需求和质量管理主题演讲

Rational. software

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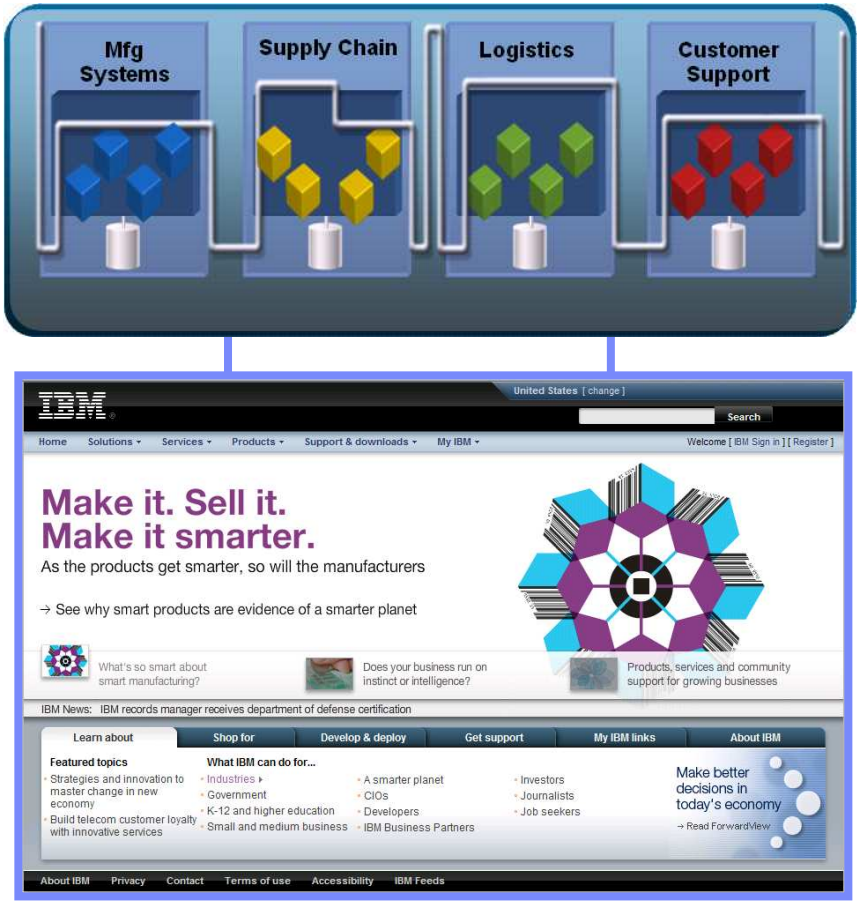
What are you delivering?

Rational Software Conference + Innovation 2009 Telelogic UGC



Agenda

- **Introductory comments**

- **Some perspective**
- **Strategy and roadmap**

The usual disclaimer

- This presentation includes comments on future product direction and strategy
- Plans are based on best information available and may change in the future

Information

Agenda

- **Introductory comments**
- **Some perspective**
  - Why RM?
  - Challenges in Systems and IT delivery
  - The Development Lifecycle and where our capabilities fit
- **Strategy and roadmap overview**

Why RM?

More agility

Better project governance

Cope with complexity

Control project scope

Better project efficiency

More stakeholder engagement

Get to market faster

Deliver what the customer needs

Better requirements validation

Prove contractual completeness

Manage subcontractor value chain

Lower risk of project failure

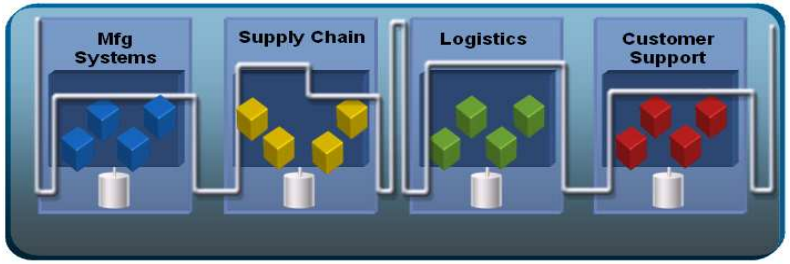
Meet compliance mandates

Manage change

The RM marketplace moves in two directions

Systems Domain

- Key Drivers
  - Increasing complexity
  - Innovation from more embedded software
  - Need faster time to market
- Market response
  - Aspire to Product Line Engineering
  - Complex sub-contractor scenarios
  - Getting it right the first time
- Rational strategic focus
  - Product Lifecycle Management (PLM)
  - Product Line Engineering (PLE)

