





## The Rational 2.0 Product Roadmap

Powered by Jazz - Highlighting Collaborative Application Lifecycle Management

#### Michael O'Rourke

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# Agenda

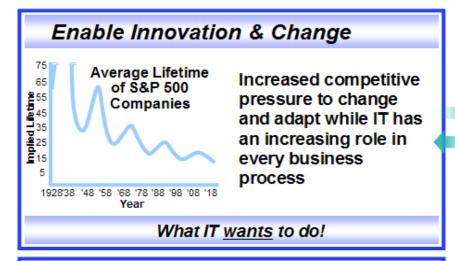
- Today's challenges in software delivery
- How the Rational solution can help overcome these challenges
- A technology review—what is 'under the hood' at Rational





## The business landscape facing IT & business leaders

The need to innovate with less



#### Enact Compliance Mandates

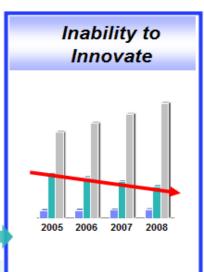


The changing global regulatory and business environment requires security. privacy and ongoing audit capabilities

What IT must do!



Operational costs continue to grow at 10% CAGR ... twice the rate of the IT budget. The cost of failed projects & rework compounds the problem



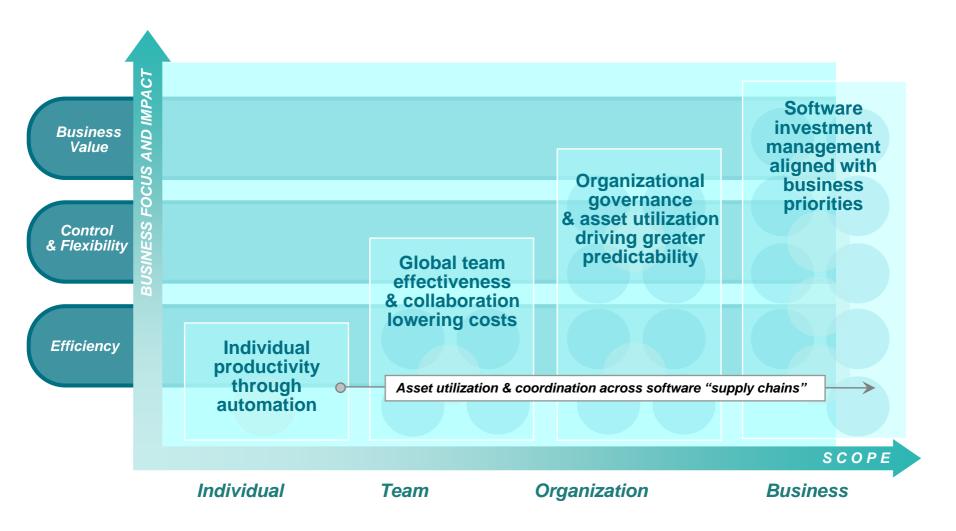
Application development & support budgets are shrinking at nearly 10% CAGR dropping from 50% to about 35% of total IT labor spend

Bottom Line: Enable Business Flexibility...





# A maturing approach to managing effective software delivery







## Measuring the real value of delivering software

Software delivery failure impacts the bottom line

#### Some real examples from the industry:

- Problems with ERP system
  - **\$160 Million** loss, 2004
- Cost of data breach soars
  - **\$256 Million** cost, 2007

Software related downtimes cost the industry nearly **\$300 Billion** annually

"The data breach at a major retailer will cost the company \$100 per lost record, according to database security..."

