



IBM Rational Software Conference 2009  
As Real as It Gets!



# Collaborative Application Lifecycle Management (C/ALM): roadmap della piattaforma e dei prodotti Jazz

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**Rational.** software

## Agenda

- Introduzione alla piattaforma Jazz
- Roadmap Prodotti
- Collaborative Application Lifecycle Management

# Agenda

## ■ Introduzione alla piattaforma Jazz

- ▶ Una piattaforma scalabile ed estensibile per rendere efficace e collaborativo lo sviluppo software
- ▶ Una architettura di integrazione che abilita la collaborazione di strumenti eterogenei attraverso un approccio “Web-like”
- ▶ Una comunità presente in Jazz.net dove i prodotti Jazz-based vengono sviluppati in maniera trasparente.

## ■ Roadmap Prodotti

## ■ Collaborative Application Lifecycle Management

Lo sviluppo software spesso è paragonato a...



**...scienza**



**...arte**



**...manifattura**

...dimenticando l'importante aspetto **collaborativo**

# Immaginiamo un *gruppo jazz* che fa un *concerto* per un *pubblico* pagante

- Più che eseguire, **interpretano**
- Sono **disciplinati** anche senza direttore d'orchestra
- **Collaborano** e si ascoltano
- **Improvvisano** "consapevolmente"
- Suonano "**live**" di fronte al pubblico
- Si **divertono** in quello che fanno



## Proviamo a sostituire

- **Gruppo jazz** con **team di sviluppo SW**
- **Concerto** con **progetto**
- **Pubblico** con **cliente**

*jazz*

**People,**  
not organizations,  
build great software.

## Jazz Vision

*Fornire un ambiente di lavoro fluido che aiuti i team di sviluppo a collaborare per creare software di qualità superiore.*



### **Collaborazione**

*Ridurre i problemi di comunicazione anche tra team geograficamente distribuiti*



### **Automazione**

*Ridurre i costi e la possibilità di errore umano*



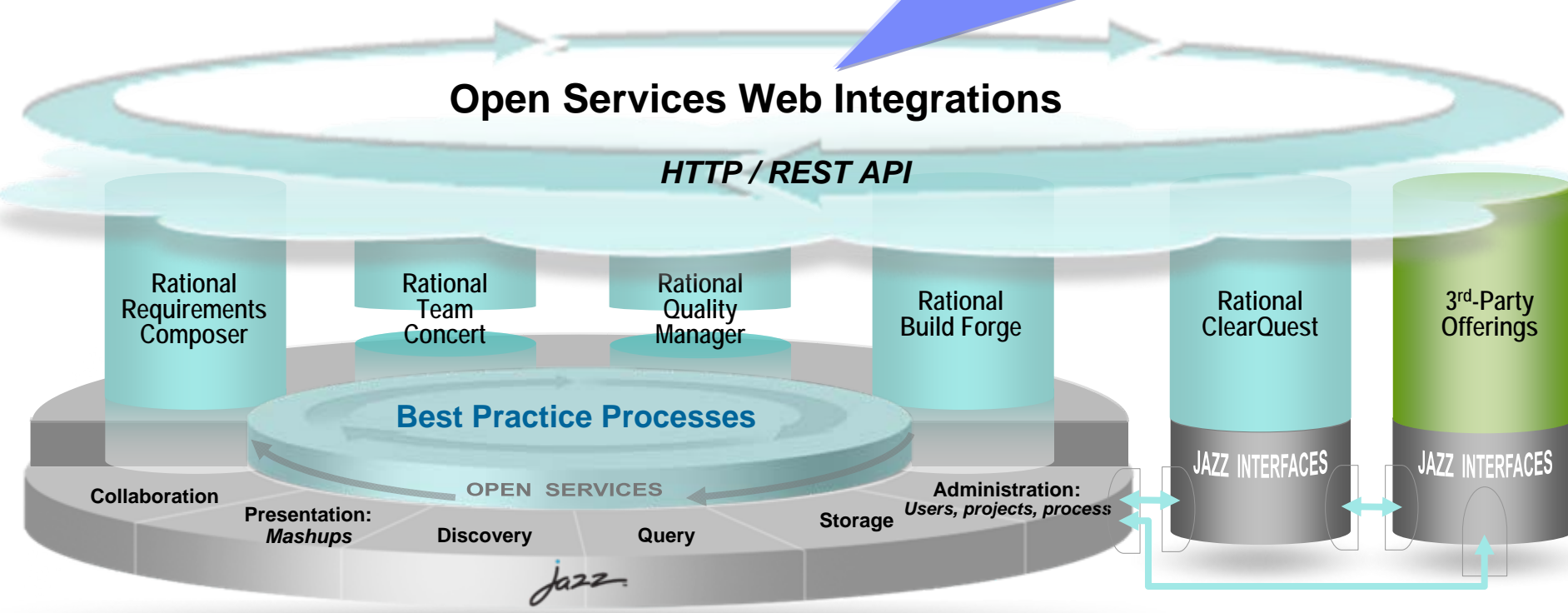
### **Reportistica**

*Tenere sotto controllo l'andamento dei progetti in relazione agli obiettivi di business*

***La piattaforma Jazz per lo sviluppo collaborativo del software***

# Jazz: una architettura di integrazione aperta, estensibile e “web-centric”

*Integrazioni basate su Open Service Lifecycle Collaboration (OSLC)*



**Built on Jazz**

**Integrated with Jazz**

*Integrazioni basate su Jazz Integration Architecture (JIA)*

## Elementi principali della architettura Jazz

- **Open Services Lifecycle Collaboration (OSLC)**
  - ▶ Specifica di servizi HTTP/REST per la condivisione di risorse di ALM
  - ▶ IBM, Clienti e Partners insieme per definire la strategia di integrazione del futuro. (community: [open-services.net](http://open-services.net))
  
- **Jazz Integration Architecture (JIA)**
  - ▶ L'implementazione IBM di OSLC, offre un livello di integrazione più elevato di OSLC
  - ▶ Definisce i Jazz Foundation Services (JFS) messi a disposizione dei tool jazz based. I servizi includono collaboration, process enactment, discovery, storage, administration
  - ▶ Ciascun tool può esporre servizi specializzati attraverso una interfaccia RESTful indipendente dal linguaggio



# Collaboration



Contestuale al progetto, al team e alle attività

## Process enactment

- Un progetto di sviluppo software crea e modifica un grosso numero di risorse
  - ▶ Work-products di progetto
  - ▶ Risorse utilizzate per gestire il processo (es. work-items, iterazioni, piani, fasi)
- Il processo è “enacted” controllando la creazione e modifica delle risorse
  - ▶ Dati, Stati, Eventi
  - ▶ Pre-condizioni da verificare
    - Sono stati eseguiti tutti i prerequisiti? Ho i giusti privilegi? Sono state ottenute le approvazioni richieste? Le risorse necessarie si trovano in uno stato consistente?
  - ▶ Post-azioni da pilotare
    - Chi deve essere notificato? Quali altre risorse debbono essere automaticamente aggiornate?

# Jazz è anche una Community – Jazz.net



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



Learn about Jazz



Explore projects



Download 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 >](#)

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



[Read more in the blog >](#)

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.

