

# Real Insights. Real Results.

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## **Today's Discussion**

- Rational Strategy Review
- Our Approach to Real Results
- Time to Get Real
- Innovation Today







## The evolution of Rational strategy



Accelerating software development evolution Deliver value efficiently and effectively in distributed organizations

2007

**Strategy** 

Announced

Empowerment

- Modularity
- Communities

Enabling governance

- Adopting flexible architectures
- Leveraging communities

from the cathedral to the bazaar

2008

Strategy

In Action

Helping guide you

- Ship early
- Ship often
- Listen to your customers





## Rational strategy in action over the past year

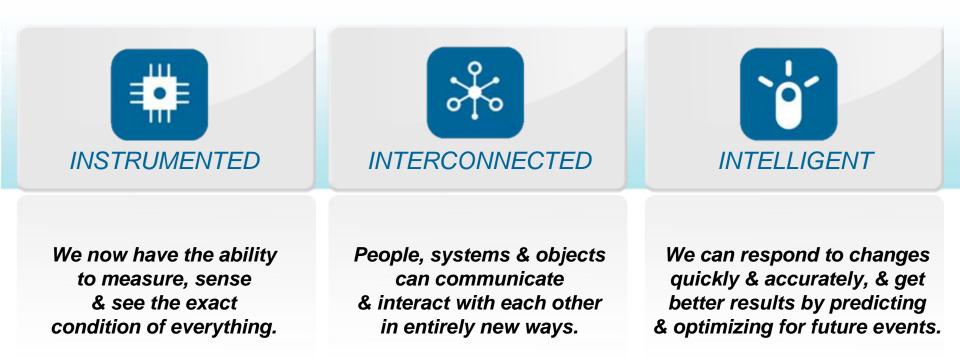
- CONTINUED DELIVERING on the promise and vision of a flexible Jazz architecture
  - Shipping early, shipping often with a transparent product development on Jazz.net
  - Delivering 8 Jazz-built products and 18 Jazz-enabled products
- CONTINUED EXPANDING Rational communities to listen to our customers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







#### Rational strategy in a broader context: The world needs to get a whole lot smarter







## A smarter planet will require a significant investment in software and systems

- Imagine the amount of software necessary to:
  - Leverage a wealth of information to make more intelligent choices
  - Take action on energy, the environment and sustainability to deliver a greener world
  - Manage an interconnected infrastructure with billions of devices
- Success in building a smarter planet is highly dependent on our ability to manage effective software and systems delivery



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





## 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

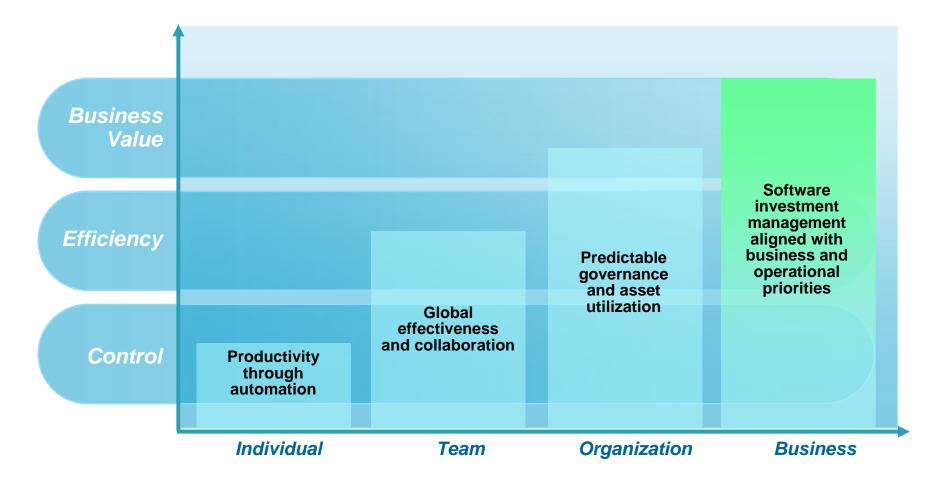
- Provides measured, short-term *Return on Investment*
- Enables longer-term management of Return on Assets
- Delivers a platform and processes to make those returns come to life
- Encourages and informs, rather than dictates
- Supports incremental improvement, leading to faster decision making







