Taking the Pulse of Software Delivery

Dr. Daniel Sabbah General Manager, IBM Rational Software

IBM Rational Software Development Conference 2008

WHERE TEAMS ARE









Today's Discussion

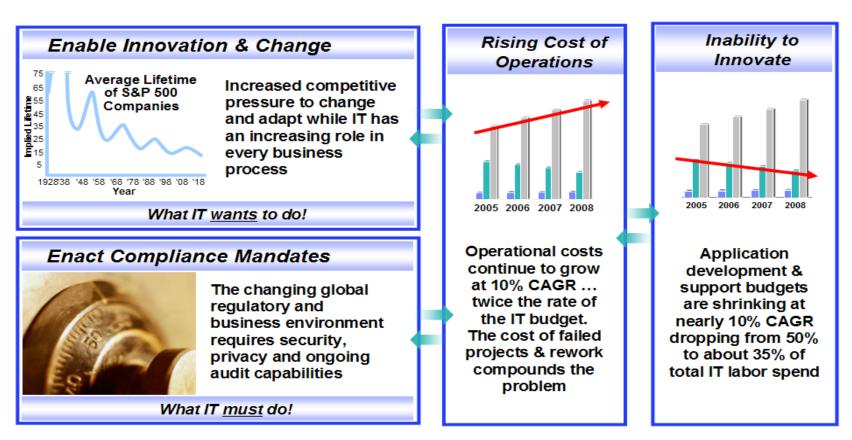
- Realities of Software Delivery
 - Business and Organizational Trends
 - Impact for Software and Systems
- Leading by Example
 - A Rational State-of-the-State





The Business Landscape Facing Business Leaders

The need to innovate with less



Bottom Line: Enable Business Flexibility...



Increasing Accountability of Software

- Ultimately, on time and under budget means nothing without the right business outcomes
- Outcomes are measured in dollars, in customer retention, in market share
- The ideal organization ensures software delivery is directly tied to business need

You're all working hard, but are you working on the right stuff?

Only 34%
of software projects
are deemed successful

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



Increasing Accountability of Software: One Example What is the cost of a defect?



During the coding phase



During the build phase



During the QA/Testing phase



Once released as a product

As an industry, we are responsible for ensuring that security and compliance measures are **built in** not **bolted on** after the software code has been already written.



2008 and Beyond

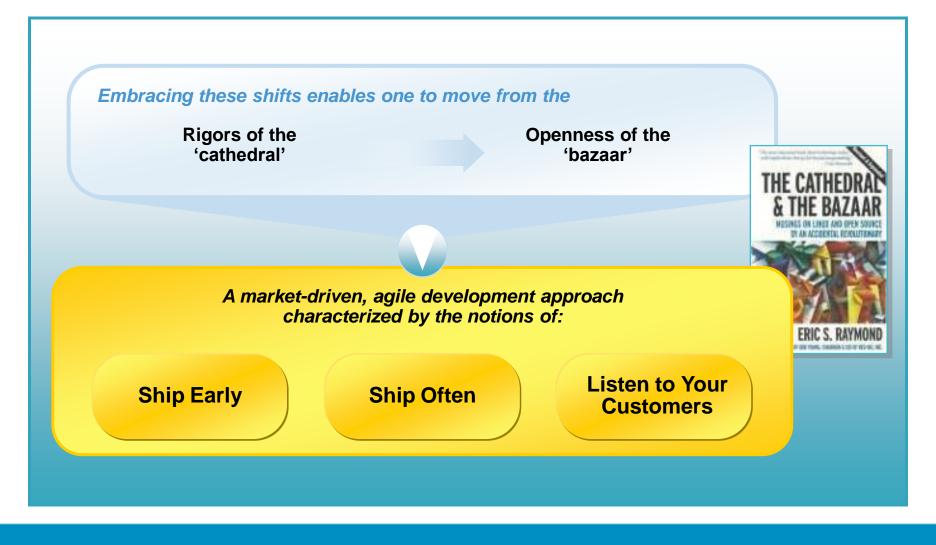
Latest shifts in software delivery

- Increasingly diverse, cross organizational global project teams
 - Popularity of agile development and social networking models