- InformationWeek, May 2007

- Non-compatible software used at different company factories
  - ▶ \$6.1 Billion profit hit over the next four years, 2006

Only 34% of software projects are deemed successful





#### The defining challenges in effective software delivery



"Only **37%** are satisfied with the speed of software development"



"Only **42%** of users are satisfied with quality"



"50% of outsourced projects are expected to under perform"

# Silos of people, process, and projects

#### **Geographic Barriers**

- Poor communication
- Language, culture, time
- Process gaps resulting in rework
- High degree of friction

#### **Organizational Barriers**

- Lack of meaningful collaboration
- Weak project governance
- Lack of domain expertise
- Poor LOB oversight
- Security of IP when outsourcing

#### **Infrastructure Barriers**

- Incompatible tools / repositories
- Unreliable access artifacts
- Lengthy on-boarding
- Inflexible tooling integration





#### Envisioning a platform that can transform software delivery

An open technology initiative to transform how people work together to deliver greater value and performance from their software investments



- Robust, extensible and scaleable
- Globally distributed, fluid and dynamic
- Community-based and open at Jazz.net

# Collaborate in Context

- Enable team transparency of "who, what, when, why"
- Build team cohesion and presence
- Automate hand-offs so nothing falls through the cracks



# Right-size Governance

- Automate team workflow improving productivity
- Automate data collection eliminating administrative overhead
- Real time reporting and alerts reduces project risk



# Day One Productivity

- Dynamic provisioning of projects and teams
- Real-time iteration planning and workload balancing
- Unify teams with tools choice

Real-time integration of people, process and projects across the lifecycle







#### Customers speak: What's needed to break through

CIO



"We want to allow anyone working on the project from the business or sponsors from the board to be able to see exactly where our project is."

**Project** Manager



"Something that gives both the top down view and the low level view and links back to configuration, bug tracking, cost tracking."

**Development** Lead



"Something that automates my development process with short iteration cycles so we're able to quickly fulfill business requests."

**Tester** 



"Something that doesn't get in the way and doesn't add overhead."

**Development** Manager



"I need to manage distributed teams across three continents—and onboard new team members and projects in a day instead of a month."



"What's needed is a collaborative application lifecycle management approach that gets business and technology to work as a team."





#### Customers speak: What's needed to break through

CIO



Frictionless governance driving business value

Project Manager



Efficiency through transparency

Development Lead



Process enactment and best practices

**Tester** 



Enhanced productivity through automation

Development Manager



Team collaboration enabling global development and delivery



"What's needed is a collaborative application lifecycle management approach that gets business and technology to work as a team."

