



IBM Rational Software Conference 2009  
As Real as It Gets!



## IBM Rational

Helping customers achieve greater value from  
their investments in software

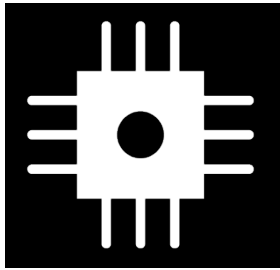
*Ken King*  
*VP, Telelogic Integration Executive, IBM Rational*  
*[kking@us.ibm.com](mailto:kking@us.ibm.com)*



**Innovation2009**  
IBM RATIONAL SOFTWARE CONFERENCE

**Rational.** software

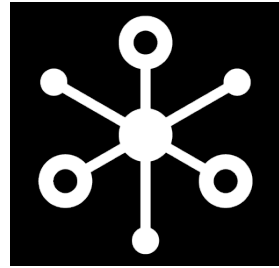
# The reality of living in a globally integrated world is upon us



## INSTRUMENTED

**We now have the ability to measure, sense and see the exact condition of everything.**

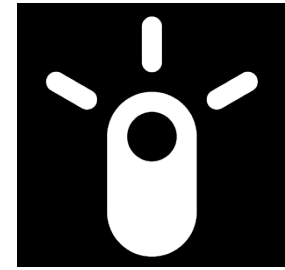
- Today, there are 1 billion transistors for each person on the planet.
- By 2010, 30 billion RFID tags will be embedded into our world and across entire ecosystems.



## INTERCONNECTED

**People, systems and objects can communicate and interact with each other in entirely new ways.**

- The internet of people is 1 billion strong. Almost one third of the world's population will be on the web by 2011.
- There will be nearly 4 billion mobile phone subscribers worldwide by 2009.



## INTELLIGENT

**We can respond to changes quickly and accurately, and get better results by predicting and optimizing for future events.**

- Every day, 15 petabytes of new information are being generated. This is 8x more than the information in all U.S. libraries.
- An average company with 1,000 employees spends \$5.3 million a year to find information stored on its servers.

***Organisations that design and create software solutions face a world of growing complexity!***



Let's build a smarter planet

## Business realities – What you see

*Software failure impacts the bottom line*

- **Airbus**

Non-compatible software used at different Airbus factories

**\$6.1 billion** profit hit over the next four years, 2006

- **TJX**

Cost of data breach at TJX soars

**\$256 million** cost, 2007

- **Hewlett-Packard**

Problems with ERP system

**\$160 million** loss, 2004



*Software related downtime costs industry almost **\$300 billion** annually.*

*Only 34% of software projects succeed.*

*The data breach at a major retailer will cost \$100 per lost record.*

Sources: Standish CHAOS Report, Comparative Economic Normalization Technology Study, Business Week, CEO Magazine, Computerworld, InfoWeek, Fortune, The New York Times, Time, The Wall Street Journal, Boston Globe.

## *What's behind the failure?*

# Building a competency in software is challenging

## Overcoming a history of cost overruns, schedule slips and quality issues



*“Only **34%** of software projects are deemed successful costing over \$300B annually”*



*“**49%** of budgets suffer overruns and **62%** fail to meet their schedules”*



*“**30%** of project costs are due to rework and poor execution of requirements”*



*“**50%** of outsourced projects are expected to underperform”*

*Silos of people,  
process, and projects*

### Geographic Barriers

- Poor communication
- Language, culture, time
- Process gaps resulting in rework

### Organizational Barriers

- Weak collaboration
- Poor project governance and LOB oversight
- Security of IP

### Infrastructure Barriers

- Incompatible tools
- Unreliable access
- Lengthy on-boarding
- Inflexible integration



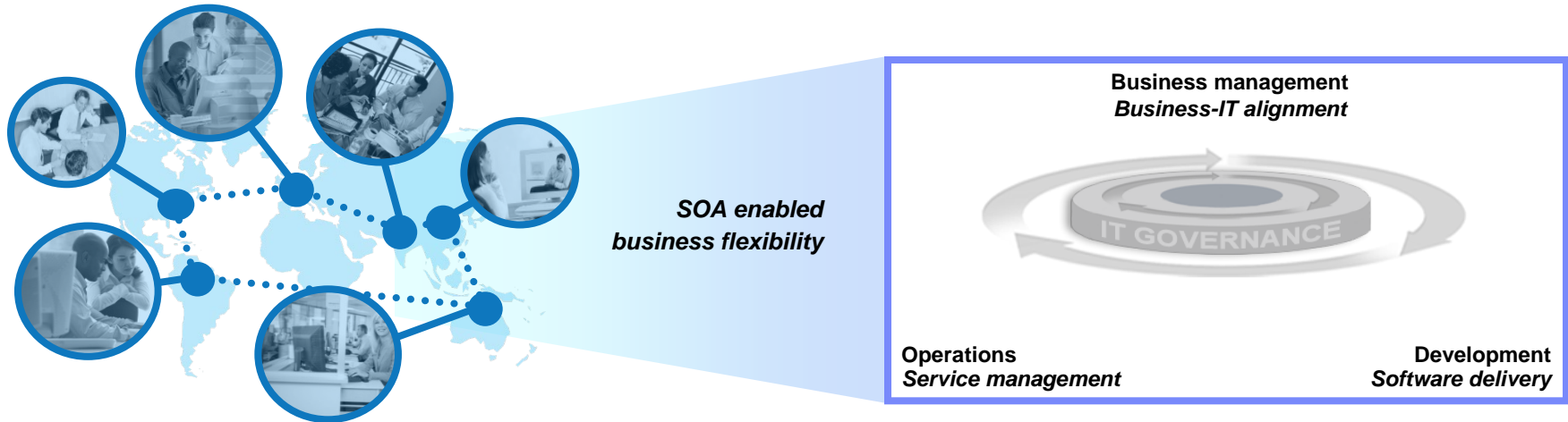
# Trends toward geographically distributed teams and SOA

## Impact of modularity

- ▶ More granular service functionality in composite business applications
- ▶ Large number of projects and assets including custom, outsourced and packaged

