



IBM Software

# UK Innovate 2010

The Rational Software Conference

Smarter software for a smarter planet.



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**UK Innovate2010**

The Rational Software Conference

# Inventing the future with the Rational Jazz Strategy for Collaborative Software Delivery

Martin Nally  
Rational CTO



**Smarter software for a smarter planet.**



# Businesses Depend on their Ability to Innovate and Deliver Superior Systems and Software

- **More interconnected, more instrumented, more intelligent**

- **Software is the invisible thread enabling systems-of-systems**

- **Software & systems delivery has fiscal and societal impact**

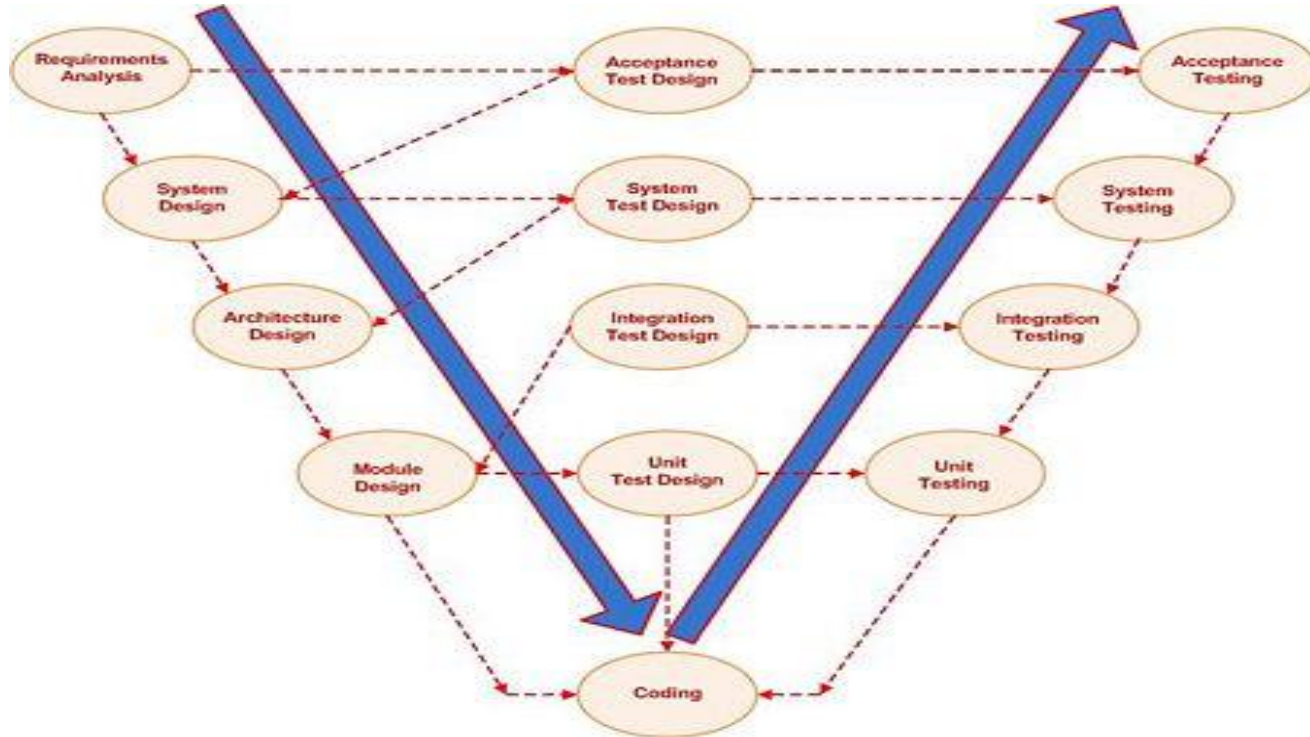


# Ways to improve software development outcomes

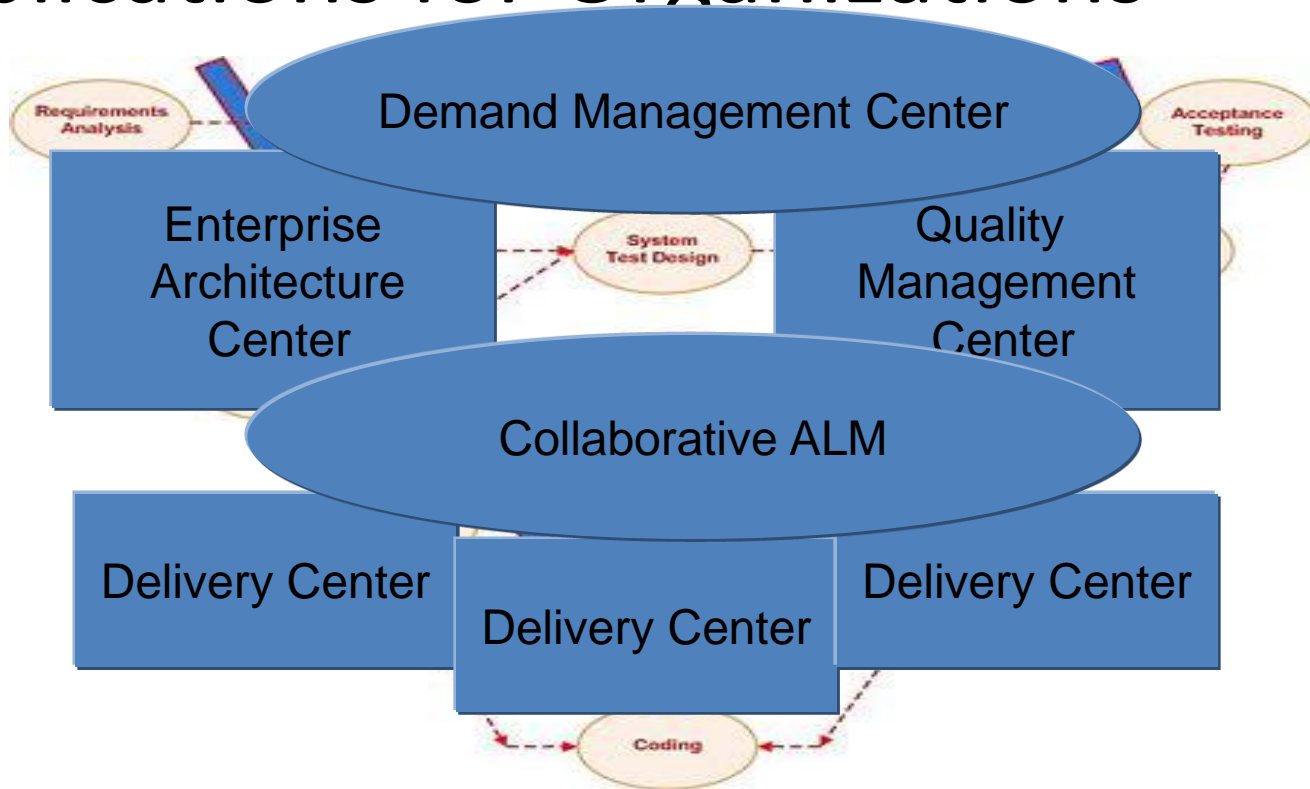
1. Improve skills
2. New software development technologies
3. Don't develop software at all
  1. Outsource development
  2. Use packaged applications
4. Improve processes



