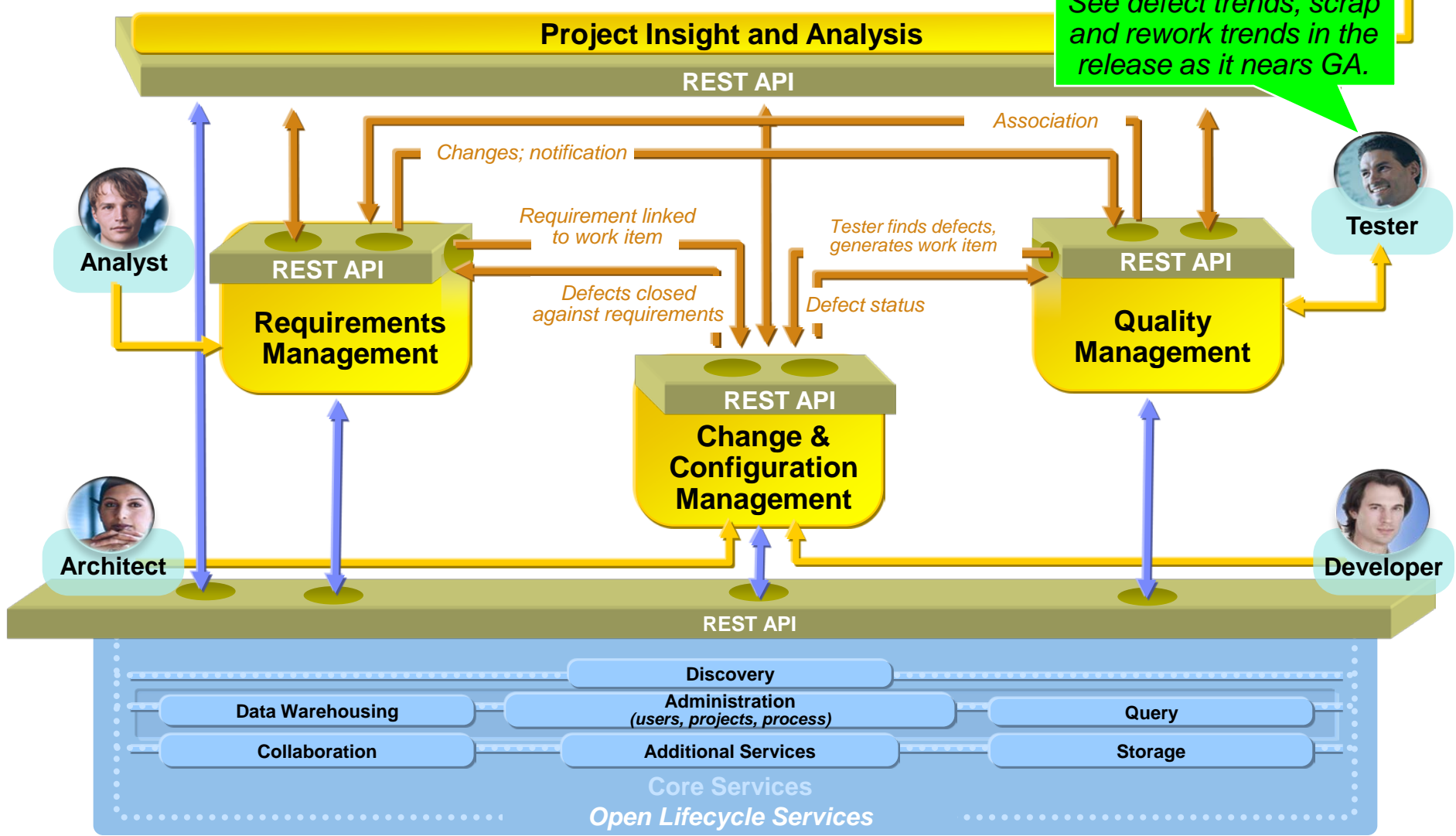


# The Software Delivery Platform – Unity in the Lifecycle

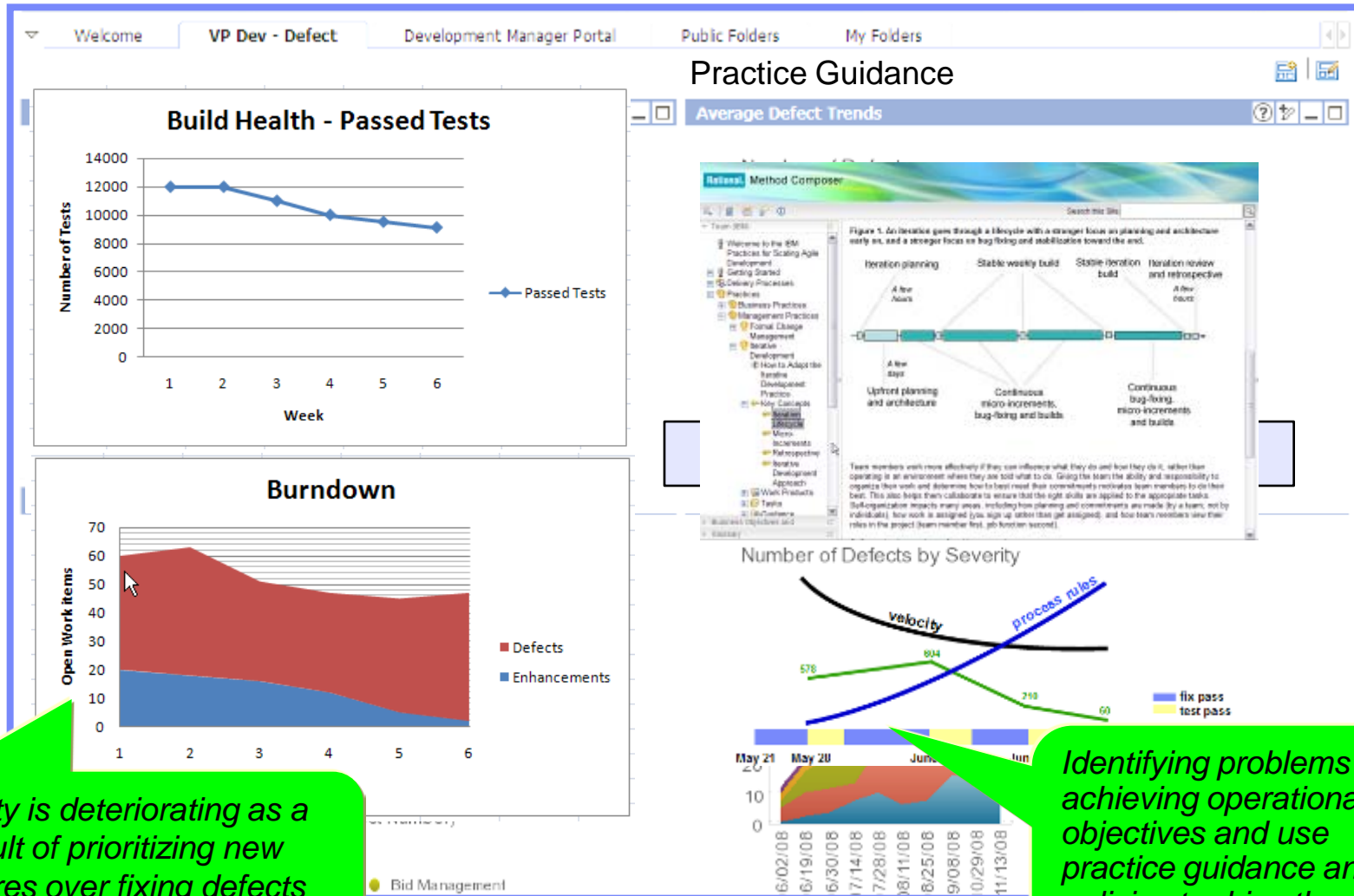


Team Lead

See defect trends, scrap and rework trends in the release as it nears GA.