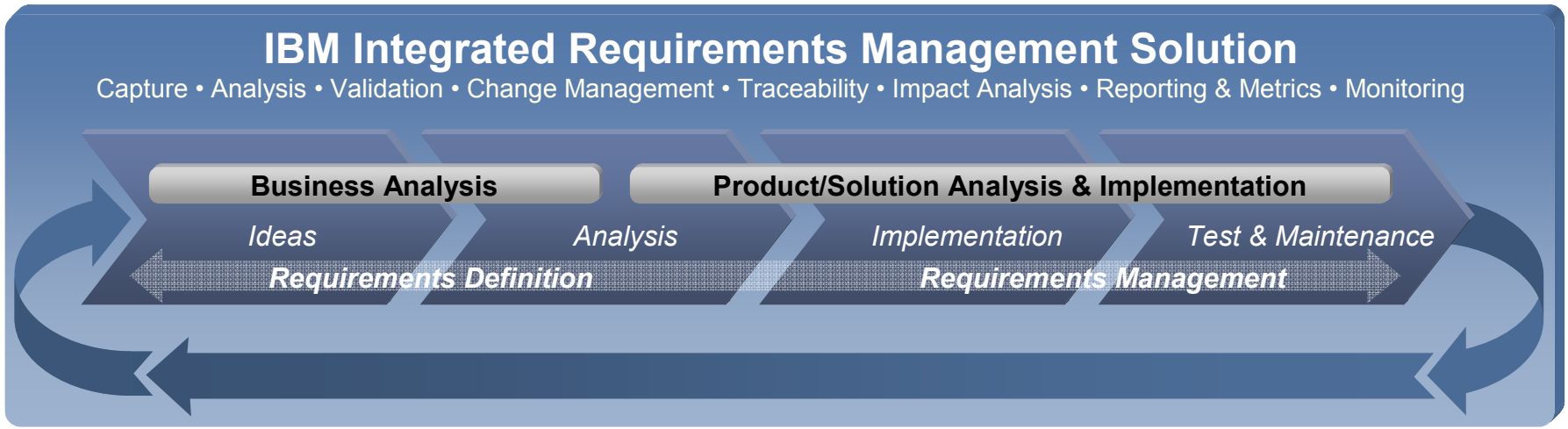


IT Domain

- Key drivers
  - Lower cost / do more with less
  - Better meet customer needs
  - Need faster time to market
- Market response
  - Aspire to agility
  - Business-driven development
- Rational strategic focus
  - “More agile” across the lifecycle