# Implications for Organizations



# Implications for Organizations



# Process Improvement depends on the integrations

- **Collaboration**
  - Integration of people and information
  - Coordination of process
- **Automation**
  - Reduction of errors, labor
- **Reporting**
  - Measurement is key



# Top 3 reasons ALM fails to deliver promise

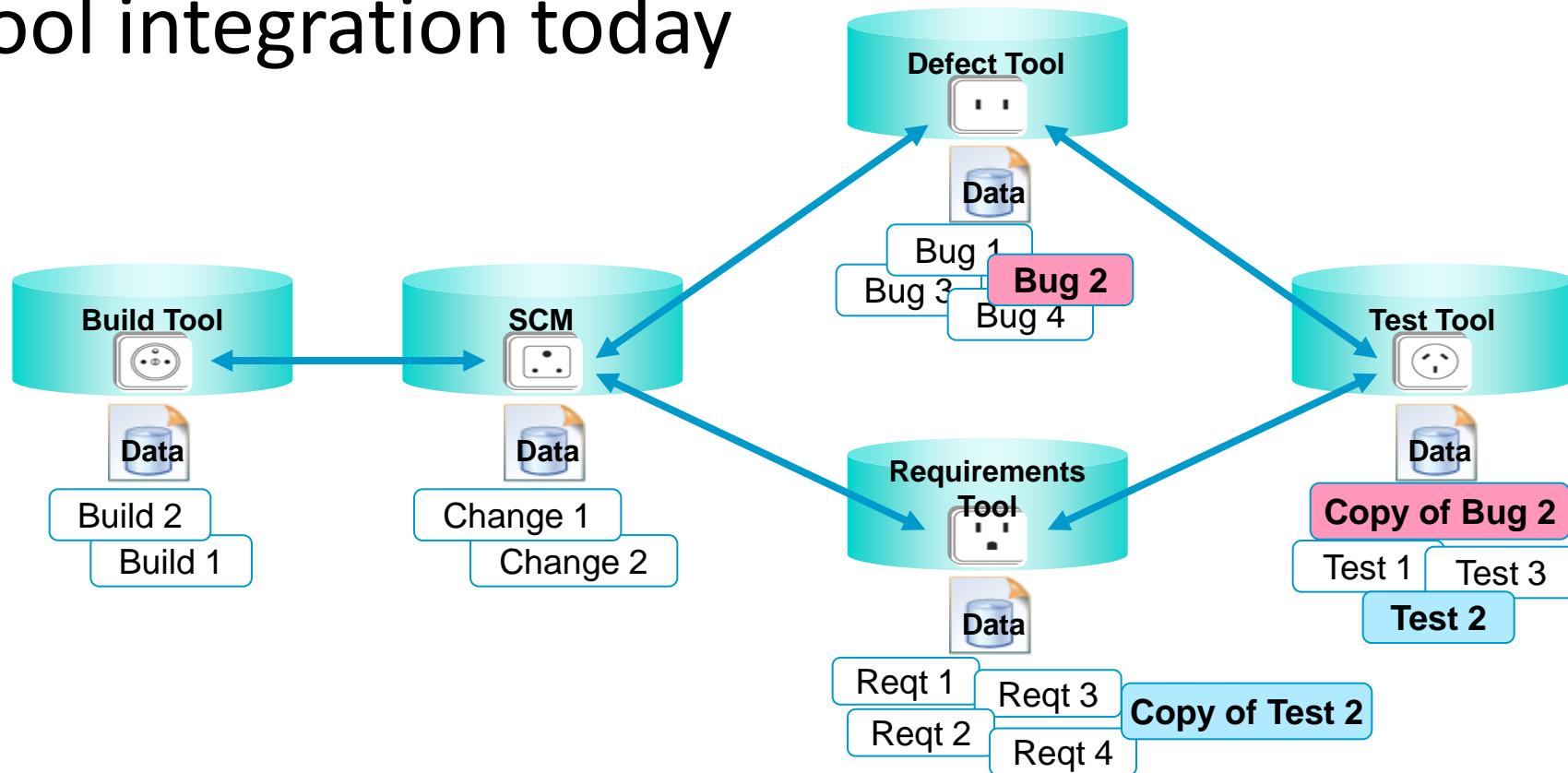
1. Distracted by day-to-day delivery pressures – 78%
2. Tools don't integrate properly – 62%
3. Lack the necessary internal expertise – 56%

Source: Forrester study commissioned by Wipro, 2008

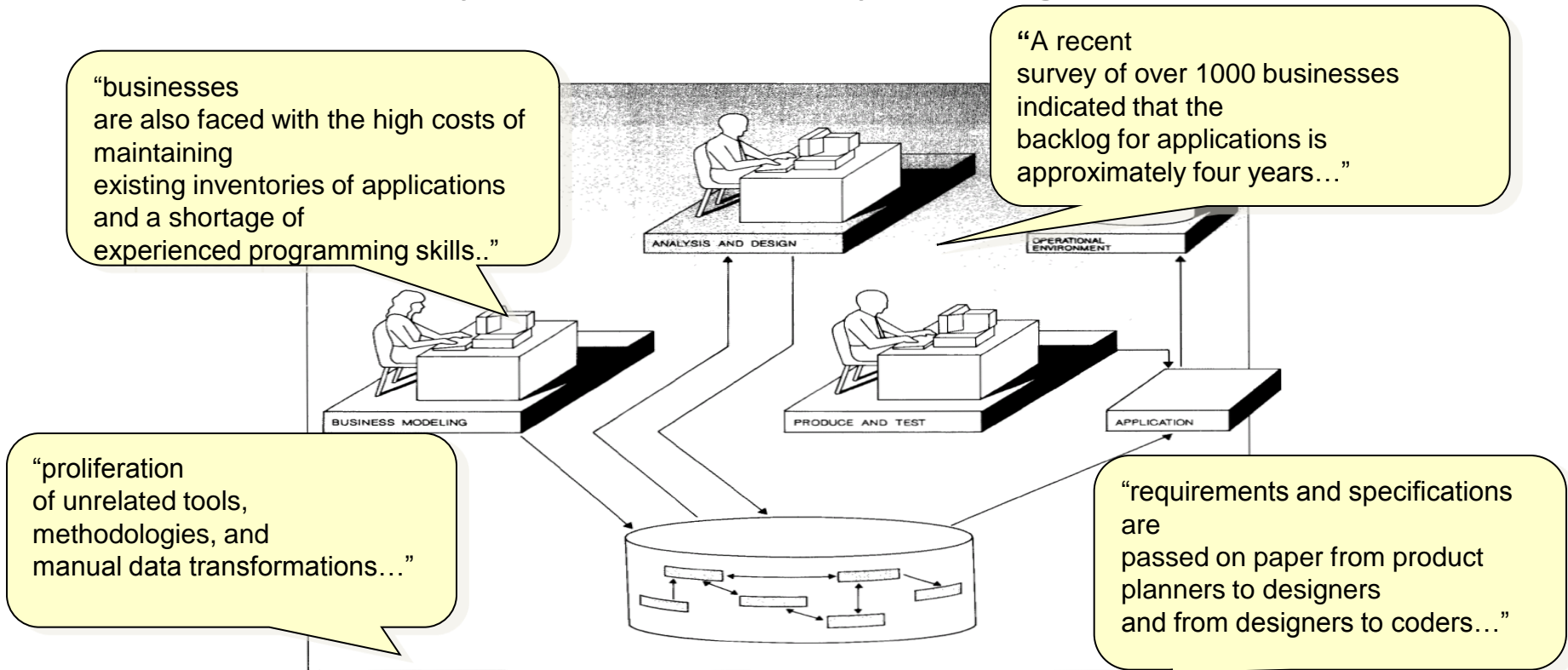




# Tool integration today



# What did we say about this 20 years ago?



Source: Presentation on IBM's AD/Cycle, circa 1990!

