




Open Mic Series

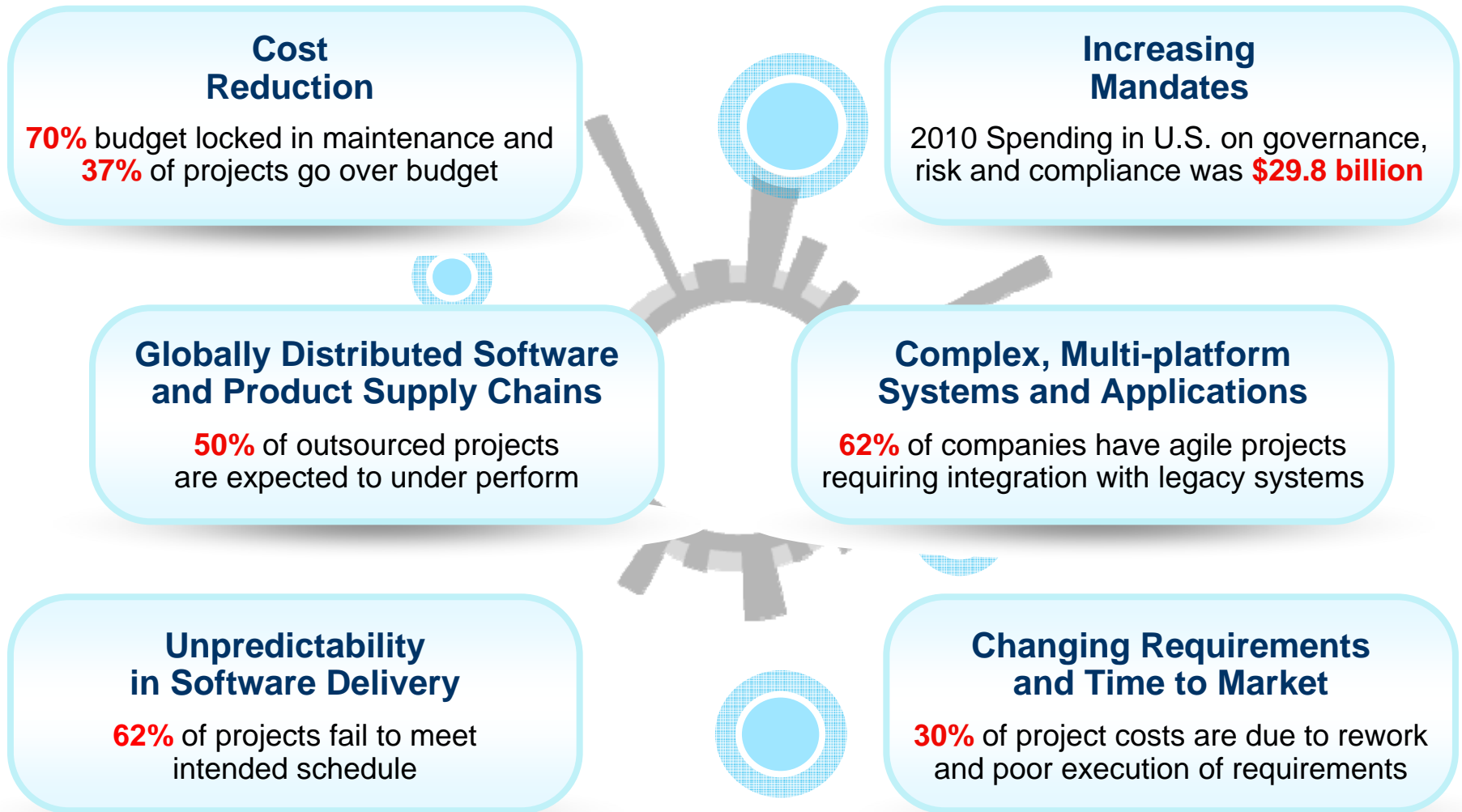
IBM Rational solution for Collaborative Lifecycle Management



Agenda

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- 1 Market Snapshot – Jazz resonance and sales impact
 - 2 The Five ALM Imperatives
 - 3 What's New in IBM Rational Collaborative Lifecycle Management (CLM) 3.0

Complexity creates opportunity



Clients seek expertise and solutions in the following areas

Decide

Help me make strategic decisions
Sell Enterprise Architecture and Portfolio Solutions

Develop

Help me develop what I decide
Sell Application Lifecycle Management Solutions

Deploy

Help me deploy what I develop
Sell Deployment Planning & Automation Solutions

Integrate, Instrument & Improve

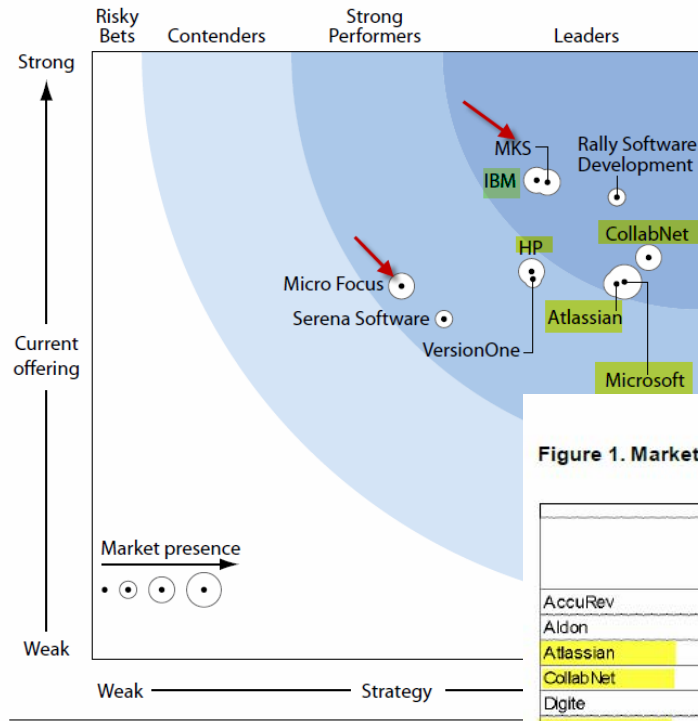
Help me oversee this entire value chain and incrementally improve

3 inter-related lifecycles of activity involving different goals, timelines, roles, processes and tools. Primary solution sell RRC, RTC, RQM

ALM is a market.
CLM is a solution and refers only to the specific combination of RTC, RQM and RRC. CLM is one of several ALM solutions.

IBM leadership dominates marketplace

Figure 5 Forrester Wave™: Agile Development Management Tools, Q2 '10



MAGIC QUADRANT

Figure 1. Magic Quadrant for Integrated Software Quality Suite

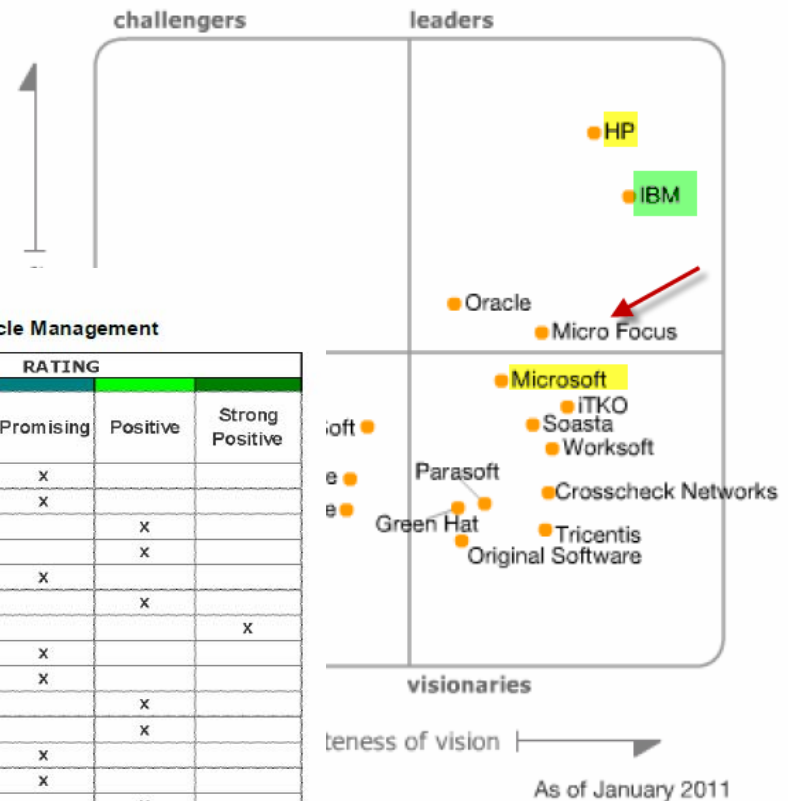


Figure 1. MarketScope for Application Life Cycle Management

	RATING				
	Strong Negative	Caution	Promising	Positive	Strong Positive
AccuRev			x		
Aldon			x		
Atlassian				x	
CollabNet				x	
Digite			x		
HP				x	
IBM					x
Kovair			x		
Micro Focus			x		
Microsoft				x	
MKS				x	
Parasoft			x		
Polarian Software			x		
Rally Software				x	
Seapine Software			x		
Serena Software				x	
SmartBear Software			x		
TechExcel			x		
ThoughtWorks			x		
VersionOne				x	

As of 11 November 2010
Source: Gartner (November 2010)

Gartner MarketScope for Application Life Cycle Management

IBM Rational earns “Strong Positive” – the highest possible rating

Gartner

Efficient coordination and automation of the delivery process **requires new, collaborative approaches** to the planning, measurement, execution, control and reporting of activities.

