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Introduction to Collaborative Lifecycle Management using Rational Jazz

David A. Robinson & Denice Wong

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GARTNER: ALM is about connecting the disciplines

Project/Planning

- Business Drivers
- Iterations
- Sign-off
- Contract
- Risk Assess
- User Involvement

Requirements

- Use Cases
- Nonfunctional
- Sign-off
- Contract
- Risk Assess
- Threat Model
- Test Requirements

Development

- TDD
- Build Management
- Static Analysis
- BVT
- Source Management
- Pair Programming/
Code Review

Testing

- Scenario-Driven Automation
- Exploratory Test
- User Involvement
- Contract Validation

← **Continuous Learning and Feedback** →

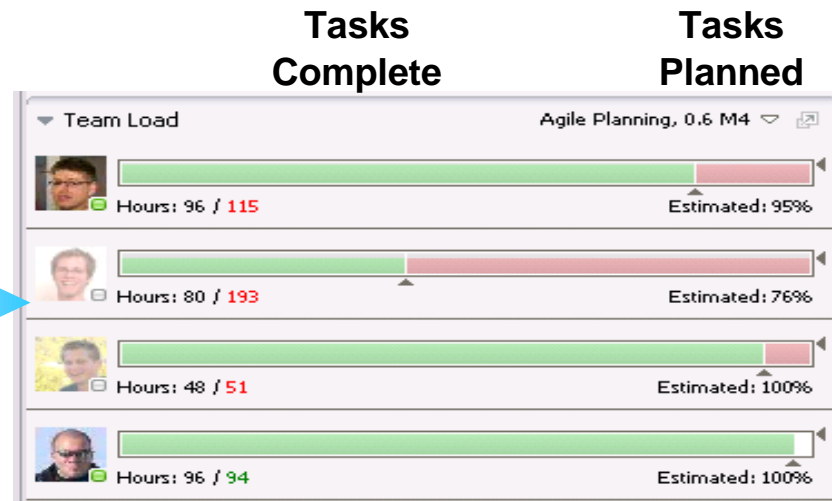
Criteria for effective lifecycle management: ALM imperatives

1. Real-time planning
2. Lifecycle traceability
3. In-Context collaboration
4. Development intelligence
5. Continuous process improvement

IBM Rational Solution for Collaborative Lifecycle Management

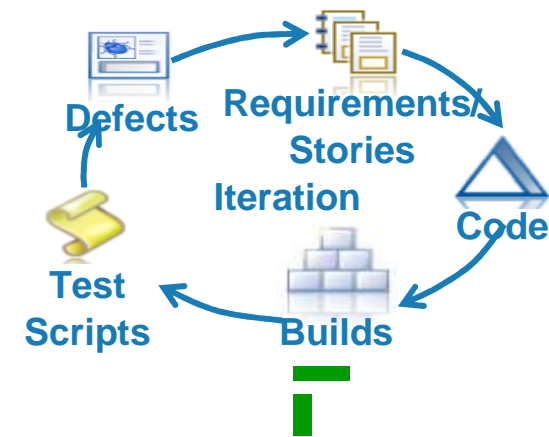
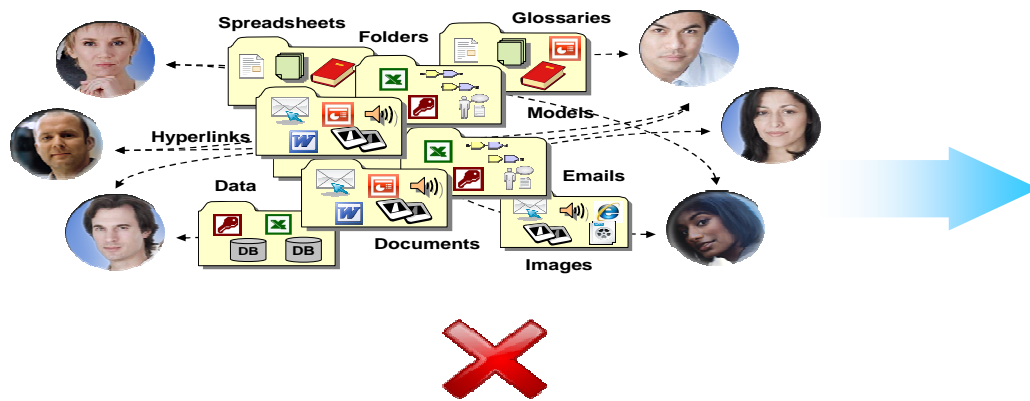
Imperative 1: Real-time planning