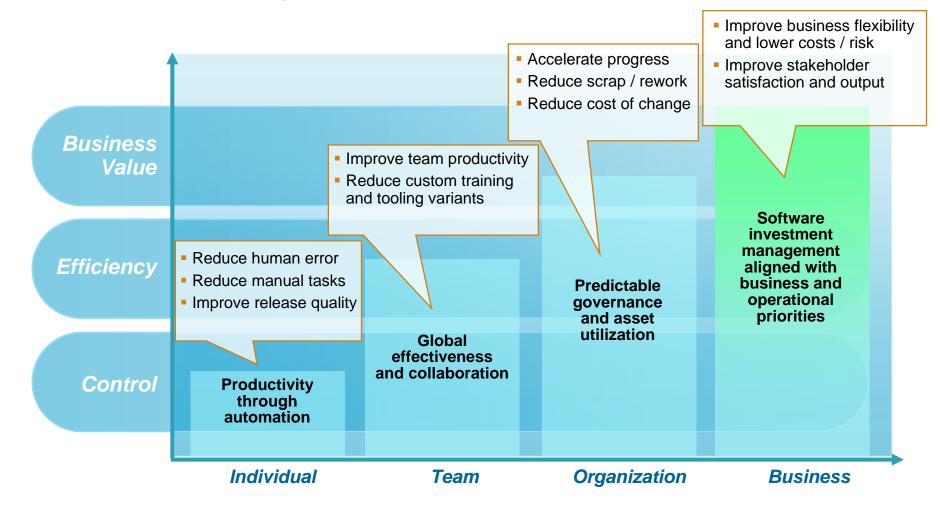
# A maturing approach to software and systems delivery based on *measurement*







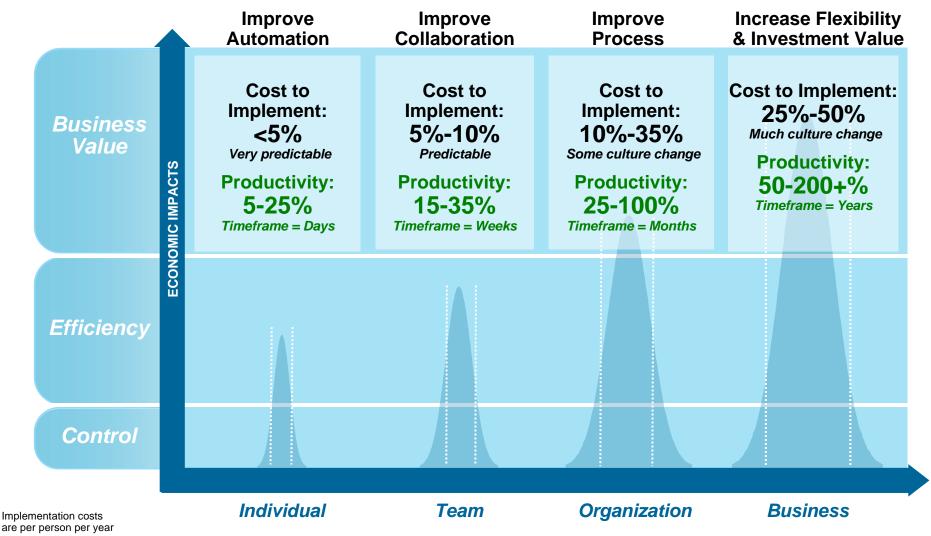
### Realized by continuous improvement on *business* objectives