These **new approaches are what differentiate current application life cycle management (ALM) tools**, and what make ALM processes vital to leading-edge development activities.

ALM is what **enables sustainable agile practices**. ALM creates a management framework providing consistent, auditable records of the decisions and activities of agile teams.

IBM earns “Strong Positive” the highest possible rating

	RATING				
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Aldon			x		
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CollabNet				x	
Digite			x		
HP				x	
IBM					x
Kovair			x		
Micro Focus			x		
Microsoft				x	
MKS				x	
Parasoft			x		
Polarian Software			x		
Rally Software				x	
Seapine Software			x		
Serena Software				x	
SmartBear Software			x		
TechExcel			x		
ThoughtWorks			x		
VersionOne				x	

The MarketScope is copyrighted November 11, 2010 by Gartner, Inc. and is reused with permission. The MarketScope is an evaluation of a marketplace at and for a specific time period. It depicts Gartner's analysis of how certain vendors measure against criteria for that marketplace, as defined by Gartner. Gartner does not endorse any vendor, product or service depicted in the MarketScope, and does not advise technology users to select only those vendors with the highest rating. Gartner disclaims all warranties, express or implied, with respect to this research, including any warranties of merchantability or fitness for a particular purpose. The MarketScope graphic was published by Gartner, Inc. as part of a larger research note and should be evaluated in the context of the entire report. The Gartner report is available upon request from IBM.

What customers are saying...

“**The Jazz platform is a game changer...** Very quickly, the developers came to the conclusion themselves that we would really **raise the bar** with Rational Team Concert, that we are able to do things that we couldn't possibly do in any of the other toolsets.”
– Bob Aiello, CM Crossroads



[→ Link to video](#)



“**We are seeing an amazing sort of collaborative effect** that you know of course the experts say that's what happens, but it's kind of remarkable to see it happen in real life ... we have seen a reduction in the effort spent on requirements from about 21% of our overall effort in development down to 9%.”
– Mia McCroskey, Emerging Health IT

[→ Link to video](#)

“What's important for us that these tools are communicating. The Jazz based tools are well fitting to the whole portfolio so **we can protect our investments.**”

– Daniel Pfeffer, DHL

[→ Link to video](#)




“The integration, the collaboration, the openness of the platform: It's no secret what's going on into Jazz. That **makes our company capable of doing things with customers that was not possible just a couple of years ago.**”

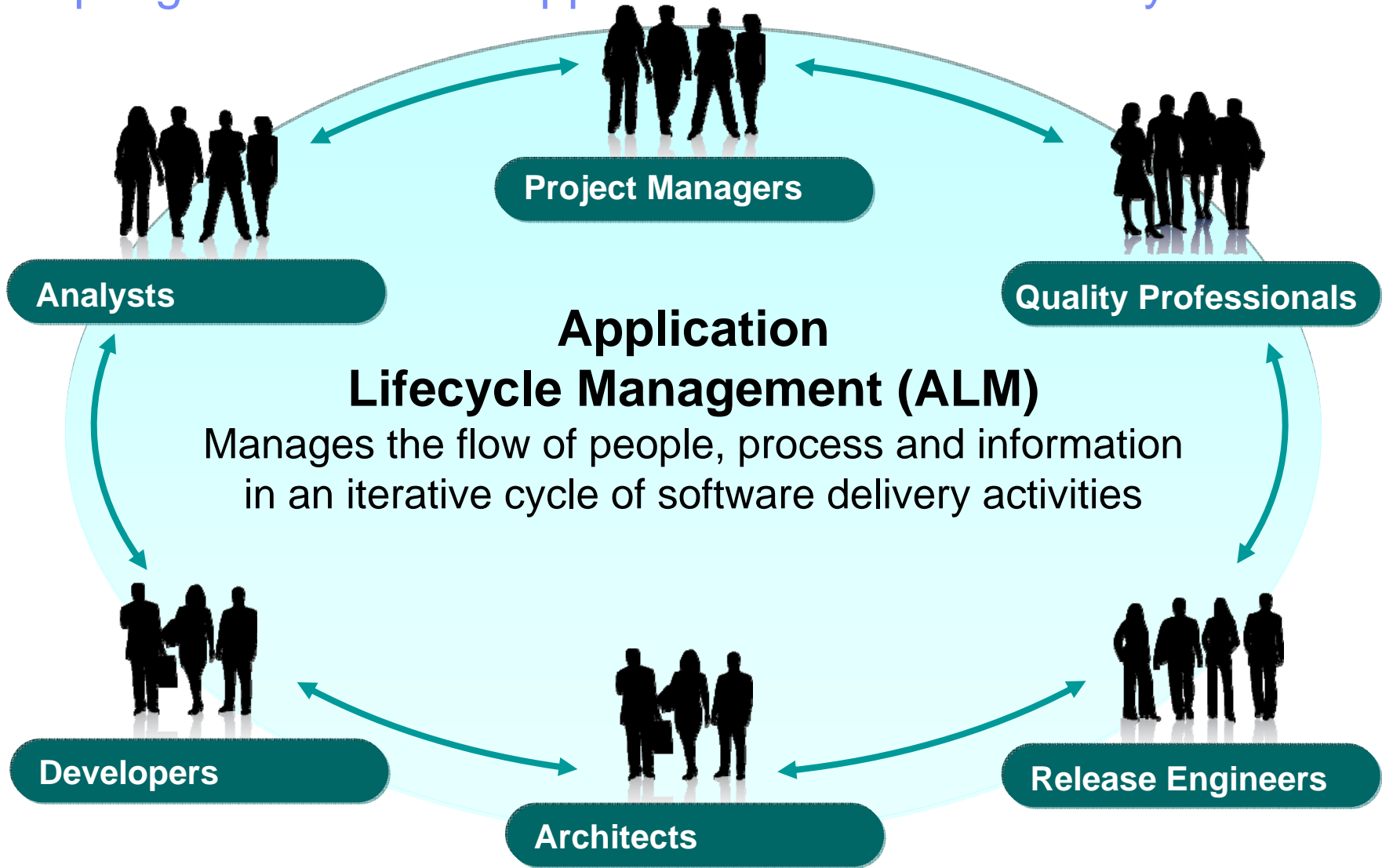
– Peer Eeland, Tieto

[→ Link to video](#)

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Adopting a whole-team approach to software delivery



What is required to deliver end-to-end visibility across teams, tools and projects?



The Five Imperatives of Application Lifecycle Management

Improve organizational productivity

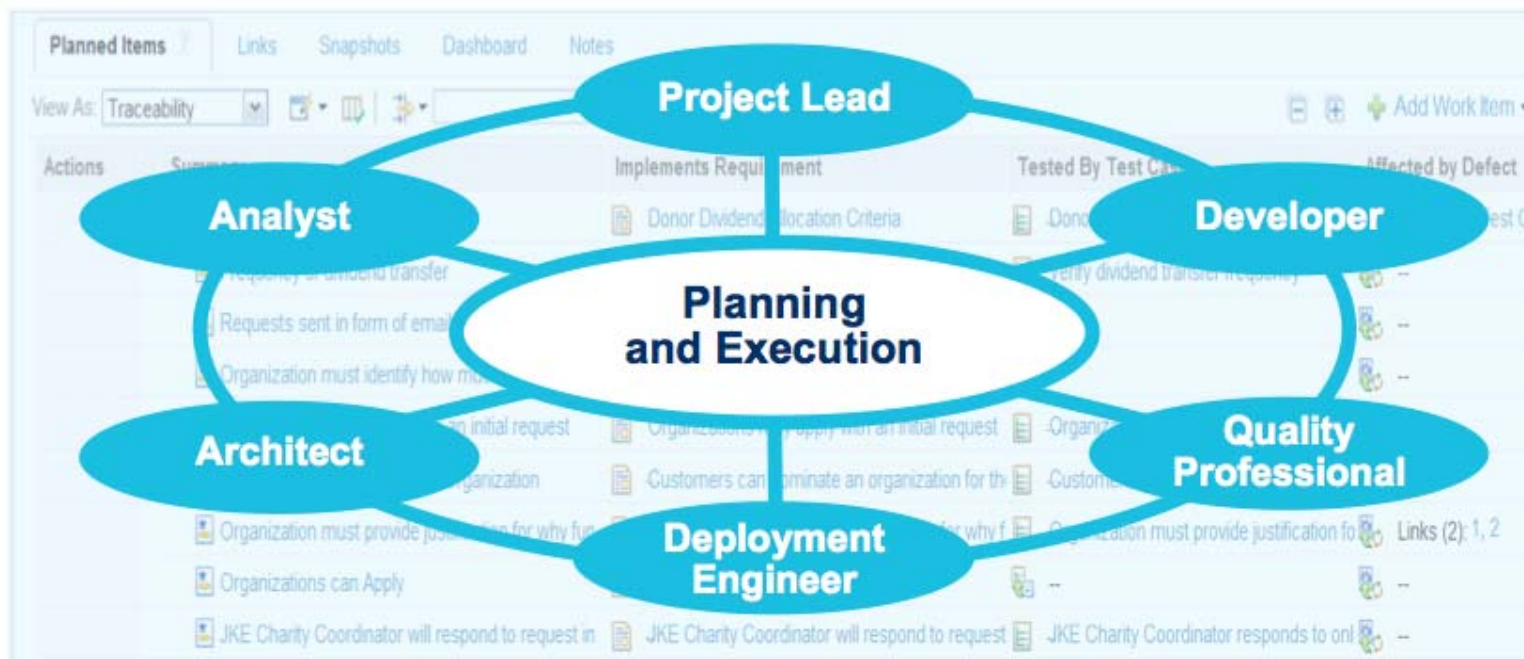
1. Accelerate **time to delivery** with real-time planning
2. Improve **quality** with lifecycle traceability
3. Maximize **value** with in-context collaboration
4. Refine **predictability** with development intelligence
5. Reduce **costs** with continuous improvement