- Interest in replicating the proven models of community governed software delivery models
- Embrace of automation to enable rapid tuning of business models

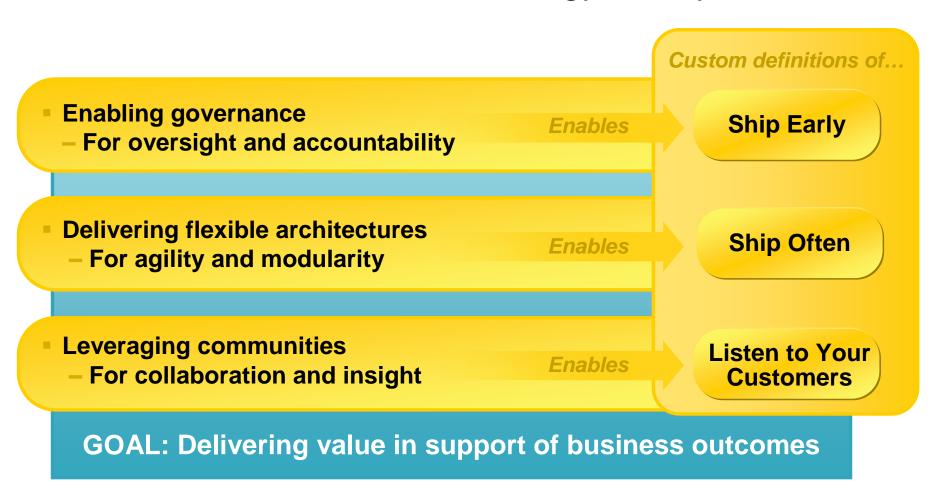


From Shifts to Opportunity





Fundamentals of Software Strategy Today





Why Governance?





Why Flexible Architectures?





Why Leverage Communities?





The Business Value Connection

ENABLE GOVERNANCE

DELIVER

FLEXIBLE

ARCHITECTURES

Respecting compliance/security concerns without undermining utility



Modernizing assets & people's skills to leverage existing systems & business knowledge



Anticipating innovation through openness & service orientation



LEVERAGE COMMUNITIES

Getting the most out of collaboration in distributed environments



Ensuring every individual's work matters, every day, across the hall or across the globe



Today's Discussion

- Realities of Software Delivery
 - Business and Organizational Trends
 - Impact for Software and Systems
- Leading by Example
 - A Rational State-of-the-State

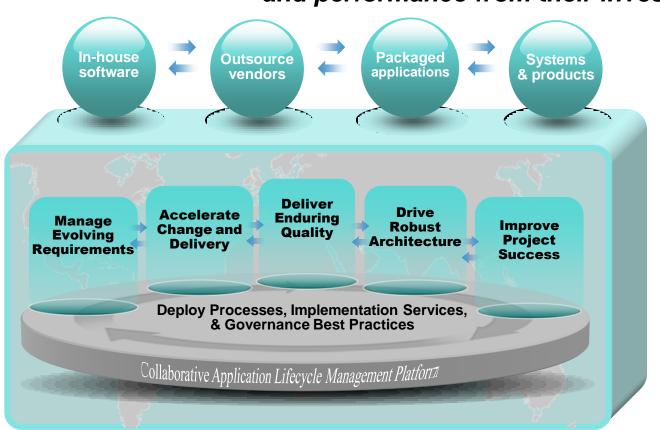




IBM Rational Software Evolution

Rational. software Solutions

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

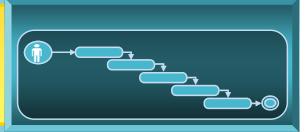


- EnterpriseModernizationand Transformation
- Organizational Governance
- Skill Development and Community
- Implementation Services