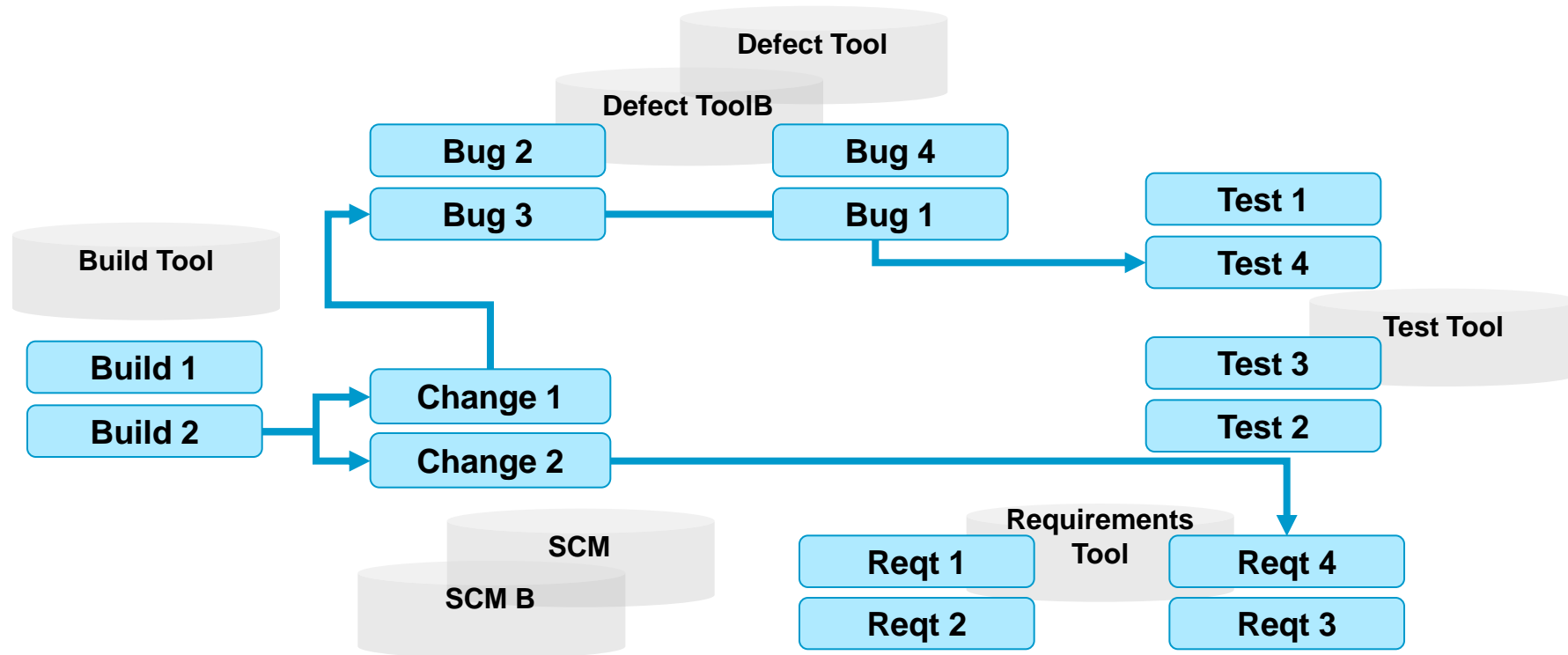


# What is the state-of-the-art today?

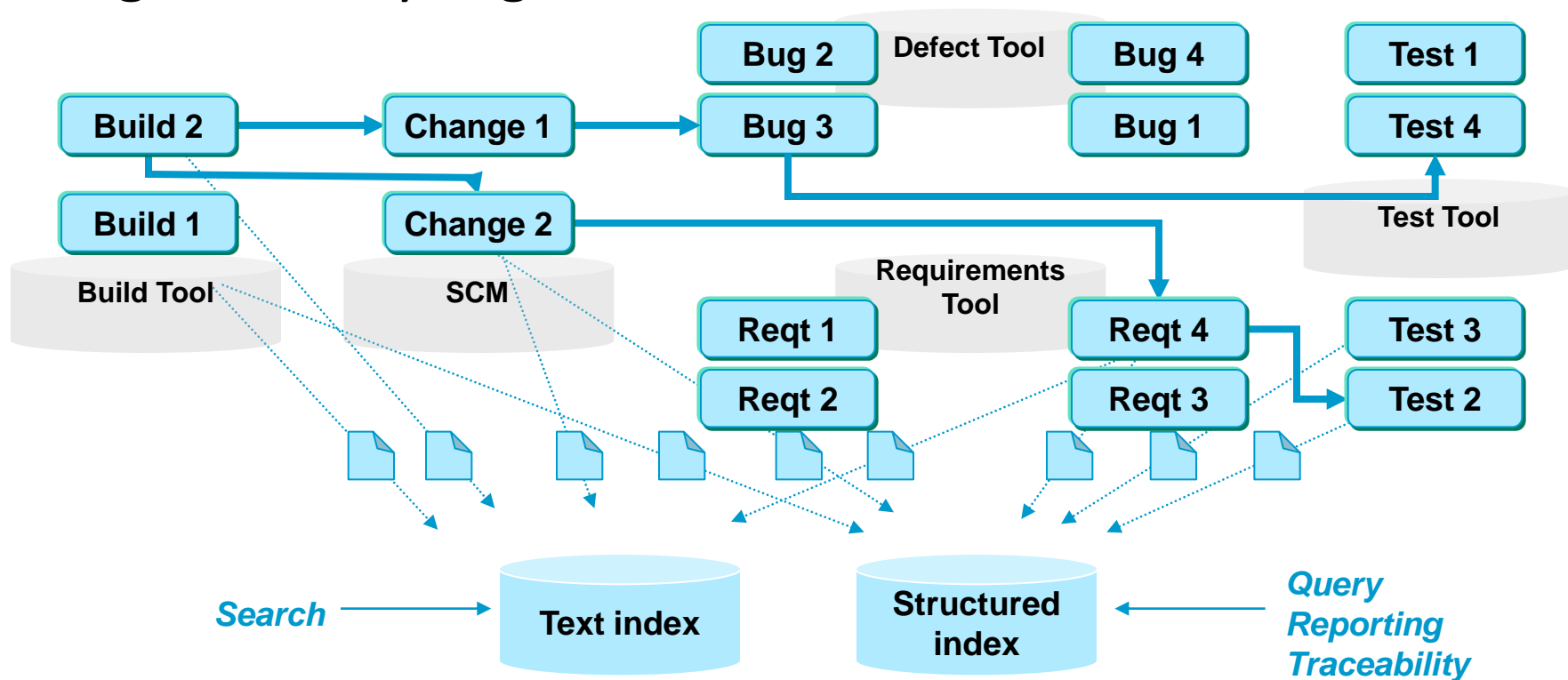
- Most other vendors still trying to build AD/Cycle
- Requires all tools to integrate around centralized repository
  - Data import (duplication) for foreign tools
- Works as well as other centrally-planned economies have worked
  - Do your company's needs match a fixed, pre-planned solution, or is an open, integrated economy a better model?