## Impact of change

- ▶ Asset SLAs will be impacted by frequent updates and changing interdependencies
- ▶ Effective cross-organizational visibility and synchronization becomes more difficult



*Drives the need for enabling better performance of organizationally diverse people and assets across the software supply chain*

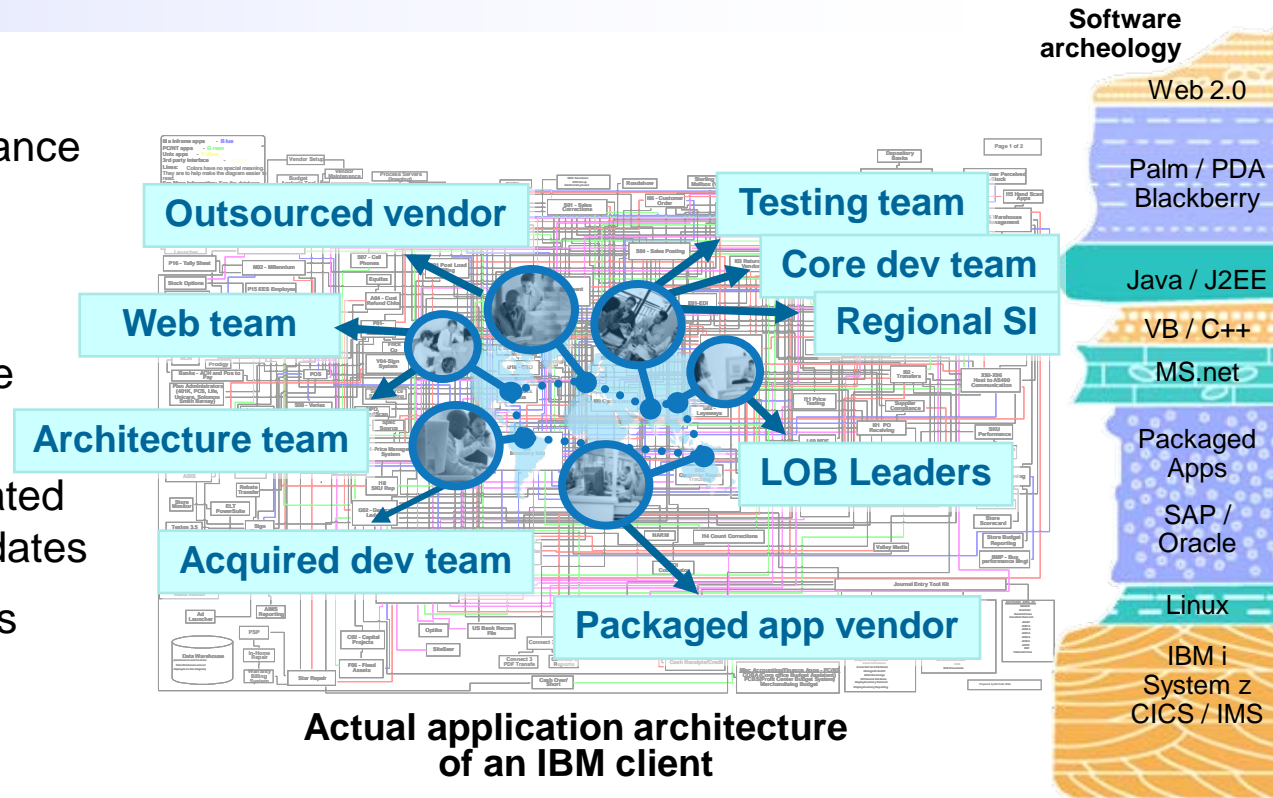
# Performance of people and assets in software supply chains



**“Whether designing an airplane, assembling a motorcycle [or delivering software]... the ability to integrate the talents of dispersed individuals and organizations is becoming the defining competency for managers and firms.”**

— Tapscott & Williams, *Wikinomics*, Copyright 2006

- Lack of architectural governance
- Layers of disjointed, poorly managed software assets
- Contributors are everywhere with diverse skills, roles
- Growing complexity associated with IP and regulatory mandates
- More formal IT and business service level agreements