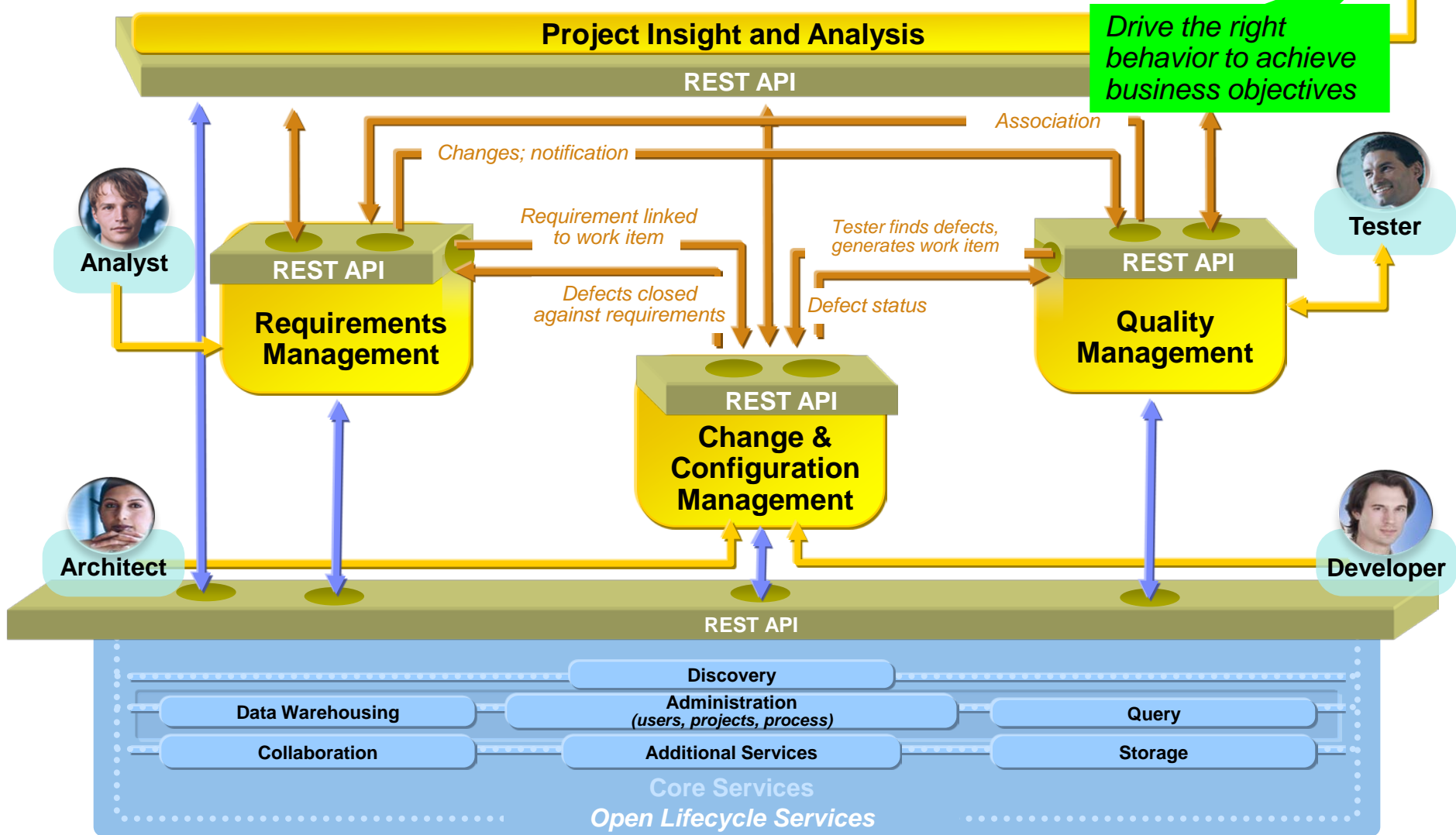
# Map your improvement objectives to best practices



Quality is deteriorating as a result of prioritizing new features over fixing defects towards the end of iterations.

