

### Real Insights. Real Results. Software Development and Delivery in Competitive Times

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# Today's Discussion: Real Results

- **Rational Strategy Review**
- Our Approach to Real Results
- Time to Get Real







# The evolution of Rational strategy



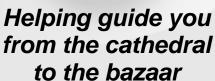
Accelerating software development evolution Strategy Announced Deliver value efficiently

2007

and effectively in distributed organizations

- Empowerment
- Modularity
- Communities

- Enabling governance
- Adopting flexible architectures
- Leveraging communities



2008

Strategy

In Action

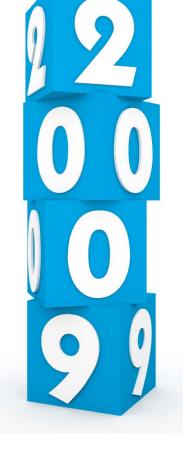
- Ship early
- Ship often
- Listen to your customers



## IBM

# Rational *strategy in action* over the past year

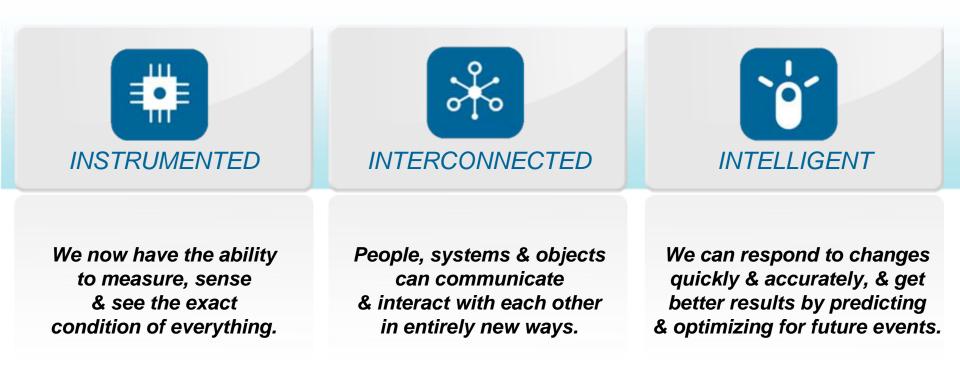
- CONTINUED DELIVERING on the promise and vision of a flexible Jazz architecture
  - Shipping early, shipping often with a transparent product development on Jazz.net
  - Delivering 8 Jazz-built products and 18 Jazz-enabled products
- CONTINUED EXPANDING Rational communities to listen to our customers and partners
  - Launched Open Services for Lifecycle Collaboration initiative
- CONTINUED INVESTING to evolve current portfolio
  - 73 product releases in 2008
  - Acquisition of Ounce Labs for Static Security testing
- EXTENDED REACH into systems engineering by integrating Telelogic





### Rational strategy in a broader context:

The world needs to get a whole lot smarter







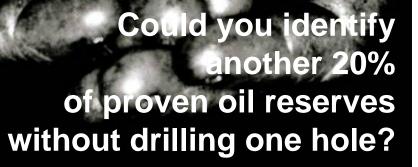
# What could you do if all objects were *intelligent...*

# ...and connected?

6

# What could you do with unlimited computing power...for pennies?

Could you predict the path of a storm down to the square kilometer?







# Success in building a smarter planet is highly dependent on our ability to manage effective software and systems delivery

## What could you do with a million-person product developmen

#### or with a billionperson workforce?

Let's build a smarter planet





# Challenges to effective software delivery remain and expand

Individual	Team	Organizational	Business
Challenges	Challenges	Challenges	Challenges
<ul> <li>Lack of standards impacts ability to collaborate,</li> </ul>	<ul> <li>Geographically dispersed teams</li> </ul>	<ul> <li>Greater need for market experimentation</li> </ul>	<ul> <li>More granular service functionality and composite</li> </ul>
<ul> <li>automate and report</li> <li>Frequent asset</li></ul>	<ul> <li>Effective cross-</li></ul>	<ul> <li>Blind adherence</li></ul>	<ul> <li>applications</li> <li>Growing number of assets including custom, outsourced and packaged</li> </ul>
updates and	organizational	to process insensitive	
complex	visibility and	to potential business	
dependencies	synchronization	trade-offs <li>Need for agility@scale</li>	





# Economic conditions add significant pressure to the reality of software and systems delivery

A new approach to IT delivery models and sourcing options is required that allows IT organizations to be more responsive to the needs of the business.