# An increasingly intense focus on business outcome



**Align IT and business goals**  
enabling greater business flexibility



**Manage value and mitigate risks**  
by improving project management



**Control costs and improve global**  
**operational efficiencies (GDD)**



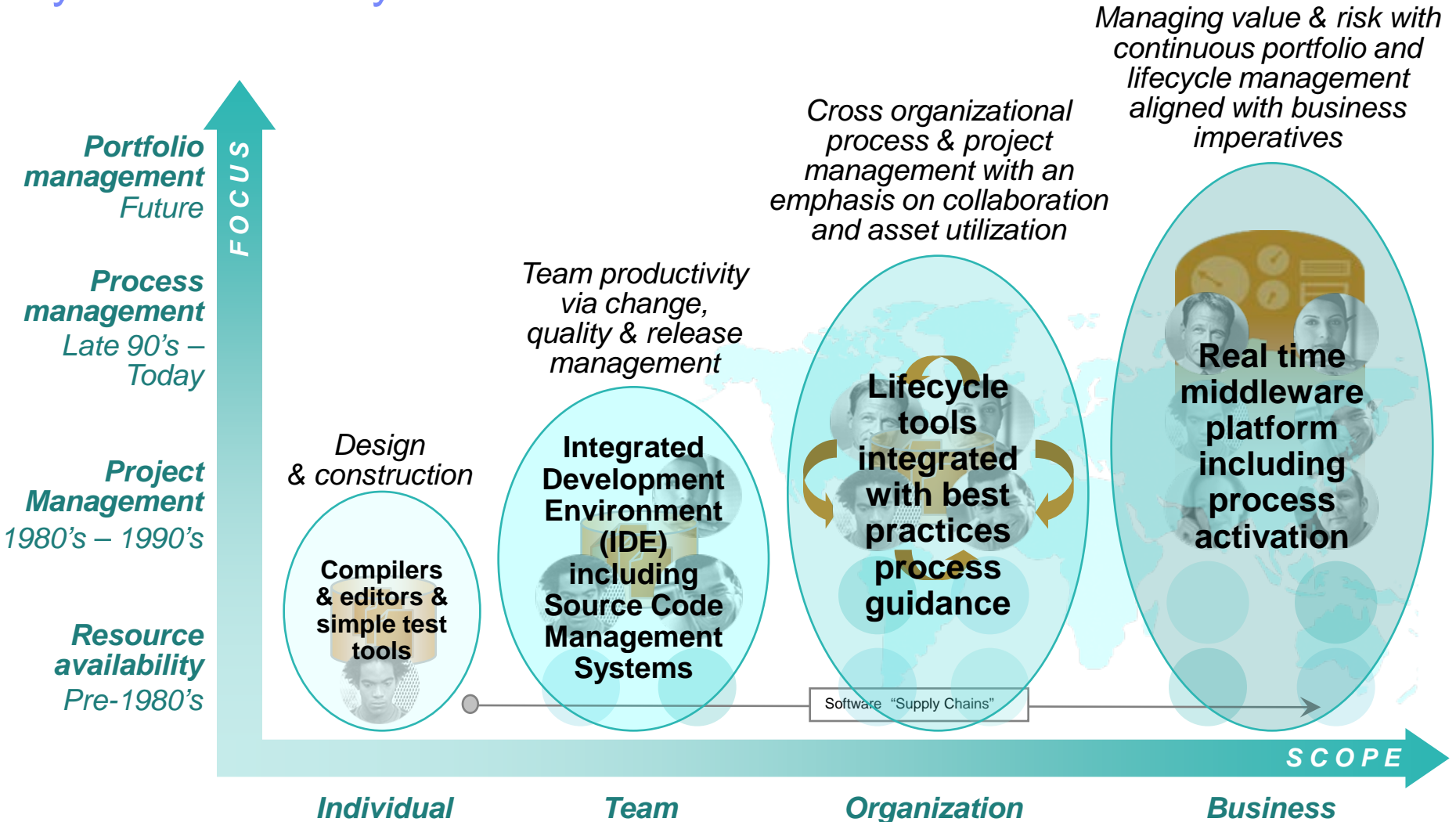
Ensure **security and compliance**  
in a changing global environment



*Integrate value in organizationally diverse environments*



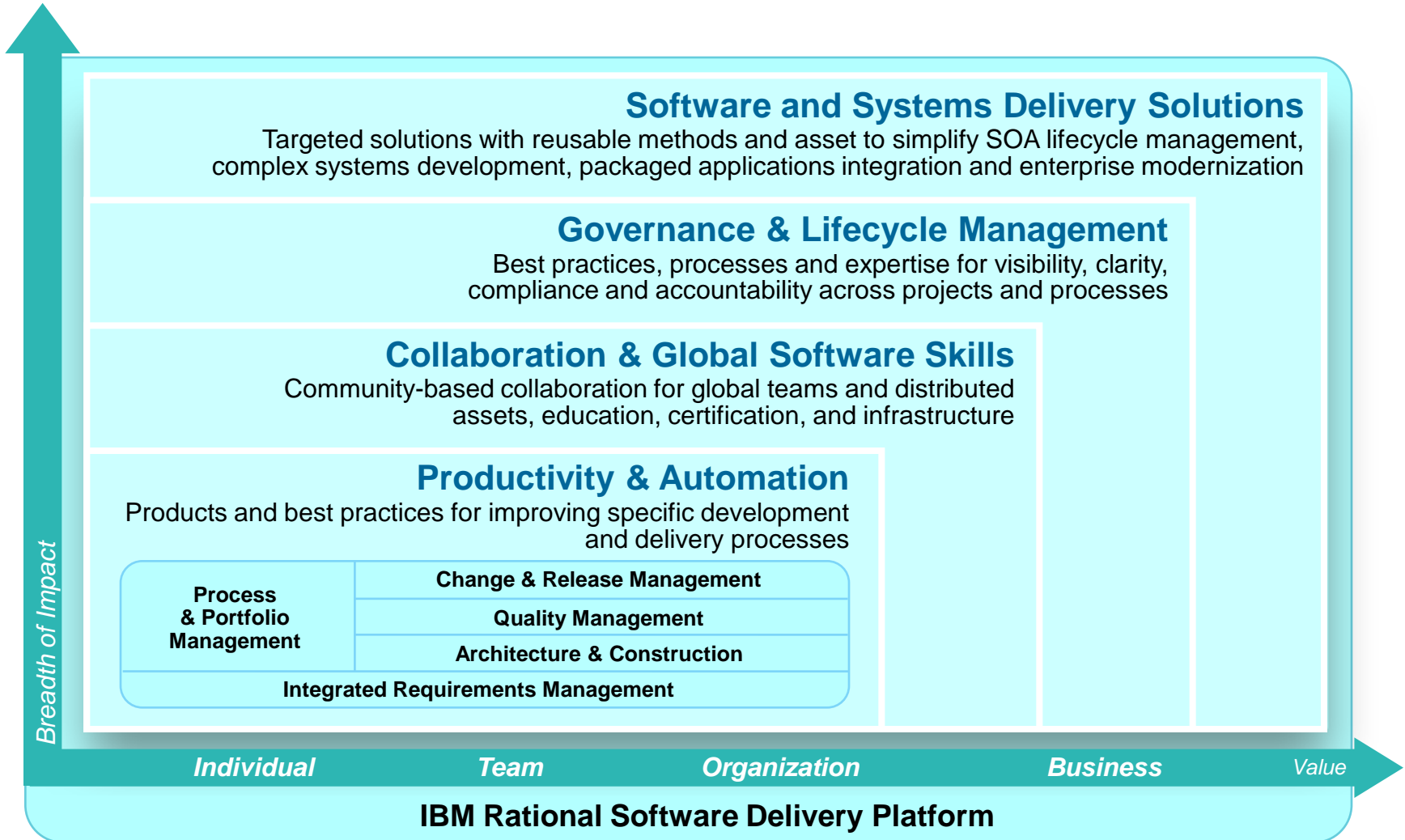
# Customers are maturing their approach to software and systems delivery