# 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"

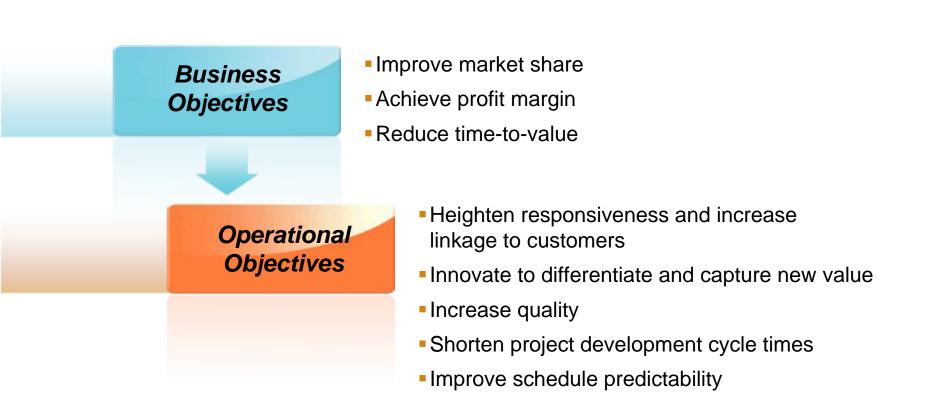


Reported, analyzed, and regularly acted on our results





## 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

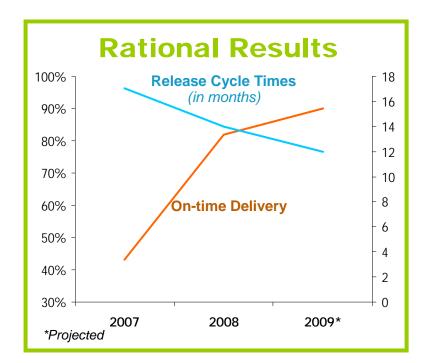
#### Architecture Management

- 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
  - In past year, RTC:
    - Projects grew by 291%
    - Number of users grew by 321%



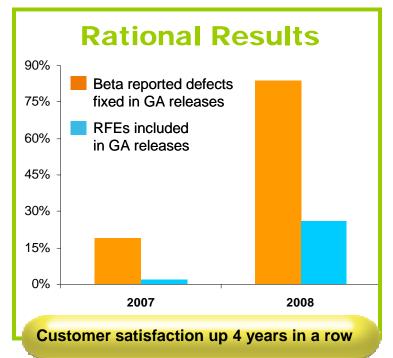




#### Accelerated practice adoption with Rational programs Leveraged Requirements and Change & Release Management practices

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

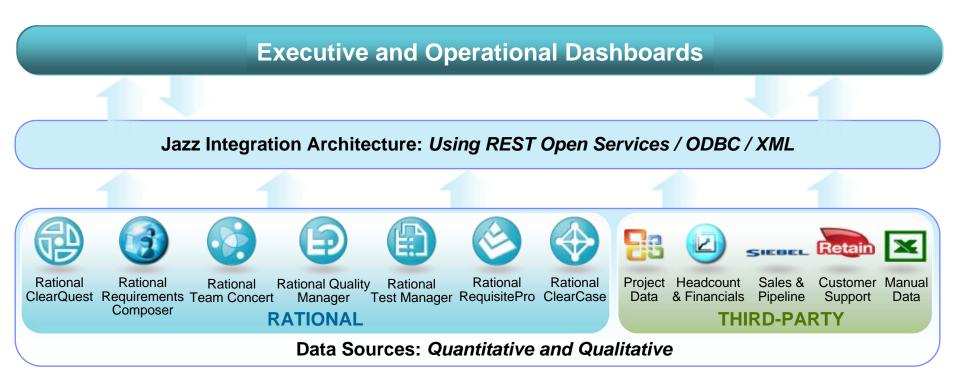
- Design Partner Program growth of 352% since 2006
- Transparent, iterative development on Jazz.net
  - 5 products available today
  - Over 17,000 participants in Jazz forums
- VoiCE sessions expanded to India and China
- Lab Advocacy program has grown 567% since 2005
- Beta programs doubled in 2008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