What is Real-time Planning?

Real-time Planning improves time to delivery by:

- Providing a **single plan** that spans requirements, development, and test, ensuring a team understanding of the overall scope of a project
- **Integrating planning with execution**, ensuring the entire team understands the true project status
- Allowing **everyone to participate** in keeping the plan current and accurate
- Helping teams **respond to the unexpected** in a timely manner ensuring the team stays on schedule



Test your real-time planning capabilities

Can your team...

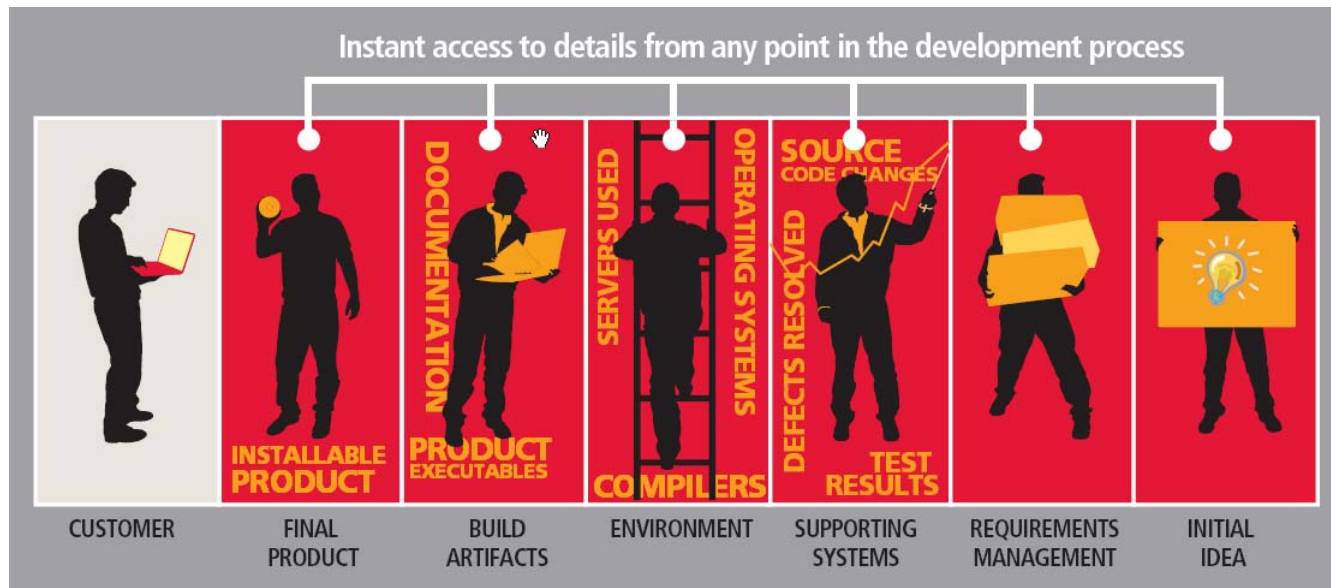
- Plan across the entire team?
- Plan for waterfall, iterative and agile environments?
- Integrate planning with execution?
- Instantly see the impact of a change in project scope or resources?



What is Lifecycle Traceability?

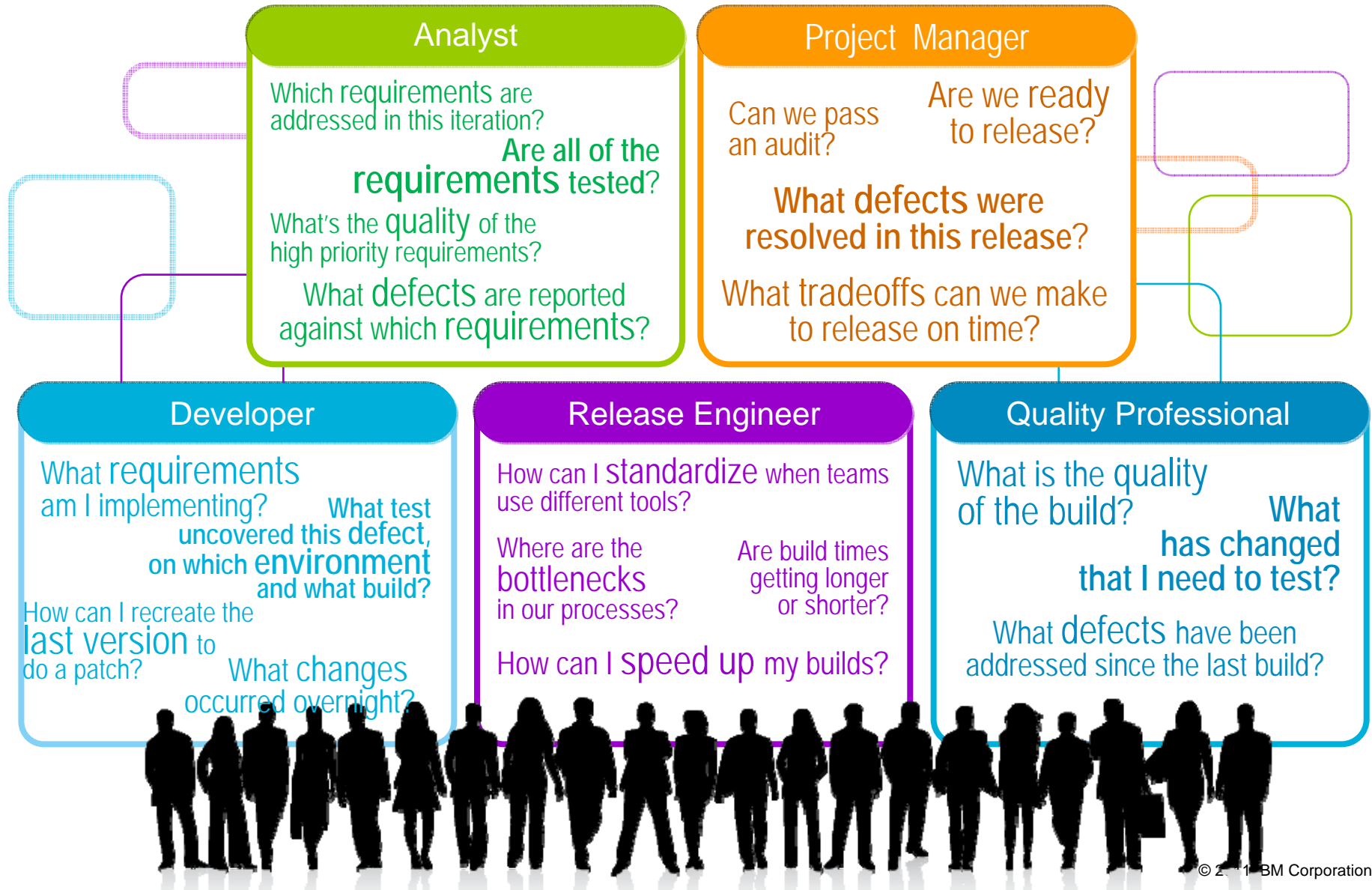
Lifecycle Traceability improves quality by:

- Establishing **relationships between software artifacts**
- Helping you **identify and close artifact gaps**, ensuring **coverage** across disciplines
- Provides visibility into the **completeness** of planned items by inspecting all related artifacts
- Provides easy **access to related artifacts** ensuring everyone shares the same view
- Delivers transparency which enables everyone to make **fully informed decisions** based business priorities