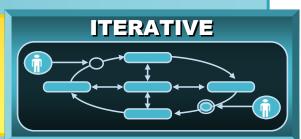


Selecting the Right Approach

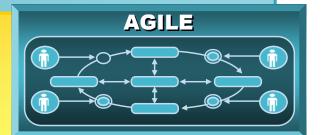
- Waterfall developmentWhen stability is the primary driver
 - Example: Rational ClearCase kernel



- Iterative development
 When stability and change are equal players
 - Example: Rational Software Architect,
 Rational Business Developer



- Agile development
 When change is the primary driver
 - Example: Rational Team Concert, Rational Quality
 Manager, Rational Requirements Composer

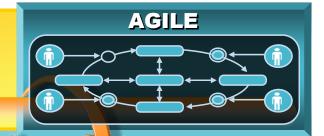




Example: Rational Quality Manager



Customer Interaction / Feedback





- Managed beta program since Q1
- Open beta in June
- Refreshed beta in August

Ship Often

DELIVER
FLEXIBLE
ARCHITECTURES

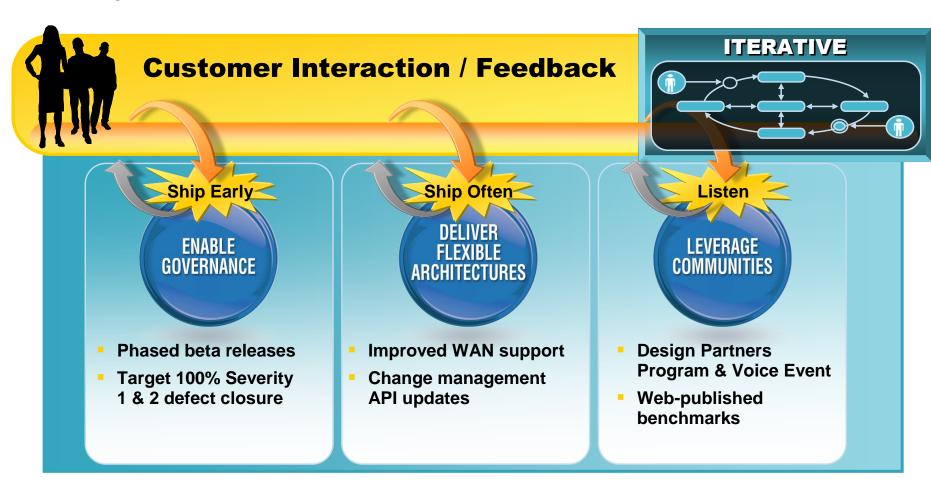
- Delivered international software testing process
- Open APIs for integrations and extensibility

LEVERAGE COMMUNITIES

- Weekly design partner program reviews
- Voice event reviews



Example: Rational ClearCase enhancements





It All Starts With a Conversation

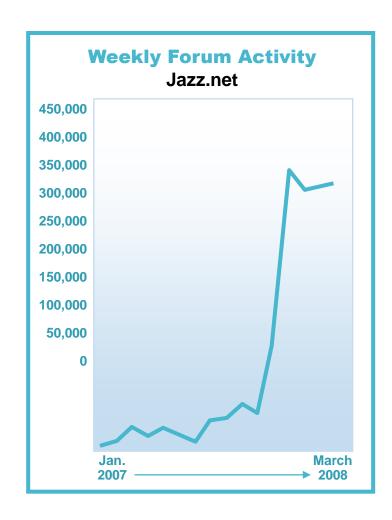
	Premium Support	Online Communities	Beta Programs			Board of Advisors	Advocate Program		Social Networks
Year Established	1997				2005				2008
Production Issues	•	•		•			•	•	•
Futures	•	•	•	•	•	•	•		•
Cross-Rational Product Groups	•	•		•		•	•	0	•
Business Goals & Objectives	•				•	•	•	•	
Industry Issues & Trends						•		•	
Competitive Issues						•		•	
Governance & Compliance						•		•	