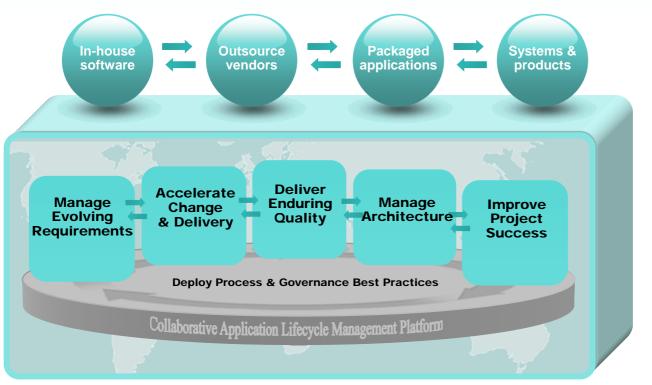




#### IBM Rational Software Delivery Platform



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

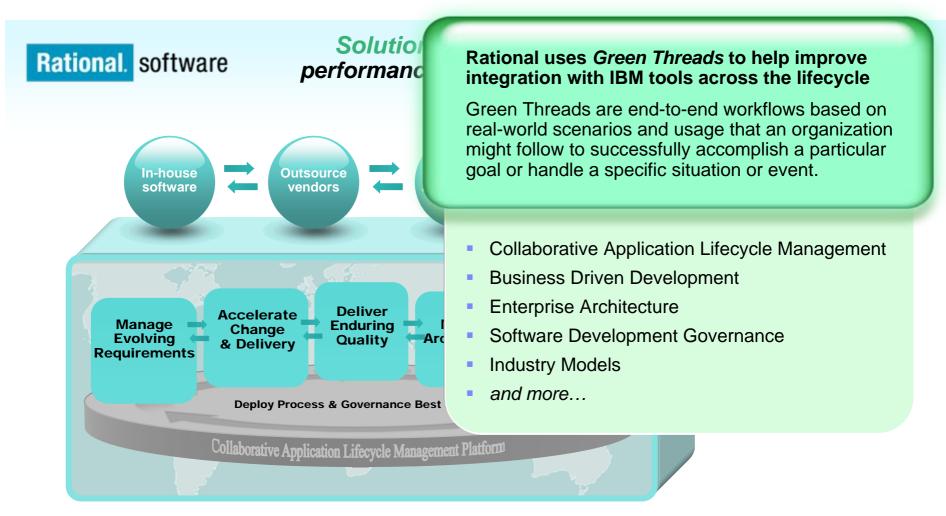








#### IBM Rational Software Delivery Platform

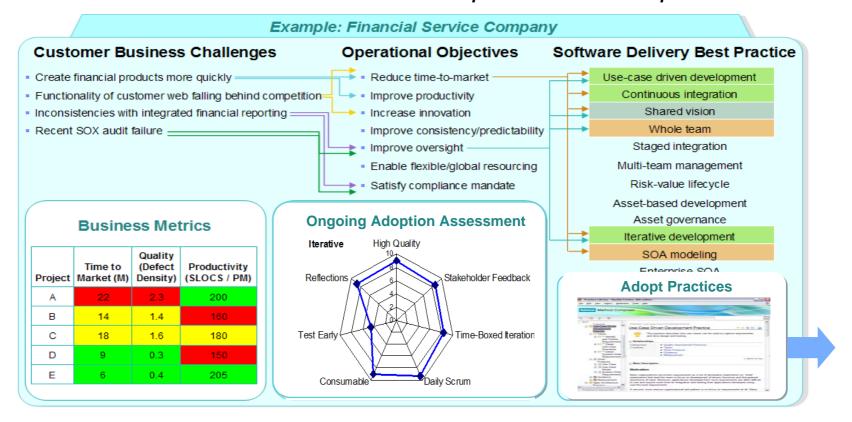






#### Mapping business value to software delivery best practices

Based on over a decade of IBM Rational implementation experience

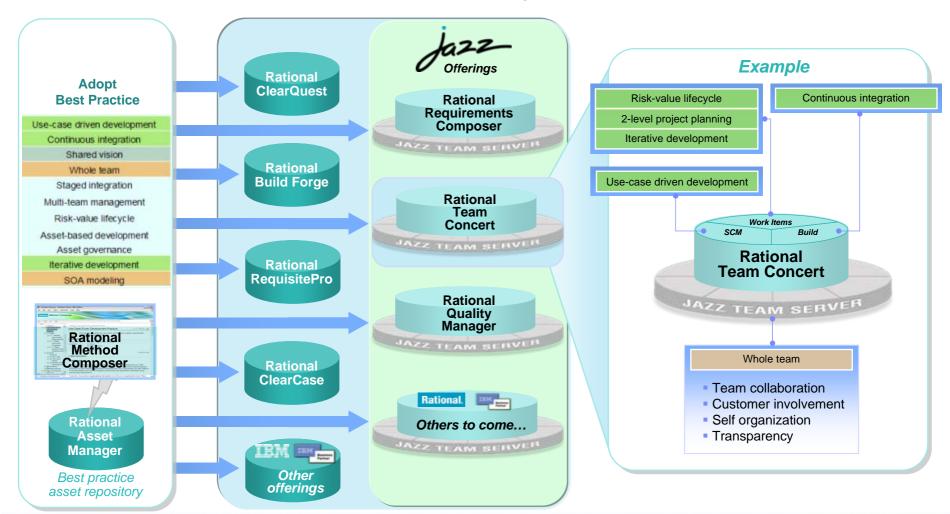


- Rational Measured Capability Framework a systematic approach to best practice adoption
- Rational Health Assessment to benchmark against proven improvement roadmaps
- Rational Self Checks to provide ongoing self assessment





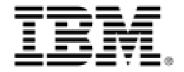
# Best practices provide customizable usage models for the Rational Software Delivery Platform