# A focus on supporting evolving value

*Supporting efficiency, control and value at every level*

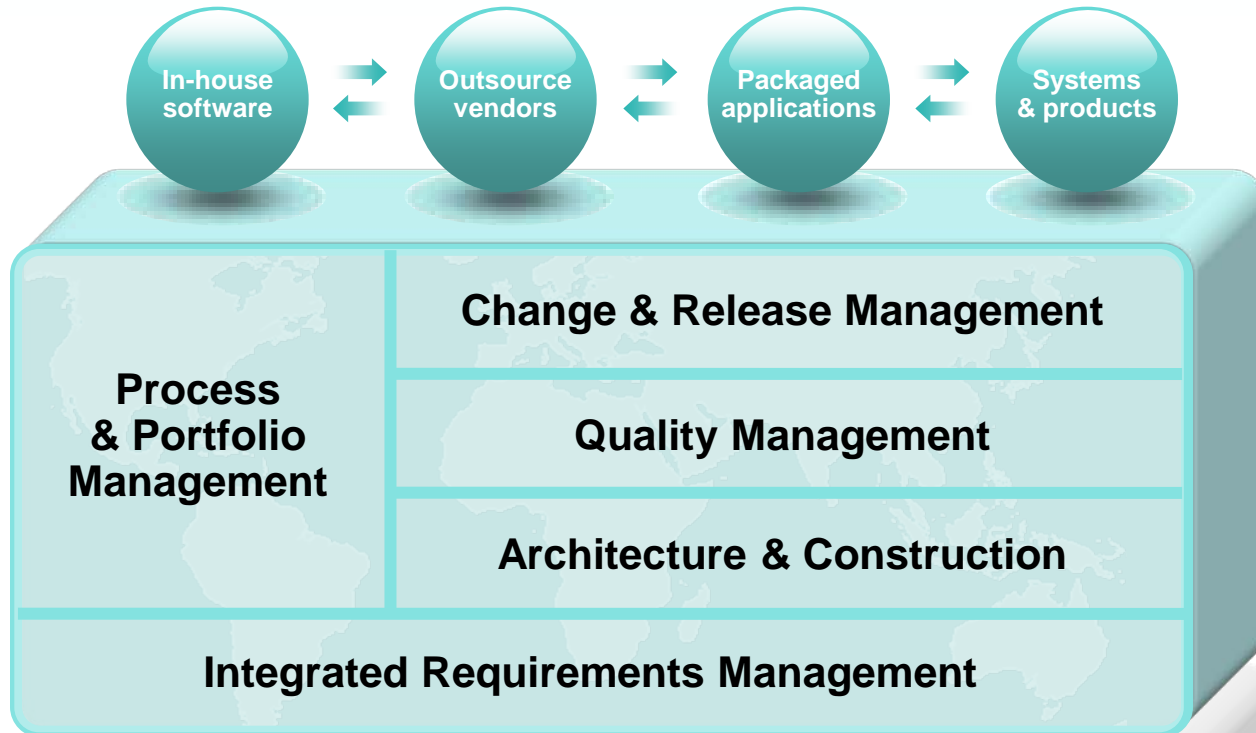


# IBM Rational Software Delivery Platform

*What we offer*

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

**Rational.** software



- *Enterprise Modernization and Transformation*
- *Organizational Governance*
- *Skill Development and Community*
- *Implementation Services*

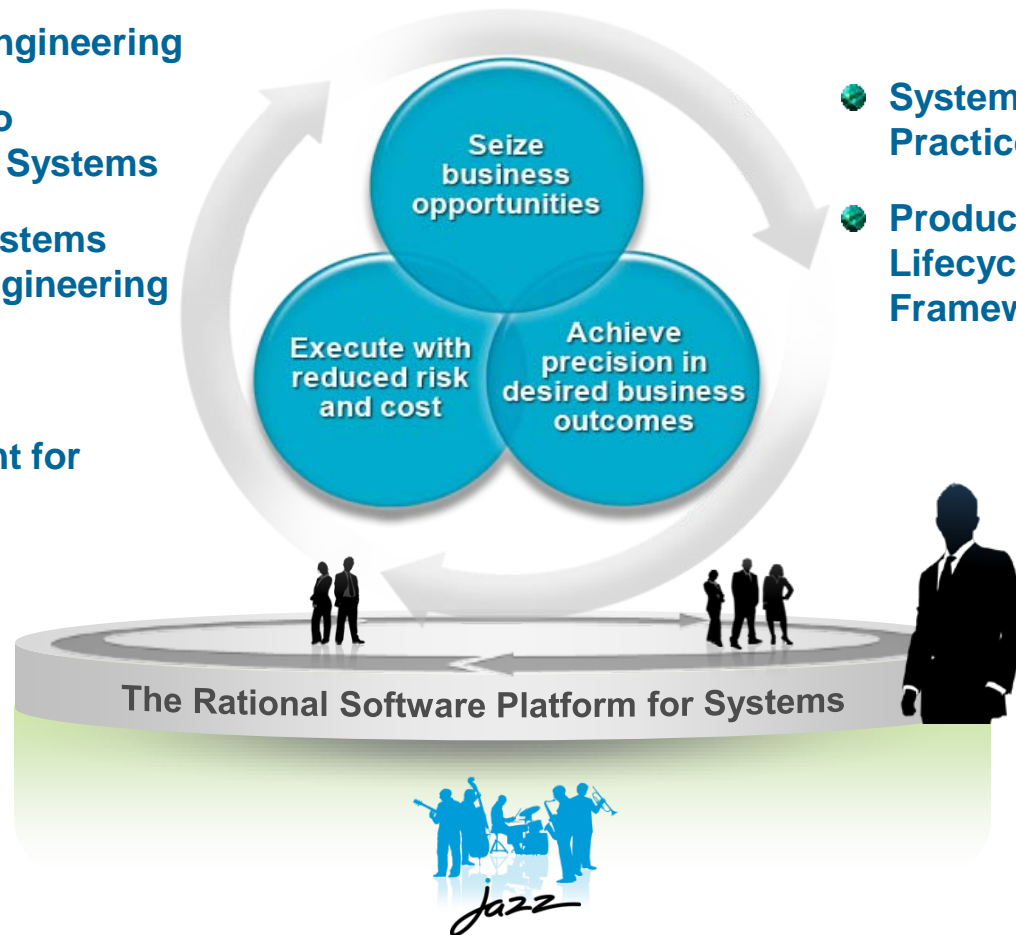
→ Go to **IBM**

# As well as a Platform for Systems that enables the adoption of vital best practices - Leveraging our Telelogic acquisition

