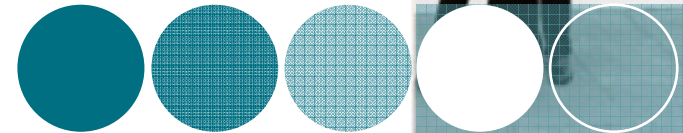IBM Software Group

Rational Method Composer

Raghu P.S
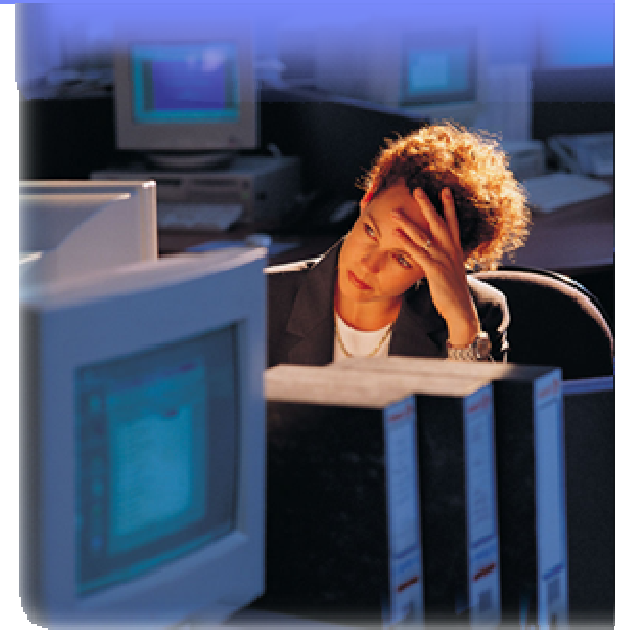Brand Architect, IBM SWG
raghsrin@in.ibm.com