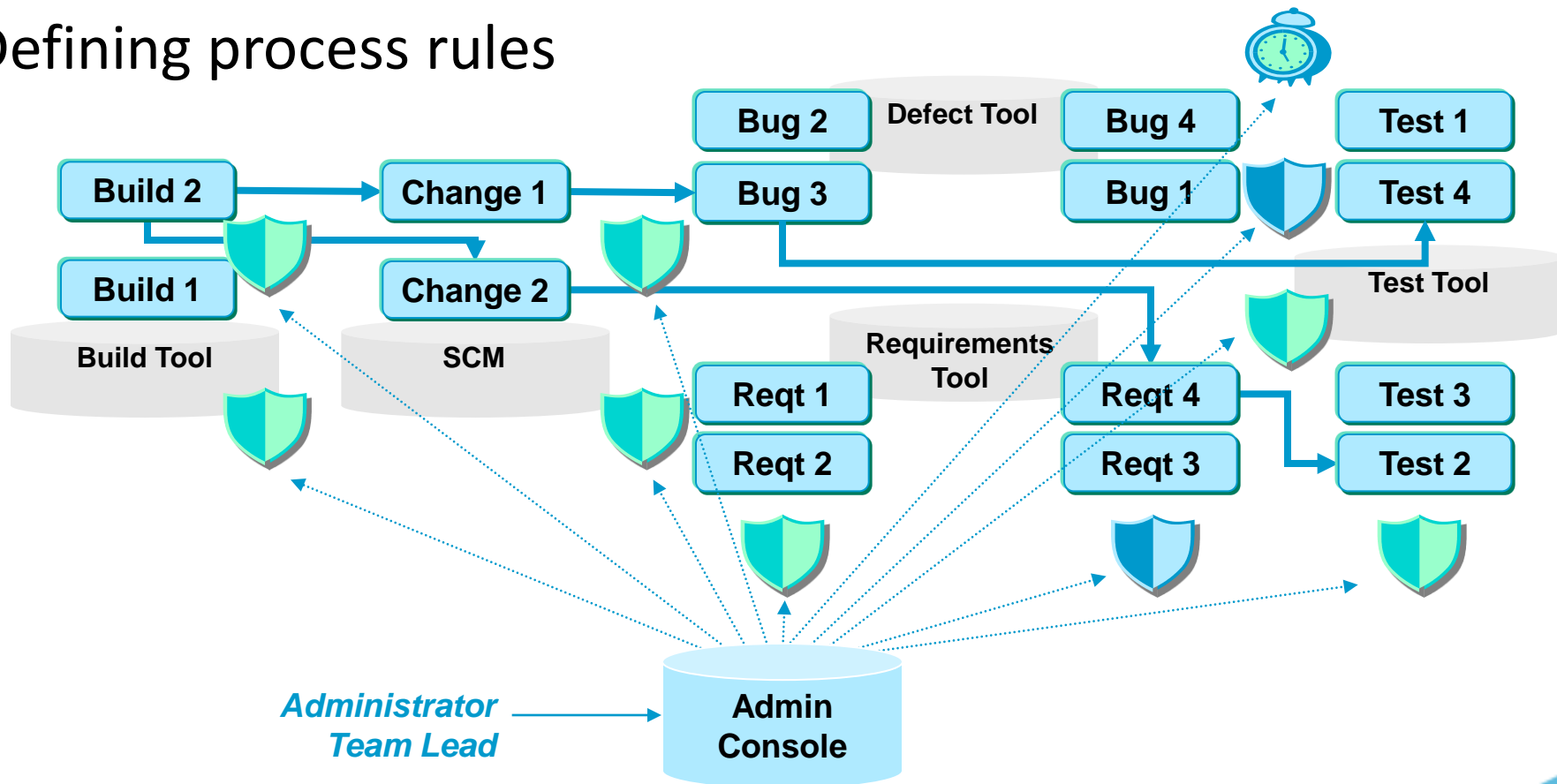
# Another approach: Linked data



# Finding and analyzing data




# Defining process rules



# Open Services for Lifecycle Collaboration

## *Specifications for linked lifecycle data*

Home
About
Community
Wiki
Learn



## Open Services for Lifecycle Collaboration

open community. open interfaces. open possibilities.

Open Services for Lifecycle Collaboration (also known as OSLC or Open Services) is a community effort to help software delivery teams by making it easier to use lifecycle tools in combination. The OSLC community is creating open, public descriptions of resources and interfaces for sharing the things that software delivery teams rely on, like change requests, test cases, defects, requirements and user stories.

By agreeing on common specifications for lifecycle resources and the services to access them, we can eliminate traditional barriers between tools and open the door to new forms of collaboration. OSLC can bring value to software delivery teams and tool providers alike, from the most Agile to the most ceremonial of projects, and for commercially-licensed, open source, and internally developed tools. [More](#).

*With OSLC's open and scenario-based approach, businesses benefit from the ability to tie disparate tools together. This collaborative approach gives our consultants the flexibility to make lifecycle tool choices based on specific client project demands.*

*Randy Vogel, Accenture*

**Learn more**

- [Presentation: ALM Integration in a Web 2.0 World](#)
- [Presentation: RESTful Work Items: Opening up Collaborative ALM](#)
- [Podcast: Open Services bears first fruit. A conversation with Steve Abrams, Mik Kersten, and Carl Zettie.](#)
- [Whitepaper: The Case for Open Services](#)
- [Podcast: John Wiegand and Steve Abrams introduce the OSLC initiative](#)

**News and events**

- [Implementations delivered for Change management 1.0 spec \(press release\)](#)
- [Change management 2.0 spec workgroup expanding participants.](#)
- [Requirements management and Asset management workgroups draft early specs.](#)
- [Primer authored for Software Estimation and Measurement](#)
- [New Reporting workgroup call for participation.](#)