## 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

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

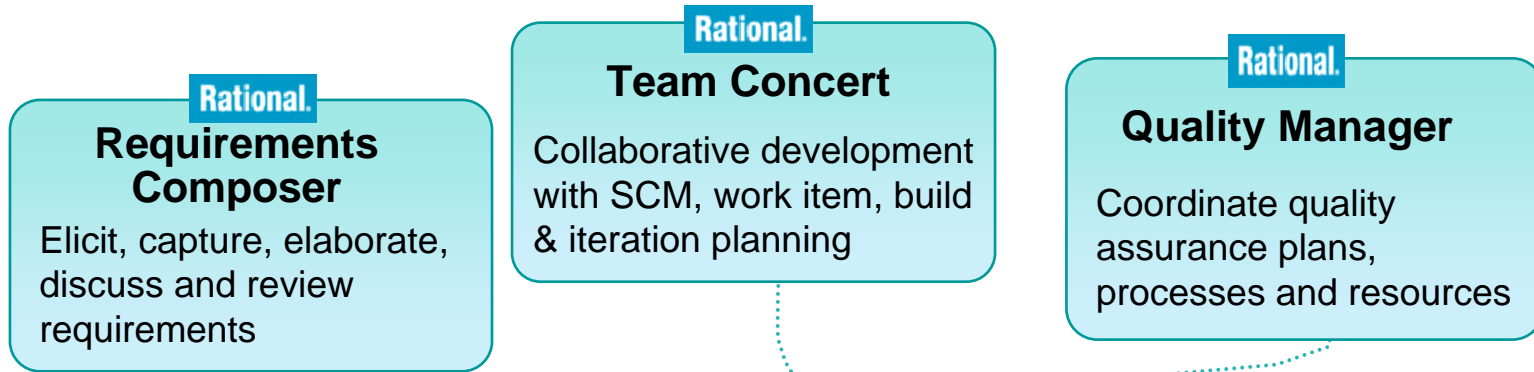
**Jazz - Better the Second**



# Agenda

- Introduzione alla piattaforma Jazz
- **Roadmap Prodotti**
  - ▶ Alcuni prodotti sono stati sviluppati da zero sfruttando la tecnologia Jazz
  - ▶ Altri prodotti stanno evolvendo sfruttando le potenzialità della tecnologia Jazz
- Collaborative Application Lifecycle Management

# I primi prodotti su Jazz (2008)



# I nuovi annunci sui prodotti Jazz

- Beta** Rational Requirements Composer 2.0
- New!** Rational Team Concert 2.0
- New!** Rational Quality Manager 2.0
- New!** Rational Asset Manager 7.2
- New!** Rational Insight 1.0
- Beta** Rational Project Composer



# Rational Requirements Composer

## Rich Authoring Environment

**Use Cases**

**Rich Text Requirements**

**Glossaries**

**UI Sketching and Storyboarding**

**Process Sketching**

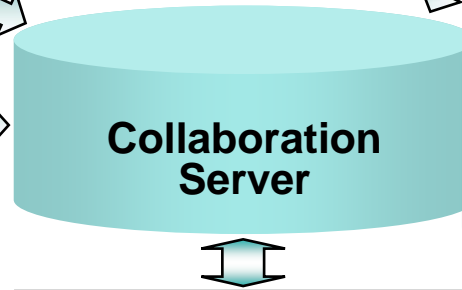
## Web Review and Approval

**Wiki style interface**

**Categorize / Tag**

**Comment**

**Review / Approve**



- Share work instantly
- Users / teams / authorizations
- Linking between all artifacts
- Versioning