Test your lifecycle traceability capabilities

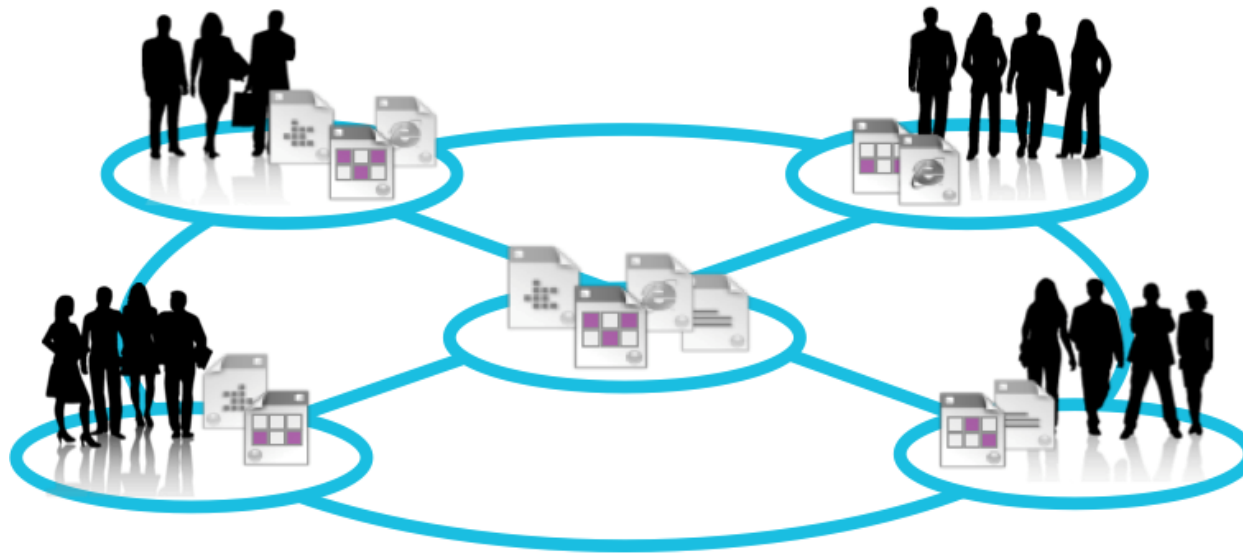
Can your team answer these questions...



What is In-Context Collaboration?

In-Context Collaboration improves product value by:

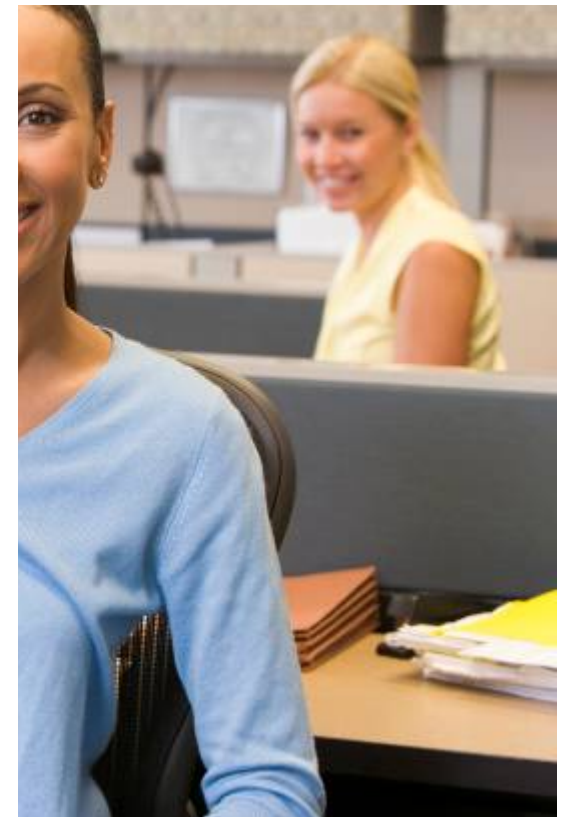
- Making **information immediately accessible** to all team members in the context of their work
- Empowering teams to collaborate on and review software development artifacts so they can **incorporate feedback early and often**
- Providing **single source of truth** hosted in a shared repository so that team members can collaborate effectively around the globe



Test your In-Context Collaboration capabilities

Can your team...

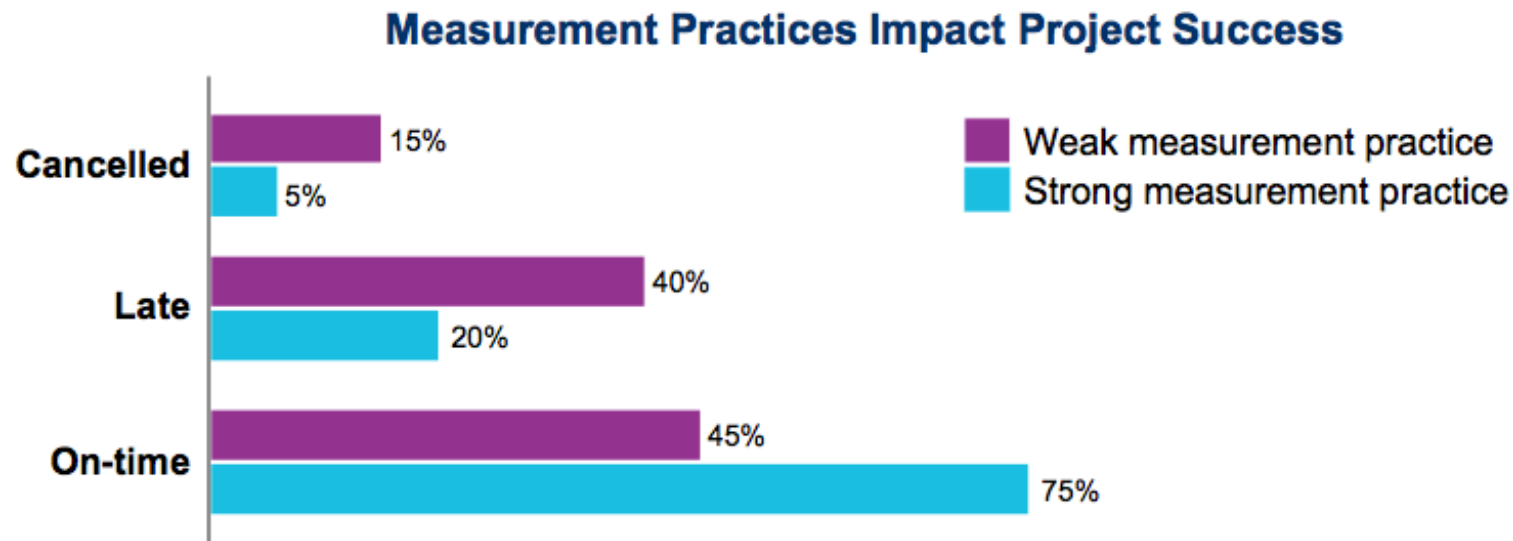
- Easily access the “single source of the truth” through linked artifacts?
- Quickly grasp the “who, what, when and why” of team activities?
- Bring new team members up-to-speed quickly?
- Overcome the barriers of multiple time zones when working with outsourced and distributed team members?



What is Development Intelligence?

Development Intelligence improves predictability by:

- Applying **Business Intelligence techniques** to software and systems development
- Enabling **fact-based decision making** (to communicate status, monitor progress, diagnose problems, identify corrective actions)
- **Steering projects and programs** to deliver on-time



Source: Capers Jones, *Measurement, Metrics and Industry Leadership*, 2009 and *Software Engineering Best Practices*, McGraw Hill, 2010.

Test your development intelligence

Can your team...

- **Time-to-Value**

- Produce the right capabilities according to the committed schedule?

- **Product Value**

- Deliver a valuable product?

- **Product Cost**

- Measure what we spending to deliver the system?

- **Product Quality**

- Build a high quality system?

- **Predictability**

- Manage the risk and uncertainty?



What is Continuous Improvement?

Continuous Improvement reduces cost by:

- Improving software delivery through the ongoing **adoption of best practices and automation** to reduce manual, non-creative and error prone tasks
- Promoting **incremental improvement of a project** when needed
- Enabling breakthrough improvement by **capturing best practices and reusing** across teams
- Allowing **everyone to participate** with easy to adopt best practices at your fingertips.