Priority	Created On	Created By	Task	Assigned To	Change Cycle	Open Since	Last Modified
75	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - search failed	32 Jim Boyce	Build failure - search failed	11/10/2009 8:34 AM	11/10/2009 8:34 AM
187	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - Search never started	32 Jim Boyce	Build failure - Search never started	11/10/2009 8:34 AM	11/10/2009 8:34 AM
183	11/10/2009 8:34 AM	32 Ram Chandra	Build failure - AddEMU elements to all public methods in our API	32 Ram Chandra	Build failure - AddEMU elements to all public methods in our API	11/10/2009 8:34 AM	11/10/2009 8:34 AM
184	11/10/2009 8:34 AM	32 Ram Chandra	Build failure - check at Bosch	32 Ram Chandra	Build failure - check at Bosch	11/10/2009 8:34 AM	11/10/2009 8:34 AM
186	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - get facts repeatedly	32 Jim Boyce	Build failure - get facts repeatedly	11/10/2009 8:34 AM	11/10/2009 8:34 AM
188	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - Notification for failed agent build shows partially succeeded icon	32 Jim Boyce	Build failure - Notification for failed agent build shows partially succeeded icon	11/10/2009 8:34 AM	11/10/2009 8:34 AM
189	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - Show why this configuration failed and the build's build history	32 Jim Boyce	Build failure - Show why this configuration failed and the build's build history	11/10/2009 8:34 AM	11/10/2009 8:34 AM
193	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - TestServerCheckAndSub failed to get the threshold on build error	32 Jim Boyce	Build failure - TestServerCheckAndSub failed to get the threshold on build error	11/10/2009 8:34 AM	11/10/2009 8:34 AM
192	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - Delay in Team build tool when the plug is large	32 Jim Boyce	Build failure - Delay in Team build tool when the plug is large	11/10/2009 8:34 AM	11/10/2009 8:34 AM
192	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - Build completes a project with error, fails to re-build subsequent, and the	32 Jim Boyce	Build failure - Build completes a project with error, fails to re-build subsequent, and the	11/10/2009 8:34 AM	11/10/2009 8:34 AM
194	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - AddBuildItemMethod throws a Report error message with BuildItem	32 Jim Boyce	Build failure - AddBuildItemMethod throws a Report error message with BuildItem	11/10/2009 8:34 AM	11/10/2009 8:34 AM
195	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - Build did not finish build by an initial error "index was outside the	32 Jim Boyce	Build failure - Build did not finish build by an initial error "index was outside the	11/10/2009 8:34 AM	11/10/2009 8:34 AM
197	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - Build Agent & Computer status in show connectivity in Team Foundation	32 Jim Boyce	Build failure - Build Agent & Computer status in show connectivity in Team Foundation	11/10/2009 8:34 AM	11/10/2009 8:34 AM
198	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - Build Details view - Name of build status icon appear as System.out	32 Jim Boyce	Build failure - Build Details view - Name of build status icon appear as System.out	11/10/2009 8:34 AM	11/10/2009 8:34 AM
201	11/10/2009 8:34 AM	32 Ram Chandra	Error found building the CoreMaps, non-Request Functionality	32 Ram Chandra	Error found building the CoreMaps, non-Request Functionality	11/10/2009 8:34 AM	11/10/2009 8:34 AM
203	11/10/2009 8:34 AM	32 Jim Boyce	Error found building the menu item viewer	32 Jim Boyce	Error found building the menu item viewer	11/10/2009 8:34 AM	11/10/2009 8:34 AM
204	11/10/2009 8:34 AM	32 Ram Chandra	Error found building the menu selection screen	32 Ram Chandra	Error found building the menu selection screen	11/10/2009 8:34 AM	11/10/2009 8:34 AM
207	11/10/2009 8:34 AM	32 Jim Boyce	Error found building the index with screen	32 Jim Boyce	Error found building the index with screen	11/10/2009 8:34 AM	11/10/2009 8:34 AM
211	11/10/2009 8:34 AM	32 Ram Chandra	Missing frames on error	32 Ram Chandra	Missing frames on error	11/10/2009 8:34 AM	11/10/2009 8:34 AM
212	11/10/2009 8:34 AM	32 Jim Boyce	Crash after an edit log between items	32 Jim Boyce	Crash after an edit log between items	11/10/2009 8:34 AM	11/10/2009 8:34 AM
213	11/10/2009 8:34 AM	32 Jim Boyce	Availability to start builds after saving	32 Jim Boyce	Availability to start builds after saving	11/10/2009 8:34 AM	11/10/2009 8:34 AM
217	11/10/2009 8:34 AM	32 Ram Chandra	Choosing build items taking a very long time	32 Ram Chandra	Choosing build items taking a very long time	11/10/2009 8:34 AM	11/10/2009 8:34 AM
218	11/10/2009 8:34 AM	32 Ram Chandra	Error found building the map viewer	32 Ram Chandra	Error found building the map viewer	11/10/2009 8:34 AM	11/10/2009 8:34 AM
219	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - Tests that use IBuildItem are failing	32 Jim Boyce	Build failure - Tests that use IBuildItem are failing	11/10/2009 8:34 AM	11/10/2009 8:34 AM
187	11/10/2009 8:34 AM	32 Ram Chandra	Setting on build step doesn't work	32 Ram Chandra	Setting on build step doesn't work	11/10/2009 8:34 AM	11/10/2009 8:34 AM
188	11/10/2009 8:34 AM	32 Ram Chandra	Choosing solutions dialog causing confusion	32 Ram Chandra	Choosing solutions dialog causing confusion	11/10/2009 8:34 AM	11/10/2009 8:34 AM
189	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - Build stopped build when build option is changed while a build is	32 Jim Boyce	Build failure - Build stopped build when build option is changed while a build is	11/10/2009 8:34 AM	11/10/2009 8:34 AM
194	11/10/2009 8:34 AM	32 Ram Chandra	Build failure - search index failure in build tool	32 Ram Chandra	Build failure - search index failure in build tool	11/10/2009 8:34 AM	11/10/2009 8:34 AM
195	11/10/2009 8:34 AM	32 Jim Boyce	Build failure - Remove the recursive property from the Get tasks	32 Jim Boyce	Build failure - Remove the recursive property from the Get tasks	11/10/2009 8:34 AM	11/10/2009 8:34 AM