**Rational RequisitePro/DOORS, TeamConcert, Quality Manager**

- ALM Collaborativo



# Rational Team Concert

Process Automation & Guidance

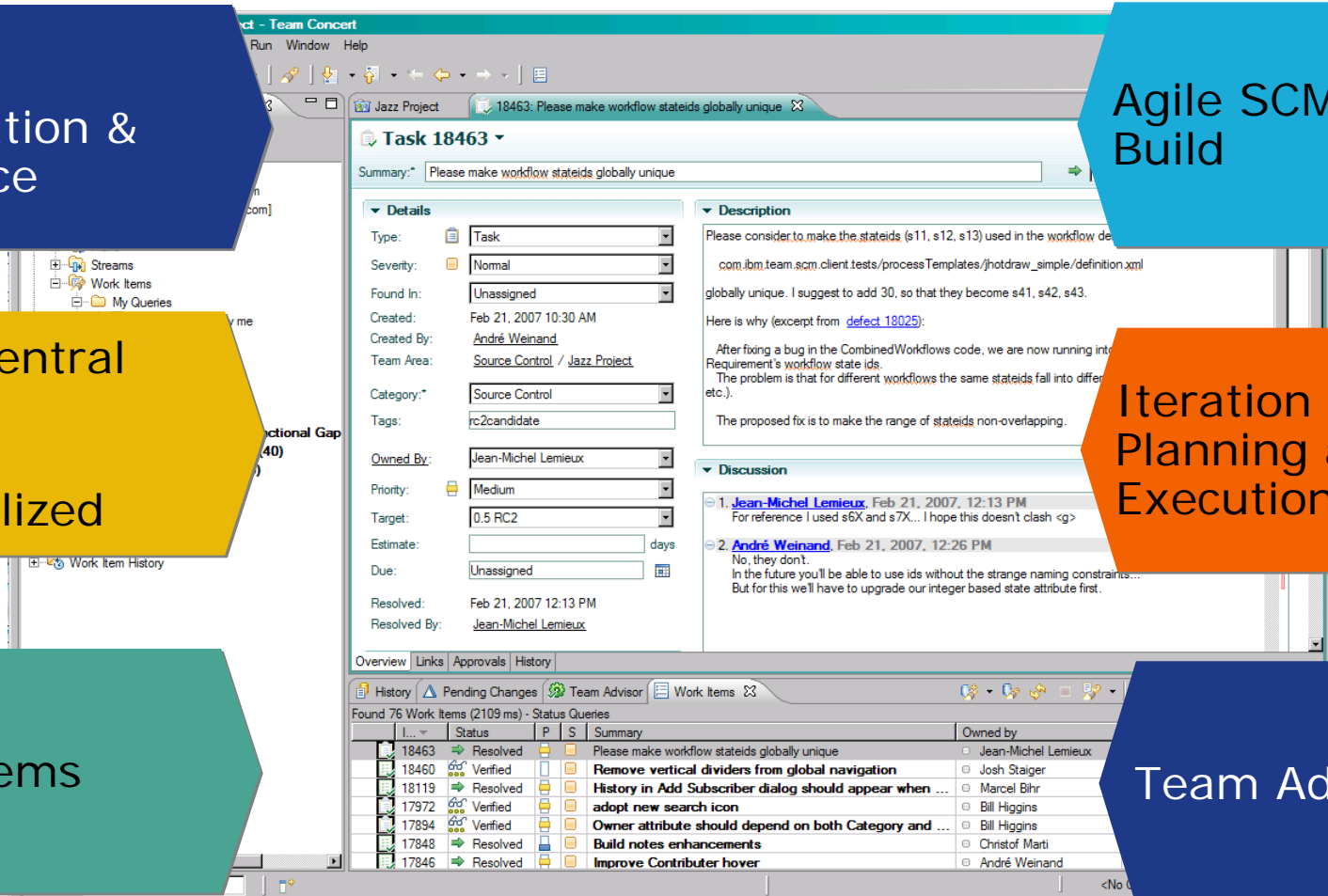
Agile SCM and Build

Team Central  
RSS  
Personalized

Iteration Planning and Execution

Work Items

Team Advisor





# Rational Team Concert

v2.0

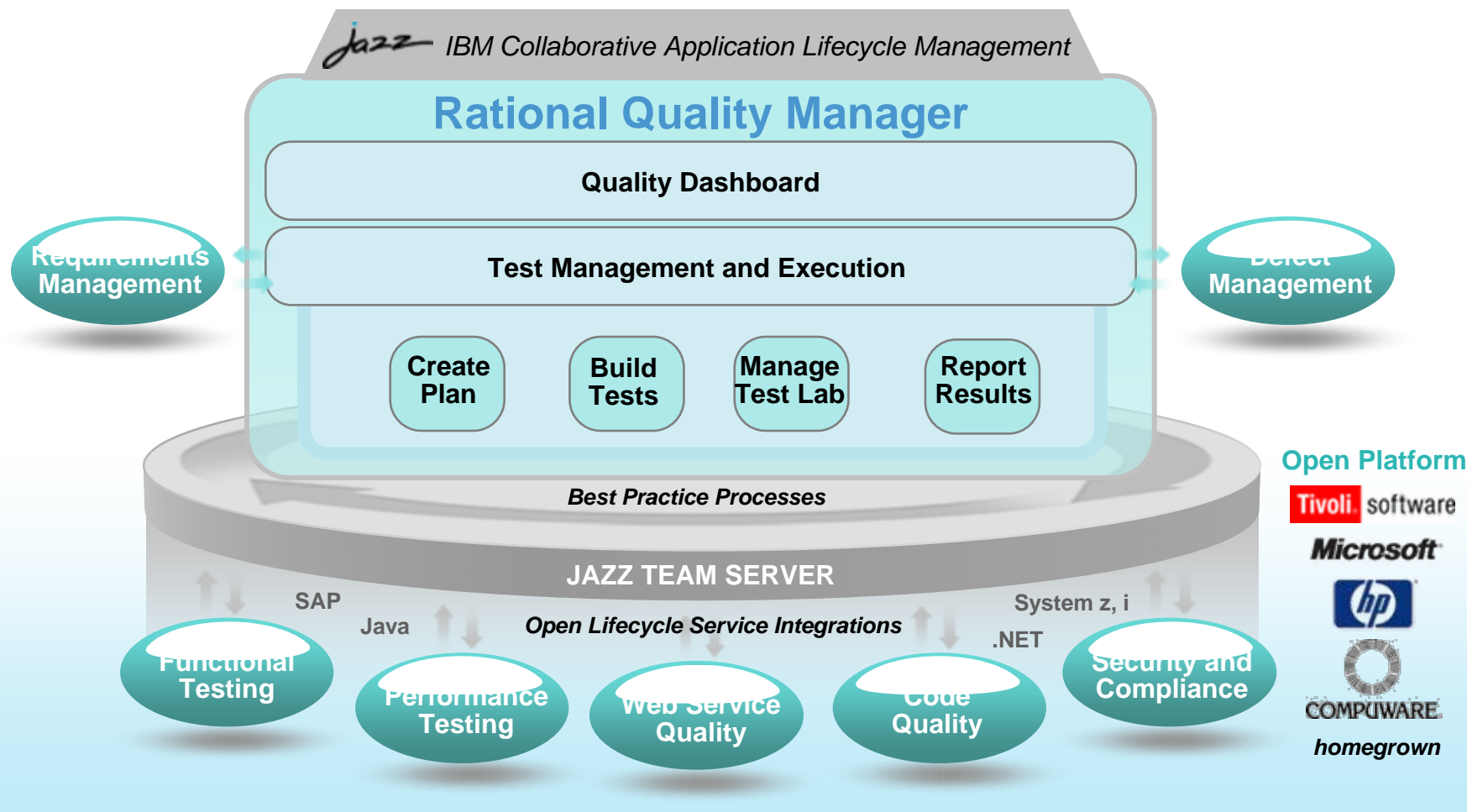
- Scalabile fino a migliaia di sviluppatori, e milioni di file e workitems
- Alta affidabilità di base (failover)
- Supporta release planning e processo SCRUM
- Supporta, J2EE, .NET, IBM i, System z, Microsoft Sharepoint®, Lotus Quickr®, HP QualityCenter e business partner offerings



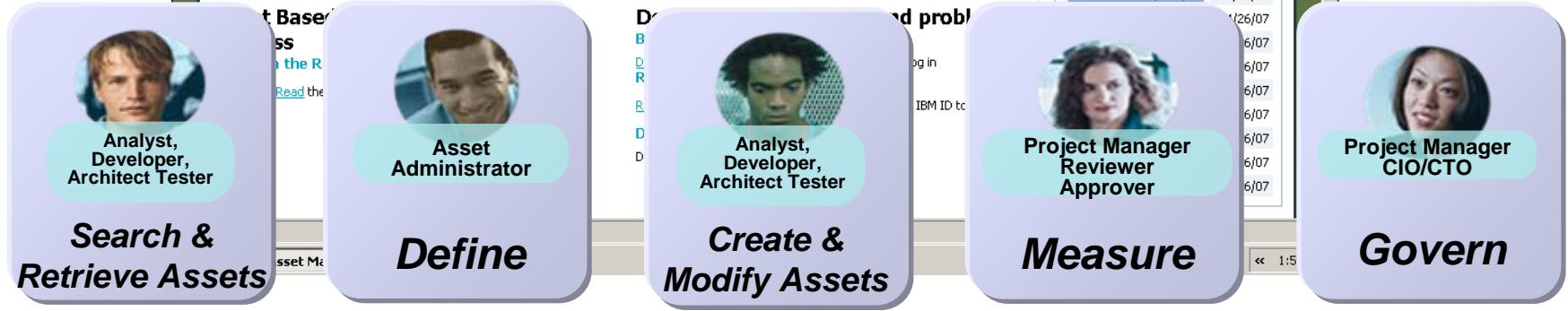
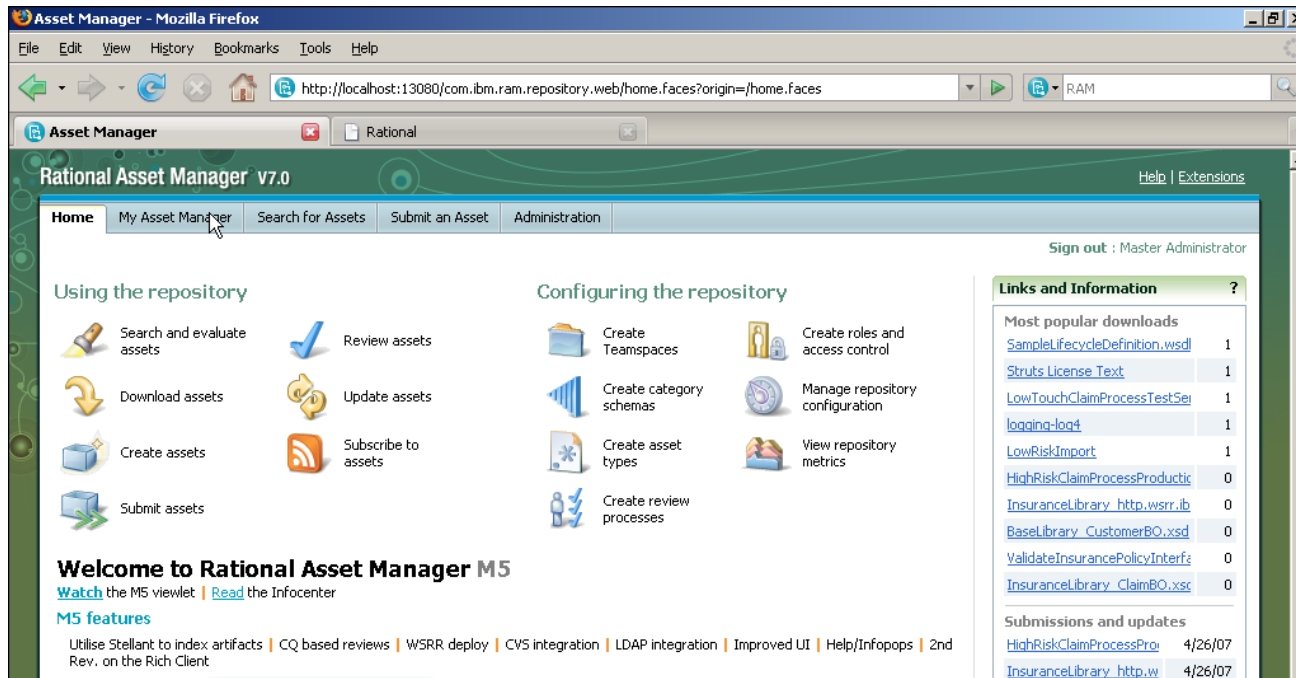
*“We've seen a 30% productivity gain on our global projects. The ability to easily suspend and resume work, along with advanced SCM features, helps team members juggle multiple tasks and priorities without missing a beat.”*

Alain Bergeron  
VP Consulting Services, CGI

# Rational Quality Manager



# Rational Asset Manager

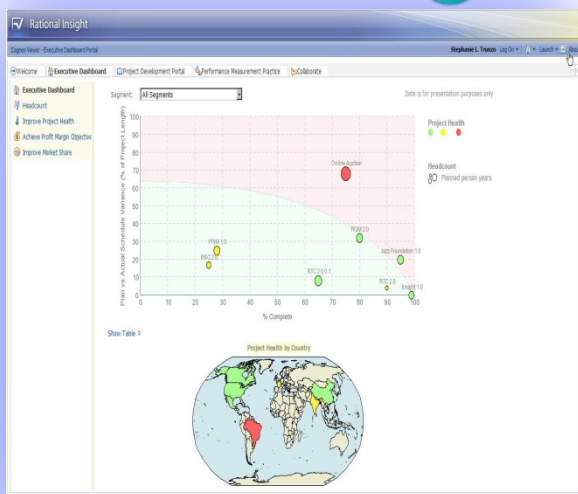


← Asset Management Lifecycle →



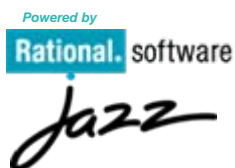
# Rational Insight

**Rational.**  
**Insight**



**Single View into Your Organizational Performance**

**POWERED BY**  
**IBM COGNOS SOFTWARE**



# Rational Project Composer

Beta

- Gestione dei piani di progetto
- Gestione dinamica delle risorse
- Gestione Rischi

The image displays several overlapping screenshots of the Rational Project Composer software interface. The top screenshot shows a 'Dashboard' with tabs for Overview, Resources, Timesheets, and Documents. Below the dashboard is a 'MyProject' window with a 'Risks' tab, displaying a table of risks. The bottom-left screenshot shows a 'Pawan' project window with a 'WBS Attributes' table and a 'Right click' context menu. The bottom-right screenshot shows a 'Task 53' window with a 'Summary' tab and a 'Task Items' table.