> Barbara Gomolski, Gartner October, 2008

Companies successfully addressing the challenges [of delivering product innovation from software] are driving higher profitability.

Michelle Boucher, Aberdeen Group March, 2009 Transformation and innovation will lead recovery. When we come out the other side of this crisis, companies will look different – technology will have been a catalyst in those changes.

> George Colony, Forrester Research, October, 2008





# Rational strategy can bring focus in uncertain times

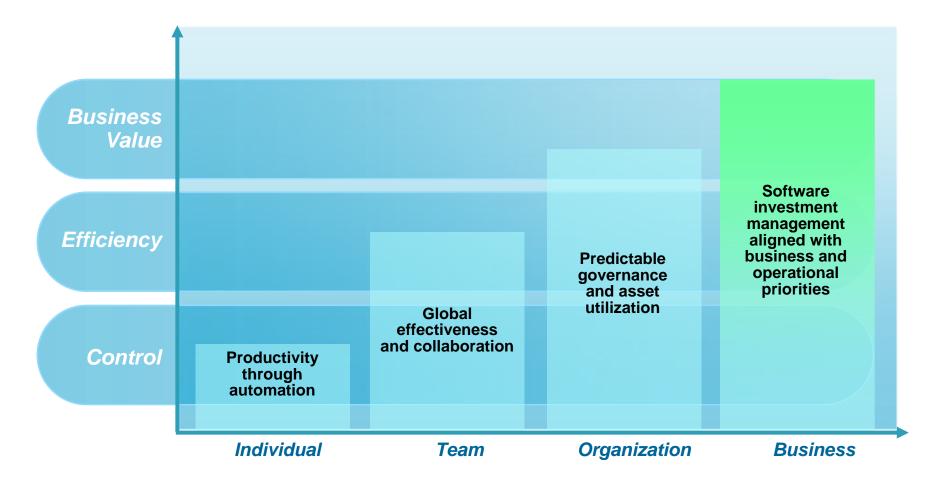
- Provides measured, short-term Return on Investment
- Enables longer-term management of Return on Assets
- Delivers a platform and processes to make those returns come to life
- Encourages and informs, rather than dictates
- Supports incremental improvement, leading to faster decision making