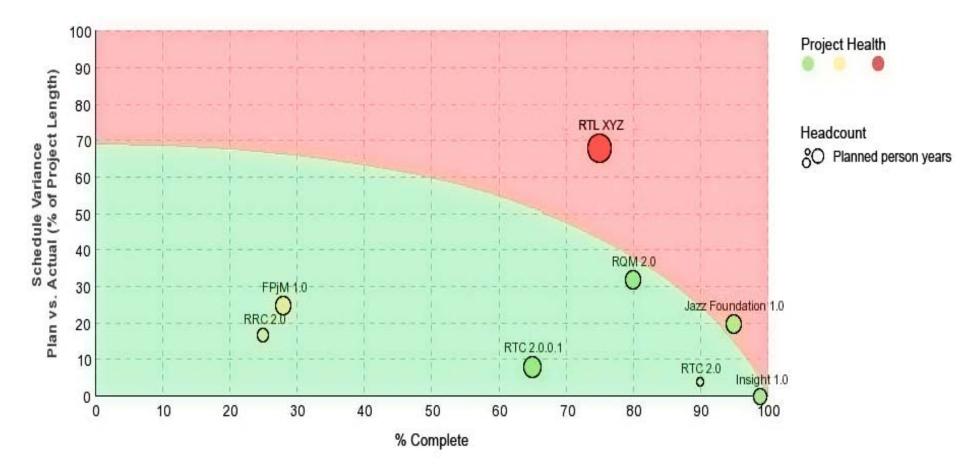


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#### Obtain a single view of project health across Rational Quickly identify delivery issues that need immediate attention





#### 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)	Foundation	75.7 🔻	96% 🔻	87.9 🔻	Jazz Foundation 1.0	May 28, 2009	Jun 12, 2009	15 days	52 🔶	71% ◊	•	
					RTL XYZ	Mar 31, 2009	Jul 7, 2009	98 days	118 🔻	50% 🔻		
			99% 🔶	109.6 🧇	RTC 2.0	Jun 15, 2009	Jun 19, 2009	4 days	12 🛇	90% ◊		
		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 🔌	<mark>93%</mark>	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% 🔺	0	
	RRC	28.1 🔶	83%	45.1 🔻	RRC 2.0	Nov 4, 2009	Nov 24, 2009	20 days	32 🔺	85% ◊	•	





# 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 ...

Started next incremental improvement





#### Rational's next incremental improvement Focus on Quality and Requirements Management practices

- Extend transparent development on Jazz.net
   Further improve products and enhance the way we engage with you
- Further engage community in the design of products
  - Leverage Rational Requirements Composer capabilities such as storyboards and domains of expertise
- Build on bootstrapping of Rational Quality Manager
  - Incorporated key feedback from SVT organization to drive version 1.0.1 and 2.0 capabilities
  - Expand use of RQM 2.0 to all Rational test teams
  - Publish and share RQM tests

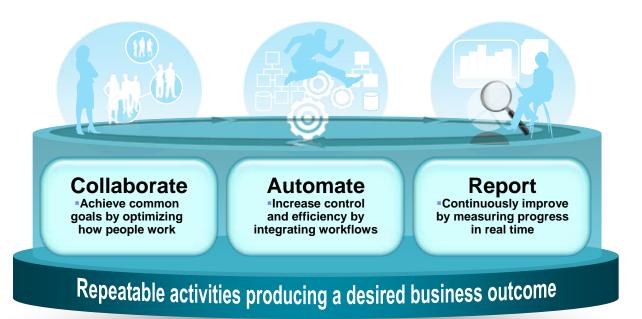






# Rational experience demonstrates incremental improvement in software delivery

- Experience the same results
- We can help
  - We offer an incremental improvement framework (MCIF)
  - We deliver a real-time collaborative platform (Jazz)