Risk	Category	Date	Probability	Impact	Precision	State
Risk_3	Resources	Nov 16, 2008	Medium	Medium	High	Accepted
Risk_2	Hardware	Nov 16, 2008	Low	High	Medium	Rejected
Risk_1	Schedule	Nov 23, 2008	Medium	Medium	High	Accepted
Risk_2	Language Support	Dec 14, 2008	Low	High	Medium	Rejected
Risk_3	Third Party	Dec 01, 2008	High			

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- Introduzione alla piattaforma Jazz
- Roadmap Prodotti
- **Collaborative Application Lifecycle Management**
  - ▶ Progetto Jazz con lo scopo di definire le integrazioni tra Team Concert, Quality Manager e Requirement Composer.
  - ▶ Lo scopo è l'unificazione delle discipline di ALM utilizzando la collaborazione contestuale sugli elaborati la navigazione web-like tra elaborati e il tracciamento attraverso repository e team di lavoro diversi.

# I principi del Collaborative Application Lifecycle Management

## *Architecture*

**Architettura e principi di Internet**  
Jazz Integration Architecture

## *Data*

**Approccio aperto per definire il modello dati**  
Open Services for Lifecycle Collaboration

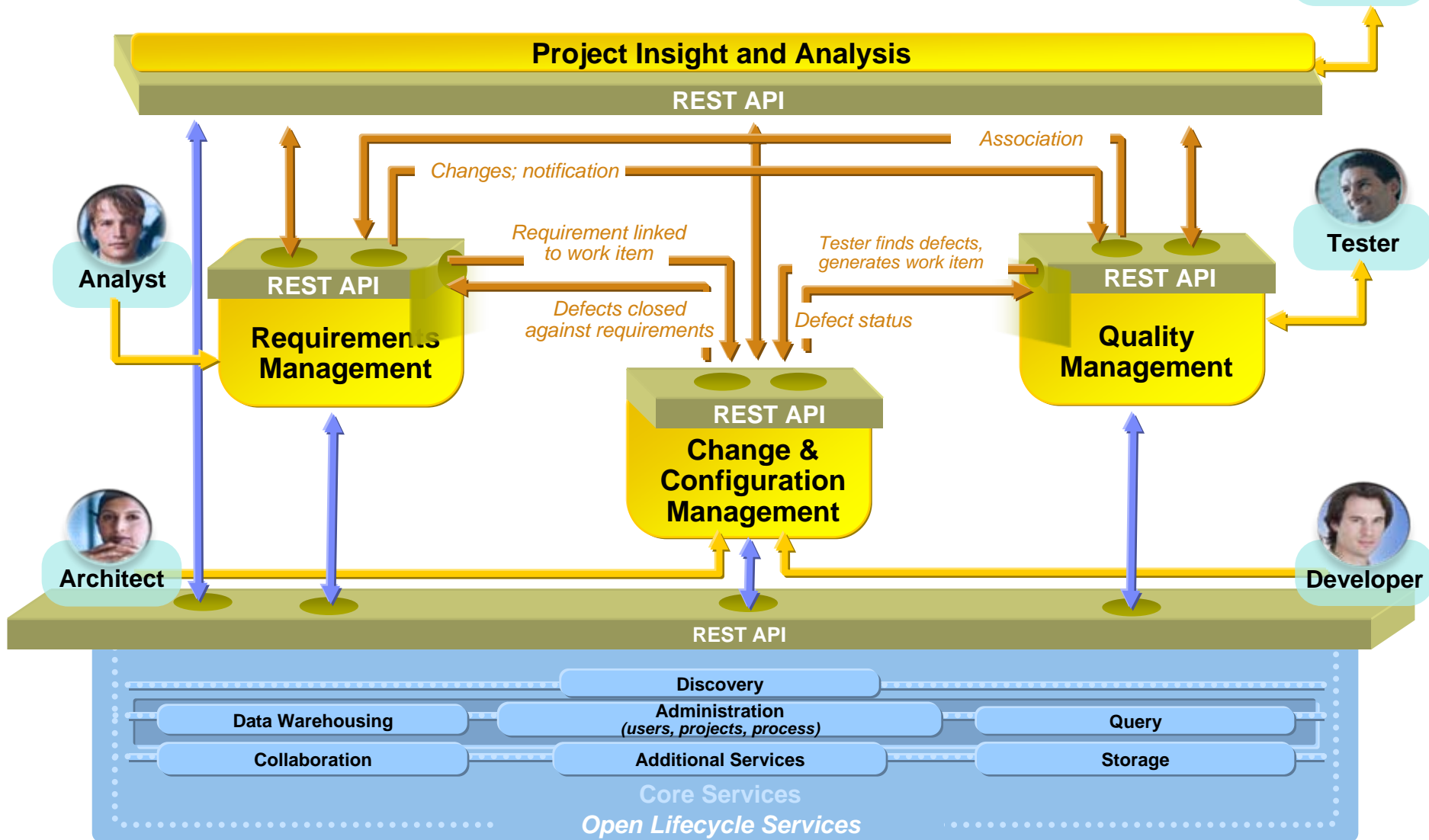
## *Workflow*

**Scenari di utilizzo completi**  
Scenari di C/ALM pubblicati in Jazz.net & open-services.net





# L'integrazione delle componenti di ALM








# Demo: scenario di C/ALM

**Bob – Product Owner**




- Defines & links requirements to influence the development plan

**Scott, Deb, Marco – Developers**

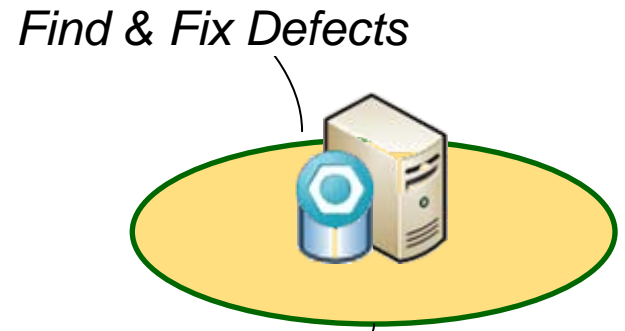
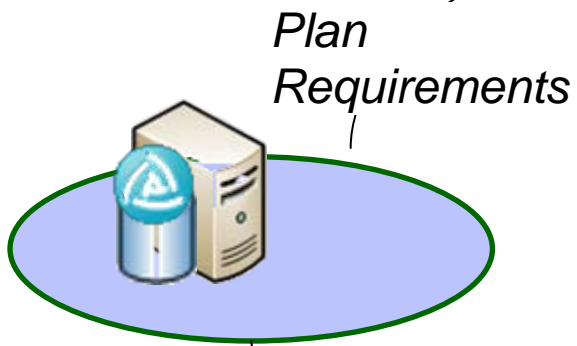