Identifying problems for achieving operational objectives and use practice guidance and policies to drive the right behaviors

# The Software Delivery Platform – Unity in the Lifecycle



# The Platform can enforce policy and right behavior

The screenshot displays the IBM Rational Team Concert interface. On the left, a tree view shows 'All Team Areas' with 'Peter's Work' selected. The main area is divided into 'Configuration' and 'Operation Behavior' sections. A 'Team Advisor' dialog box is open, showing a list of operations with a red error icon for 'Deliver (1 error) [client] 11:38:49'. The error message reads: 'Change set missing required comment or work item.' Below the error, 'Quick Fix' options are listed: 'Associate Existing Work Item', 'Associate New Work Item', and 'Associate and Try Again (experimental)'. A green callout bubble points to the 'Deliver' operation in the list, and another points to the 'Quick Fix' options. A third green callout bubble points to the 'Preconditions' section of the 'Operation Behavior' configuration, which lists 'Clean Workspace', 'Descriptive Change Sets', and 'Require Work Item Approval'.

*Configurable Rules can be run to enforce team or organizational standards. Can be refined "on the fly" for continuous improvements*

*"Quick Fixes" can be specified to simplify corrective action. Out of the box processes include OpenUP, Scrum, The Eclipse Way, etc*

... whether the selected  
ready for delivery  
team's development

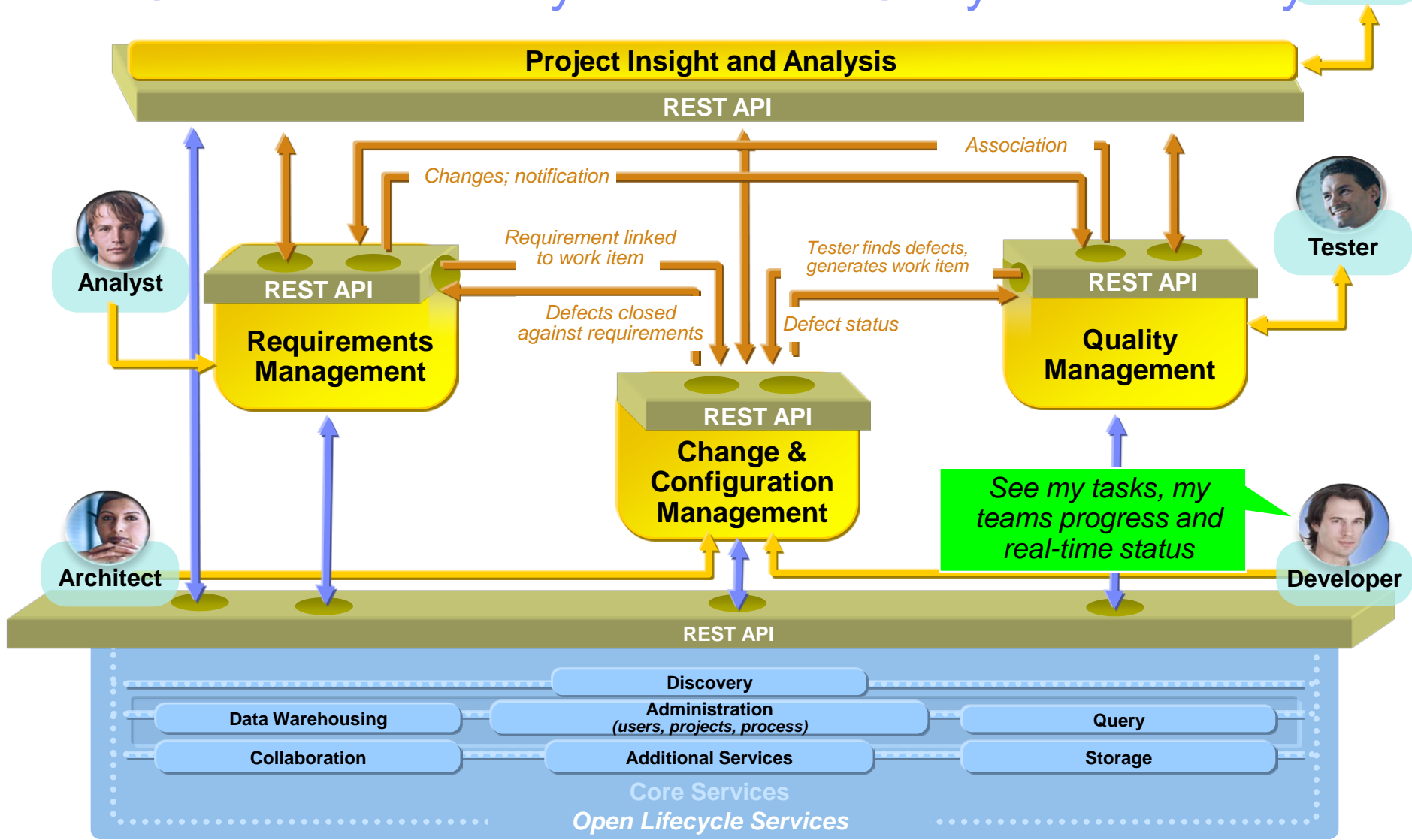
... strictly enforced  
hasn't been followed,  
delivery will be blocked.