- Requirements Engineering
- Product Portfolio Management for Systems
- Model-Driven Systems Development/Engineering

- System Engineering Best Practices and Approach
- Product Line Engineering Lifecycle Management Framework

- Software Development for Systems
- Integrated Change Management



# Based on a foundation that can transform software delivery

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



- Robust, extensible and scalable
- 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

## Automate Governance

- Automate team workflow, improving productivity
- Automate data collection, eliminating administrative overhead
- Real-time iteration planning and workload balancing

## Gain Real Insight and Adaptability

- Real-time reporting and alerts reduce project risk
- Dynamic provisioning of projects and teams
- Adapt early to project issues and course corrections

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

**Collaborate**

**Automate**

**Report**

***Repeatable activities producing a desired business outcome***



# The Jazz project

*People working together to deliver great software*

Jazz is a project & foundation for *transforming how people work together* to deliver greater value and performance from their software investments.



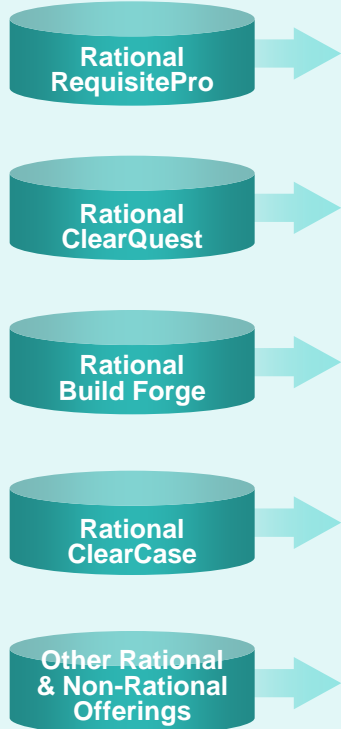
- A major investment by IBM to create a **scalable, extensible team collaboration platform**.
- IBM's vision of the **future of software delivery**—globally distributed, fluid and dynamic.
- An **evolution of the Rational portfolio**, which will evolve to support Jazz technology over time.
- A **community at Jazz.net** – where you can see Jazz-based products being built.

...an extensible framework that dynamically integrates and synchronizes people, processes and assets associated with software development

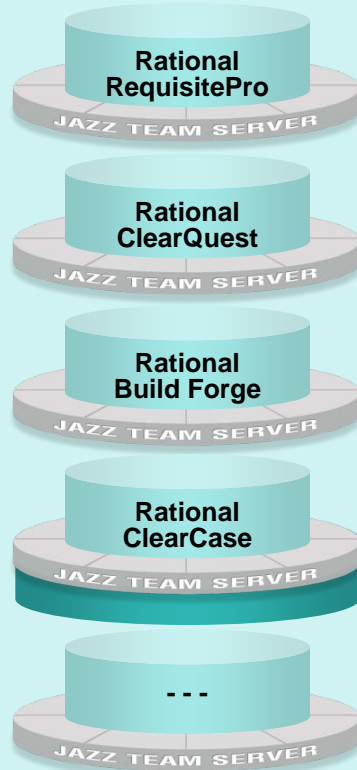
# An evolution for new and existing customers

## The Evolution of the IBM Rational Software Delivery Platform

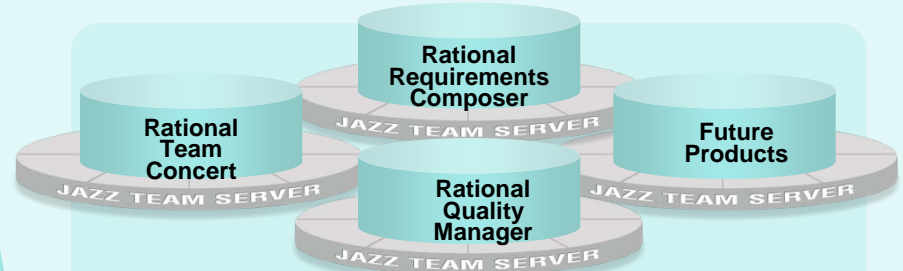
### Existing Offerings



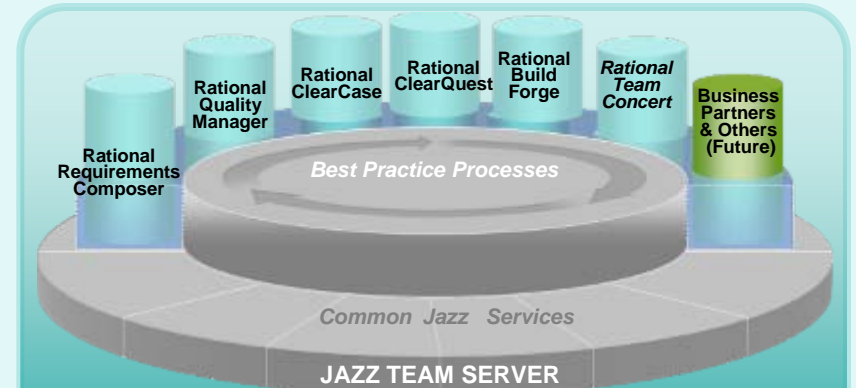
Evolution to Jazz Technology Platform



### New Offerings



Built on the Jazz Technology Platform



### FUTURE IBM RATIONAL SOFTWARE DELIVERY PLATFORM

# Software innovation through collaboration

- **Real time, in-context team collaboration**
  - ▶ Make software development more automated, transparent and predictive
- **"Think and work in unison"**
  - ▶ Integrated source control, work item and build management
- **Assess real-time project health**
  - ▶ Capture data automatically and unobstrusively
- **Automate best practices**
  - ▶ Dynamic processes accelerate team workflow
  - ▶ Out-of-the-box or custom processes
- **Unify software teams**
  - ▶ Integrate a broad array of tools and clients
  - ▶ Extend the value of ClearQuest and ClearCase
  - ▶ Support for System z and System i servers