- Plan the iteration from requirements
- Develop & deliver changes

**Tanuj – Tester**



- Validate requirements
- Submit defects
- Test the iteration



Rational Requirements Composer

Rational Team Concert

Rational Quality Manager

*Requirements driven testing*

## Cosa abbiamo visto oggi...

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### ■ Roadmap Prodotti

- ▶ Alcuni prodotti sono stati sviluppati da zero sfruttando la tecnologia Jazz
- ▶ Altri prodotti stanno evolvendo sfruttando le potenzialità della tecnologia Jazz

### ■ Collaborative Application Lifecycle Management (C/ALM)

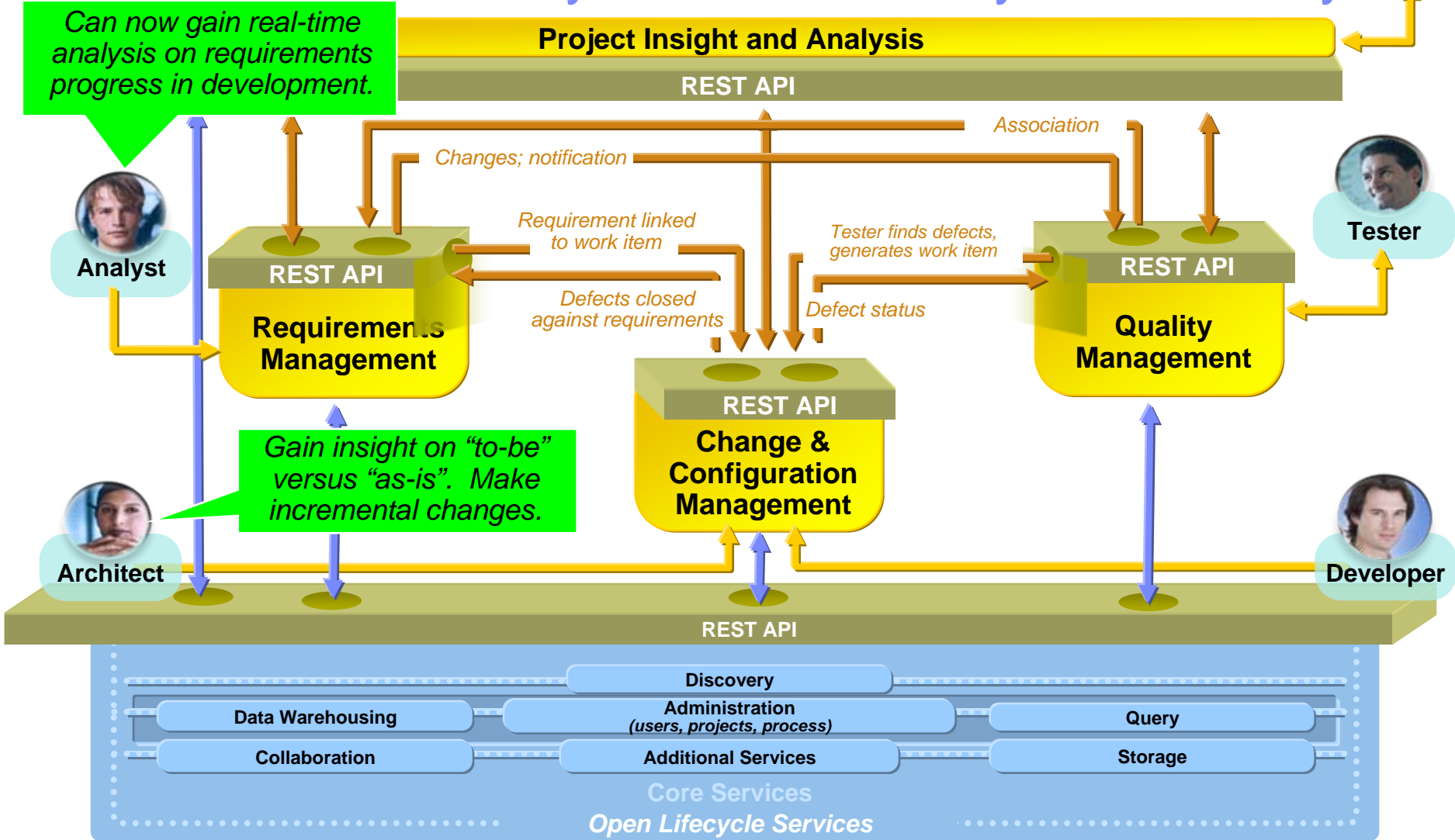
- ▶ Progetto Jazz con lo scopo di definire le integrazioni tra Team Concert, Quality Manager e Requirement Composer.
- ▶ Lo scopo è l'unificazione delle discipline di ALM utilizzando la collaborazione contestuale sugli elaborati la navigazione web-like tra elaborati e il tracciamento attraverso repository e team di lavoro diversi.

# Questions

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# BACKUP SLIDES

# The Software Delivery Platform – Unity in the Lifecycle



# The Software Delivery Platform – Unity in the Lifecycle

**Development Manager Portal**

Welcome | VP Dev - Defect | **Development Manager Portal** | Public Folders | My Folders

**Projects**  
\* Auction

**Reports**  
Cognos > Public Folders > Auction Project Reports

**Search**  
Search: Name field  
Advanced

**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 Status	INCORPORATED	SHOULD	<a href="#">FEAT4</a>			<a href="#">New Customer</a>

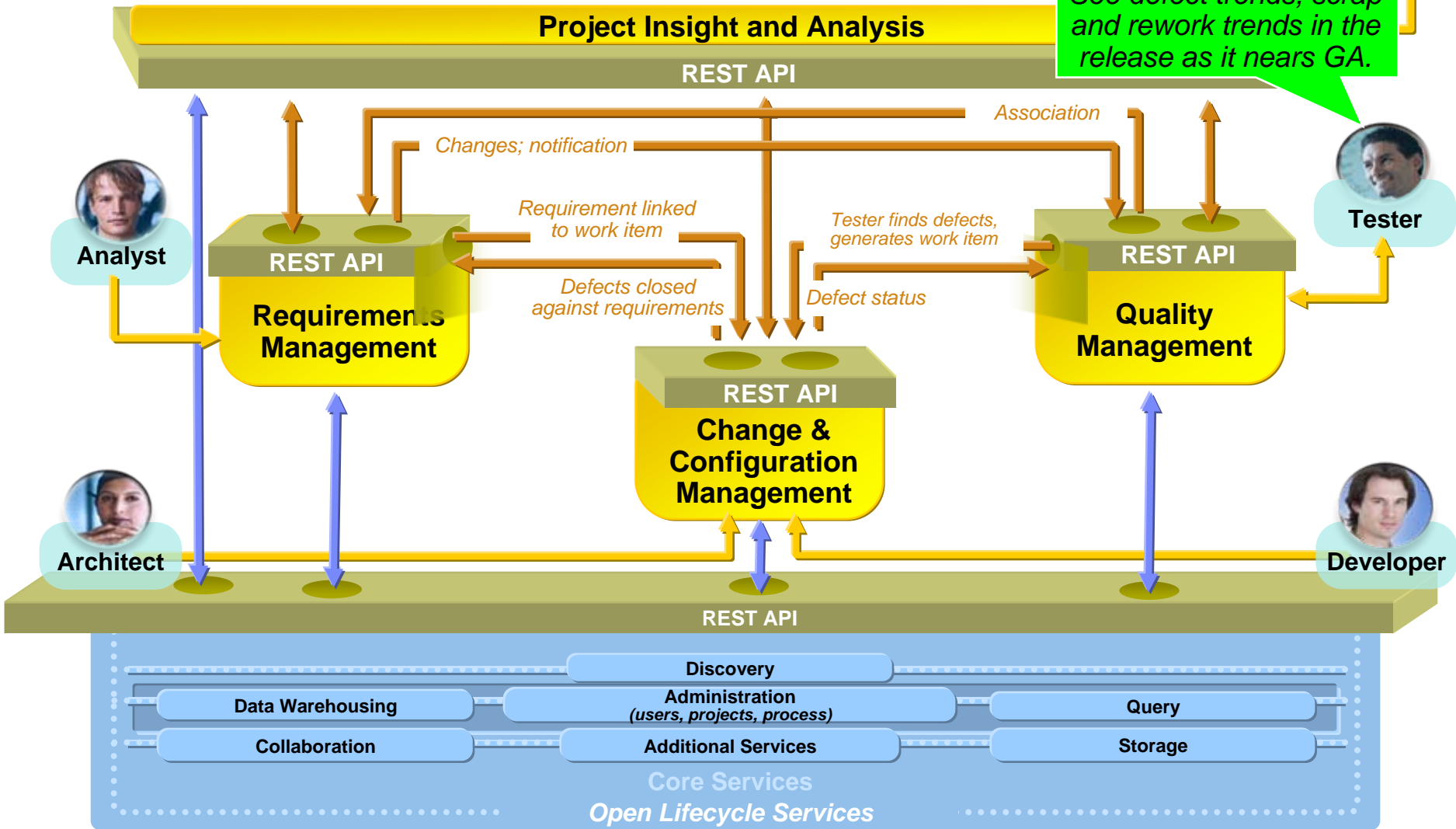
*See EXACTLY which requirements have developer activities or related test cases. Guarantee that this release has the right requirements included.*