Founding Jazz.NET

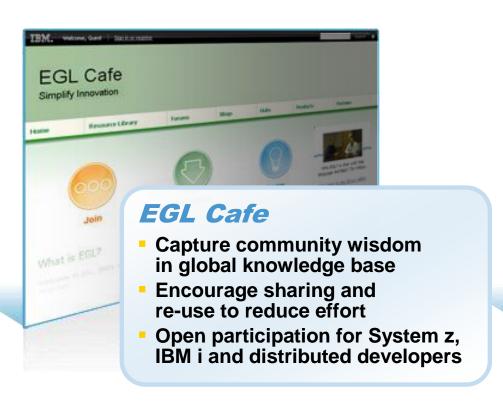
To Embrace our Community

- 17 customer pilots across industries
 - e.g. Finance, Consumer Electronics,
 Automotive, Telecommunications
- 15 business partner integrations
 - e.g. Black Duck, CM Logic, Source IQ, CAST, Mainsoft, WebLayers
- 10 Jazz research projects
 - e.g. Bluegrass, Emergent Teams
- Widespread internal RTC adoption
 - 28 Rational projects with 800 users
 - Over 100 IBM teams





Building Interactive Portals To Embrace Our Community



IBM SWG Consumability **Excellence Award Winner!** Rational Software RFE Community Rational RFE Community Search, watch, comment on. submit for evaluation **Open sharing of future** product plans across user base All strategic products participating



Use of Metrics for Self-improvement

To Embrace Governance

In comparison to 2007

- 9% reduction in Problem
 Mgmt Record (PMR) arrivals
- 21% decrease in reported defect arrivals across all products
- 9 more Beta Programs

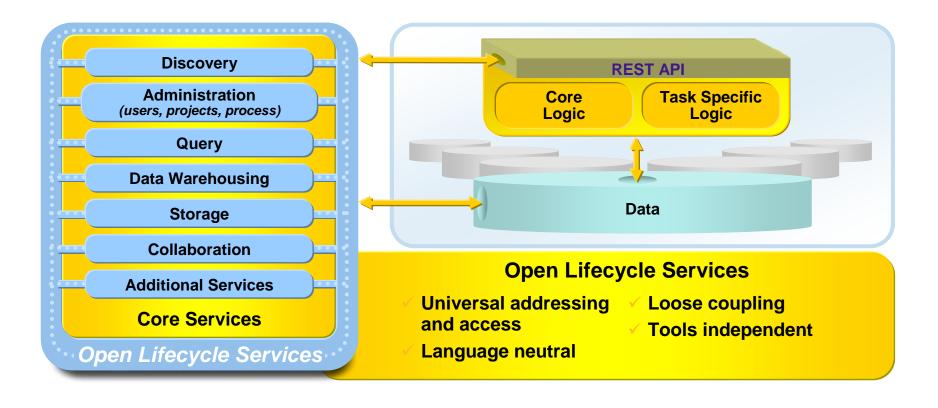
- 56% increase in number Lab Advocacy Program clients
- 75% increase in number of Design Partner clients
- 3% increase in Customer Satisfaction Index for Tech Support