### 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





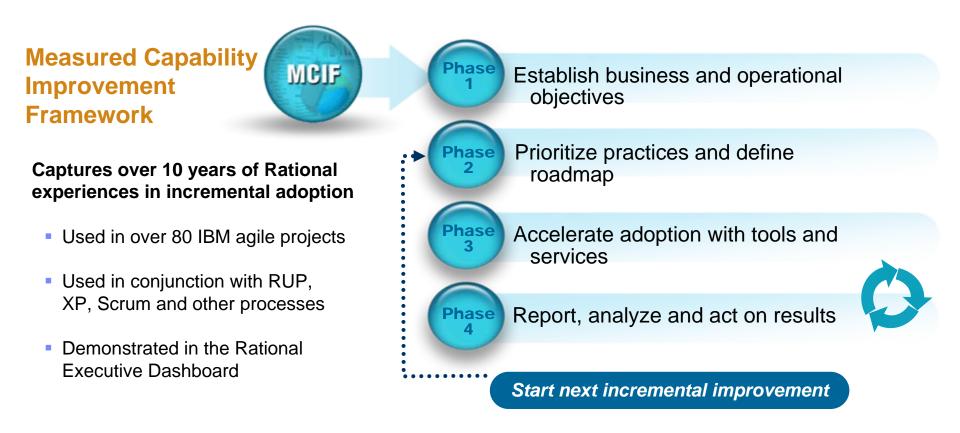
## How does one change and improve?







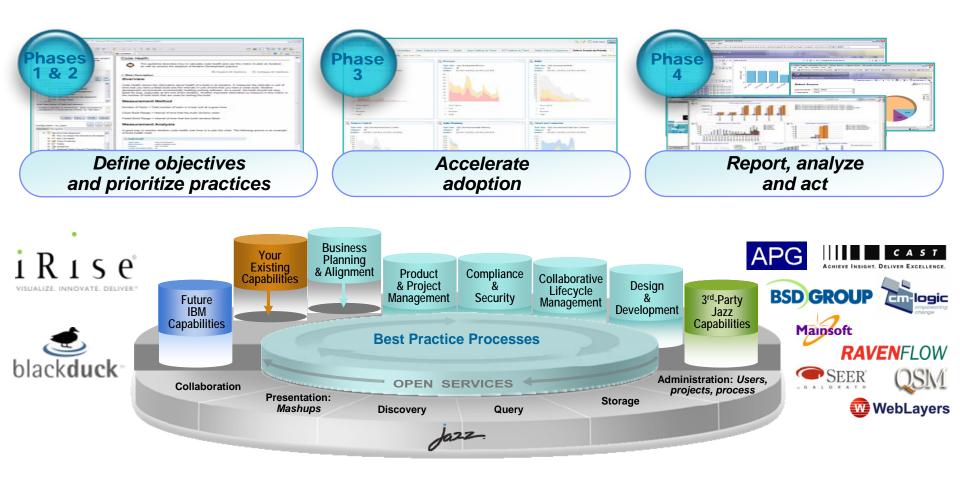
## Drive business innovation and reduce costs through measured and continuous process improvement





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### Unifying platform: Jazz Operationalize capability improvement







### Phases 1 & 2: From business value to practices Establishing an improvement roadmap

#### Executive Business Value Workshop

Service offering to explore business and operational objectives and delivery strategies