# The Software Delivery Platform – Unity in the Lifecycle

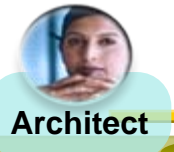


Team Lead

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



Analyst



Architect



Tester

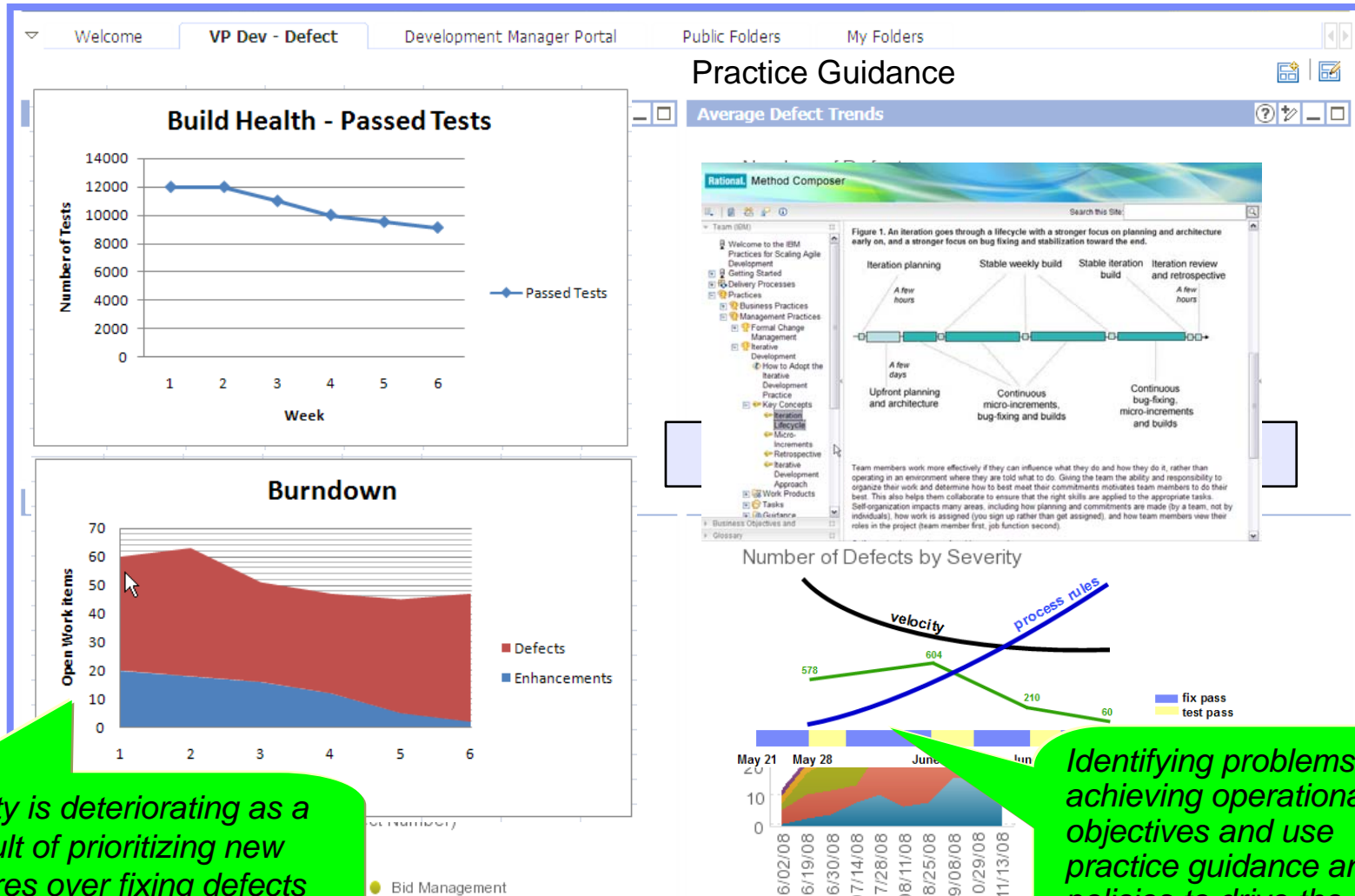


Developer





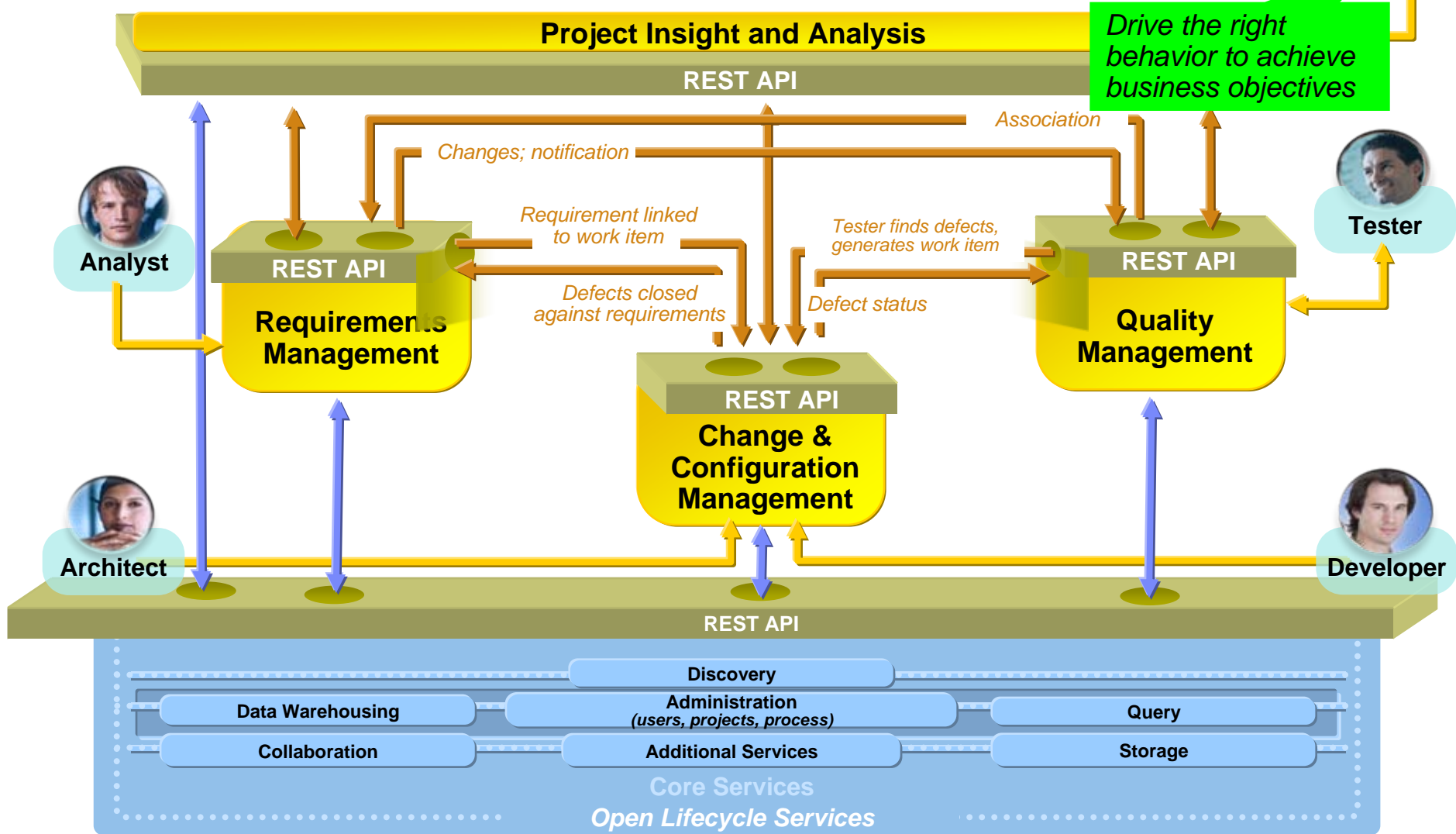
# Map your improvement objectives to best practices