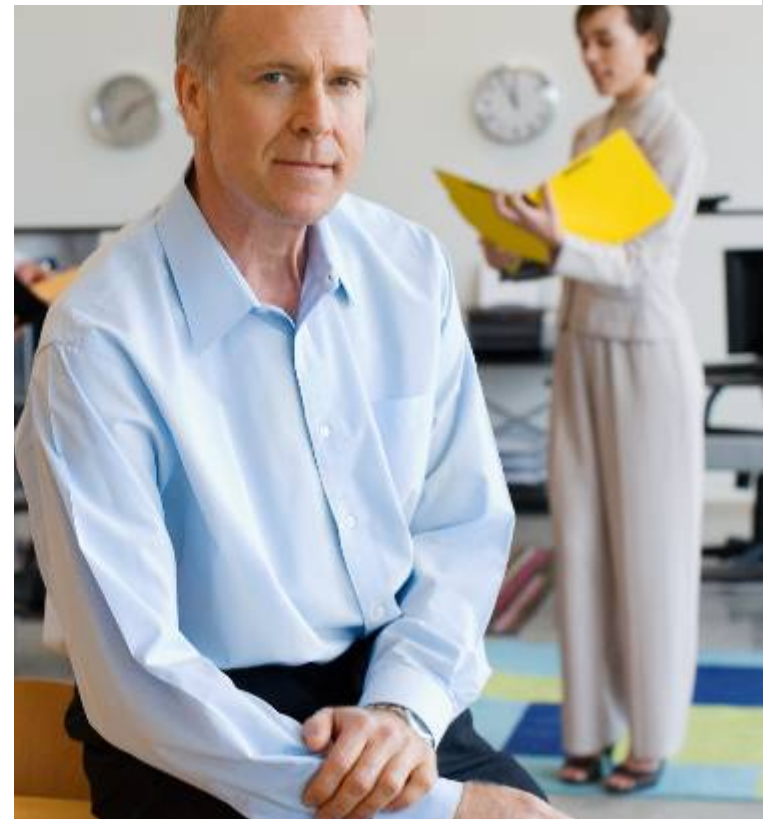
“Successful analytics requires taking it beyond software and reporting, and into the realm of management practices and operations improvement.”

Information Management Online, February 23, 2011

Test your Continuous Improvement capabilities

Can your team...

- Leverage out-of-the-box process templates for traditional and agile workflows?
- Change process “on the fly” as part of a continuous feedback loop?
- Allow team leads to determine how strict or lax the “rules of the road” should be?
- Modify process enforcement over the life of a project, to encourage early-stage experimentation and end-game stability?




Interactive Whiteboard – ALM Everywhere

The screenshot shows the IBM Rational website interface. At the top, there is a navigation bar with the IBM logo, a search bar, and a language selector set to 'United States'. Below the navigation bar, there are menu items: Home, Solutions, Services, Products, Support & downloads, and My IBM. A user greeting 'Welcome Carolyn Pampino [Not you?] [IBM Sign out]' is visible. The main content area features a large whiteboard titled 'Rational.Everywhere'. The whiteboard displays a central blue number '5' surrounded by five yellow sticky notes, each containing a black icon: a person with a circular arrow, a plus sign with a circular arrow, a document with a circular arrow, a magnifying glass with a circular arrow, and a clock with a circular arrow. Below the whiteboard is a video player with a play button, a progress bar, and a timestamp '00:22 / 03:37'. To the right of the whiteboard is a sidebar with three yellow buttons labeled 'Agile.Everywhere', 'Stand Apart.Everywhere', and 'ALM.Everywhere'. Below these buttons are five icons representing different services: a document, a computer monitor, headphones, a video player, and a book. A white box contains the text 'Download your free trial software' and a blue button labeled 'PDF Transcript'. At the bottom of the page, there is a footer with links: About IBM, Privacy, Contact, Terms of use, Accessibility, IBM Feeds, and Jobs.

https://www.ibm.com/services/forms/signup.do?source=swg-rtl-sd-demo&S_PKG=dm_ALM-everywhere

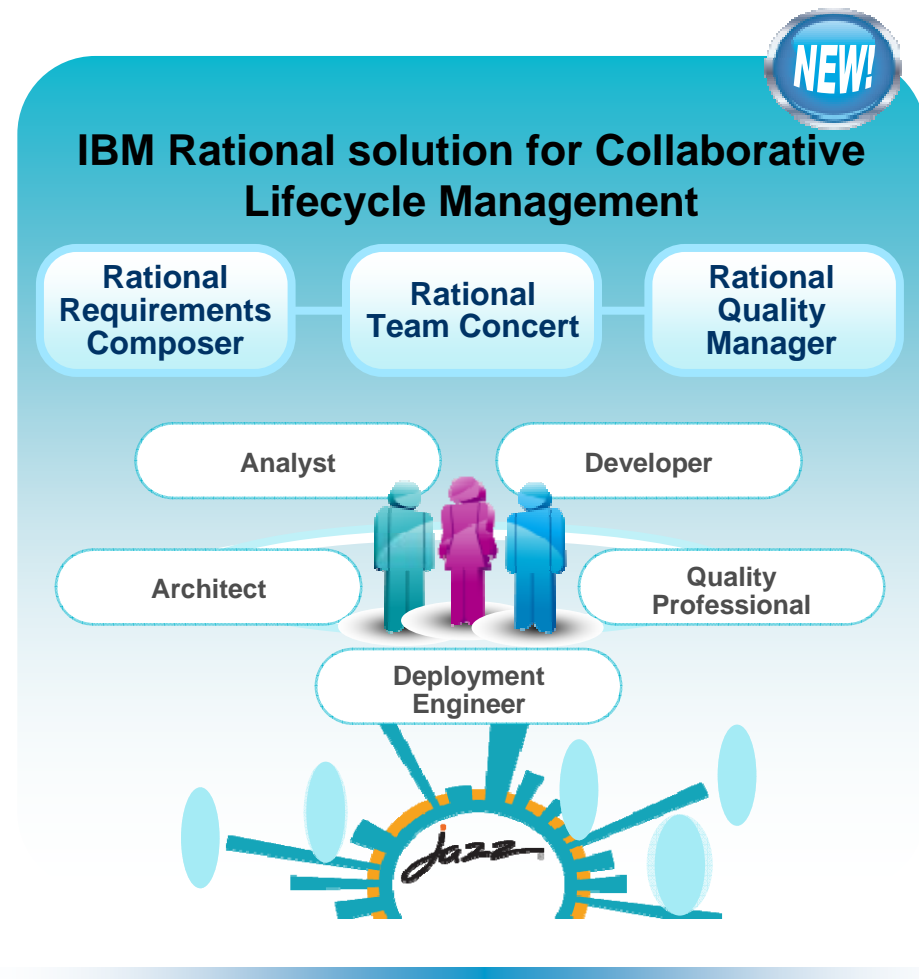
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IBM Rational solution for Collaborative Lifecycle Management

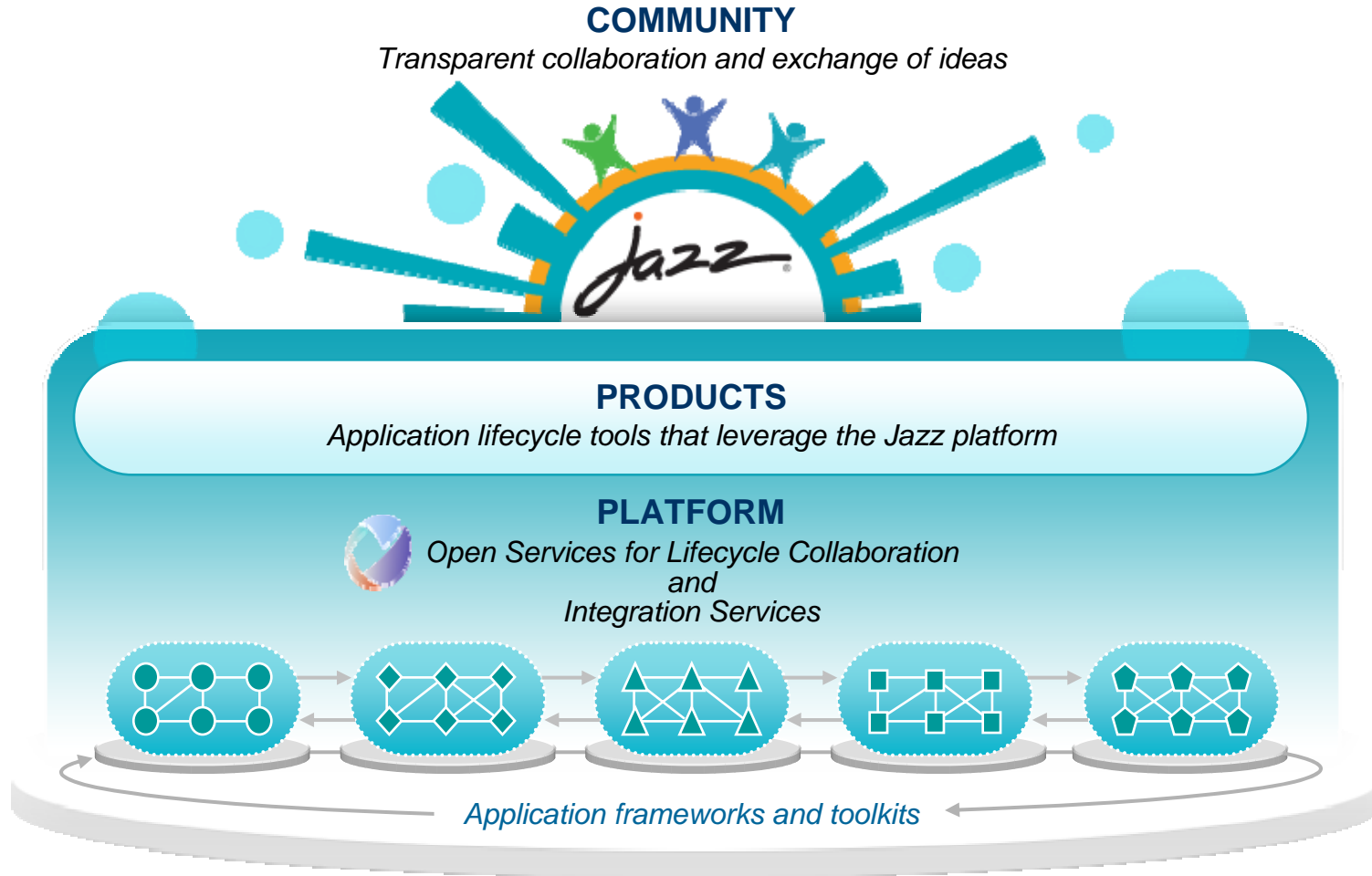
Improve productivity with an integrated ALM solution