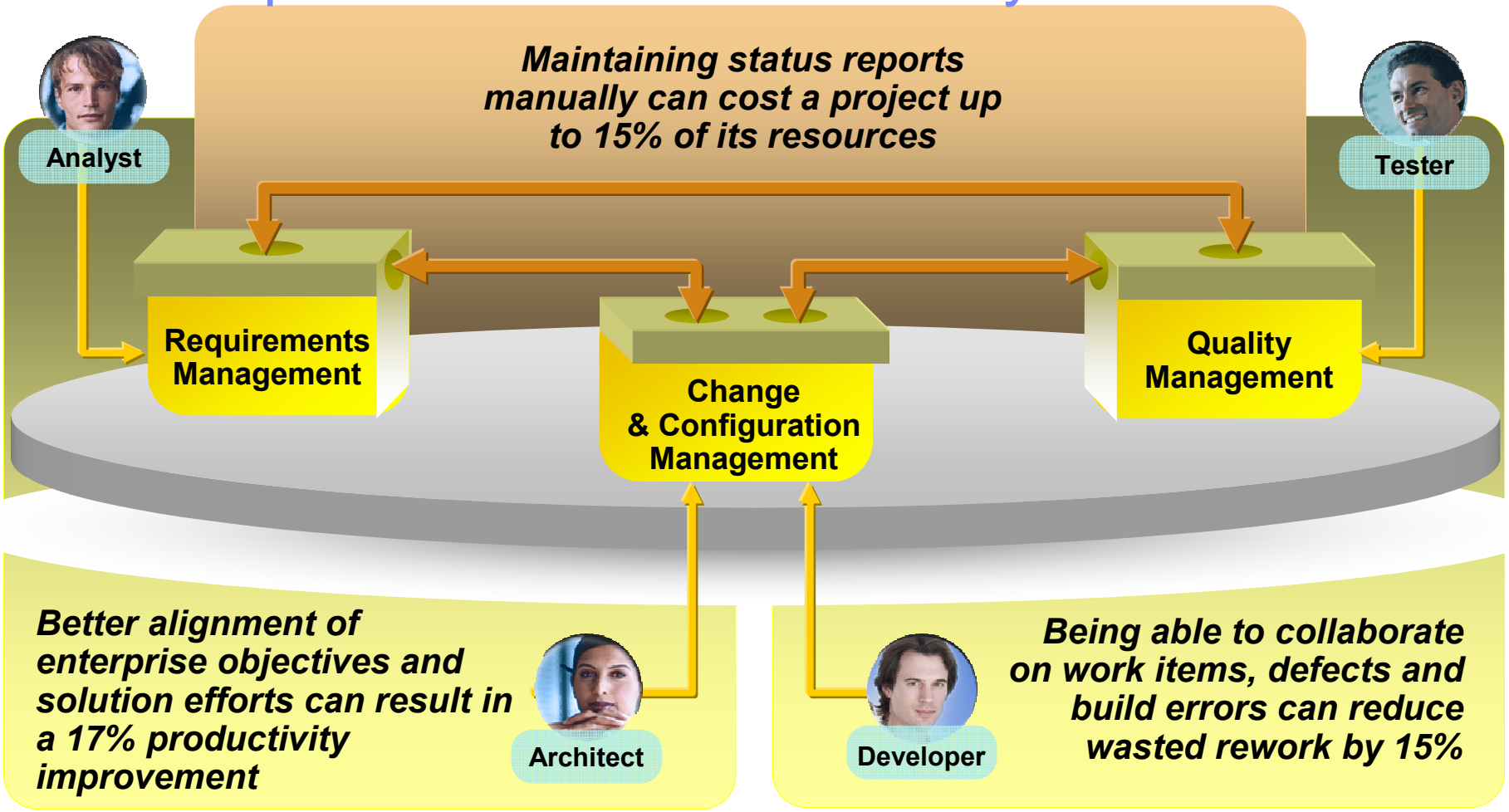
A “requirements view” across the lifecycle

For Programs, Projects, Products, Systems and Systems-of-Systems



- Traceability - manage compliance (at every level)
  - Improve ability and efficiency in managing change
- Reduce defects and cost of recall / in-service modifications
- Quality improvements – higher user satisfaction
- Cope with higher complexity
- Common repository – use the latest versions and know where they are
- Use of attributes provide for reporting
- Supply chain
  - better visibility of solution and compliance to customer requirements
  - easier validation of deliverable(s)
- Reduce the need for re-training when staff move projects

A unified platform can dramatically improve the business process of software delivery