#### Rational and Telelogic customer value equation

Transforming technical systems development for unique value



# Primary strength: IT Development

- Leading products
- Vertical industry penetration
- Investment power
- Global leadership in Research and Development
- Organizational transformation expertise
- Geographical reach and organizational access



# Primary strength: Systems Development

- Leading products
  - Requirements Management
  - ▶ Enterprise Architecture
  - Systems and embedded software tools
- Industry specific solutions including
  - Aerospace and Defense
  - Automotive
  - Telecomm





#### Announcement summary

An array of new offerings transforming how people work together to achieve greater value and performance from globally distributed investments in software

- Enable real-time, contextual collaboration and visibility across integrated business, software and outsourced project teams
- Deliver higher quality applications and continuously lower risk by proactively adapting to evolving business and quality objectives
- Improve insight into business outcomes by automating, deploying, adapting and measuring proven best practices







ORGANIZATIONAL EFFECTIVENESS



Made possible by the open, community-driven innovation of the Jazz Technology Platform





# Agenda

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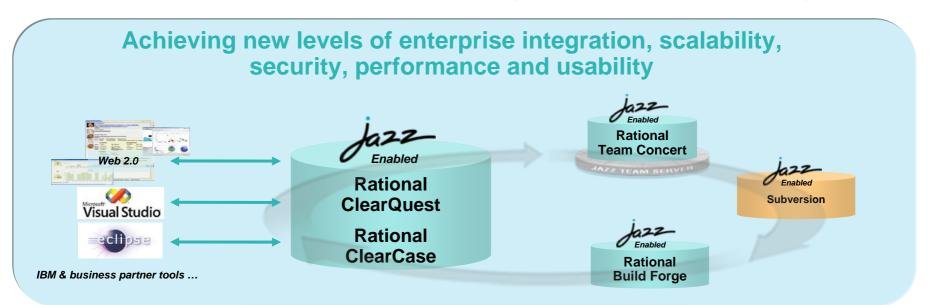
#### Translating words to actions

Fewer meetings and status reports Collaboration Reduction in late scrap and rework Collaborate in Context Reduced attrition of skills and greater leveraging top technical / business talent Easier to stay compliant with standards **Clarity** Right-size Governance Earlier detection and accelerated resolution of defects Improved predictability of projects Project initiation in days not weeks Continuity Day One Productivity Reduction in time to first demonstration. Improved cycle times through automated patterns, services and architectures Viral, but Controlled Development Open and Extensible Community **Architecture** Expanded Community Selectable integration characteristics





## Enhanced enterprise-class change & release management



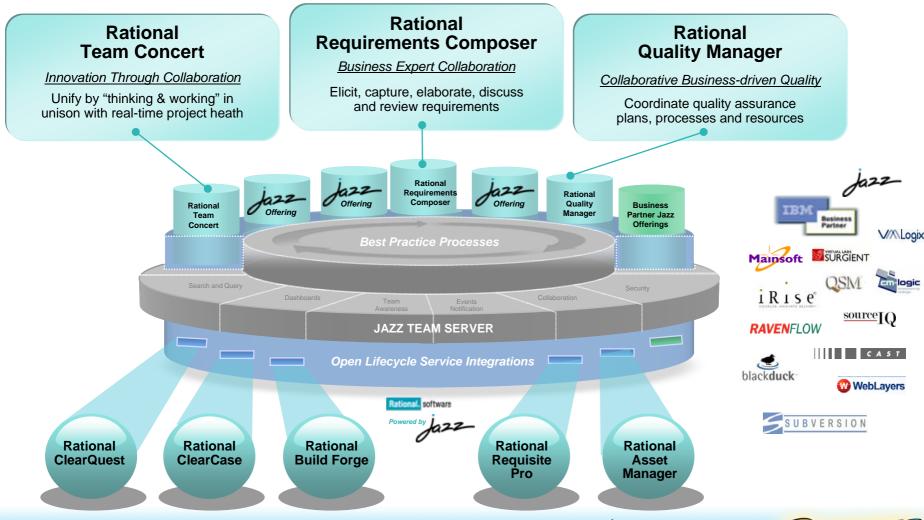
	Rational ClearQuest Move Enhancements	Rational ClearCase Enhancements
Collaborate in Context	<ul> <li>Work item synch with Team Concert (Jazz)</li> <li>New browser based client built on web 2.0</li> </ul>	<ul> <li>Seamless shared project views and filters</li> <li>Deploy faster with iteration planning with Team Concert (Jazz)</li> </ul>
Right-size Governance	<ul> <li>Ensure compliance with fine grained security and access control lists</li> <li>Support remote teams with enterprise reports</li> </ul>	<ul> <li>24/7 Global monitoring &amp; server uptime view</li> <li>React sooner with customizable event settings</li> </ul>
Day One Productivity	<ul> <li>Out-of-the-box ALM Schema – jump start complete lifecycle support</li> </ul>	<ul> <li>Agile process support</li> <li>High scalability – Handle 500 users</li> </ul>