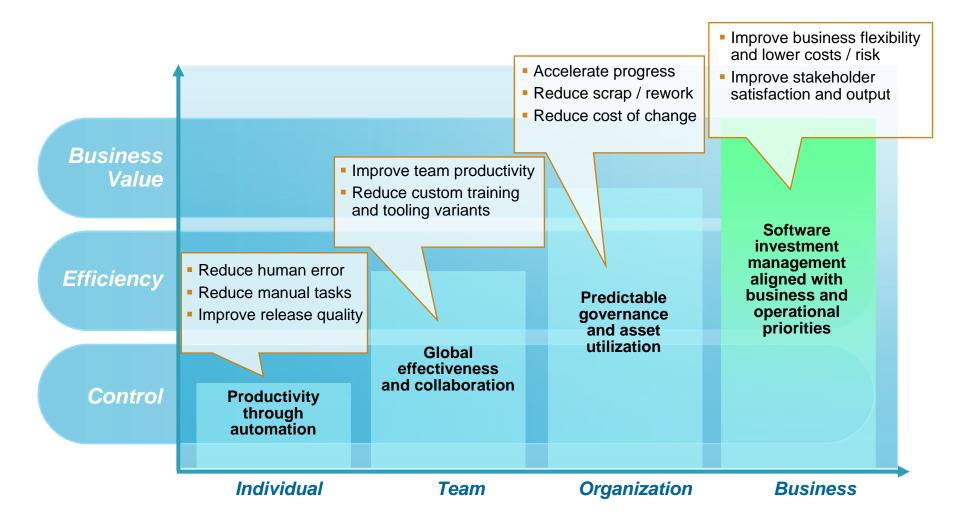


# A maturing approach to software and systems delivery based on *measurement*





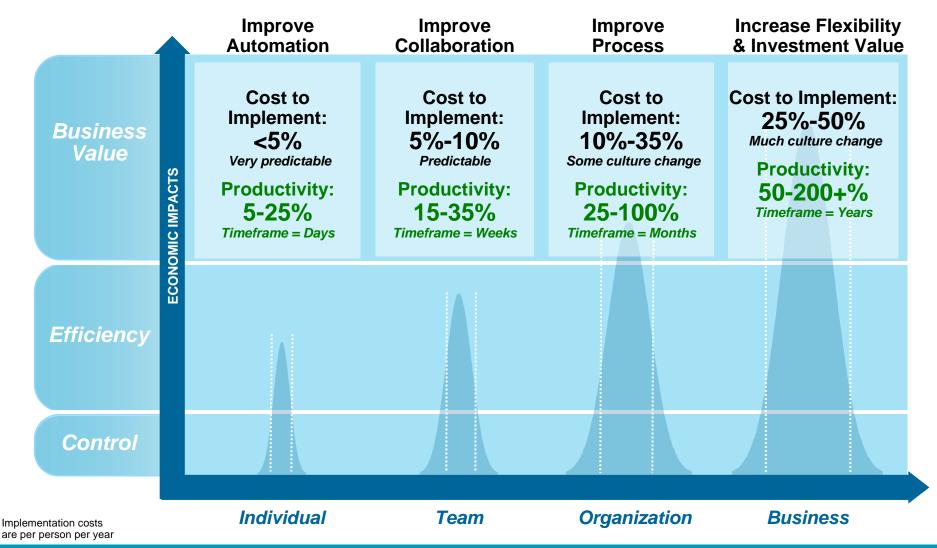
# Realized by continuous improvement on business objectives







## Invest to manage risks and optimize measured outcomes







Pragmatic steps we took to mature our own software delivery



Established business and operational objectives



Prioritized practices and defined implementation roadmap



Accelerated practice adoption with Rational products and programs – "Tools, Not Rules"

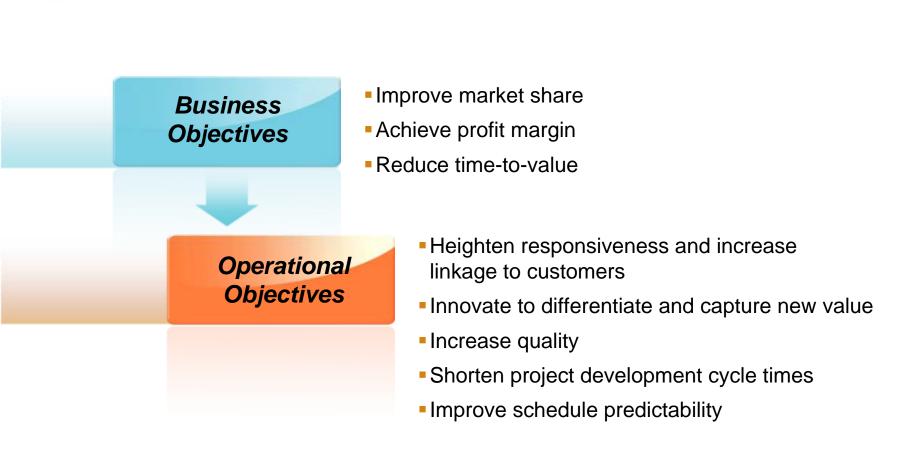


Reported, analyzed, and regularly acted on our results





# Established business and operational objectives







# Prioritized practices and defined implementation roadmap

#### Requirements Management

- Shared Vision
- Use-Case-Driven Development
- Requirements Management
- Business Process Sketching