Agenda

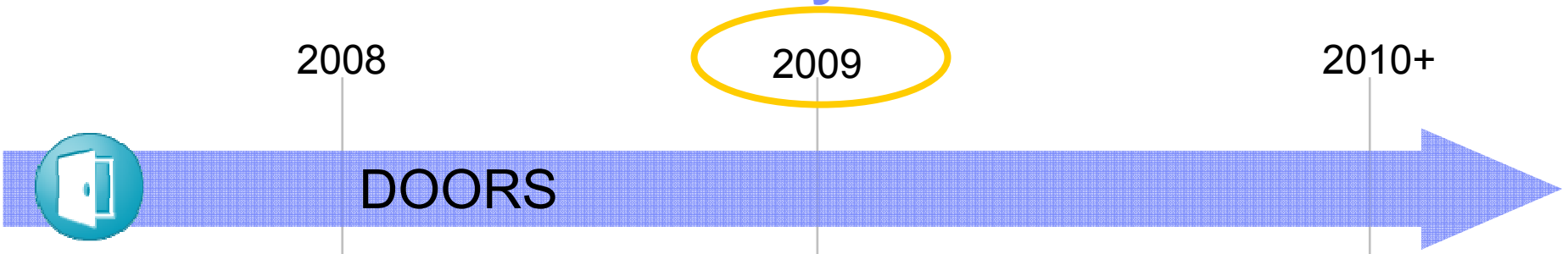
- **Introductory comments**
- **Some perspective**

- **Strategy and roadmap**
  - Looking ahead

Our intent

- Deliver world-class requirements definition and management capabilities to both systems- and IT-oriented customers
- Deeply integrate requirements into the development lifecycle
- Help you use requirements as a language of continuous stakeholder and business interaction
- Protect customer investment in RequisitePro and DOORS
- Deliver value incrementally, especially the “hard” items
- Enable new value adoption at your own speed – an evolutionary transition into revolutionary innovations

Evolution of DOORS: **This year**



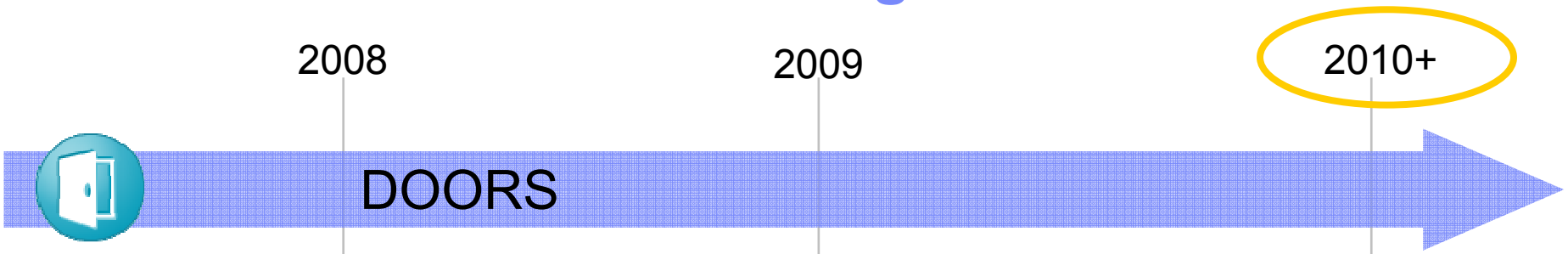
Greater stakeholder involvement and GDD productivity
With DOORS Web Access edit capability

Standardize communication between RM tools
Enabling RM in complex subcontractor scenarios
With Requirements Interchange Format (RIF)

Facilitate requirements-driven quality management
With DOORS-RQM integration

Exploit common Rational publishing system
With Rational Publishing Engine (RPE)

Evolution of DOORS: **Looking Ahead**



Infuse DOORS with Jazz

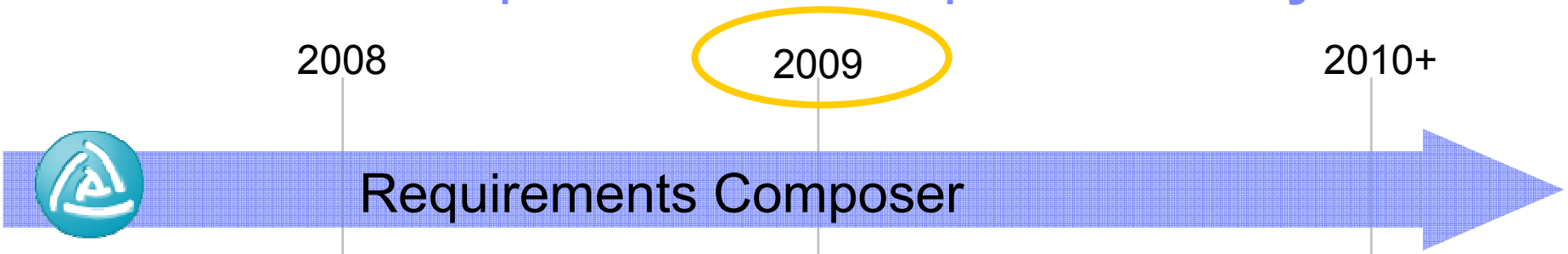
As an accelerator in solving the "hard problems"