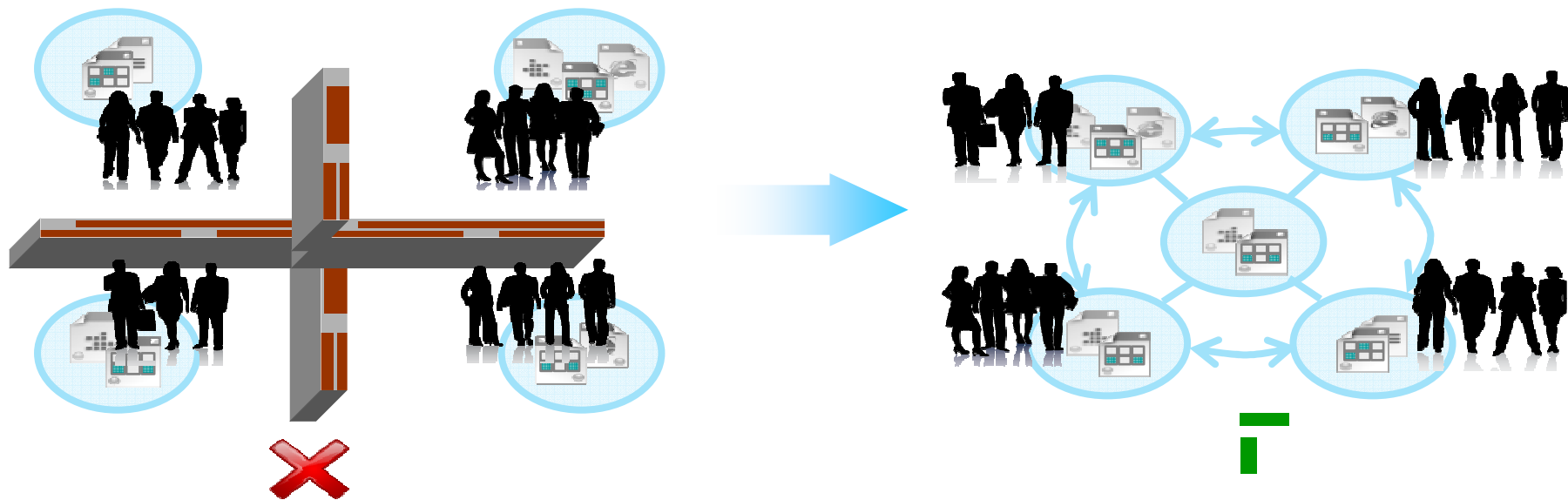
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Imperative 2: Lifecycle traceability