**Source Workspace:** TC Workspace

**Target Stream:** Eval

**Result:** no problems found

# The Software Delivery Platform – Unity in the Lifecycle

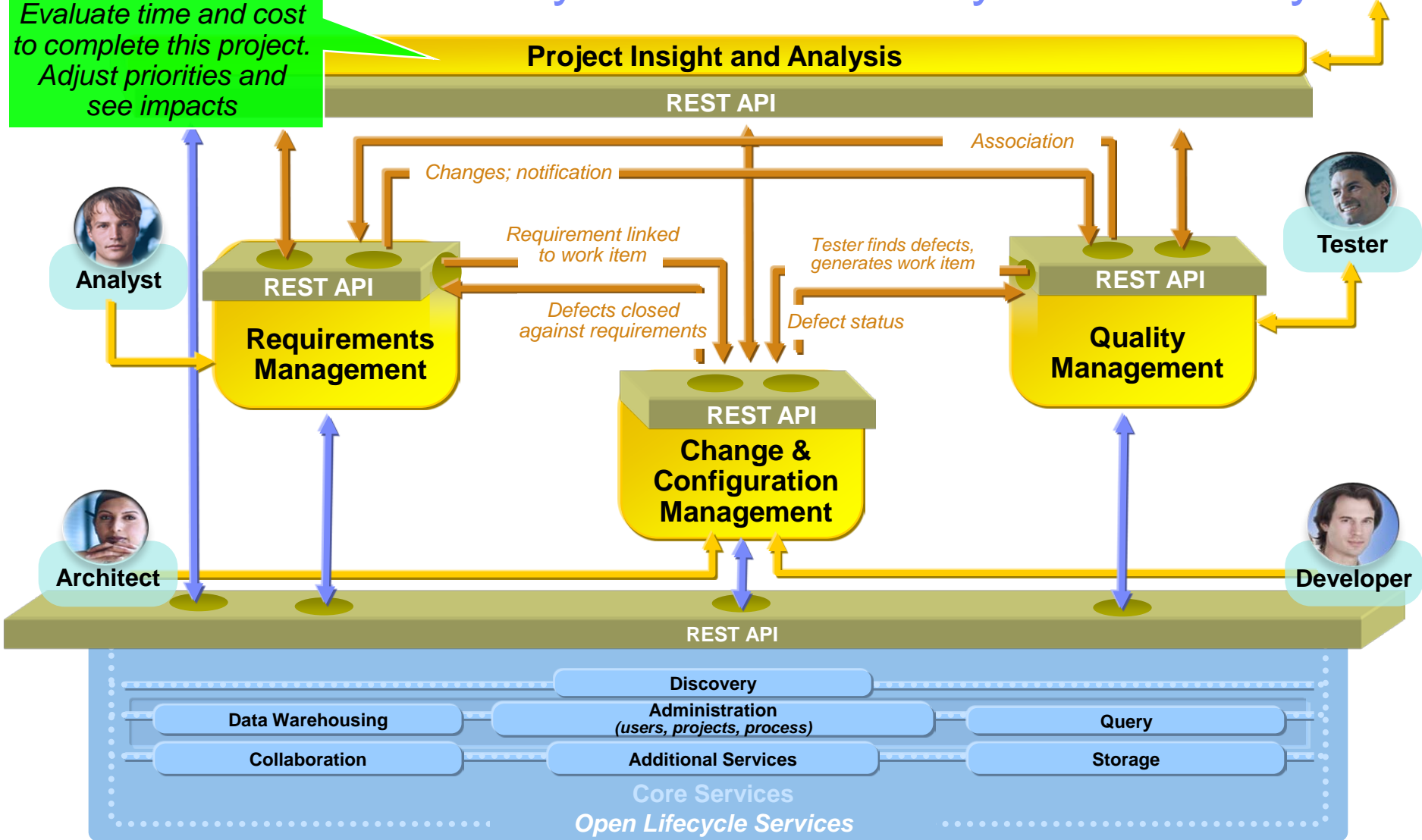


# The Software Delivery Platform – Unity in the Lifecycle



# The Software Delivery Platform – Unity in the Lifecycle

Evaluate time and cost to complete this project. Adjust priorities and see impacts



# A Discriminating System

*Lets You Measure, Assess and Improve Information Blindspots*

**Improving**



**Where You Should Be!**

**Assessing**

**Where You Are**

- Productivity Rates
- Quality Levels

**Why You Are**

- Process Assess
- Product Health

**Measuring Information Gaps**

**Software Lifecycle Artifacts**

- Change & Configuration Management
- Rational Definition & Management
- Quality Management
- Build & Release Management
- Architecture Management
- Security & Compliance