Agenda

- The New Business Value of Process

- Top 5 Business Problems IBM Rational Process can Solve

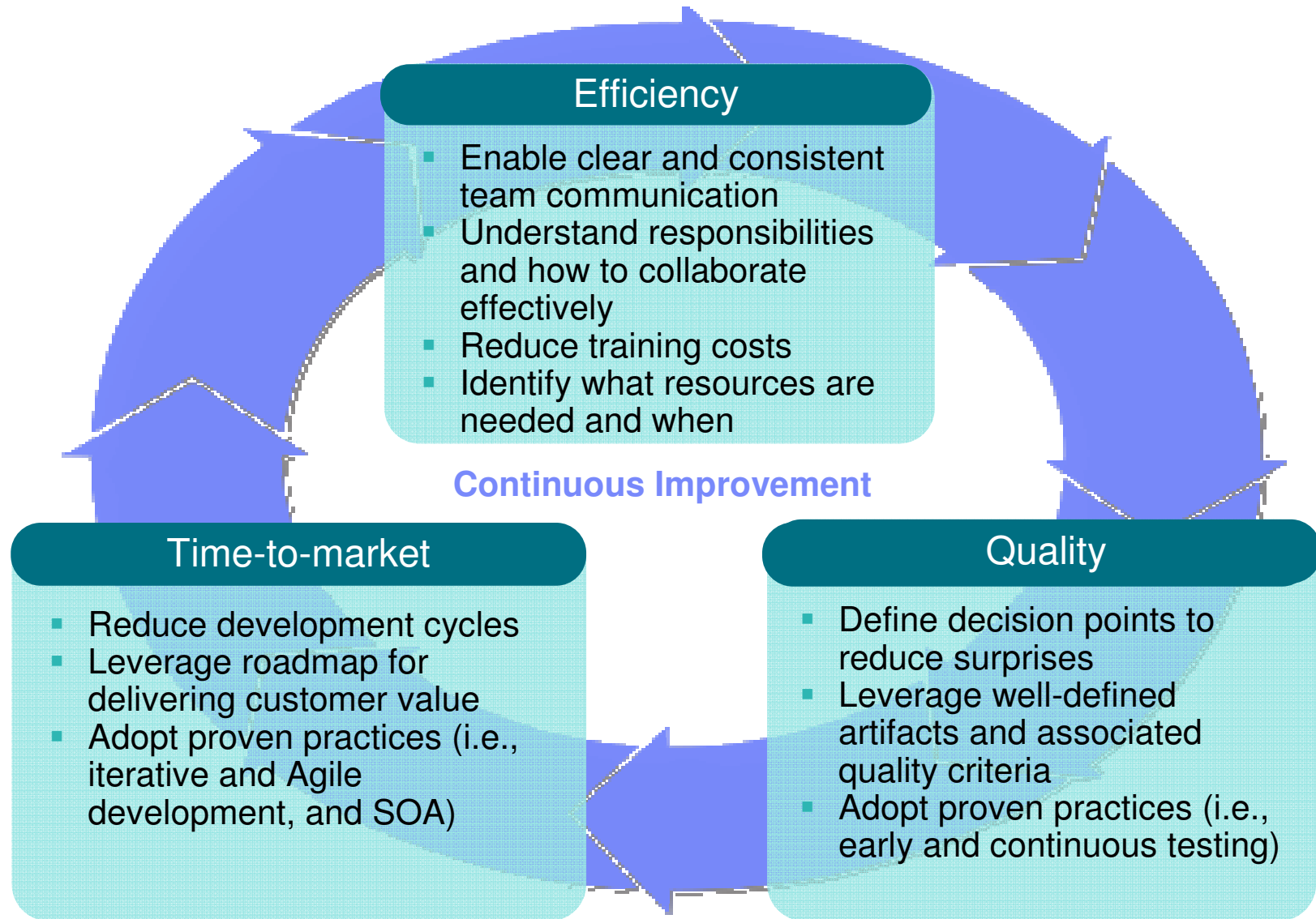- Solution / Platform Overview

- Customer Success

What Challenges are you Facing with your Current Process?

- Current processes loosely defined, preventing effective deployment as well as auditing

- Redundancy and inconsistencies

- Takes time to develop and maintain

- Doesn't effectively drive business requirements

- Too restrictive

- Cannot easily be customized for different projects or new best practices

- Difficult to execute major program/project rollout quickly due to lack of process or too much process

- No central community or communication framework to facilitate convergence of best practices across domains
  - ▸ Knowledge is contained within individuals

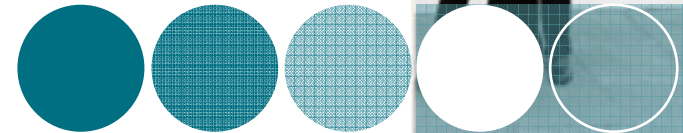- Lack of clear roles & responsibilities

Why is Process Important?

Efficiency

- Enable clear and consistent team communication
- Understand responsibilities and how to collaborate effectively
- Reduce training costs
- Identify what resources are needed and when

Continuous Improvement

Time-to-market

- Reduce development cycles
- Leverage roadmap for delivering customer value
- Adopt proven practices (i.e., iterative and Agile development, and SOA)

Quality

- Define decision points to reduce surprises
- Leverage well-defined artifacts and associated quality criteria
- Adopt proven practices (i.e., early and continuous testing)

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Process Management Solutions for Business / Operational Challenges

- **Project Execution**

  ▶ *"We have problems delivering projects on time, on budget, and meeting all high priority requirements. There is no consistency or predictability."*

- **Compliance Audits**

  ▶ *"It's a nightmare every time we're audited. Demonstrating our process to the auditor is laborious, time-consuming and painful."*

- **Process Improvement**

  ▶ *"We know our process isn't working. We know we need to change it. We're just not sure what is the right process, how to effect that change and get everyone to follow it."*

- **Outsourcing / Distributed Development**

  ▶ *"Budget was just cut 40% and we need to outsource. How do we communicate our process to the outsource vendor? If we don't, they're going to charge a premium."*

- **Process Deployment / Execution**

  ▶ *"We have a great process, but it is too expensive to maintain, and we are not effectively deploying it."*

Project Execution Solution

**Project Manager
CIO/CTO**

- Apply proven practices for consistency and predictability
  - ▶ Consistent terminology, flexible resourcing, improved reuse / sharing, improved oversight
  - ▶ Provide a clear delineation of who does what, when
  - ▶ Covers a broad variety of project types and organizations
- Effectively deploy practices
  - ▶ Provide assistance on learning new tools and technology
  - ▶ Supported by effective learning, consulting, and tight tool integration