#### Health Assessment

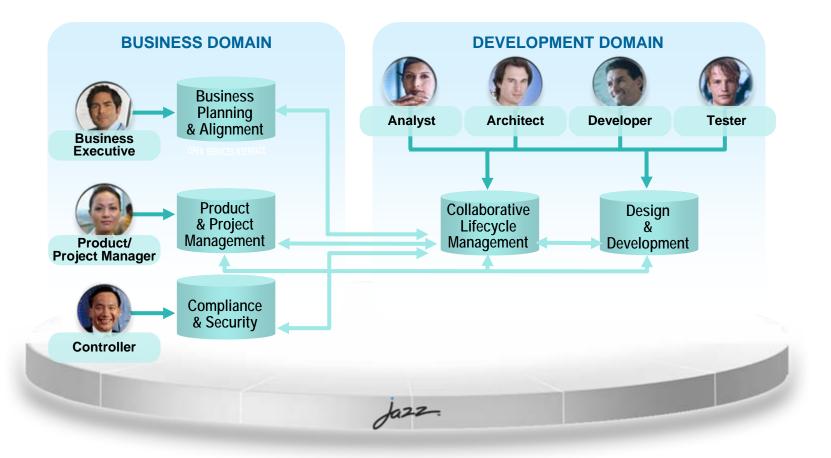
- Service offering that assesses current health of target projects and organizations
- Provides a measurable and incremental improvement roadmap







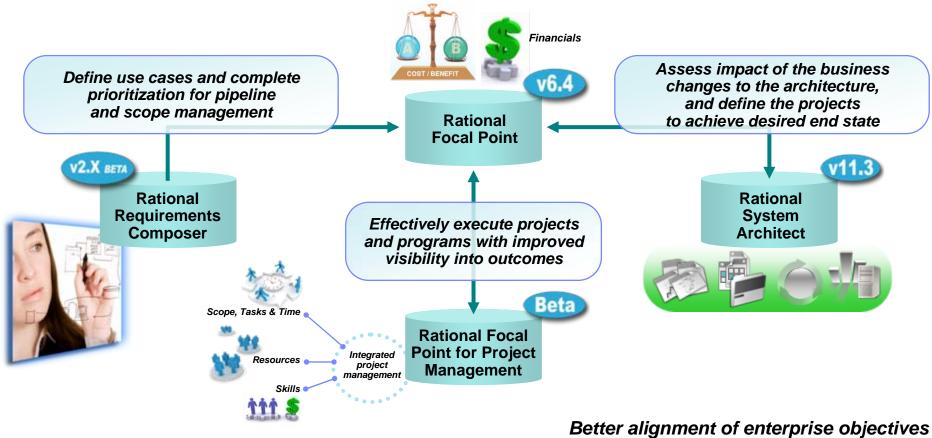
## Phase 3: Deploying best practices and tools







### Connecting business value to delivery outcomes Achieving business alignment

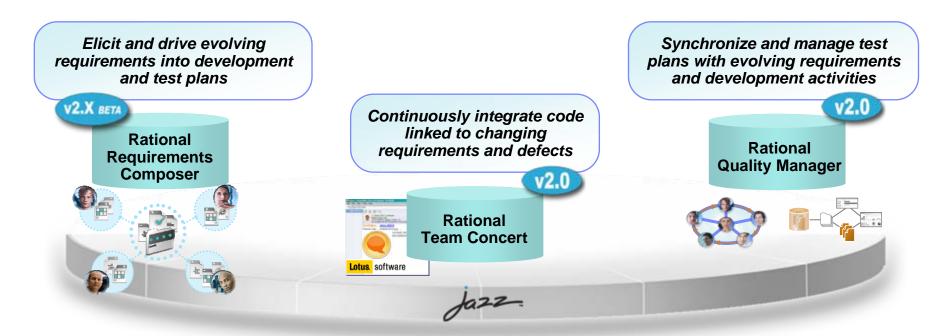


etter alignment of enterprise objectives and solution efforts can result in a 17% productivity improvement





### Making delivery outcomes real Improving time-to-market and quality



By reducing requirements rework, we cut costs up to 30%





New!