**3rd Party Data Artifacts**

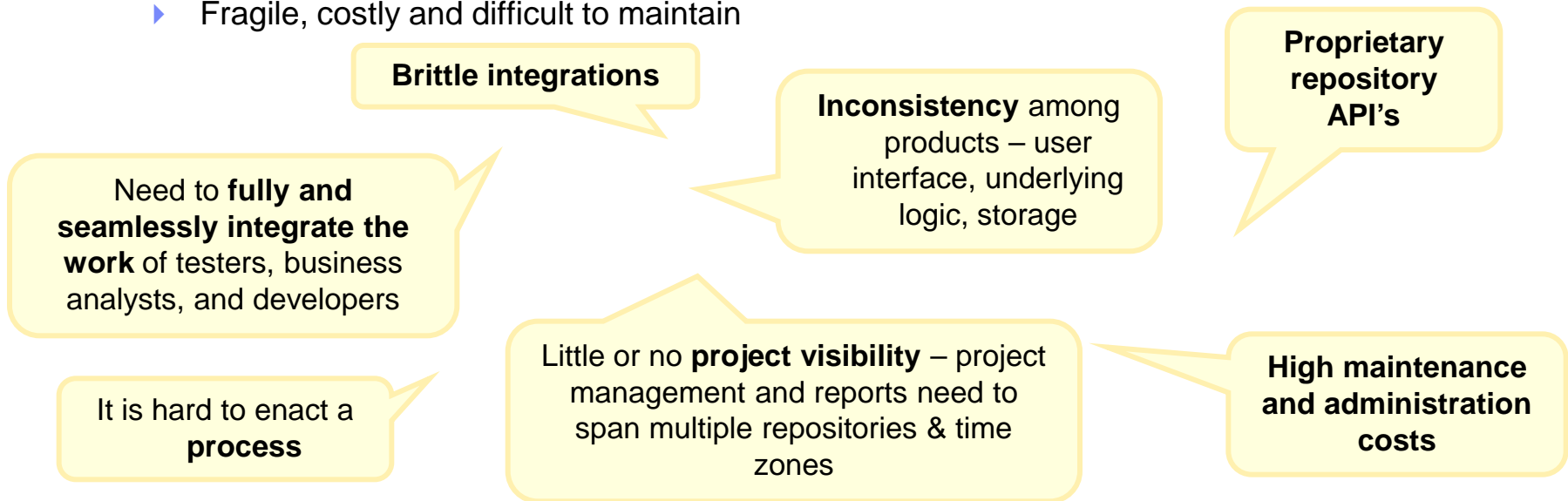
- Project Data
- Headcount & Financials
- Sales & Pipeline
- Customer Support
- Manual Data



# ALM Integrations... a blessing and a challenge...

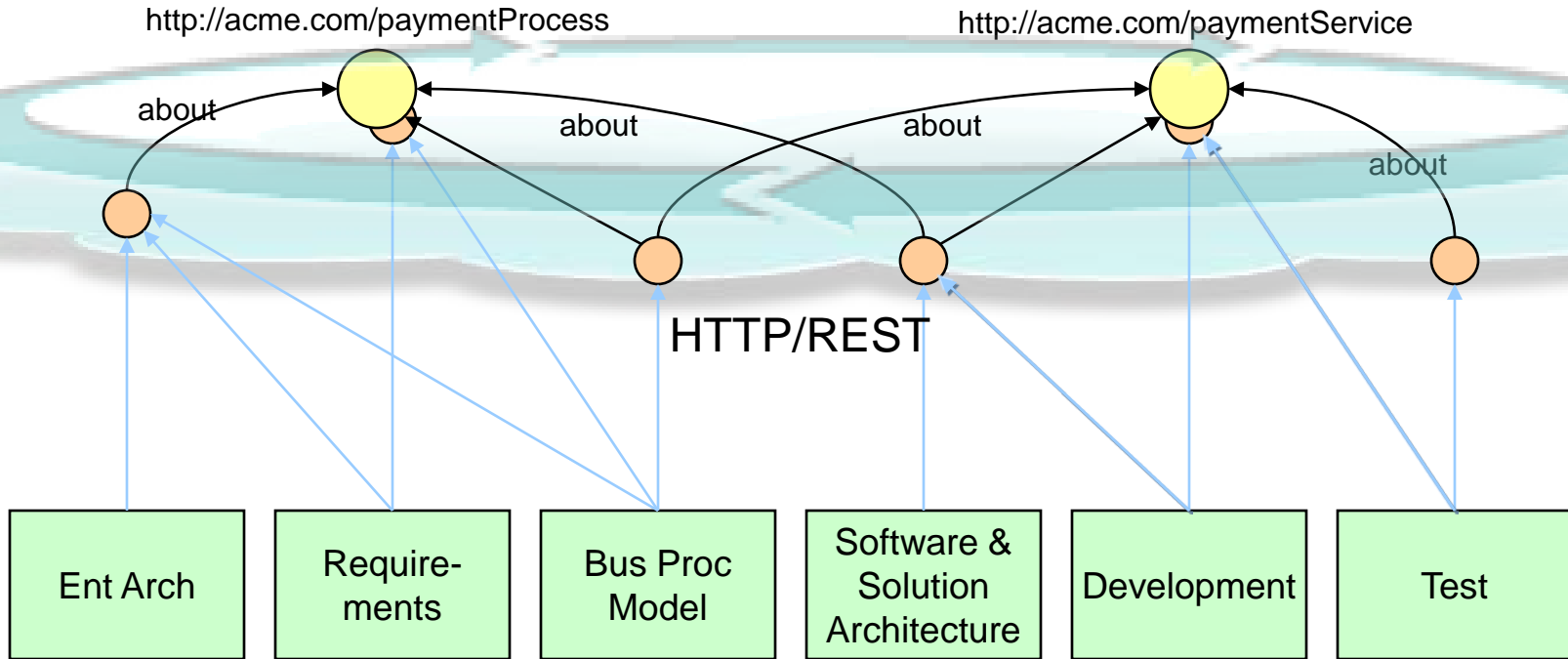
## ■ Integrations are

- ▶ One of the primary reasons customers buy Rational products.
- ▶ A major source of support problems after purchase.
- ▶ Fragile, costly and difficult to maintain



- Customers have requested integrations for many years, this is not new.
- What's new is our approach to solving the problem via the Jazz Integration Architecture.