- **Optimize your team through support of the 5 ALM Imperatives**
 - Real-time planning
 - Lifecycle traceability
 - In-context collaboration
 - Development Intelligence
 - Continuous Improvement
- **Get up and running quickly**
- **Extend as your needs evolve**
- **Support heterogeneous development across multiple platforms and technologies**



Learn more at: <https://jazz.net/projects/clm/>

Jazz provides open collaboration across the software and systems lifecycle



Learn more at: <https://jazz.net/about/>

Open Services for Lifecycle Collaboration (OSLC)

An initiative aimed at simplifying data linking and tool integration across the lifecycle



Open Services for Lifecycle Collaboration

Barriers to sharing resources and assets among tools

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

- ▶ Community Driven – specified at **open-services.net**
- ▶ Specifications for ALM, PLM and DevOps Interoperability
- ▶ Inspired by Internet architecture
 - Loosely coupled integration with “just enough” standardization
 - Common resource formats and services
- ▶ A different approach to industry-wide proliferation

Learn more at: <http://open-services.net/>

What's new – From CLM 2010 to now...

1. Reduce the cost of ownership and administration

- Easier to buy: Simplify the packaging and licensing
- Easier to install: Simplify installation of multiple products
- Easier to deploy: Provide flexible deployment options; consistent platform support
- Easier to Administer: Provide unified administration across the products
- Easier to Learn: A sample application demonstrating CLM & online help

2. Improve cross-product visibility and reporting

- Cross-capability reporting
- Enhanced traceability views and lifecycle queries
- Personal dashboards across all applications
- Mini dashboard

3. Strengthen the scenario-based integrations

- Work-items as a service
- More link types “Tracks / Tracked by”
- Enhanced consumability & common style
- A sample application demonstrating CLM

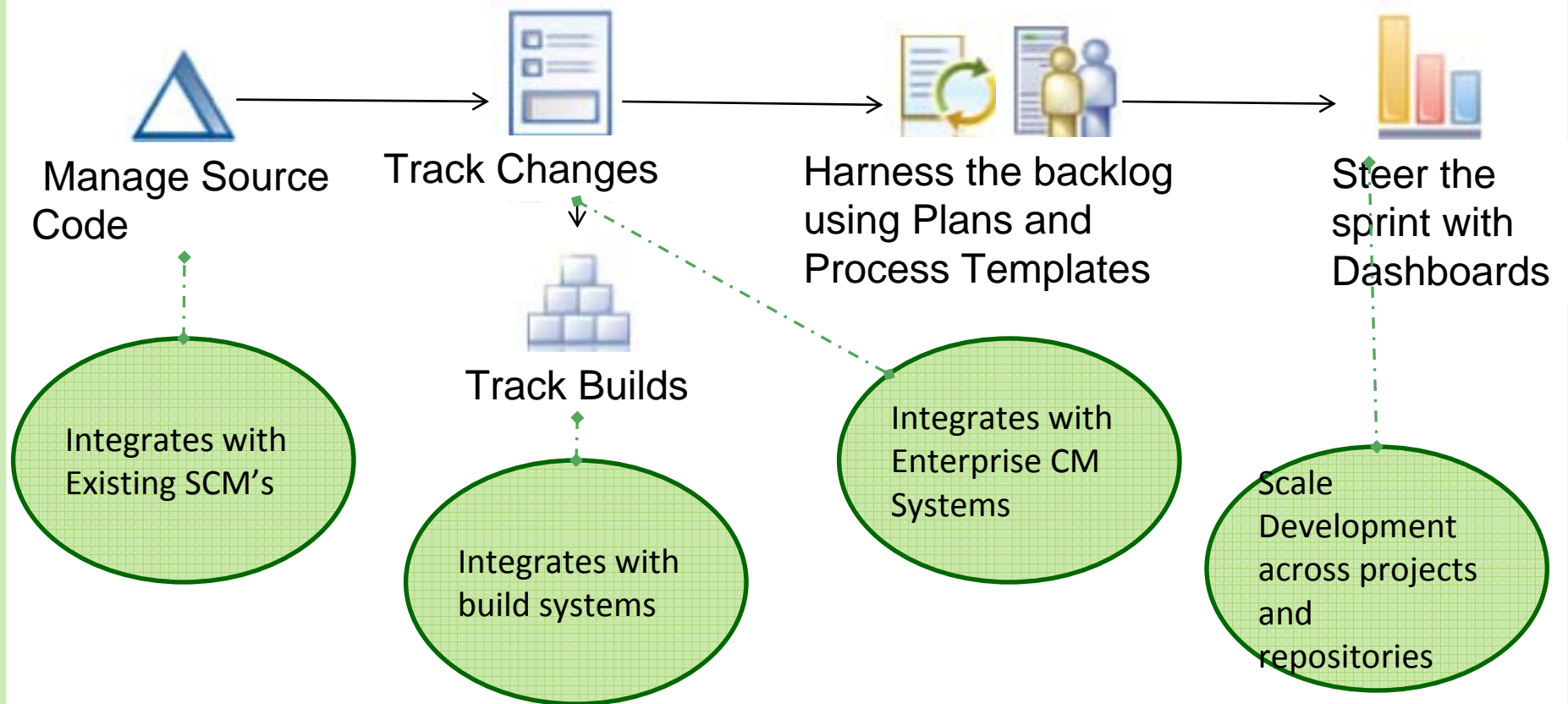
4. We Self-host on what's new



Adopting Agile Development with Rational Team Concert

- Quality of releases improves 12%*
- Project governance improvements of 12%

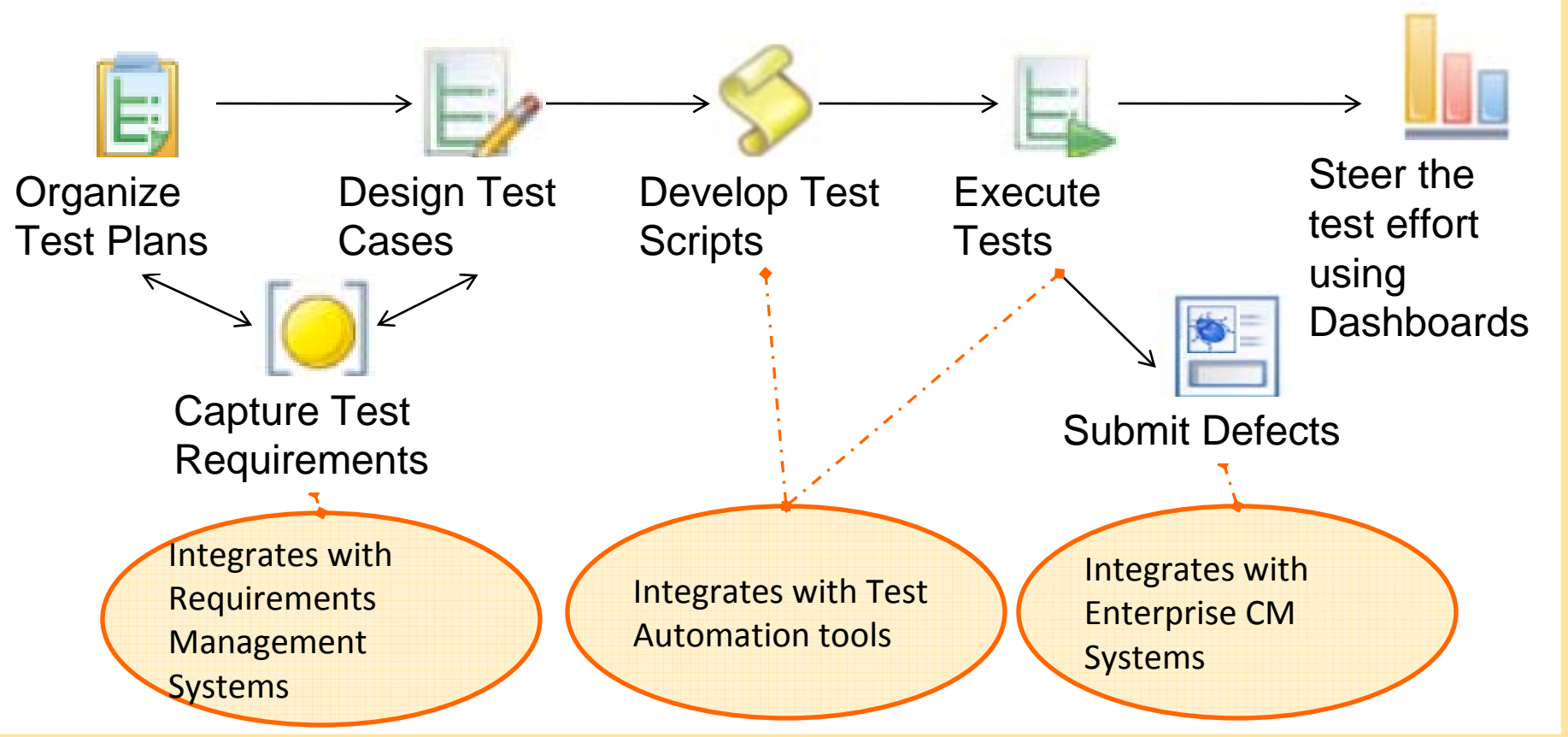
- Team productivity increases of up to 50%
- Team collaboration performance up 25%*