#### Governance and Compliance

- Risk-Value Lifecycle
- Practice Authoring and Tailoring
- Performance Measurement

#### Change and Release Management

- Team Change Management
- Formal Change Management

### **Agile Core**

- Iterative Development
- Two-Level Project Planning
- Whole Team
- Continuous Integration
- Test-Driven Development

Initial Rational Focus Area

#### **Quality Management**

- Concurrent Testing
- Test Management
- Independent Testing
- Performance Testing
- Application Vulnerability Assessment

#### Architecture Management

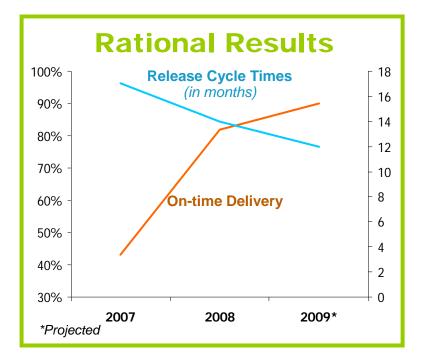
- Evolutionary Architecture
- Evolutionary Design
- Component Based Software Architecture
- Design Driven Implementation



# Accelerated practice adoption with Rational products

Leveraged Agile Core practices to improve cycle times and predictability

- Required adoption of agility@scale
  - 2,000+ developers, testers, managers
  - Varying team sizes
  - Geographically distributed locales
  - Diverse development contexts
    - from mature products to Web 2.0 apps
- Embraced Rational Team Concert
  - Since May of 2008:
    - Growth of 423% to 148 projects
    - Growth of 410% to 2,810 users







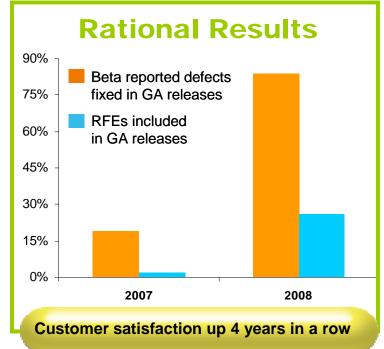


# Accelerated practice adoption with Rational programs

Leveraged Requirements and Change & Release Management practices

Increased customer involvement, building on "Whole Team" agile practice

- Design Partner Program growth of 352% since 2006
- Transparent, iterative development on Jazz.net
  - 5 products available today
  - Over 17,000 participants in Jazz forums
- VoiCE sessions expanded to India, China, Japan, UK and Germany
- Lab Advocacy program has grown 567% since 2005
- Beta programs doubled in 2008 to 35
  - 12x growth in open beta downloads