Open and extensible on



- ✓ Collaborate in context
- ✓ Right-size governance
- ✓ Day one productivity

IBM Rational Team Concert





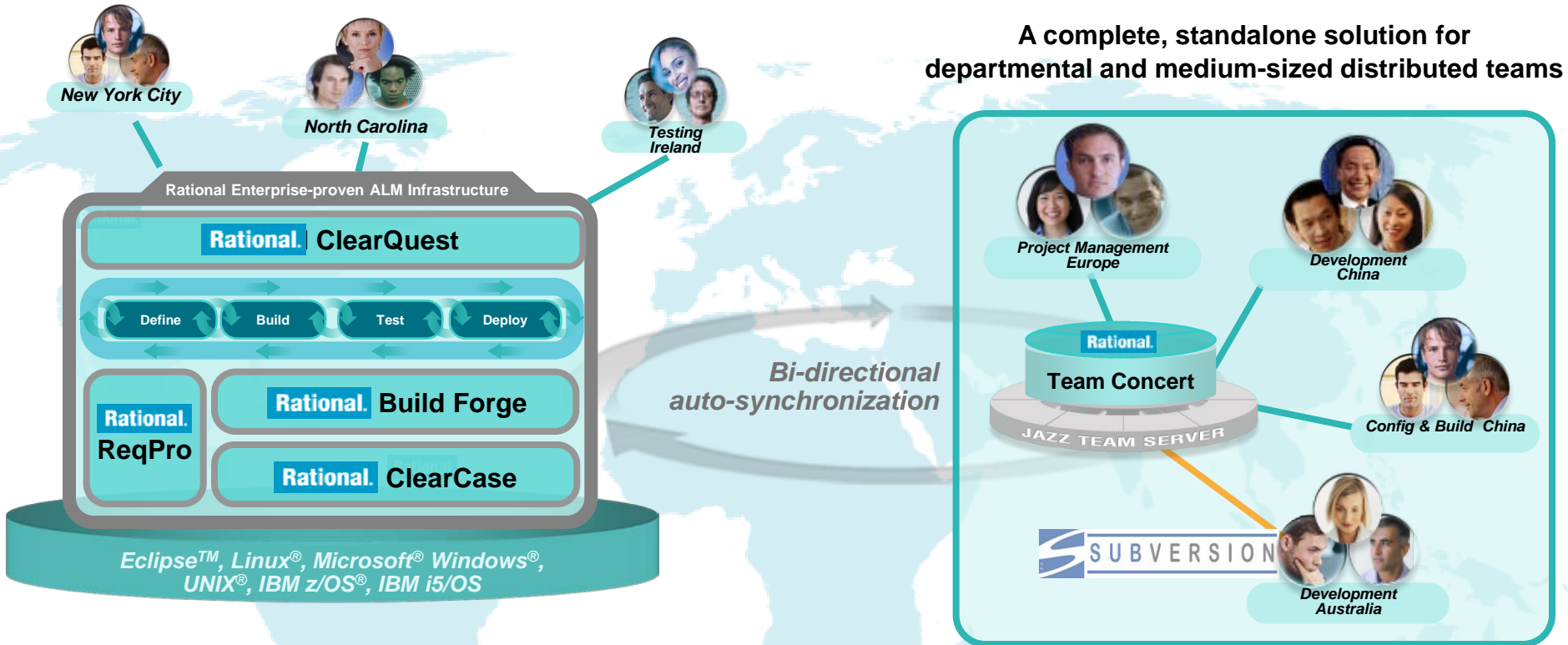




transparent *integrated presence*  
 wikis OPEN real-time reporting  
 chat automated hand-offs Web 2.0  
*custom dashboards* automated data gathering  
**EXTENSIBILITY** Eclipse plug-ins services  
 architecture **FREEDOM TO CREATE**

JAZZ TEAM SERVER

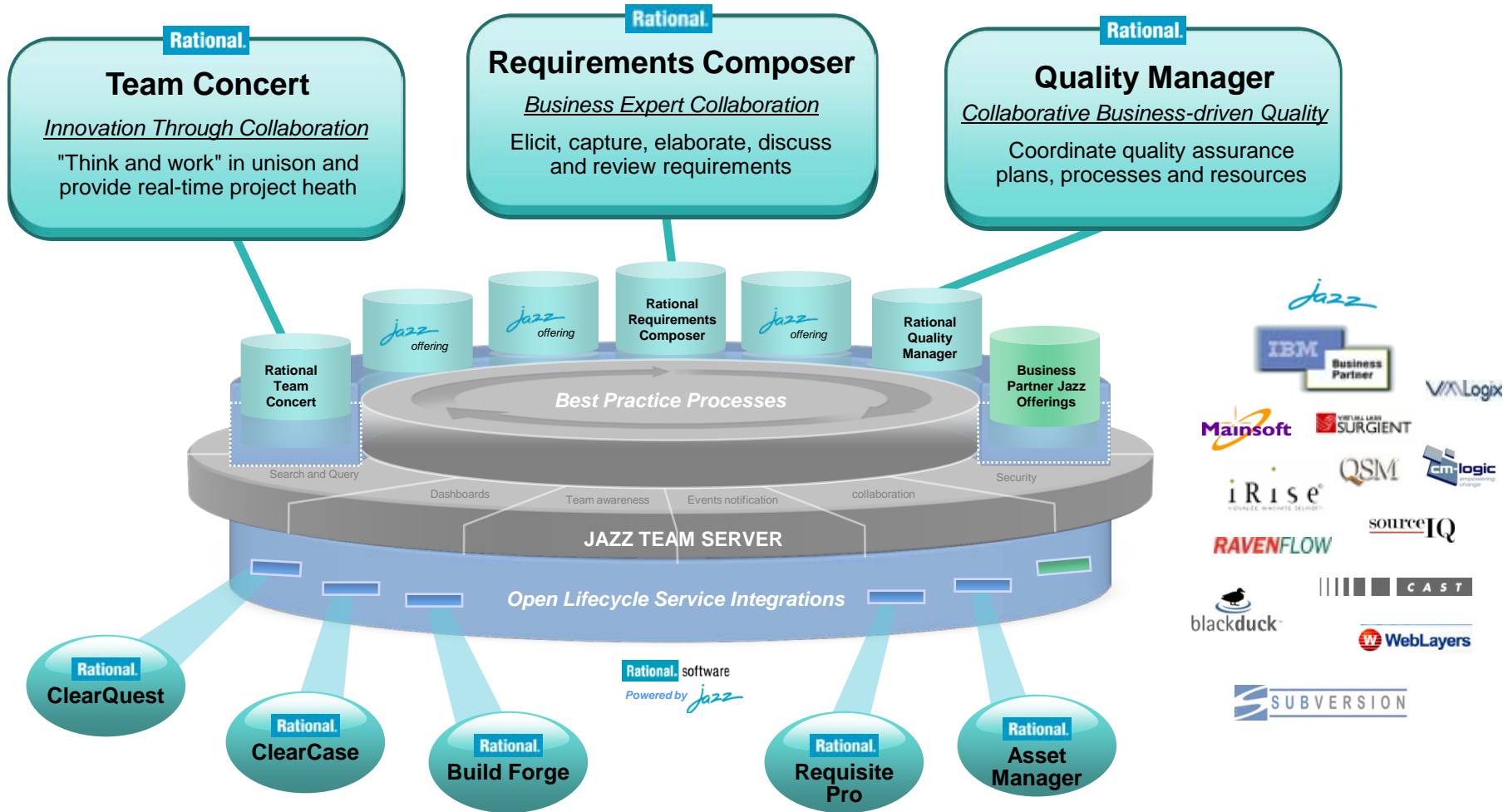
# Unify distributed teams in mid-sized or enterprise settings