* Based on IBM customer surveys

Manage Quality with Rational Quality Manager

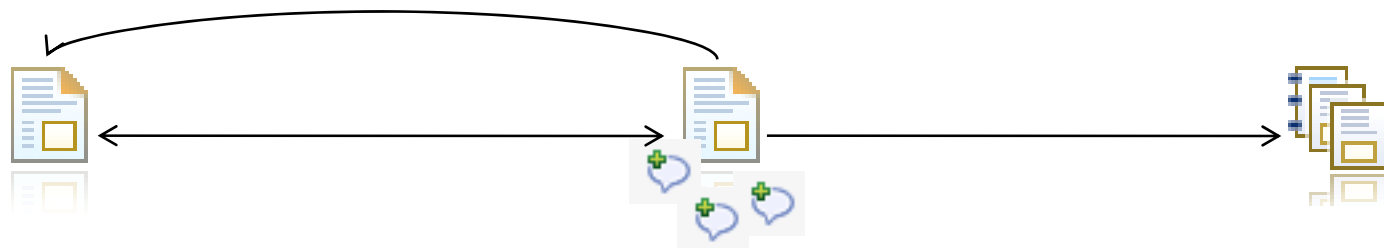
- Average cost of a defect found in production \$241,000/defect
- Save average of 696 hours by reusing scripts*
- Save an average of 1755 hours by preventing and blocking duplicate defects*



Source: GBS Test Practices study, 2005-2008, over 846 projects

Detail User Stories with Rational Requirements Composer

- Increase average on time performance by 161%*
- Reduce time overruns by 87% *
- Improve the percentage of projects that deliver the functionality needed by the business by about 75%*



Elaborate User Stories with Sketches, Storyboards, Diagrams based on stakeholder feedback

Collect Comments, Request Reviews

Organize into Collections

Integrates with OSLC Quality Management Systems

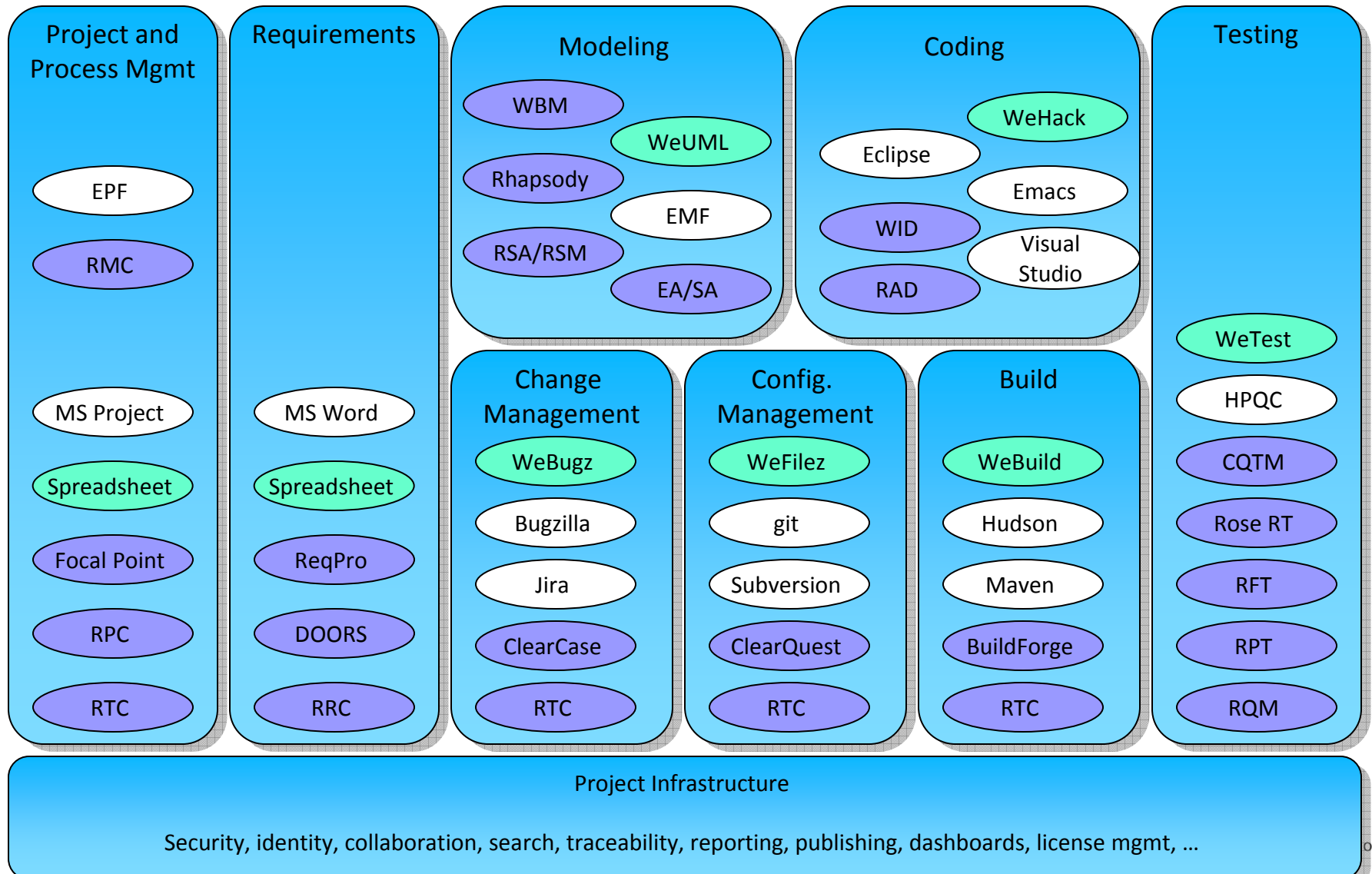
Source: [IAG Consulting, September 2009](#), Business Analysis Benchmark measuring Requirements Maturity levels

IBM tools

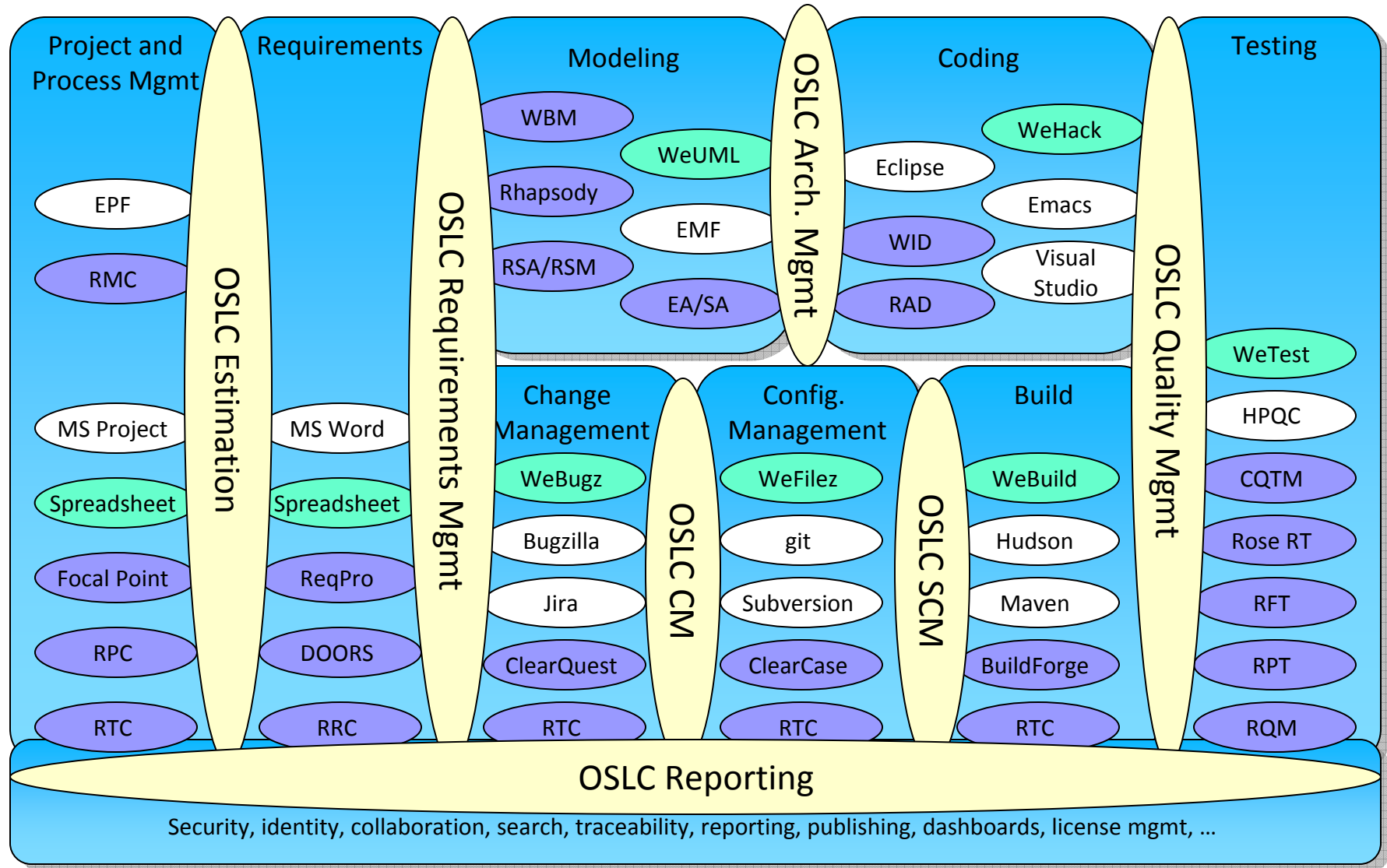
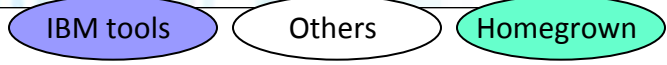
Others