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



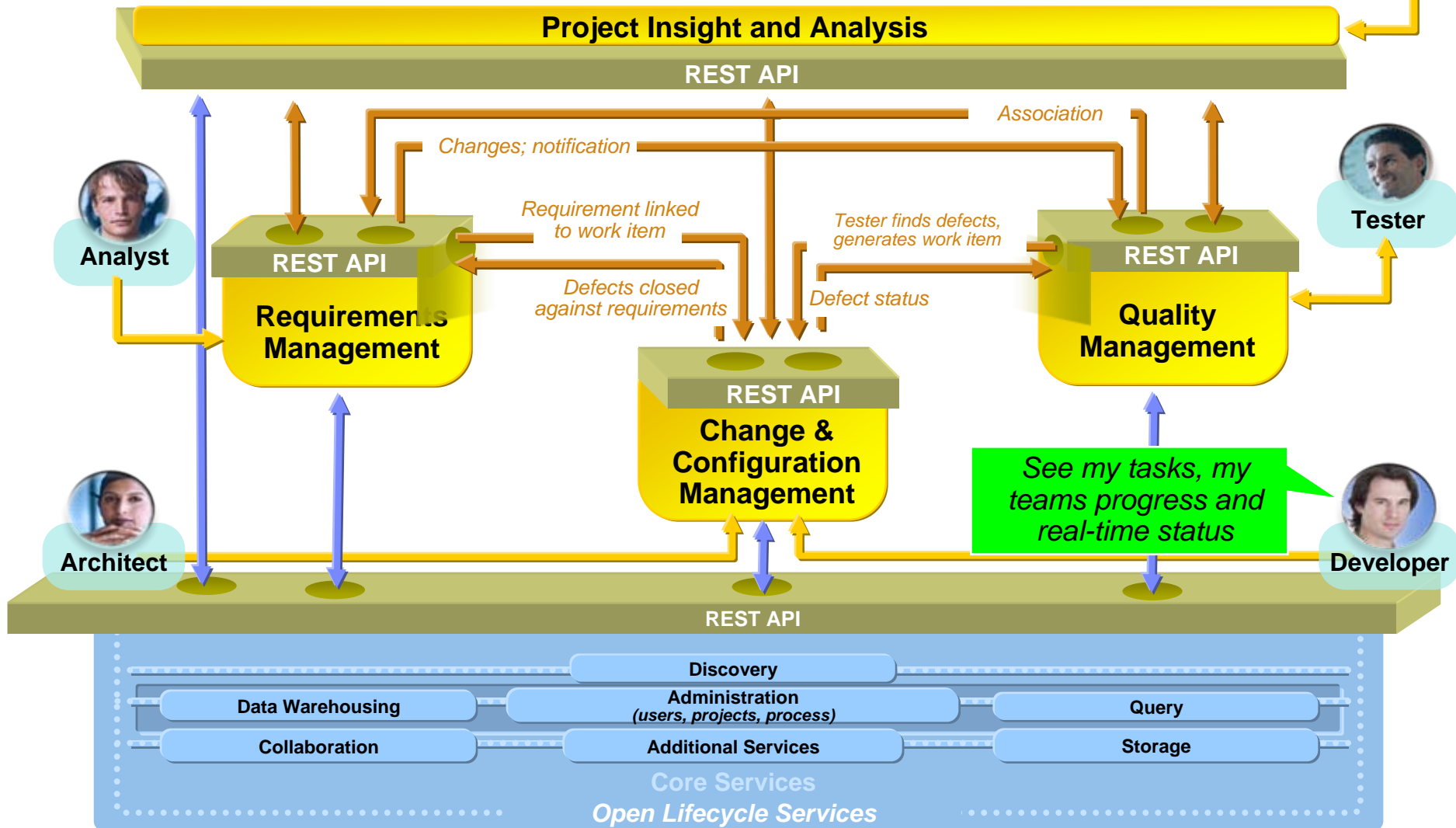
# The Platform can enforce policy and right behavior

The screenshot displays the IBM Rational Team Concert (RTC) interface. On the left, a tree view shows the 'Project Area' configuration, with 'Operation Behavior' selected. The main area shows a list of operations, including 'Deliver (client)'. A 'Team Advisor' dialog box is open, displaying an error: '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 (client)' operation in the configuration, stating: 'Configurable Rules can be run to enforce team or organizational standards. Can be refined "on the fly" for continuous improvements'. Another green callout bubble points to the 'Quick Fix' options, stating: '"Quick Fixes" can be specified to simplify corrective action. Out of the box processes include OpenUP, Scrum, The Eclipse Way, etc'. The bottom right of the dialog shows 'Source Workspace: TC Workspace', 'Target Stream: Eval', and 'Result: no problems found'.

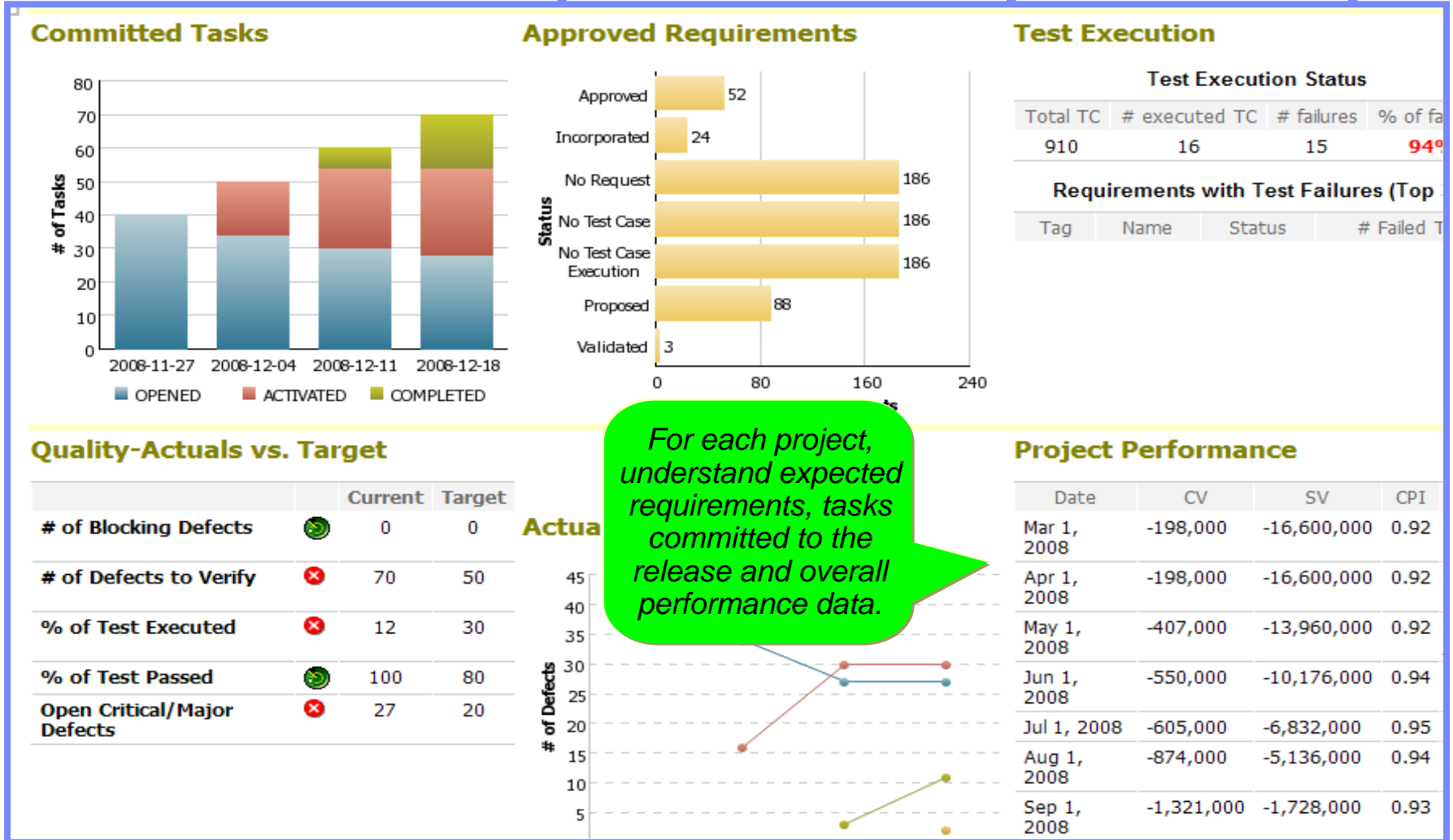
Configurable Rules can be run to enforce team or organizational standards. Can be refined "on the fly" for continuous improvements