**Quick links**

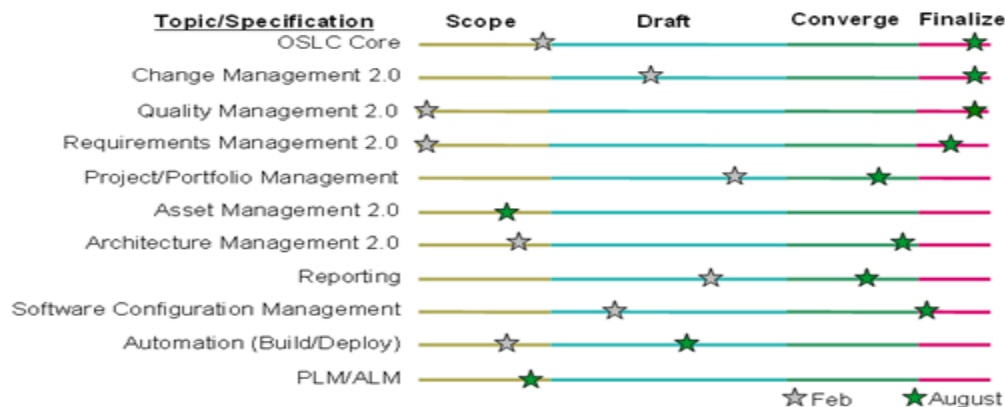
- [Wiki: Open Services specifications](#)
- [Mailing list: OSLC community](#)
- [Blog: Let's try something different - Carl Zettie's commentary on OSLC](#)
- [Twitter - follow us: @oslcNews](#)

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Feedback

- An open community of individuals from industry, commercial tools vendors, systems integrators, open source projects, and academia.
- Focusing on sharing of lifecycle data (requirements, test cases, change requests) between tools and across the lifecycle.
- Taking a technology-neutral approach based on Internet standards and protocols.
- Operating at [open-services.net](http://open-services.net)

# OSLC Community

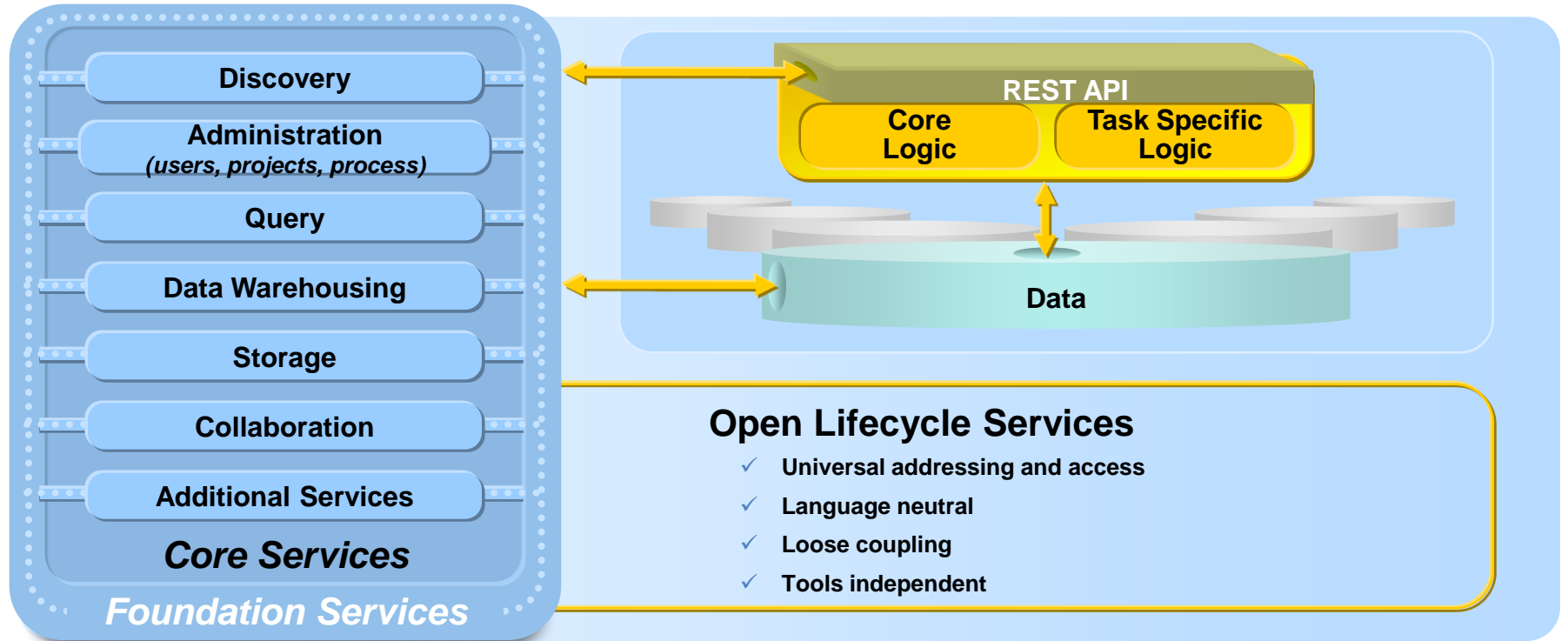
- Eleven workgroups operating at open-services.net
  - Intensive focus in 2010 on Core and CLM related specs (CM, RM, QM, Arch Mgmt, SCM)
  - PLM/ALM workgroup defining cross-cutting scenarios and driving a systems perspective
- Continuing to grow
  - 345+ registered community members (up from 70 people at RSC 2009)
  - Individuals from 34+ different companies have participated in OSLC workgroups (up from 5 companies at RSC 2009)



- |                           |                            |
|---------------------------|----------------------------|
| Accenture                 | Lender Processing Services |
| APG                       | Northrop Grumman           |
| Black Duck                | Oracle                     |
| Boeing                    | QSM                        |
| BSD Group                 | Rally Software             |
| Citigroup                 | Ravenflow                  |
| EADS                      | Shell                      |
| Emphasys Group            | Siemens                    |
| Empulsys                  | Sogeti                     |
| Ericsson                  | SourceGear/Teamprise       |
| Fokus Fraunhofer          | State Street               |
| Galorath                  | Tasktop (Eclipse Mylyn)    |
| General Motors            | Thales                     |
| Health Care Services Corp | Tieto                      |
| IBM                       | TOPIC Embedded Systems     |
| Institut TELECOM          | UrbanCode                  |
| Integrate Systems         | WebLayers                  |