#### And there is more in 2008!

Phase 2 – Expanding Collaborative Application Lifecycle Management







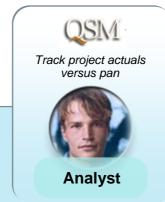
## Extend team collaboration to a broad range of software professionals





















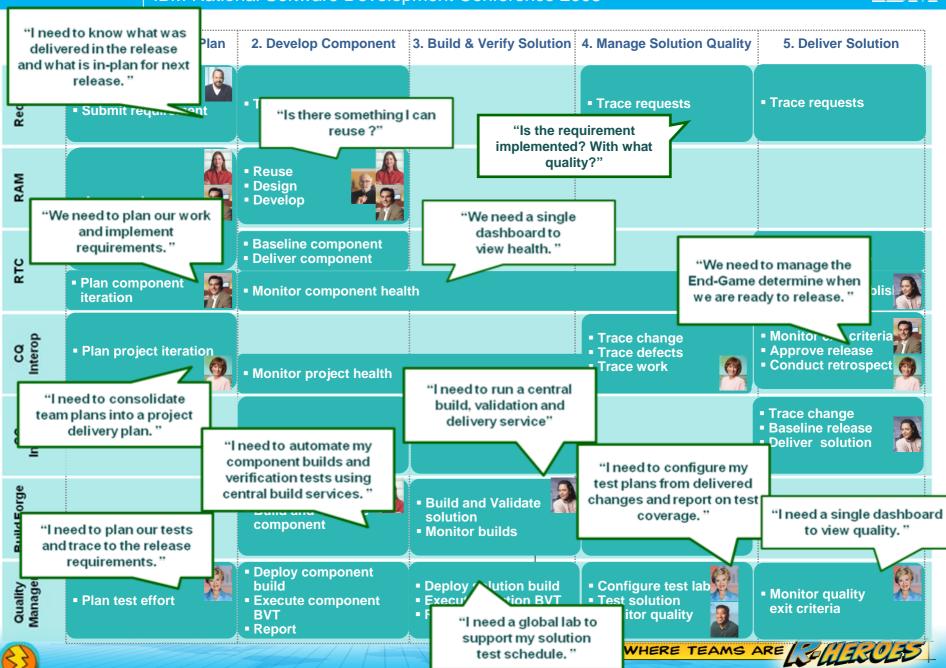


- Software Architect
- **Application Developer**
- Lotus MashUps

- **Functional Tester**
- **Business Developer**
- etc..