- Replace DOORS server with Jazz server and COTS database
- Evolve and modernize the DOORS client
- Add sophisticated capabilities such as Product Line Engineering

Exploit common Rational reporting system

With Rational Insight

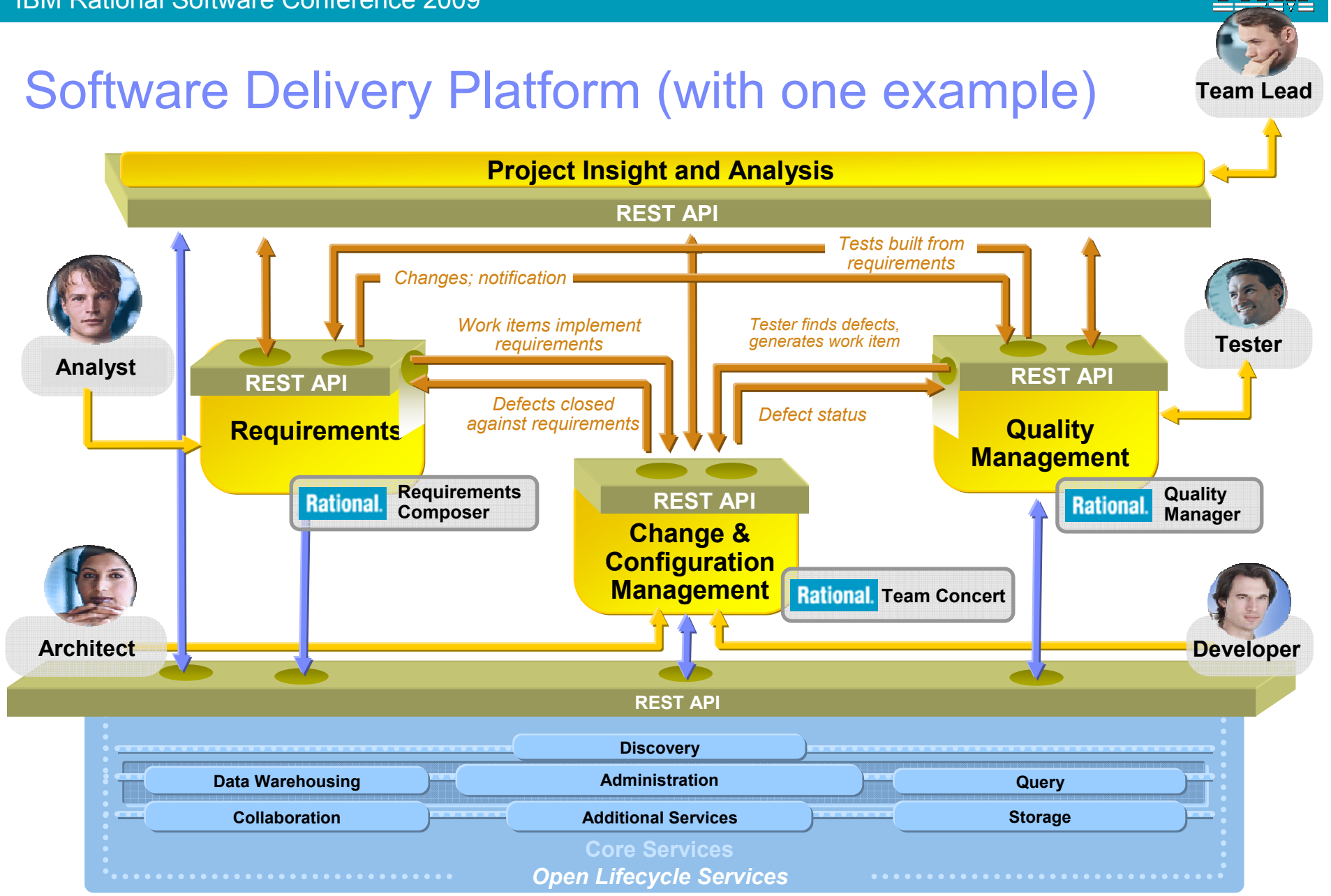
Evolution of Requirements Composer: **This year**