Specific Rational Method Composer Capabilities

New! ▶ Industries broadest collection of practices, with a dozen out-of-the-box processes for different project types
- Harvesting what has driven success in thousands of projects
- Clearly defines who does what, and how

New! ▶ Tight integration with development platform

▶ Supported by comprehensive learning curriculum

▶ Supported by a broad set of services offerings from partners and IBM

Compliance Audit Solution

Project Manager
CIO/CTO

- Compliance is about 3 things:

  ▸ **Say what you do** => Document your process with RMC, start with one of our dozen out-of-the-box processes, and tailor to fit your desired working procedure

  ▸ **Do what you say** => Easy-to-navigate process guidance tightly integrated with tools, and supported by broad curriculum

  ▸ **Prove it!** => Aided by Rational Software Delivery Platform and RUP for Compliance Management

Specific Rational Method Composer Capabilities

  ▸ RUP for Compliance Management - How to more effectively pass audits

  New! ▸ RUP for SEI CMMI - Describes what parts of RUP addresses what Process Areas (PA) for SEI CMMI level 2

  New! ▸ IBM Tivoli Unified Process (ITUP) and Rational Unified Process (RUP) connect development and IT operation processes – Good ITIL support

  ▸ RMC Tailoring - Tailor the process for your project to 'say what you do'

  New! ▸ RMC Reporting - Allows you to provide documentation to auditors on what they should audit you on
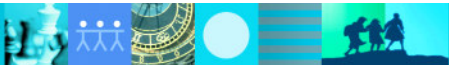
RUP & Rational Tools Coverage Mapping (Level 2)
## *IBM Rational Unified Process with CMMI Compliance Support Plug-in*

CMMI Maturity Level

OPTIMIZING (5) Focus on process improvement

Quantitatively MANAGED (4) Process measured and controlled

DEFINED (3) Process characterized for organization, is proactive

Qualitatively MANAGED (2) Process characterized for projects, often reactive

INITIAL (1) Process unpredictable, poorly controlled, reactive

CMMI (staged) Process Area

Coverage summary
CMMI v1.2 Maturity Level 2 (staged) Process Areas in relation to the RUP and IBM Rational Tools

CMMI is the "WHAT," the RUP is the "HOW"
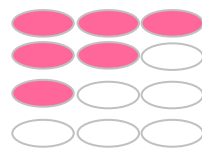
⬭⬭⬭ **Fully realized by implementing Rational RUP/Tools**
⬭⬭◯ Mostly supported, additional technologies may be necessary
⬭◯◯ Limited applicability by Rational RUP/Tools
◯◯◯ **P**rocess **A**rea not supported directly by Rational Tools

RUP + Rational Tools Support | ***Most Applicable IBM Rational Tools which support this Process Area**

(2)	Process Area	Support	*Most Applicable IBM Rational Tools
REQM	Requirements Management	⬭⬭⬭	ReqPro, Rose, RSA, RSM, RSD, RPM, PjC, SoDA, RFT, RPT, RMT,CQTM
PP	Project Planning	⬭⬭⬭	RPM, PjC, CQ/MS, CQTM, CC/MS
SAM	Supplier Agreement	⬭⬭◯	RUP+COTS Plug-in, Progressive Acquisition Plug-in, SoDA, CQ/MS, CQTM, CC/MS
CM	Configuration Management	⬭⬭⬭	CC/MS, CQ/MS, UCM, BF, CQTM
PMC	Project Monitoring and Ctl	⬭⬭⬭	RPM, PjC, SoDA, CQ/MS, CC/MS
PPQA	Process/Product QA	⬭⬭⬭	RPM, CQ/MS, ReqPro, RFT, RPT, RMT, Purify, Robot, TestRT, PjC, SoDA
MA	Measurement/Analysis	⬭⬭◯	RUP+PSM Plug-in, PjC, CQ/MS, CQ/MS, CQTM, SoDA

* RUP and RMC support all these Process Areas

Process Improvement Solution

- Results gained with Rational Method Composer

  ▸ Ability to transition to Service Oriented Architecture (SOA)