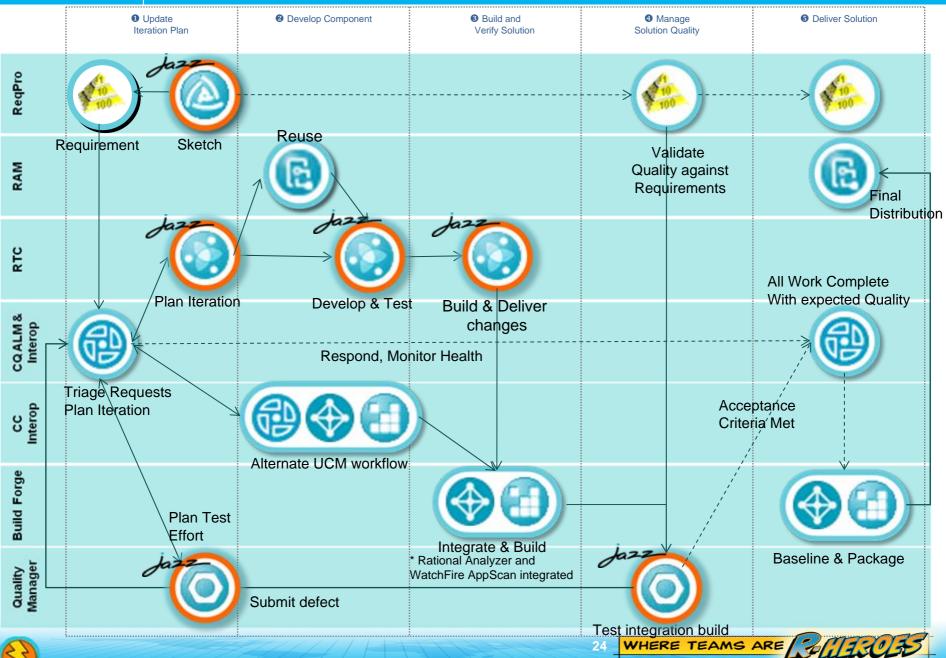






#### IBM Rational Software Development Conference 2008

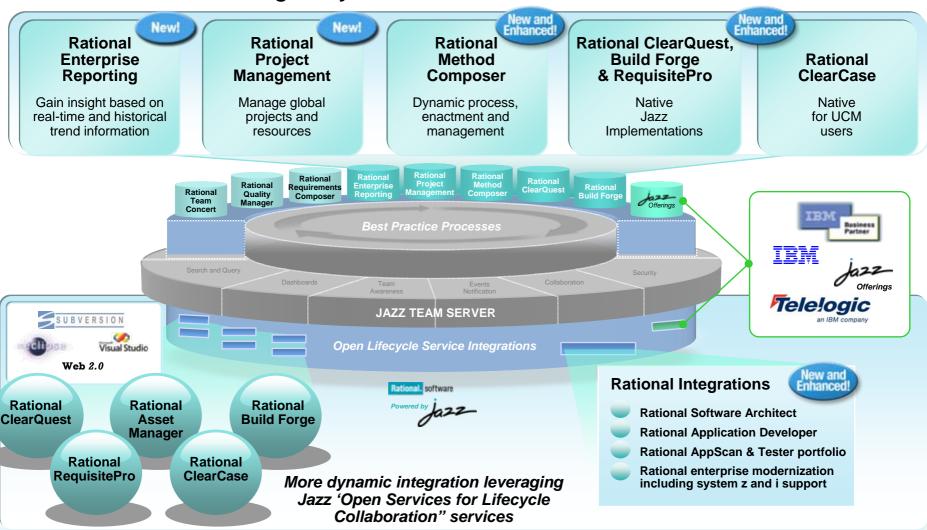






#### The road ahead

#### Phase 3 – Jazz offerings beyond 2008







# Agenda

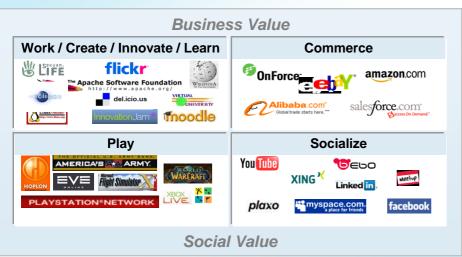
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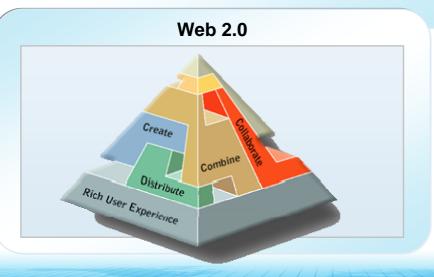