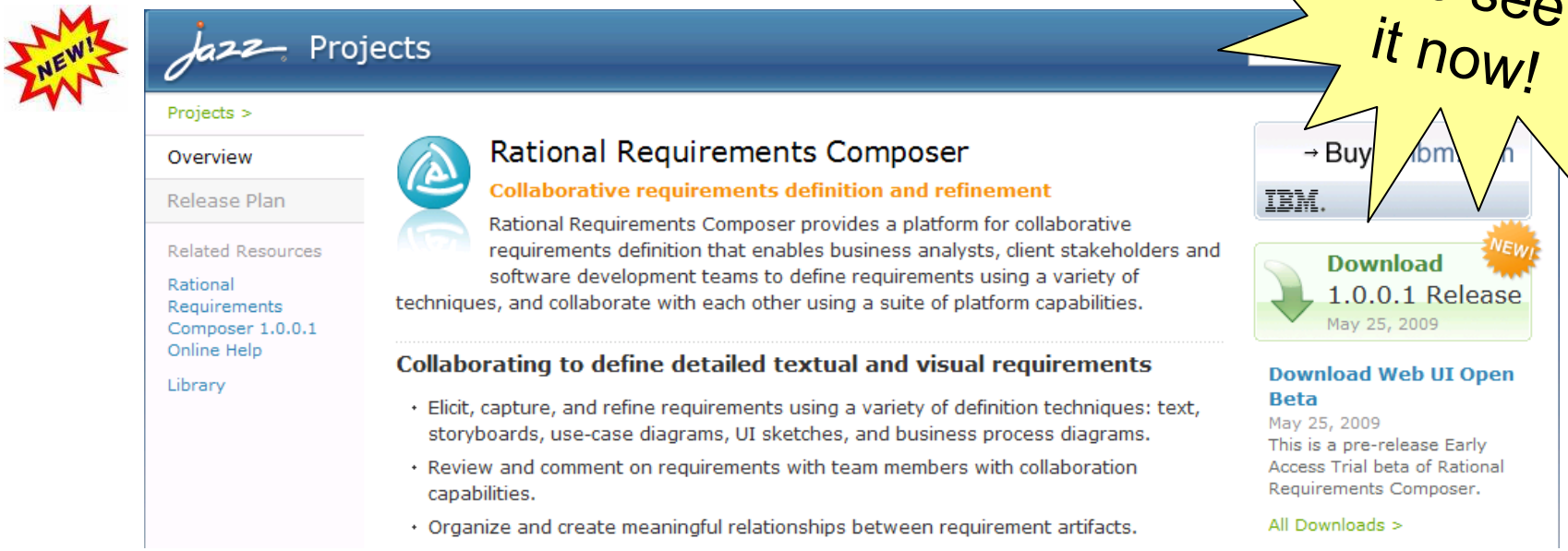
Engage stakeholders
With web client, review and approval, specification publishing

Maintain focus on business needs and evolving requirements
With baselines, standard and customizable reporting (using RPE), dashboards, and integrations with DOORS, RTC, RQM, RequisitePro

Software Delivery Platform (with one example)



RRC: open commercial development



- Have discussion with developers and community
- Download betas and early drivers
- Report defects or request enhancements
- Stay informed!