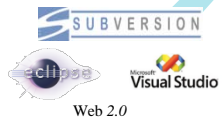
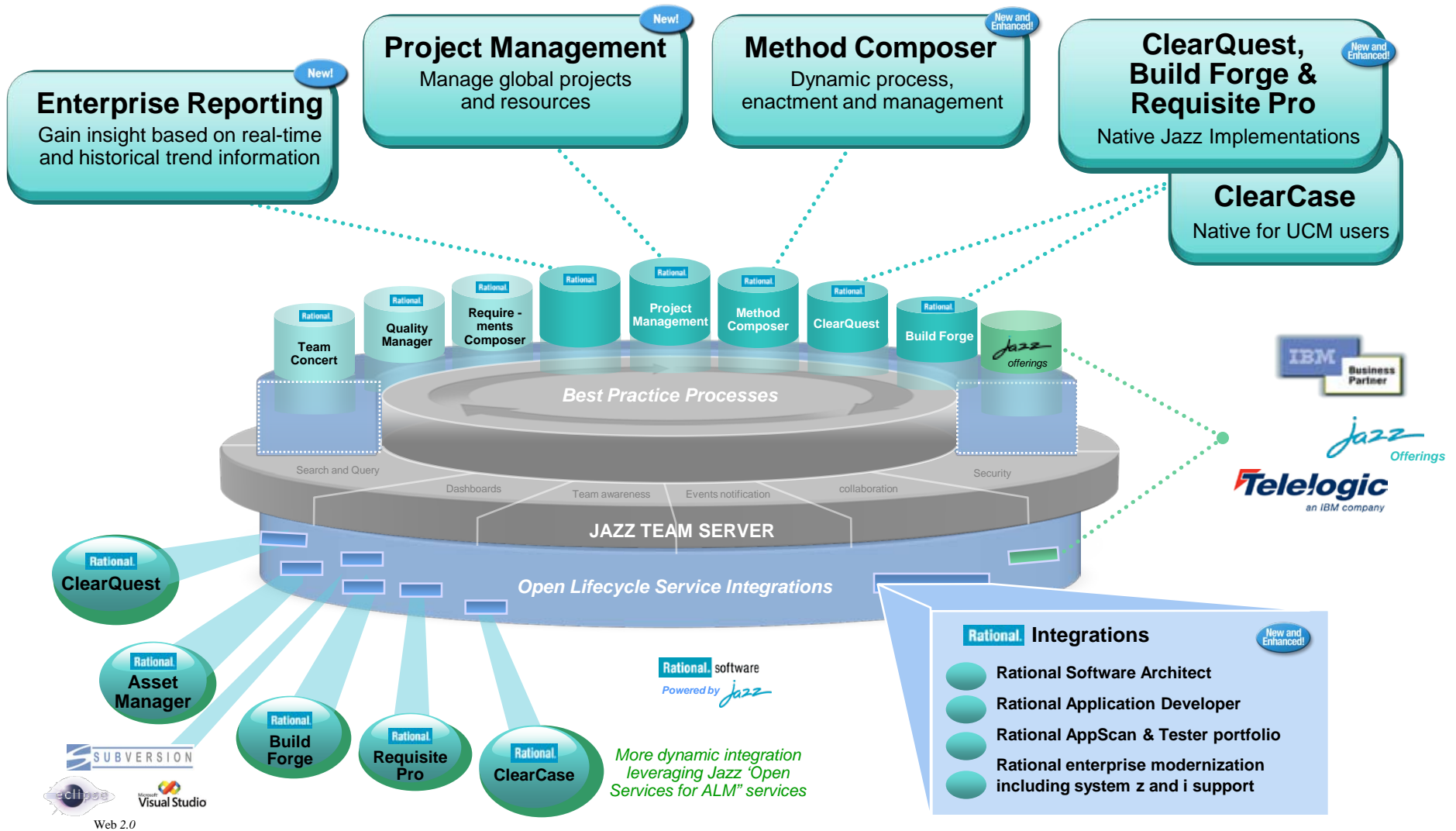
- Supports departmental “satellite” or “agile” projects optionally integrated with existing enterprise-proven Rational ALM infrastructure offerings
- Enhances existing ALM offerings with new collaborative & process capabilities