## Phase 4: Report and analyze business results

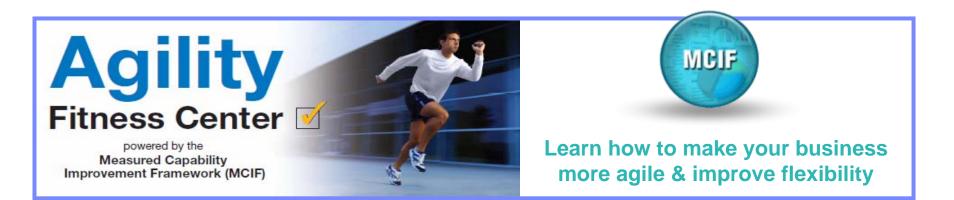
Rational Insight







## Get started today with your transformation





Learn more about how our new Jazz offerings will help you: Collaborate, Automate and Report! Visit the Solutions Center, Rational Labs, the Jazz Corner

and our Partner booths to share in the Jazz excitement!





## How does one change and improve?







Innovation is about taking deep insight to create new value – for business and society.

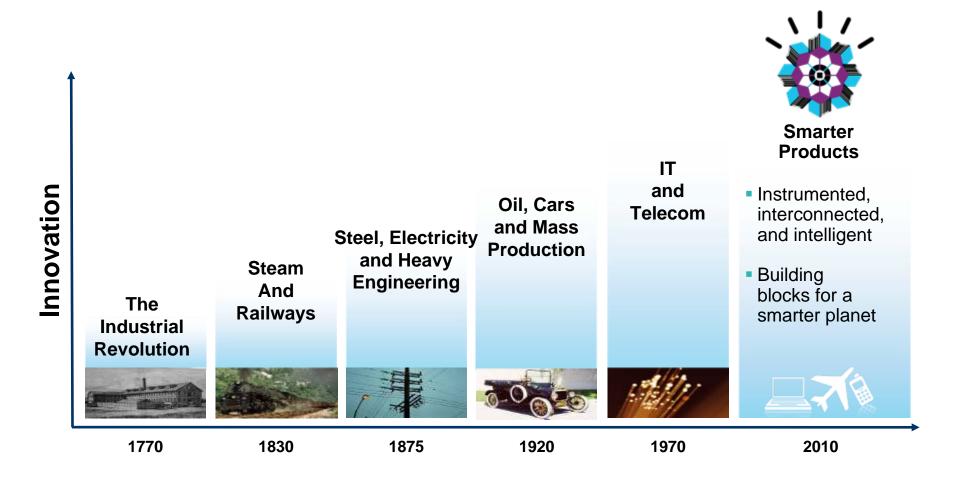


Innovation resides at the intersection of invention and insight, leading to the creation of social and economic value.

**National Innovation Initiative** 



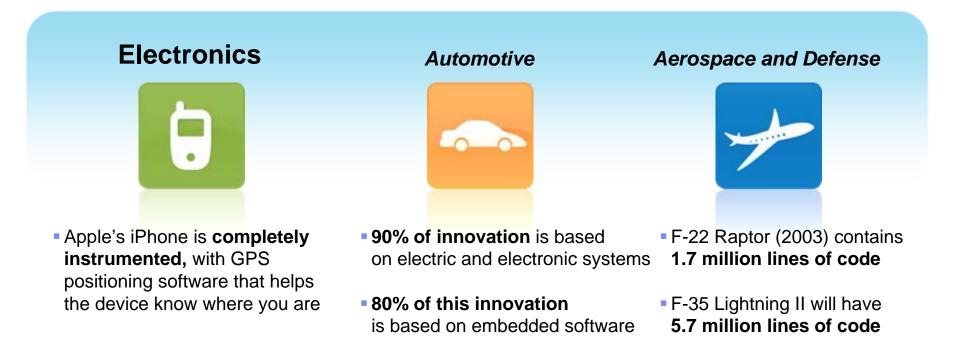
### We are on the verge of a new wave of innovation...