jazz.net/projects/rational-requirements-composer/

Evolution of Requirements Composer: **Looking ahead**

2008 2009 2010+

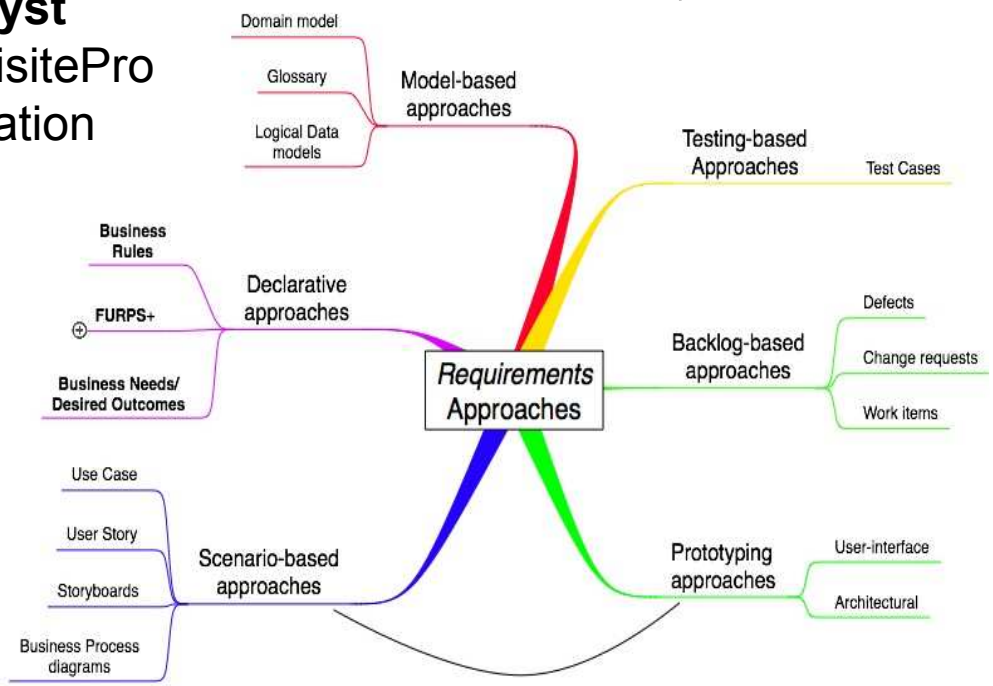
Requirements Composer

Focus on optimizations for the analyst

Deep Word integration, beyond RequisitePro
Automation for validation and prioritization
Authoring accelerators

Contribute to seamless RD+RM

A platform to support many requirements approaches



Evolution of RequisitePro: **This year**

2008 | 2009 | 2010+

RequisitePro

NEW!

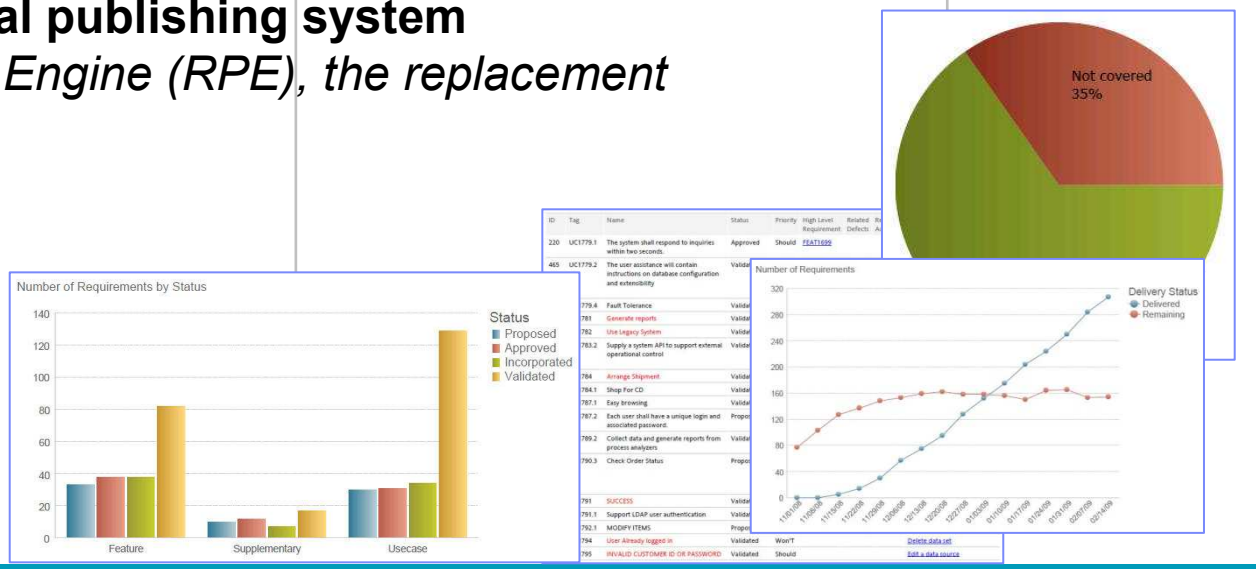
Exploit common Rational reporting system