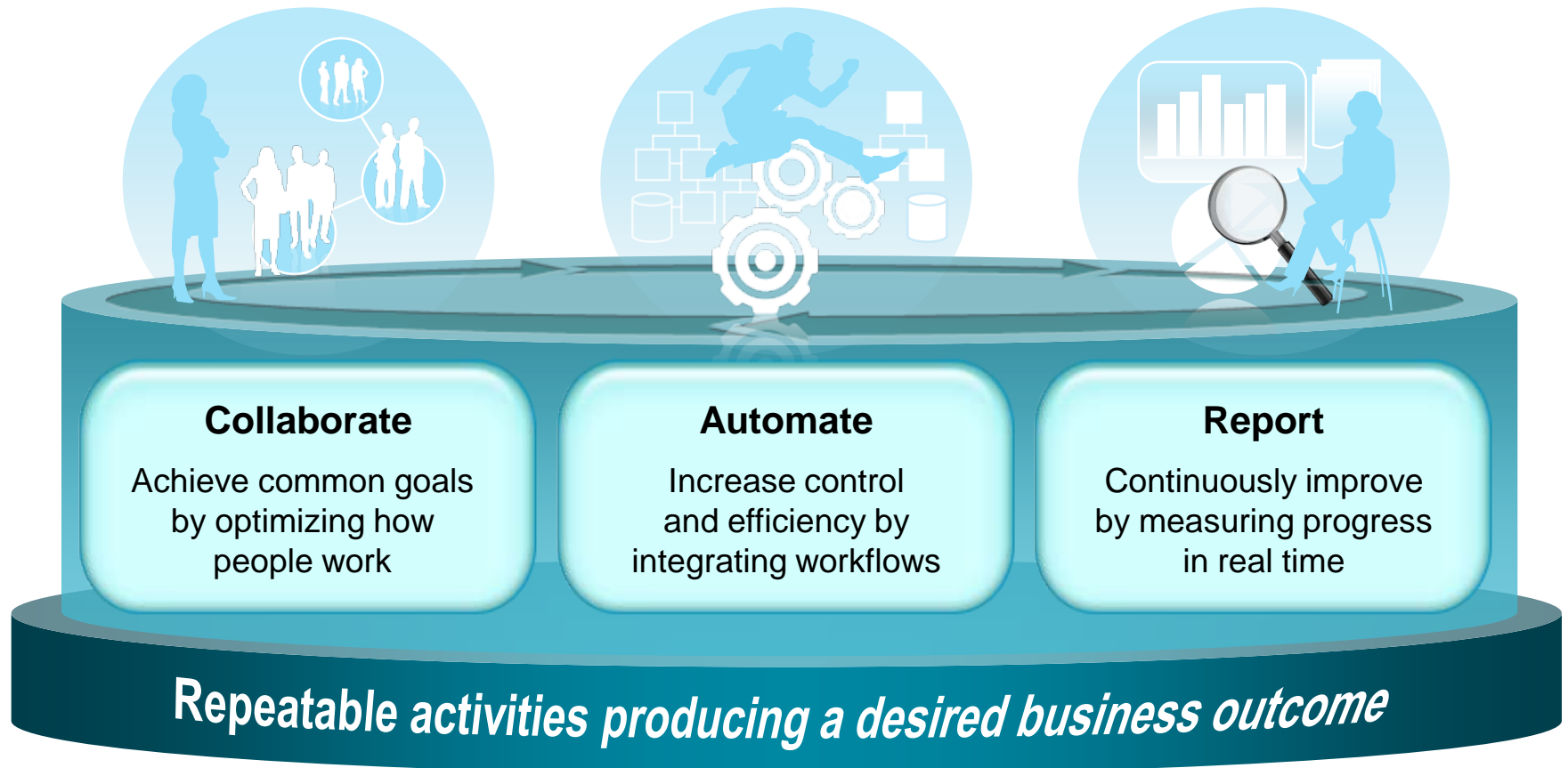
# The first wave of Jazz offerings



# The second wave of Rational Jazz offerings



# Successful businesses need to manage software delivery as a robust business process



# This is also true for businesses developing complex and embedded systems software to drive Product Innovation



**Automotive**

Enhanced **collaboration** enables you to manage relationships between OEM and multiple suppliers



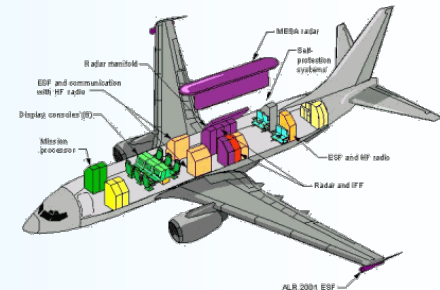

**Electronics**  
*Includes Telecom*

Increased **automation** enables you to develop products at a lower cost and with fewer resources than ever before, while coping with rapidly changing market demands and technological advances




**Aerospace and defense**

Advanced **reporting** enables you to demonstrate compliance to requirements and regulations with complete accountability

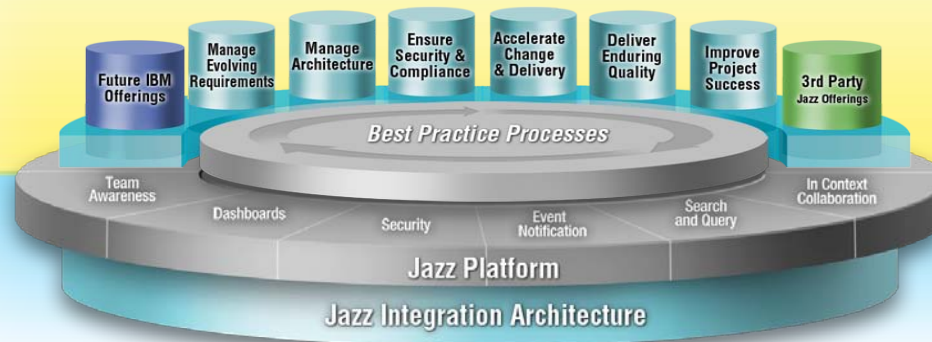


## In summary

- A **unified platform** that includes a common foundation for collaboration, automation and reporting can dramatically improve the business process of software delivery
- Through **insight** into real, honest, in-flight data, teams can better measure and understand the improvements they are making using this platform
- Achieving **business differentiation** with agility and confidence is a reality today



Let's build a smarter planet





## 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](#)
- [developerWorks Rational](#)
- [IBM Rational TV](#)
- [IBM Business Partners](#)
- [IBM Rational Case Studies](#)

© Copyright IBM Corporation 2009. 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, 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.