Using The Internet As Inspiration

To Embrace Flexible Architectures

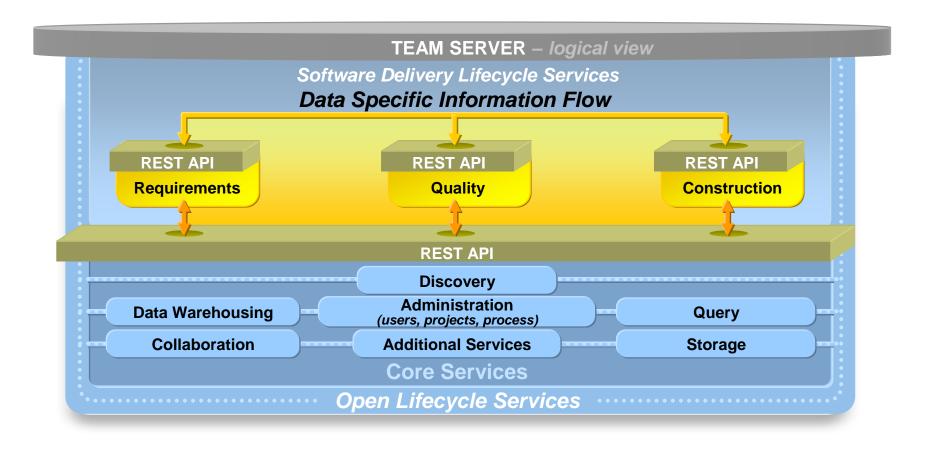






Software Delivery Lifecycle

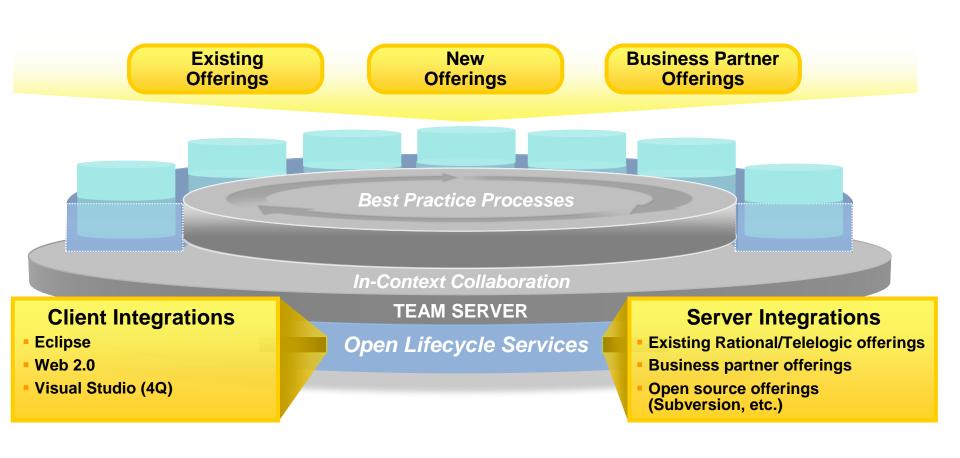
Via Web-based Architecture





Rational's Vision

Open, Web-centric, Services-based





From Vision to Reality

2007

Announced our new Rational strategy

- Enabling Governance
- Adopting Flexible Architectures
- Leveraging Communities

2008

Strategy in action: Helping guide you from the 'cathedral' to the 'bazaar'

- Ship Early
- Ship Often
- Listen to your customers

See it here at RSDC 2008



















THANK YOU

Learn more at:

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

- Rational trial downloads
- Leading Innovation Web site
- <u>developerWorks Rational</u>
- IBM Rational TV
- IBM Rational Business Partners

© Copyright IBM Corporation 2008. All rights reserved. The information contained in these materials is provided for informational purposes only, and is provided AS IS without warranty of any kind, express or implied. IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, these materials. Nothing contained in these materials is intended to, nor shall have the effect of, creating any warranties or representations from IBM or its suppliers or licensors, or altering the terms and conditions of the applicable license agreement governing the use of IBM software. References in these materials to IBM products, programs, or services do not imply that they will be available in all countries in which IBM operates. Product release dates and/or capabilities referenced in these materials may change at any time at IBM's sole discretion based on market opportunities or other factors, and are not intended to be a commitment to future product or feature availability in any way. IBM, the IBM logo, the on-demand business logo, Rational, the Rational logo, and other IBM products and services are trademarks of the International Business Machines Corporation, in the United States, other countries or both. Other company, product, or service names may be trademarks or service marks of others.