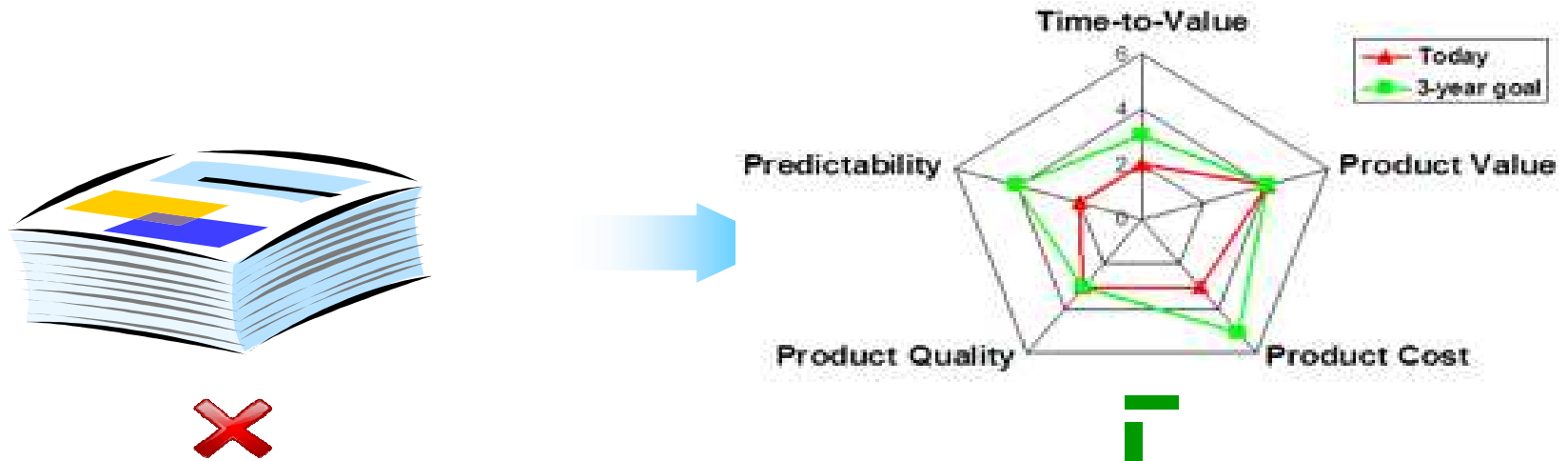
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Imperative 3: In-Context collaboration



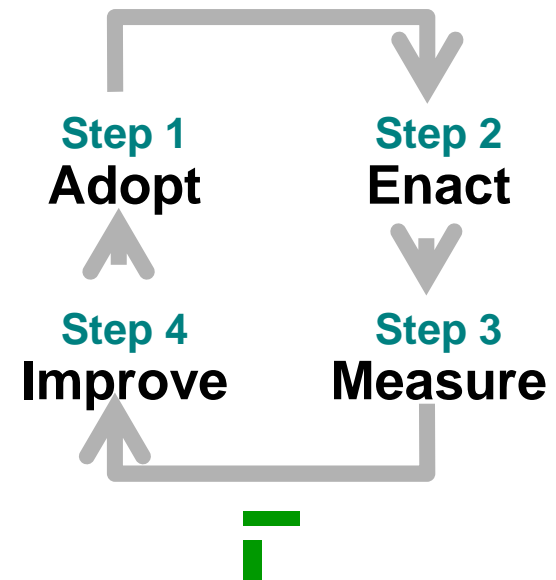
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Imperative 4: Development Intelligence