Lifecycle reports and measurements with Rational Insight

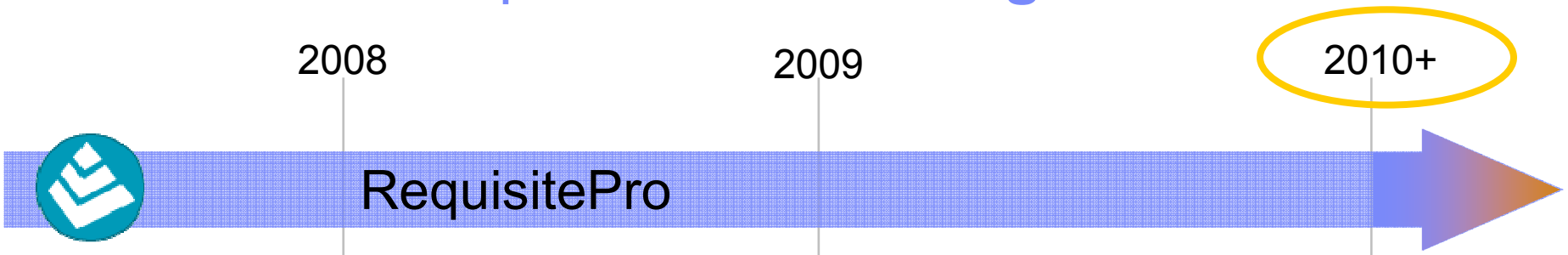
NEW!

Exploit common Rational publishing system

With Rational Publishing Engine (RPE), the replacement for Rational SoDA



Evolution of RequisitePro: **Looking Ahead**



Deliver early benefits of Rational investments in requirements management on the Jazz platform
Supplement existing use of RequisitePro with baselines, revisions, review & approval using new RM capabilities delivered on the Jazz platform

Grow these investments into a next-generation RequisitePro
- *Enabling an evolutionary approach for RequisitePro customers*
- *Becoming an eventual successor to the current code base*

IBM Rational partner solutions for Requirements

BigLever Software, Inc.

Provides software product line support for requirements management and software models

Rational. DOORS

integrate systems engineering

Maximize the productivity and effectiveness of your DOORS users through enhanced traceability

PMC ENABLING PROJECT MANAGEMENT EXCELLENCE

Provide seamless connectivity between DOORS & project management systems

STONEWORKS

Seamlessly integrates DOORS with leading PLM solutions such as PTC Windchill®

RAVENFLOW

Validate business requirements visually for desired outcome

iRise VISUALIZE. INNOVATE. DELIVER.

Eliminate risk of project failure with visual requirements definition through simulation

Rational. RequisitePro

RAVENFLOW

Validate business requirements visually for desired outcome

Rational. Requirements Composer

Ready for IBM Rational software

Summary:

- Protecting your investments in DOORS and RequisitePro
- Evolutionary introduction of revolutionary requirements innovation
- Modernizing your requirements tools with Jazz technology
- Innovations in a consumable fashion

Collaboration Opportunities

Design Partner Program

Lab Advocacy Program

Board of Advisors

VoiCE Events

Rational Software Conference

jazz.net

developerWorks

Beta Programs

RFE Community

Global Rational User Groups

Rational Cafe

➔Learn more about Rational Customer Programs

Questions

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Requirements Definition & Management Keynote

Better Requirements. Better Management. Better Results

Richard Crisp
Director - Product Delivery, Requirements and Quality Management

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