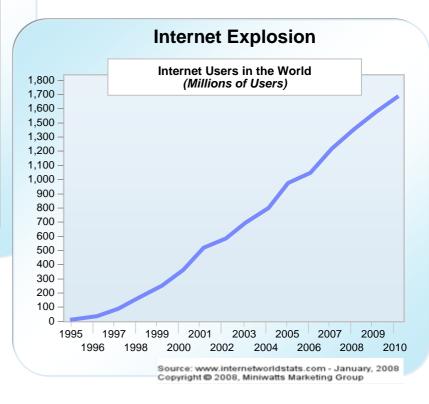


## Industry change and challenges

#### Collaboration











## Using the Internet for Rational tools

- Amazingly scalable
- Integrates information on a massive scale
- Infinitely extensible
- Collaboration on unprecedented scale
- World-wide information visibility



all the data on the Internet?

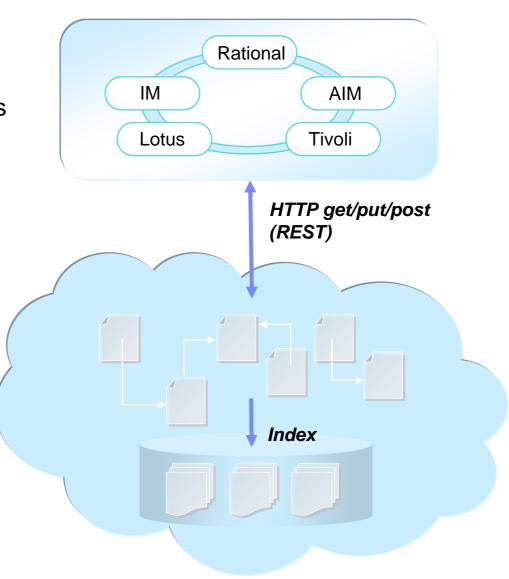
The internet is creating the challenges – maybe the Internet can solve them too!





#### What does this mean?

- Data specified independently of tools
- All data are resources with URLs
- Tools (multiple) access data through HTTP/APP
- References are embedded URLs
- Resources have representations
- Unprecedented extensibility
- Search and query through "structured indexes", independent

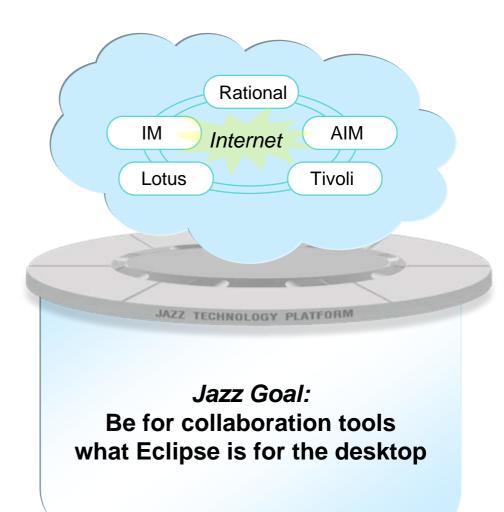






## A common platform

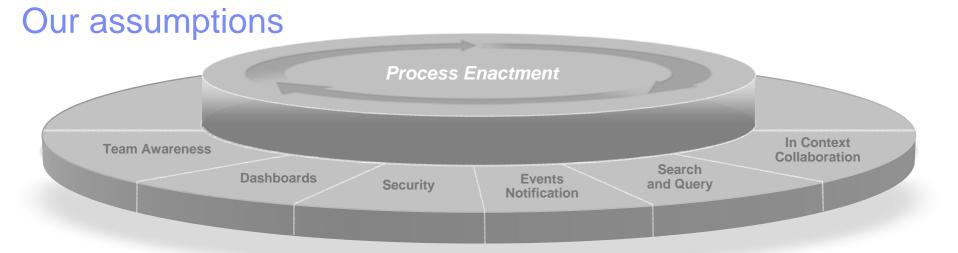
- Reduces total cost of ownership
  - Administration, backup, proxy servers, integrations
- Increase levels of function in all products:
  - Search and query
  - Social-network awareness
  - Instant messaging
  - Blogs, Wikis
  - Review, feedback, annotation, comment
- Increases level of 'itilities'
  - Security
  - Scalability
  - Availability (disconnected)