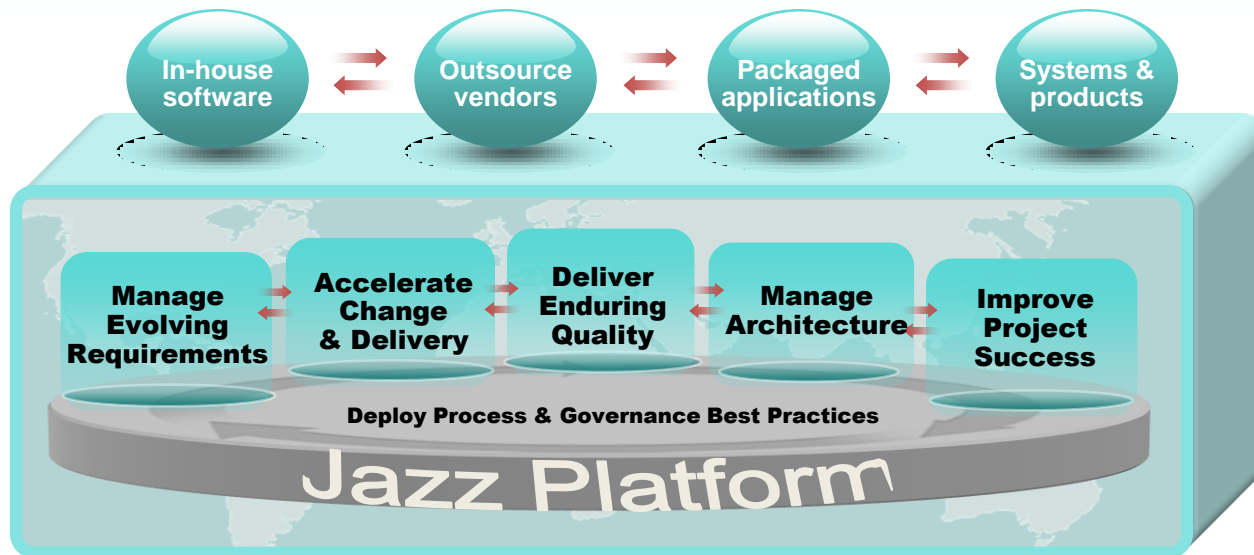
# *Jazz: Open, extensible, web-centric, integration platform*



# IBM Rational Software Delivery Platform

**Rational.** software

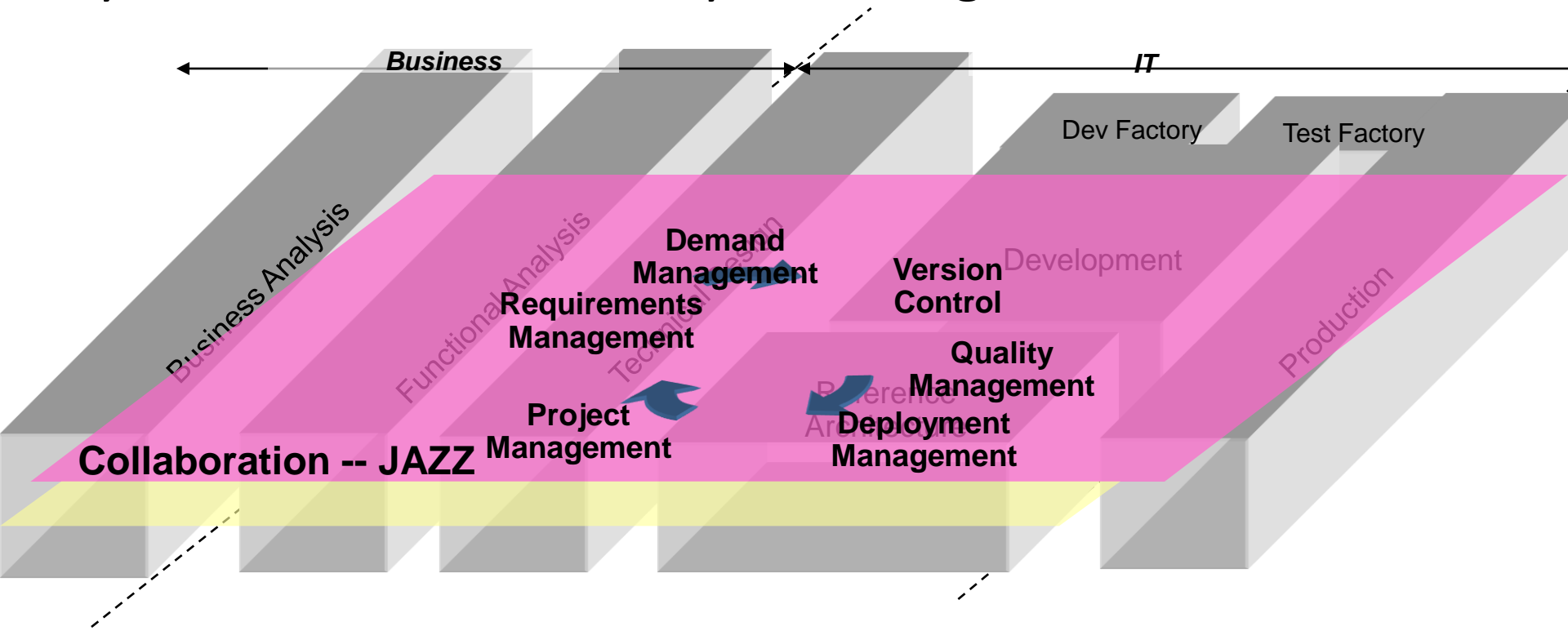
***Solutions** to help customers achieve greater value and performance from their investments in delivering software*



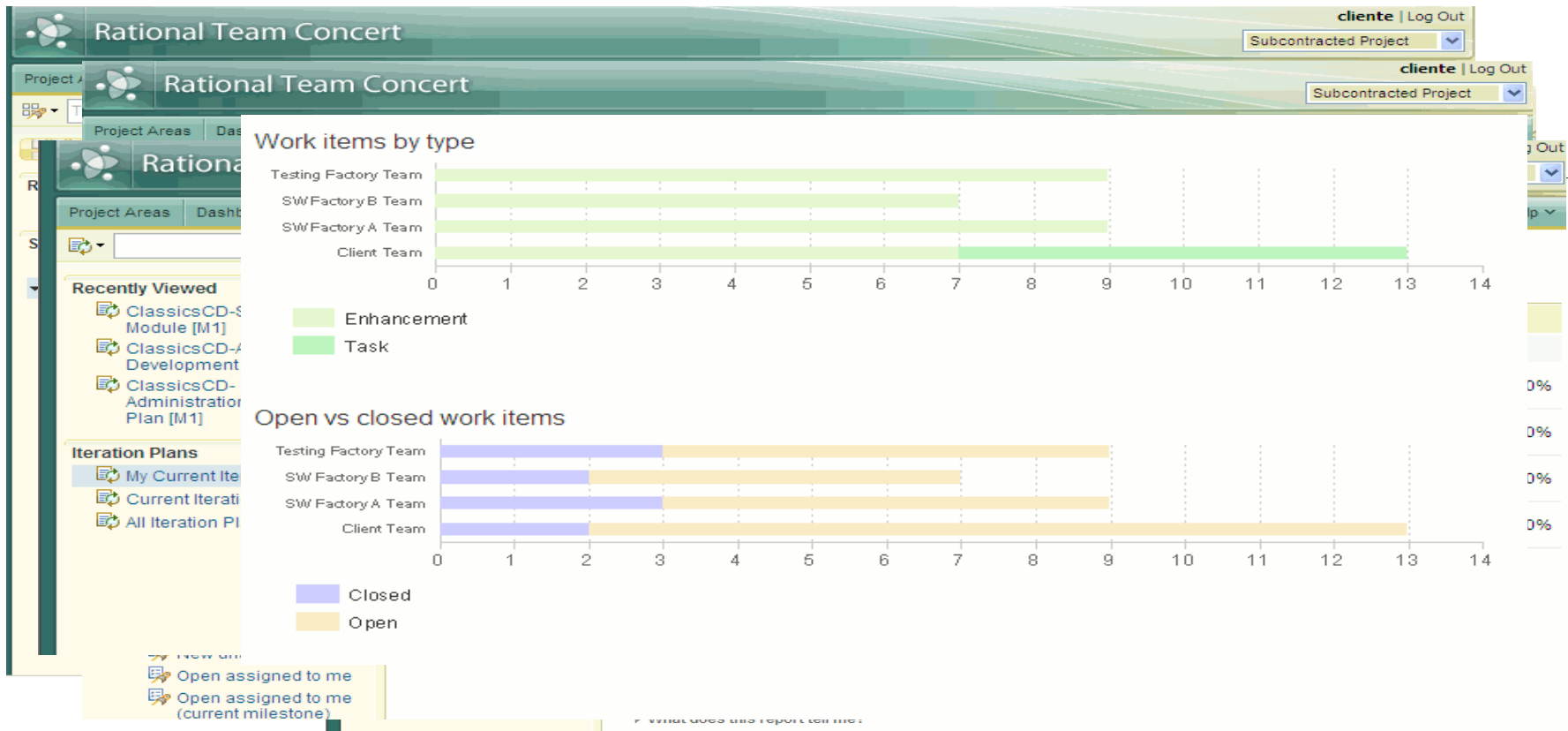
- *Enterprise Modernization and Transformation*
- *Organizational Governance*
- *Skill Development and Community*
- *Implementation Services*