# Data Integration – the new way – “www linked data”



# Open Services for Lifecycle Collaboration

*An initiative aimed at simplifying tool integration across the software delivery lifecycle*

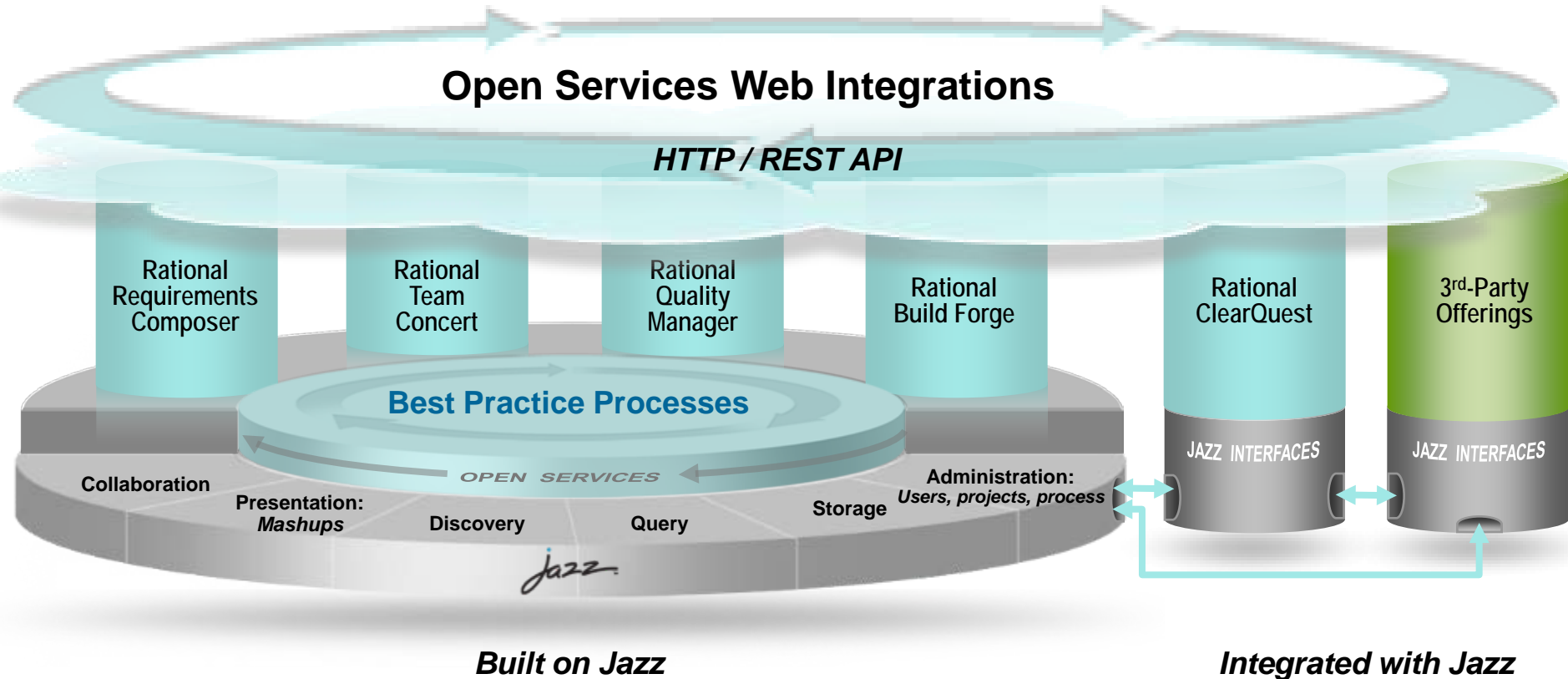
## Open Services for Lifecycle Collaboration

Barriers to sharing resources and assets across the software lifecycle

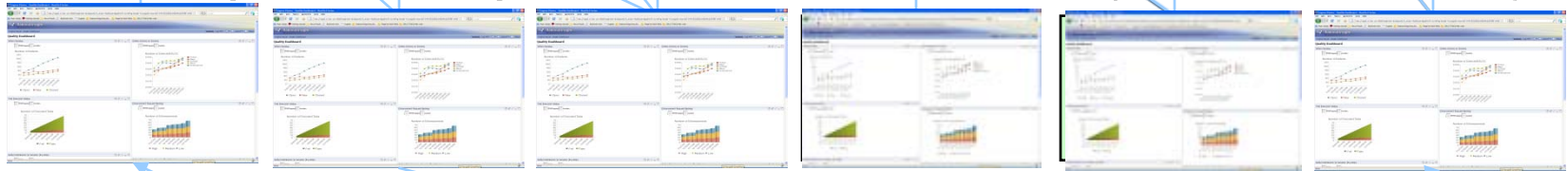
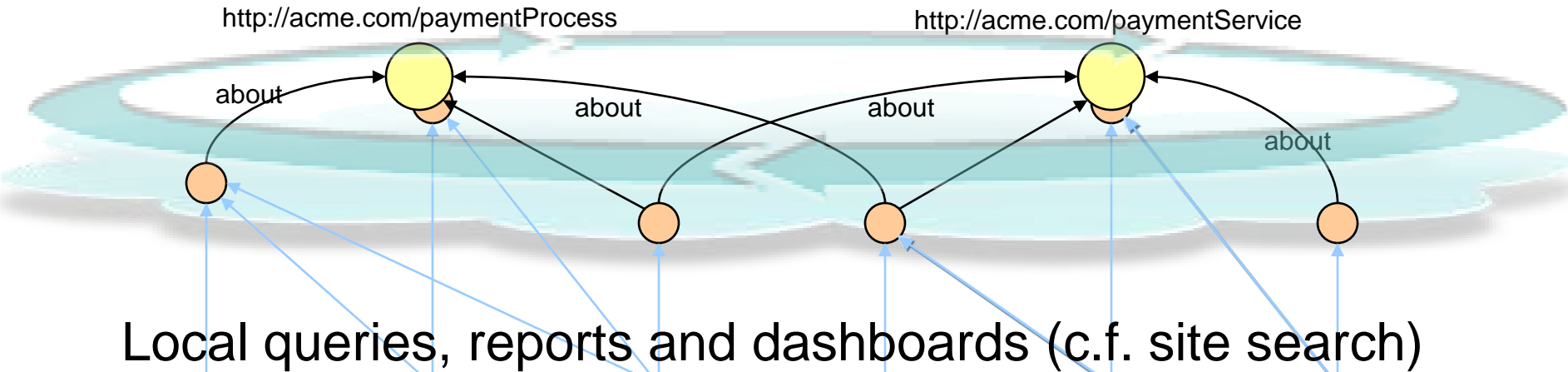
- ▶ Multiple vendors, open source projects, and in-house tools
- ▶ Private vocabularies, formats and stores
- ▶ Inextricable entanglement of tools with their data