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

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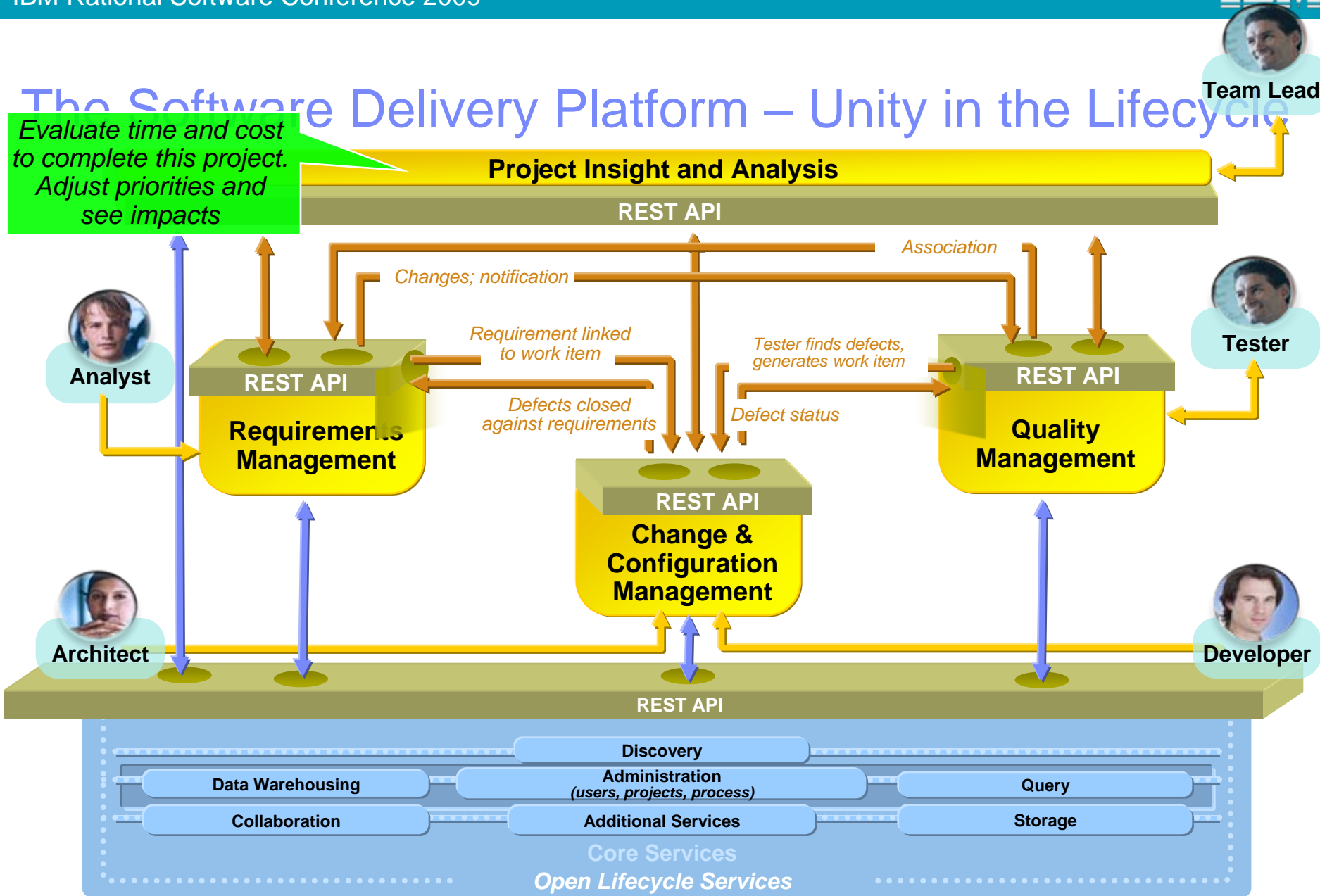


# The Software Delivery Platform – Unity in the Lifecycle



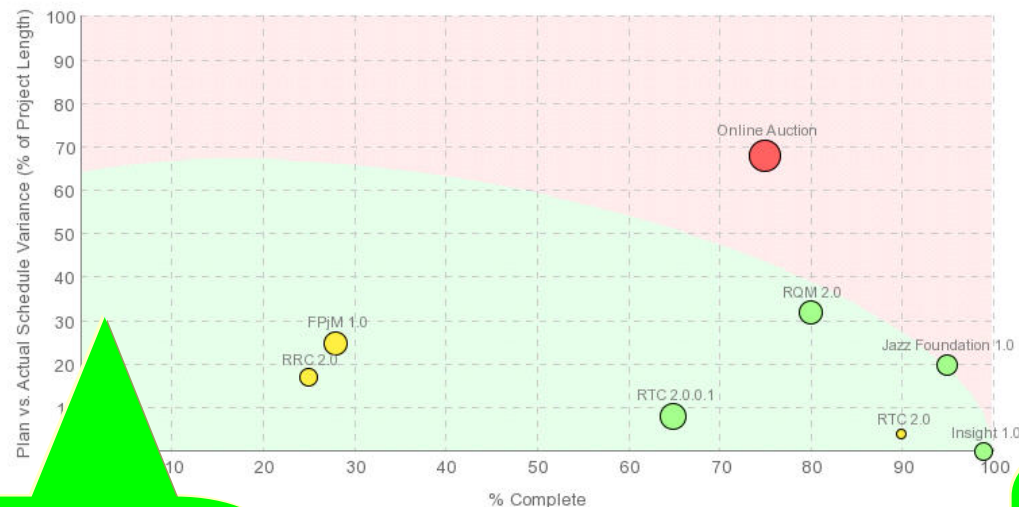
# The Software Delivery Platform – Unity in the Lifecycle

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



- Executive Dashboard
- Headcount
- Improve Project Health
- Achieve Profit Margin Objective
- Improve Market Share

Segment: All Segments

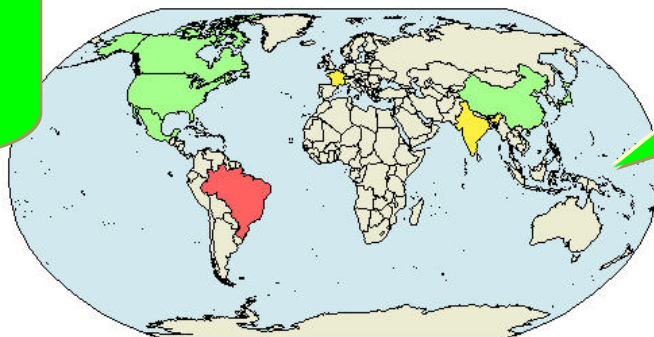


Project Health  
 ● Green ● Yellow ● Red

○ Headcount  
 Planned person year

*With a single view, you can see "through" the information gaps and quickly focus your attention on where the problems are...*

*Another valid view of your portfolio is to look across the distributed development teams and understand if you are receiving the value from each team.*



Project Health