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Imperative 5: Continuous process improvement



IBM Rational Solution for Collaborative Lifecycle Management

An ALM solution powered by Jazz

Rational solution for Collaborative Lifecycle Management

CREATE SOFTWARE

Real-time Planning, Lifecycle Traceability, Team Collaboration, Development Intelligence, Continuous Process Improvement

**Rational
Requirements
Composer**

Requirements
Management

**Rational Team
Concert**

Planning, Change,
Configuration & Build
Management

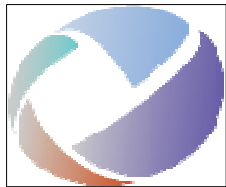
**Rational Quality
Manager**

Quality
Management



*extensions

Open interfaces. Open possibilities.



Open Services for Lifecycle Collaboration

*An industry initiative
for simplifying tool integration across the
software lifecycle .*

Barriers to sharing resources across the software lifecycle

- ▶ Multiple vendors, open source projects, and in-house tools
- ▶ Private vocabularies, formats and stores
- ▶ Entanglement of tools and data

▶ The Open Services initiative is

- **Building** a community of vendors, open source projects, integrators and IT teams, at **open-services.net**
- **Creating** public specifications of resources and services, like change requests, test cases, defects, requirements and user stories
- **Delivering** loosely coupled resource formats and services with “just enough” standardisation

SIEMENS

dbMAESTRO



iTKO LISA™

ascendant
TECHNOLOGY



BSD GROUP
Better Software Development

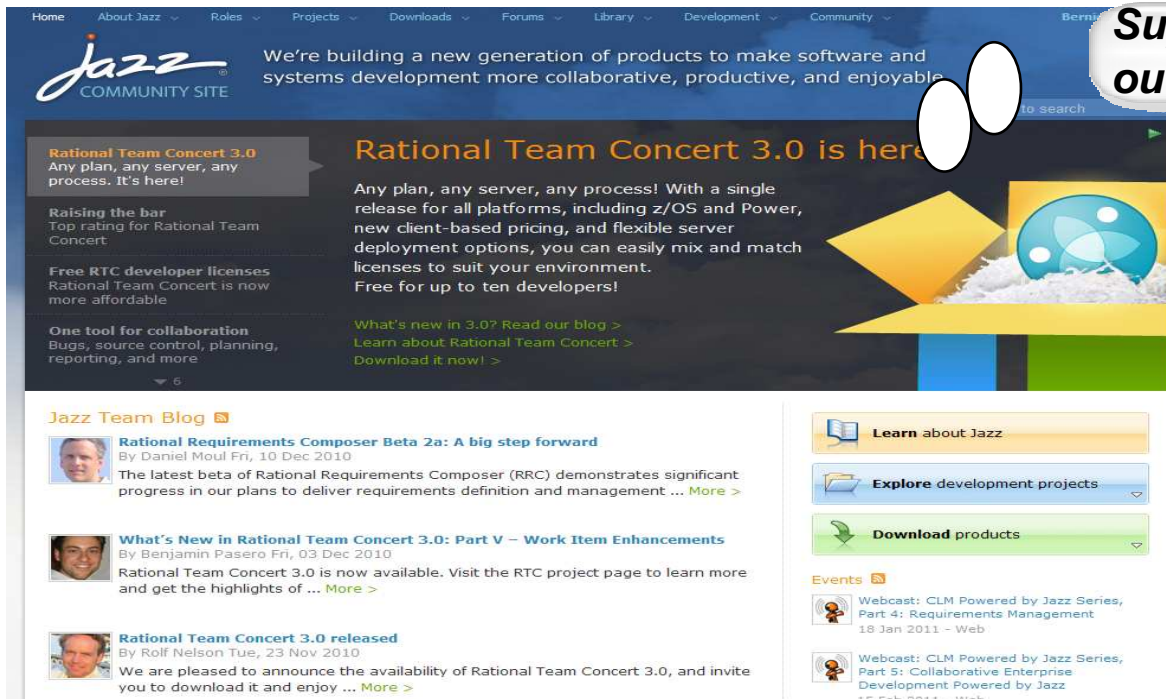


Tasktop

ORACLE

jazz.net

Creating a higher-fidelity connection to our customers



Suppose we did our development out on the Internet?