- ▶ Specifications for sharing lifecycle resources
- ▶ Inspired by Internet architecture
  - Loosely coupled integration with “just enough” standardization
  - Common resource formats and services
- ▶ A different approach to industry-wide proliferation

# Jazz: Open, extensible, web-centric, integration architecture



# Queries, Reports, Dashboards: from data to information



Global queries, reports and dashboards (c.f. web search)

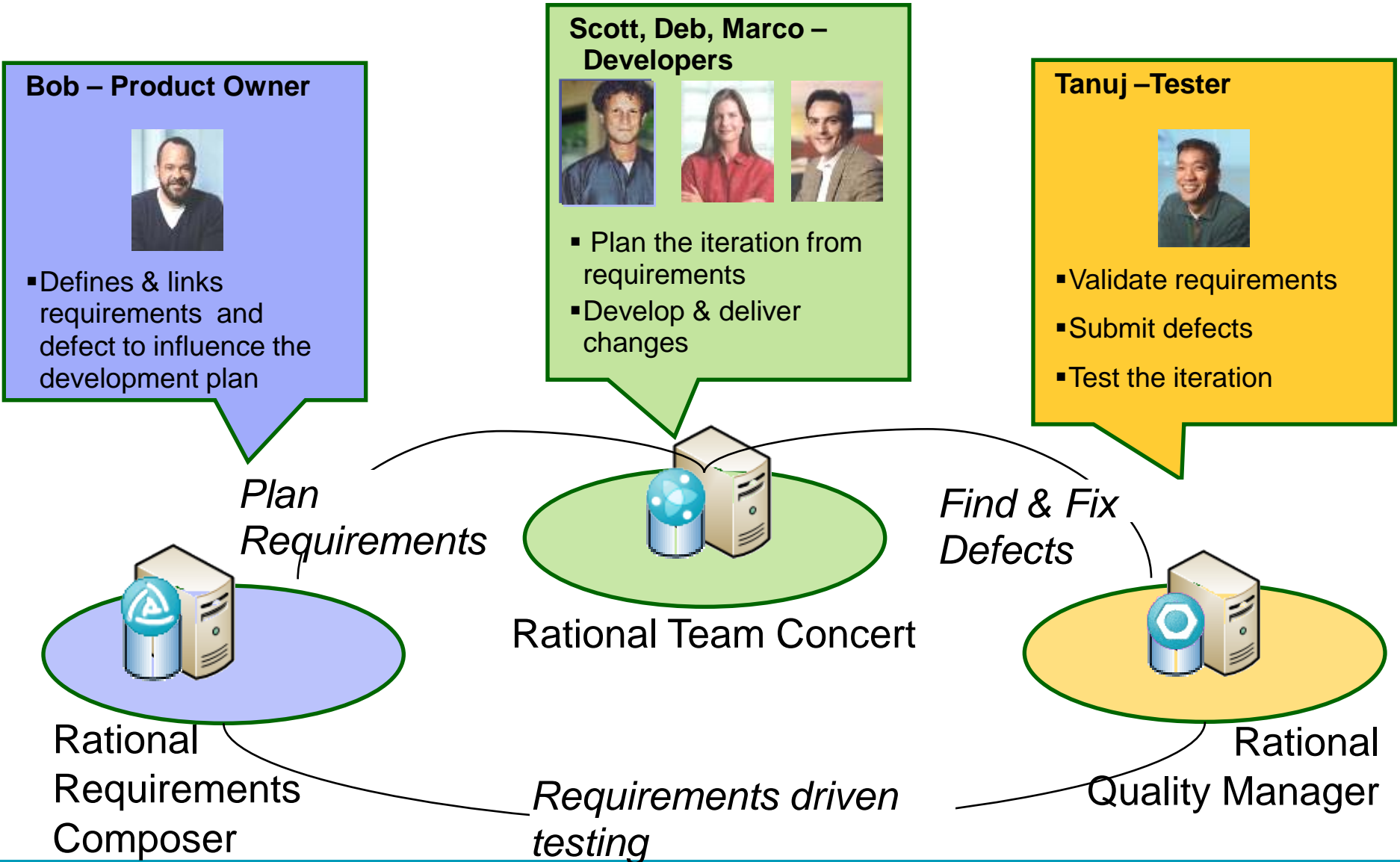


## Jammin': Jazz in Practice

- In-context collaboration between analysts, developers and testers
  - ▶ Link to or create (and link to) artifacts across repositories without leaving their own UI
- Dashboards that automate transparency across product boundaries
- Practices at work:
  - ▶ Common Vision, Test Management, Concurrent Testing, Whole Team, Agile Core
- Behind the scenes Jazz Foundation and Open Services for Lifecycle Collaboration

**Open**  
**Enterprise-ready**  
**Collaborative ALM**

# Transparent team collaboration across repositories



# C/ALM Queries provide answers to meaningful questions

- Traceability queries across products
- Query results are presented in C/ALM viewlets

**Requirements With Defects (5)**

Failed Color Definition

- Fix background (69)
- Theme not consistent (54)