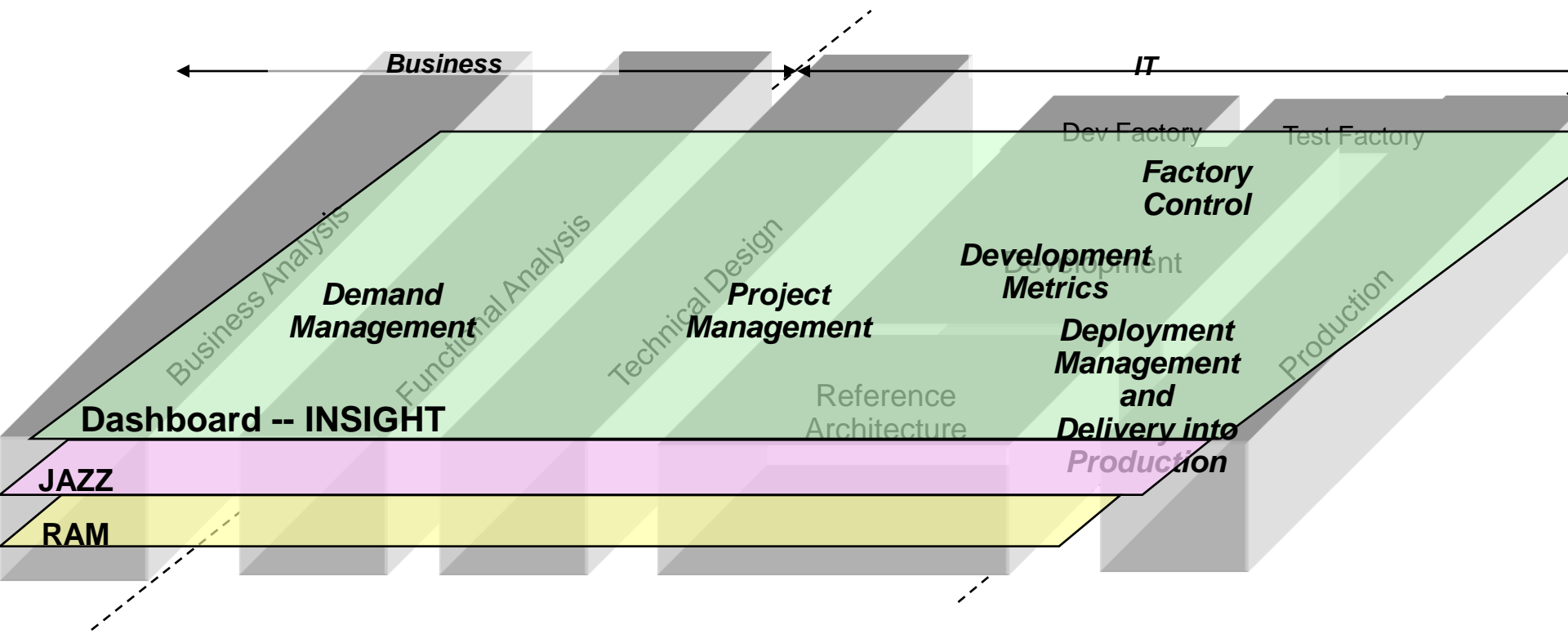
# Layer 1: Collaborative Lifecycle Management



# Governance and Control of Software Delivery



# Layer 2 : Governance : Rational Jazz Insight



# Executive Dashboards

Region: United States

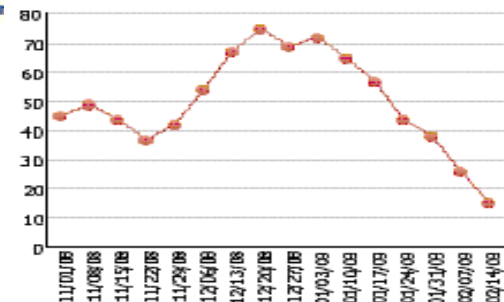
# of Head Count

Role

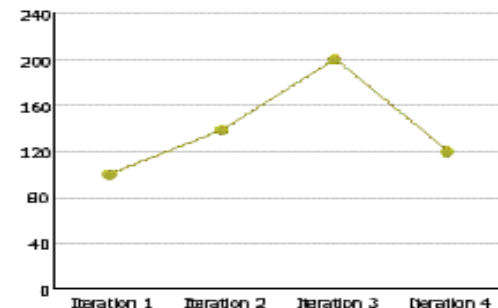
Architect Developer Doc Marketing Sales Tester Total (Project)