# ...where embedded software becomes even more crucial for product innovation and differentiation.

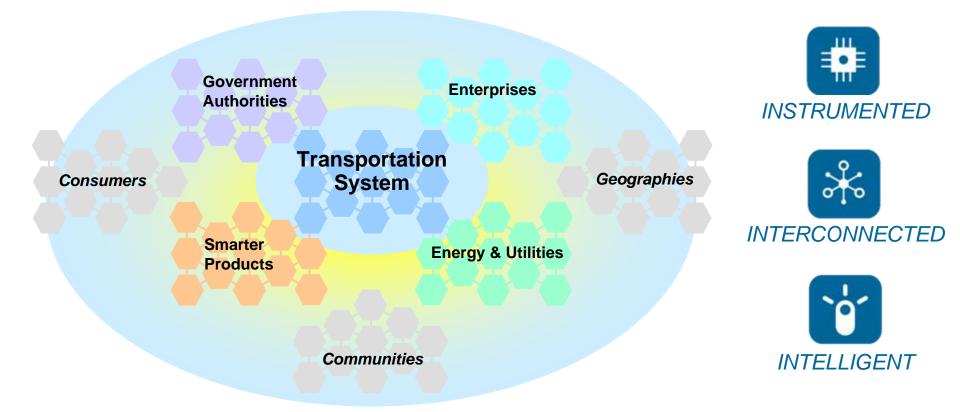


#### Key benefits

- Create new opportunities
- ✓ Increase revenue / profit
- Enhance customer loyalty
- ✓ Faster time-to-market



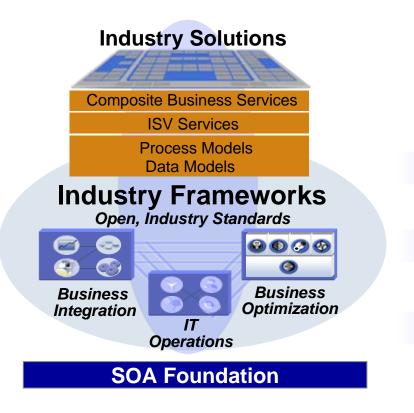
These smarter products will play a major role for enabling tomorrow's ecosystems, such as for smarter transportation.







# IBM continues to invest in industry assets and frameworks to help develop and deploy smarter products.



#### IBM Industrial Sector Industry Frameworks

- PDIF Product Development Integration Framework
- MIF Manufacturing Integration Framework
- IIF Integrated Information Framework





# ...with a core foundation of software delivery offerings that enable smarter products.

- Rational DOORS Web Access New!
- Rational Rhapsody New!
- Rational Team Webtop New!
- Rational MCIF for Systems (New!)
- Rational Focal Point
- Rational System Architect
- Rational Team Concert
- Rational Synergy / Change
- Rational ClearCase / ClearQuest
- Rational Quality Manager
- Rational Build Forge
- Rational Harmony





Smarter Products

#### The Rational Software Platform for Systems



### IBM

### Innovation journey continues IBM Software Delivery Services for Cloud

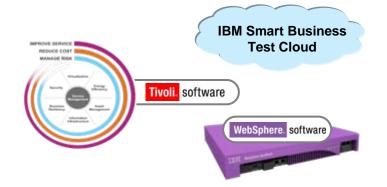
#### Rational Software Delivery Services ON the cloud

- Turnkey Collaborative Application Lifecycle Management solution for software and systems delivery
- Rational Team Concert, Quality Manager, Requirements Composer, Insight, and Build Forge hosted in the Cloud

#### Rational Software Delivery Services FOR the cloud

- Support IBM CloudBurst and IBM Smart Business Test Cloud
- Leverage Cloud resources with Rational Software Architect and Rational Build Forge
- Manage Cloud assets with Rational Asset Management, Quality Management and Tivoli Solutions







#### IBM Rational Software Conference 2009





#### Learn more at:

- IBM Rational software
- Rational launch announcements
- Rational Software Delivery Platform
- Accelerate change & delivery
- Deliver enduring quality
- Enable enterprise modernization

- Ensure Web security & compliance
- Improve project success
- Manage architecture
- Manage evolving requirements
- Small & midsized business
- Targeted solutions

- Rational trial downloads
- developerWorks Rational
- Leading Innovation
- IBM Rational TV
- IBM Business Partners
- IBM Rational Case Studies

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