[Launch dialog for picking colors](#)

Page 1 of 3

## RRC->RQM

WI	Query	Artifact/Product	Source Condition	Link Type	Artifact/Product	Target Condition
<a href="#">68758</a>	Requirements with failing tests	Requirement/RRC	Project = x	Validated By	Test Case/RQM	Test Status = failure
<a href="#">68757</a>	Requirements done/tested	Requirement/RRC	Project = x	Validated By	Test Case/RQM	Test Status == success
<a href="#">68754</a>	Requirements with no tests	Requirement/RRC	Project = x	Validated By	Test Case/RQM	Test count == 0
<a href="#">67935</a>	Requirements not in Test plan	Requirements/RRC	Project = x	Validated By	Test Plan/RQM	Test count==0

## RQM -> RTC

WI	Query	Artifact/Product	Source Condition	Link Type	Artifact/Product	Target Condition
<a href="#">68763</a>	Tests blocked by defects	Test Case/RQM	Active Test Plans	Blocked by	Work Item/RTC	Work item Status == Open
<a href="#">68765</a>	My Unblocked tests	Tests/RQM	Test owner = me	Blocked by	Work Item/RTC	work item status = resolved
<a href="#">67933</a>	Dev plan items not in Test plan	Test Plan/RQM	Active Test Plans	Affected by	Work item / RTC	work item count==0



## Summary

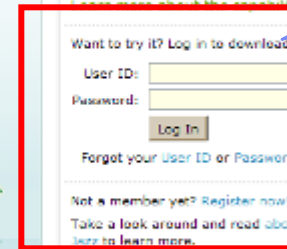
- **Data integration** via linked artifacts across repositories
- Leads to increased **collaboration** among team members
- And enables **automation** such as real-time reports and queries

**Open**  
**Enterprise-ready**  
**Collaborative ALM**

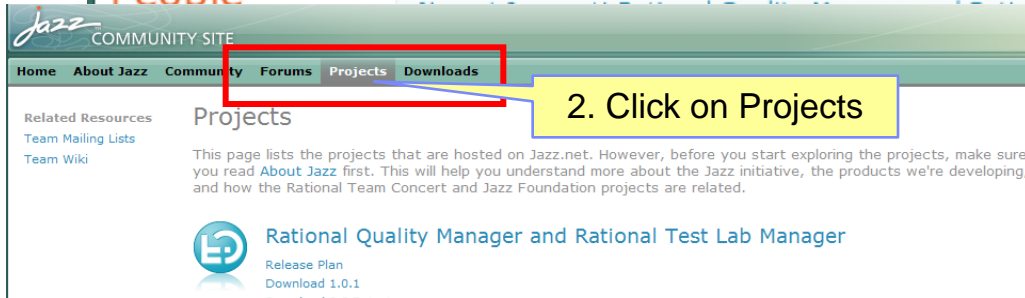
# Join the action at jazz.net



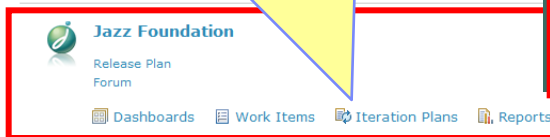
1. Sign-up & sign-in



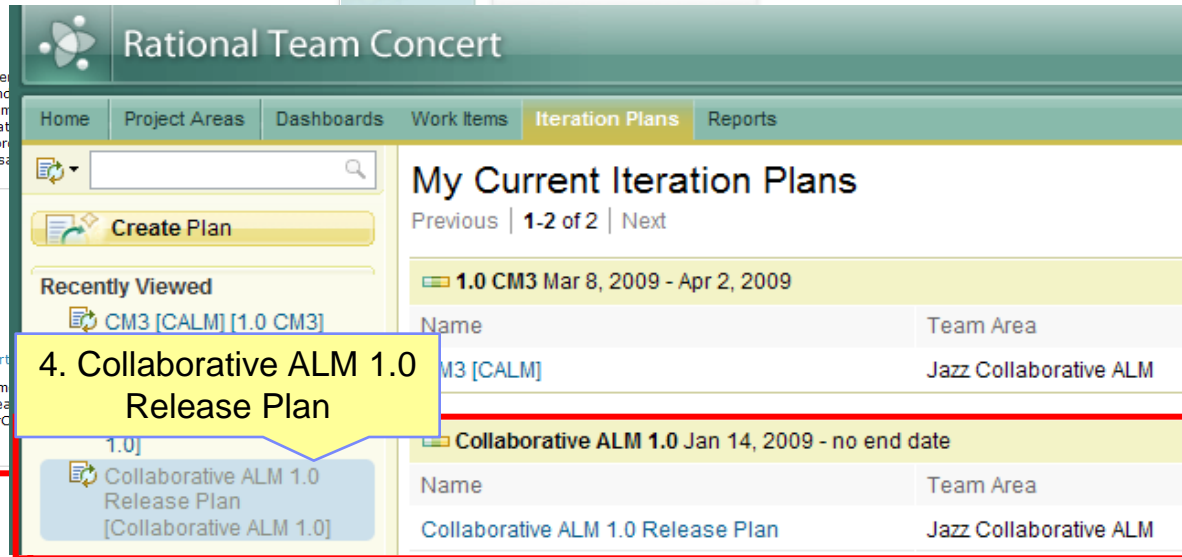
2. Click on Projects



3. Jazz Foundation Project Iteration Plans



4. Collaborative ALM 1.0 Release Plan



The Jazz Foundation refers to the implementations of the Jazz Team Server including the Jazz Foundation Services developed and maintained at Jazz.net. Also included are a set of specific Jazz frameworks that aid in the construction of Jazz products with various degrees of JIA integration. The Jazz Foundation represents

# QUESTIONS

# Thank You



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