▶ Smarter Planet ▶ Online Auction

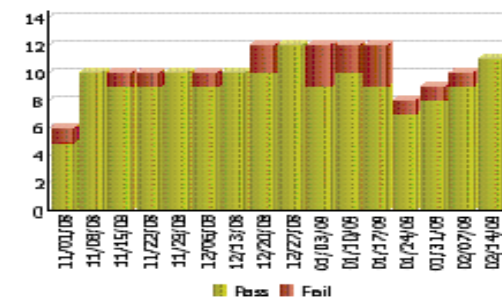
## Outstanding Work



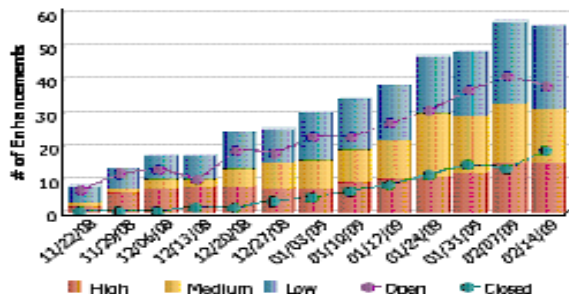
## Iteration Velocity



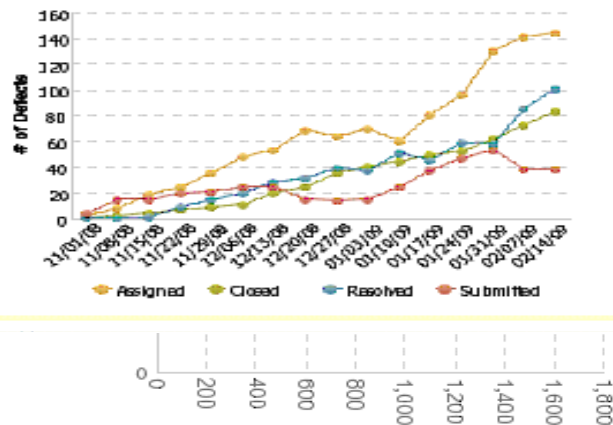
## Build Health



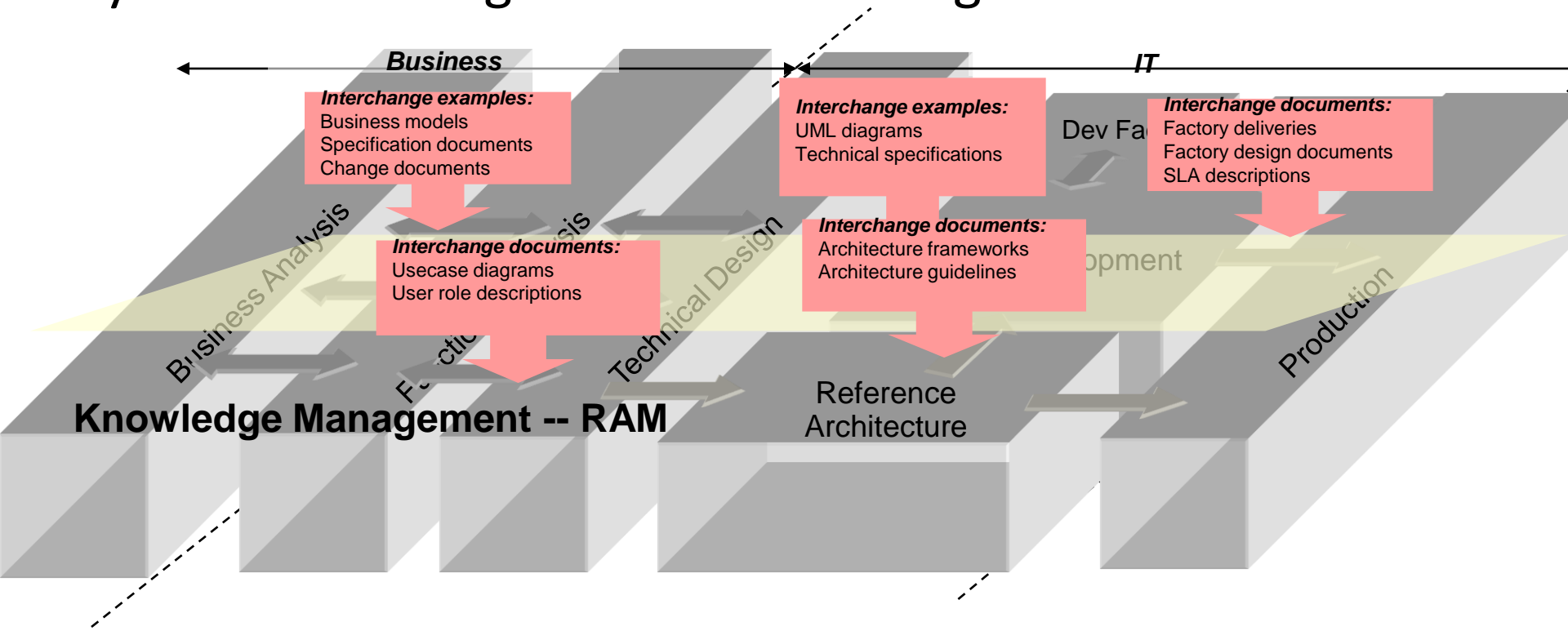
## Enhancement Request Backlog



## Actual Defect Trends



# Layer 3 : Knowledge and Asset Management



# Large Energy Company's IT organization

- **Objective**

- Applications Management
  - Reduce time to find critical documents for supporting new release of a software products
  - Reduce time down time applications
  - Capture application knowledge from distributed support team workers (India, Brazil)

- **Solution**

- IBM's Rational Asset Manager (RAM)
- Integrations with HP Asset Center, HP Service Center, ClearCase, ClearQuest.

- **Benefits**

- Reduce service down time as a result of better understanding which fine grained RAM development assets have been validated for new operational configurations proposed in Tivoli CCMDB like new versions of WebSphere Server or JVM.
- Faster searching and secure access to documents
- Understand and trace asset lifecycle from development to production.





# Rational's Product Focus for 2010

## Enterprise Modernization

- Collaborative development for z & i

## Project & Process Management

- Integrated project management and reporting

## Foundation

- Scalability
- Security
- Globalization
- Availability

### Team Concert for z

*Enabling enterprise modernization*

### Team Concert for i

*Enabling enterprise modernization*

### Telelogic

*Extending Jazz to the systems development marketplace*

### Project Management

*Manage software projects across multiple sources*

### Insight

*Meaningful metrics from multiple sources*

### Requirements Composer

*Business Expert requirements collaboration*

### Team Concert

*Revolutionary, collaborative development environment*

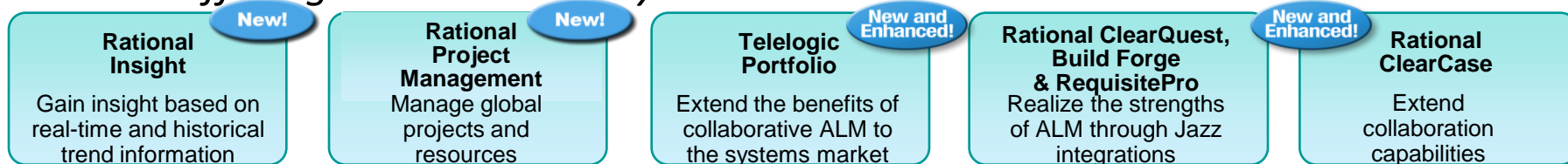
### Quality Manager

*Collaborative, business-driven quality*



# Rational: The Road Ahead

## *Jazz-based offerings in 2010 and beyond*



### Client Integrations

- Eclipse
- Visual Studio
- Microsoft Sharepoint
- Lotus Quickr

### Server Integrations

- Existing Rational offerings
- Business partner offerings
- Open source offerings
- Others to come...

Powered by *jazz*

*More dynamic integration leveraging "Open Services for Lifecycle Collaboration"*





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