Homegrown

Back in the real world: Customer Tool Landscape

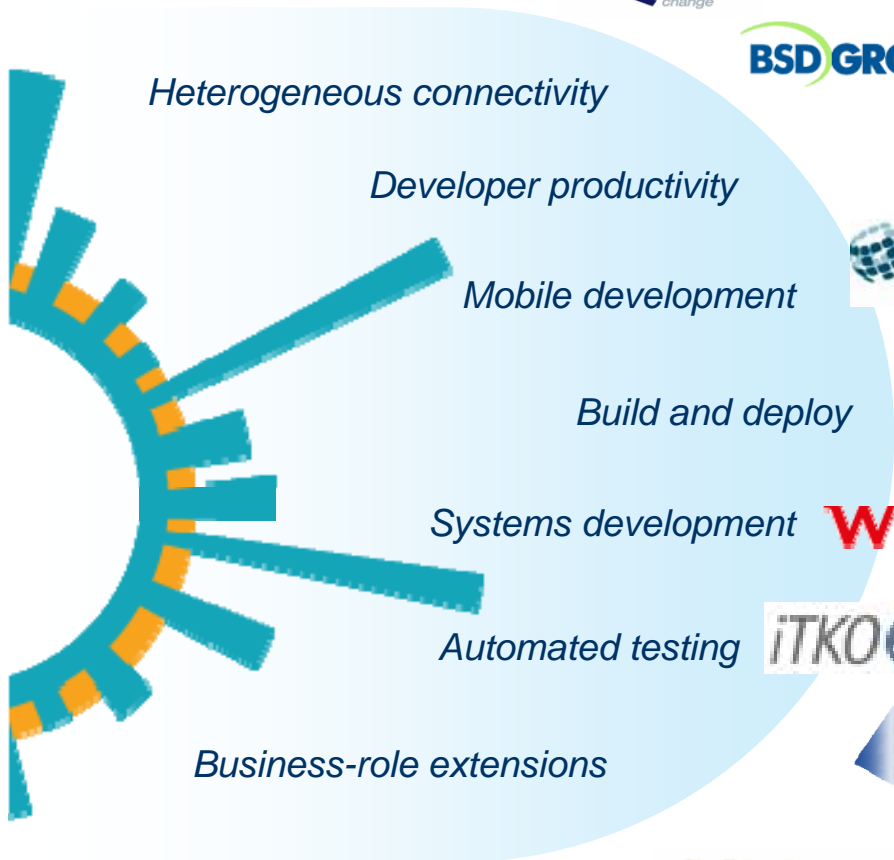


Unlocking Tool Data with OSLC



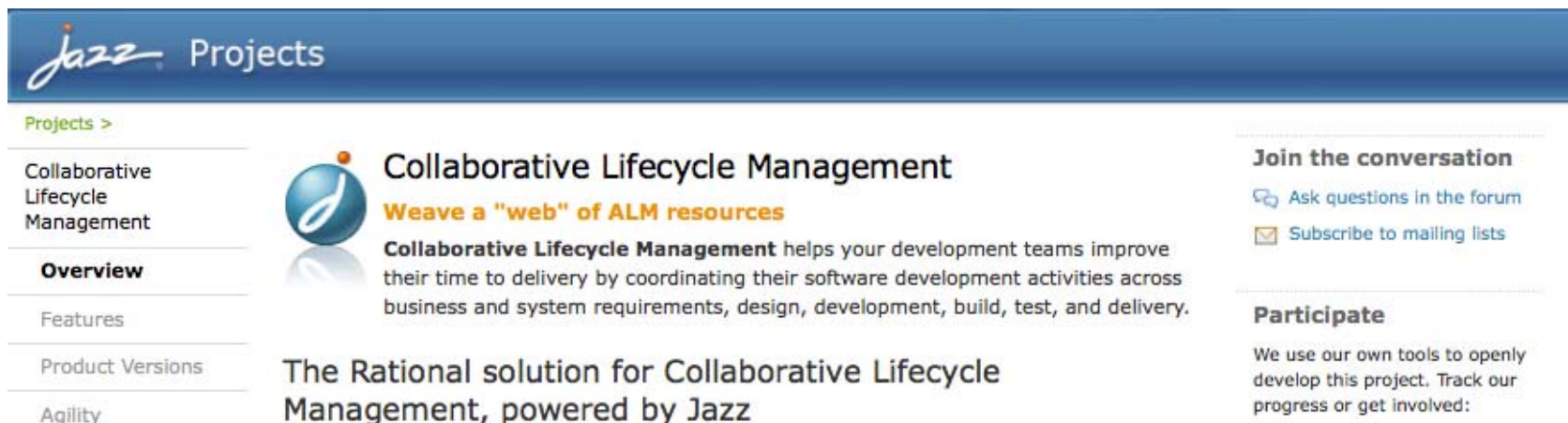
Building on CLM v3: Ecosystem solutions add value

Ready for
IBM | Rational.
software



Getting started with Collaborative Lifecycle Management

- Learn more at jazz.net: <https://jazz.net/projects/clm/>
- Download the software – free downloads on jazz.net
 - One download (any product) contains all software and trial license keys to try the CLM solution (<https://jazz.net/downloads/rational-team-concert/>)
 - About CLM: <https://jazz.net/projects/clm/>
- Try the scenario
 - Jazz.net wiki page: https://jazz.net/wiki/bin/view/Main/MTM_Lifecycle_Welcome
 - Deploy the sample application
 - Configure your environment
 - Try the scenario: https://jazz.net/wiki/bin/view/Main/MTM_Lifecycle_Scenario
 - Online Help – Scenario:



The screenshot shows the Jazz Projects website interface. At the top, there is a blue header with the 'jazz' logo and the word 'Projects'. Below the header, there is a navigation menu with 'Collaborative Lifecycle Management' selected. The main content area features a large blue circular icon with a white 'd' and the text 'Collaborative Lifecycle Management' and 'Weave a "web" of ALM resources'. Below this, a paragraph describes how Collaborative Lifecycle Management helps development teams improve their time to delivery. To the right, there are two sections: 'Join the conversation' with links to 'Ask questions in the forum' and 'Subscribe to mailing lists', and 'Participate' with a paragraph about using their own tools to develop the project.

Learn More

Overviews:

- **Jazz:** jazz.net
- **OSLC:** open-services.net

Helpful Links

- **Powered by Jazz Webcast (June 14):** Agile Development at Scale Powered by Jazz, ALM Imperatives & CLM [Link](#)
- **IBM Rational Collaborative Lifecycle Management Demo: The Jazz Revolution** [Link](#)
- **Ebook:** IBM Case Study CLM Transformation Story [Link](#)
- **ALM Value Estimator:** See how much impact your organization can get using Rational software solutions [Link](#)
- **ALM Buyers Guide:** Establish strategic priorities, objective criteria, & purchasing process [Link](#)
- **ALM Everywhere eKit:** Download the Gartner MarketScope on ALM (rating IBM Rational "strong, positive") and get a wealth of resources for improving team productivity. [Link](#)
- **IBM Rational Jazz Strategy:** Read the report by industry analyst Liz Barnett Report: [Link](#)
- **IBM Rational Collaborative Lifecycle Management:** Information from jazz.net: [Link](#)

Articles

- **Five Imperatives for ALM:** [Link](#)
- **Eliminate wasted time and work with CLM:** [Link](#)
- **The Business Value of Open Collaboration:** [Link](#)



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