#### Hasn't this been done before?

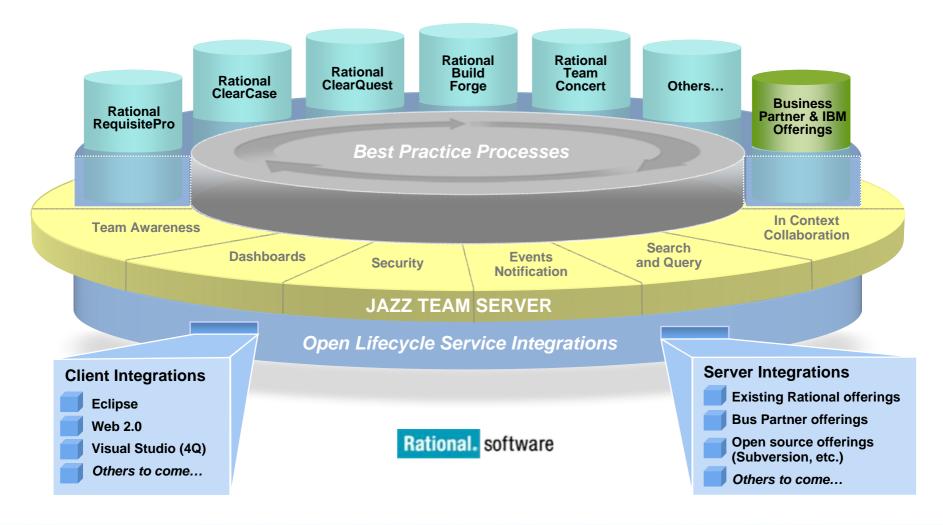
- Many previous attempts at more integrated team software engineering environments
  - Assume integration around a database/repository
  - Design a data model for software engineering for the repository
  - Provide some sort of framework for tools to integrate around the repository







## Future offerings







## Announcing Open Services for Lifecycle Collaboration

An initiative aimed at simplifying collaboration across the software delivery lifecycle

An open invitation to collaborate on a common integration architecture for software delivery



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#### Barriers to sharing resources and assets across the software lifecycle

- Multiple vendors, open source projects, and in-house tools
- Private vocabularies, formats and stores

# Open Services for Lifecycle Collaboration

- A proposed architecture for sharing lifecycle resources
  - Described on Jazz.net through illustrative resource definitions, service implementations, and use cases
- Inspired by Internet architecture
  - Loosely coupled integration with "just enough" standardization
  - Common resource formats and services
- Innovation from the Jazz technology platform







#### Collaborate with us

- Design Partner Program
- Lab Advocacy Program
- Board of Advisors
- Voice of the Customer Events
- Rational Software Development Conference
- jazz.net
- developerWorks
- Beta Programs
- RFE Community
- Rational User Groups
- Customer Acceleration Program



Learn more at www.ibm.com/software/rational/collaborate

























# THANK YOU

#### Learn more at:

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- IBM Rational Software Delivery Platform
- Process and portfolio management
- Change and release management
- Quality management
- Architecture management

- Rational trial downloads
- Leading Innovation Web site
- developerWorks Rational
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# Backup







#### **Abstract**

 Collaborative Application Lifecycle Management enables enterprises of all sizes to effectively develop and deliver software solutions leveraging globally distributed teams and tools from a variety of vendors. Come learn about Rational's Software Delivery Platform (SDP), both current and future.
 We will introduce the SDP, discuss integrations for collaborative lifecycle management, and explore innovations in the industry-leading product suite based on the Jazz technology platform.





## What business challenges are you facing?