# Reported, analyzed, and regularly acted on our results

Aggregated data from multiple sources to provide new insight







### Align business and operational measures

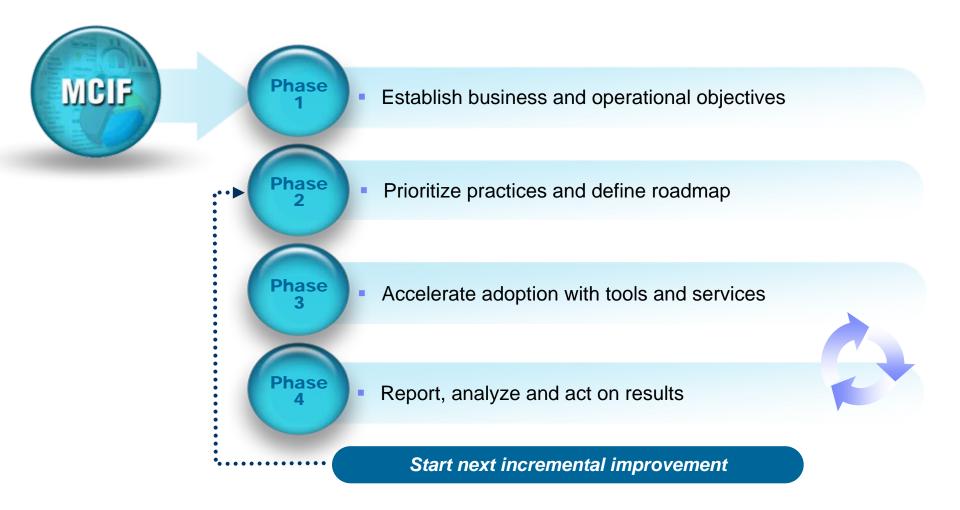
#### Drill down into real-time data from disparate source repositories

Segment	Product	Revenue Year-To- Date (M)	Revenue % of Plan	Pipeline (M)	Release	eGA Plan	eGA Outlook	eGA Plan- Outlook	Headcount (PY)	Project Health	Overall Profit Margin	Overall Market Share
Application Lifecycle Management (ALM)	Jazz Foundation 75.7 V	96% 🔻	87.9 🔻	Jazz Foundation 1.0	May 28, 2009	Jun 12, 2009	15 days	52 🔶	71% ◊			
			1000-carring a		RTL XYZ	Mar 31, 2009	Jul 7, 2009	98 days	118 🛡	50% 🔻	•	
	RTC 115.2 ▲		99% 🔶	109.6 🔶	RTC 2.0	Jun 15, 2009	Jun 19, 2009	4 days	12 🗇	<b>90%</b> ◊		
		115.2 🔺			RTC 2.0.0.1	Sep 22, 2009	Sep 30, 2009	8 days	72 🔻	86% 🧇		
Governance Solution	Focal Point for Project Management	29.1 🔌	93% <b>©</b>	84.2	FPjM 1.0	Oct 15, 2009	Nov 17, 2009	33 days	60 🗇	74%	•	
	Rational Insight	108.7 🔻	98% 🔻	162.7 🔻	Insight 1.0	May 26, 2009	May 26, 2009	0 days	40 🔶	83% 🔻		•
Quality Management (QM) Solution	RQM	35.2 🔺	112% 🔺	79.6	RQM 2.0	Jun 15, 2009	Jul 31, 2009	46 days	56 🔶	89% 🔺		
	RRC	28.1 🔶	83% 🔺	45.1 🔻	RRC 2.0	Nov 4, 2009	Nov 24, 2009	20 days	32 🔺	85% ◊		





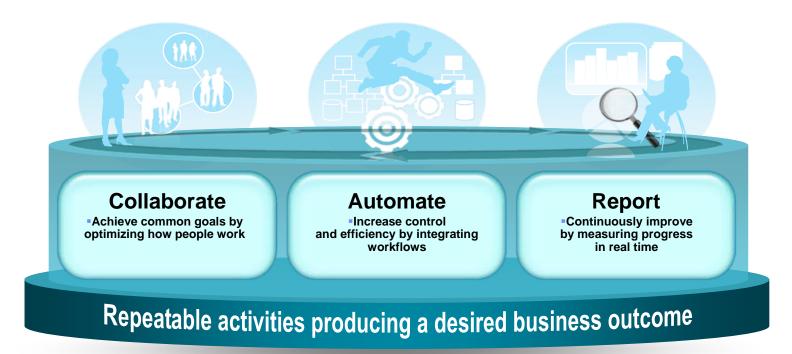
### Leveraging our experiences to help you...







# Rational experience demonstrates incremental improvement in software delivery







### Time to Get Real – Starting Today



Align teams to business and operational objectives

GET REAL INSIGHTS

Gain insights to incrementally improve software and systems delivery

GET REAL RESULTS

Measure, monitor and steer to desired results