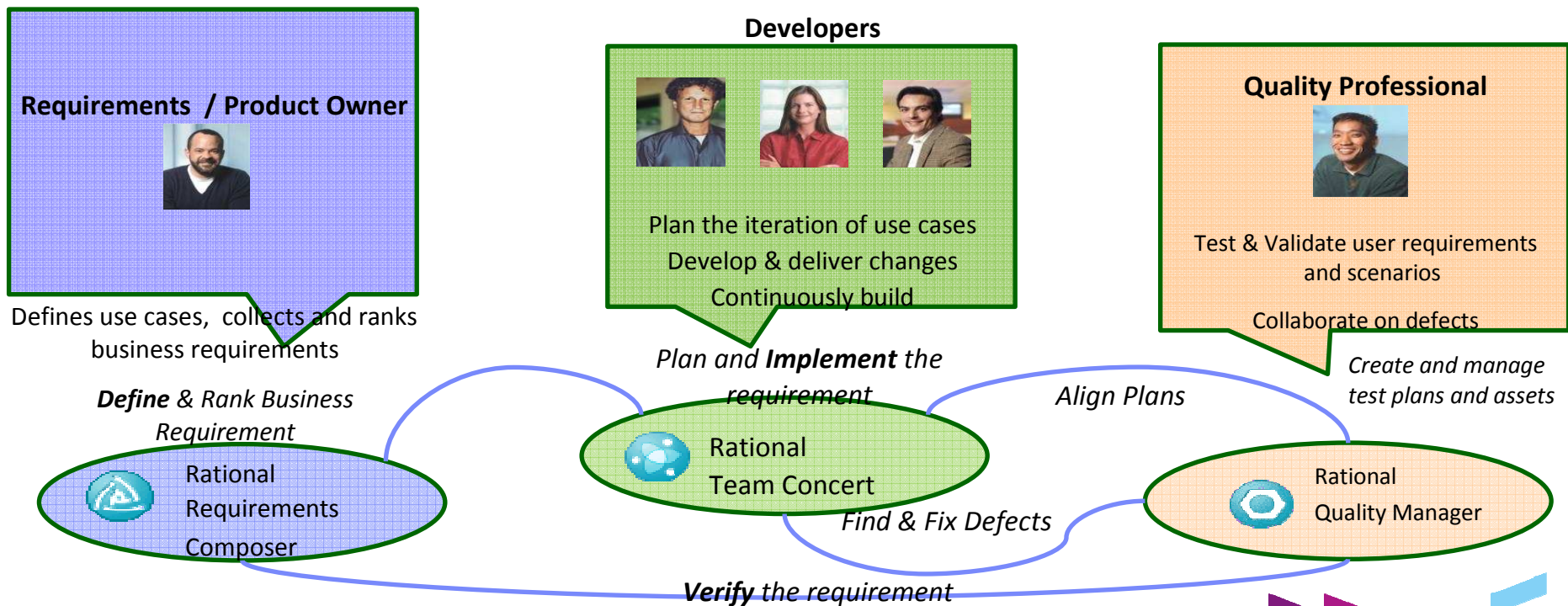
A transparent software delivery laboratory where you can...

- ✓ Get answers and insights directly from engineering
- ✓ Communicate with the development team
- ✓ Track the progress of builds and milestones
- ✓ Get the latest product trials and betas
- ✓ Join developers and product managers in discussion groups
- ✓ Submit defect and enhancement requests

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Technical Demonstration using Rational Jazz technology

*Real time personal and lifecycle **dashboards**, related to your role*



IBM Rational Solution for Collaborative Lifecycle Management



Questions





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