  ▸ Effectively govern services assets with SOA

  ▸ Incrementally adopt Agile

  ▸ Gain visibility into Agile projects

  ▸ Effectively adopt asset-based development and Rational Asset Manager (RAM)

Project Manager CIO/CTO

Specific Rational Method Composer Capabilities

▸ SOA Governance and Management Method (SGMM) for introducing and governing SOA initiatives

▸ RUP for Service-Oriented Modeling and Architecture (SOMA)

▸ Lightweight versions of RUP adopted in agile fashion (RUP for Small Project, RUP for Maintenance, etc.)

New! ▸ RUP for Asset Based Development (ABD) for IBM Rational Asset Manager (RAM) for producing, consuming & managing reusable assets

New! ▸ Asset Governance to manage and control key investments

Outsourcing / Distributed Development Solution

- Results gained with Rational Method Composer

  - A common way of working

  - Understand who is working on what

  - Effective transfer of information between sites

  - Effectively use tools for distributed development

**Project Manager
CIO/CTO**

Specific Rational Method Composer Capabilities

New! ▸ RUP for Global Development & Delivery (GDD) for new development

New! ▸ RUP for GDD for maintenance projects

▸ Guidance on effective usage of IBM Software Delivery Platform

New! ▸ RMC supports distributed process workspaces enabling local process management as well as corporate level process reuse

Connecting Process & Products to GDD Business Challenges

Product	Address Challenge(s)	Providing Features	Achieve Benefit(s)
Rational Unified Process	▪ Communication & Collaboration ▪ Process, Workflow & Development	▪ Provides guidelines, best practices & common process ▪ Communicates workflows & interactions through diagrams ▪ Browser-based providing accessibility for all users	▪ Lower development costs ▪ Decrease time to market ▪ Increase competitive edge
Rational Professional Bundle, Rational Manual Tester, Rational Functional Tester , Rational Performance Tester, Rational Software Modeler	▪ Communication & Collaboration ▪ Process, Workflow & Development	▪ Provides Visual Models to communicate project architecture & flow ▪ Creates test plans based on requirements ▪ Communicate models to all stakeholders via web publishing	▪ Lower development costs ▪ Decrease time to market ▪ Increase competitive edge ▪ Increase staff productivity ▪ Improve quality
Rational ClearQuest, Rational ClearQuest MultiSite, Rational ClearCase, Rational ClearCase MultiSite	▪ Communication & Collaboration ▪ Process, Workflow & Development	▪ Manages assets across sites ▪ Supports parallel development ▪ Lets you customize workflow ▪ LAN, remote and WAN access to functionality & data	▪ Decrease time to market ▪ Increase staff productivity ▪ Improve quality
Rational RequisitePro	▪ Communication & Collaboration ▪ Process, Workflow & Development	▪ Manages & tracks requirements ▪ Communicate requirement changes ▪ Web interface for remote users ▪ Associates requirements with models & test cases	▪ Increase staff productivity ▪ Lower development costs ▪ Increase competitive edge ▪ Improve quality

Connecting Process & Products to GDD Business Challenges

| Product	Address Challenge(s)	Providing Features	Achieve Benefit(s)
Workplace Collaboration Services	• Communication & Collaboration	•Creates virtual team & project environment •Communication via discussion groups, email, instant messaging •Browser-based & mobile access to team spaces, presence & instant messaging	• Increases staff productivity • Decrease time to market • Increase quality
Rational ProjectConsole (part of the Team Unifying Platform)	• Project & Portfolio Management • Communication & Collaboration	•Tracks measures for each discipline at each location •Monitors progress & quality through quantitative analysis •Project information & dashboard accessed by a single website	• Decrease time to market • Increased staff productivity • Improve quality
Rational Portfolio Manager	▪ Project & Portfolio Management	•Assesses & manages distributed resources •Tracks application portfolio budget, labor and scope	• Decrease time to market • Increase staff productivity • Improve quality • Increase competitive edge

Processes Deployment Solution

- Results gained with Rational Method Composer

  ▸ Teams are leveraging and using the deployed process

  ▸ Consolidation of many processes

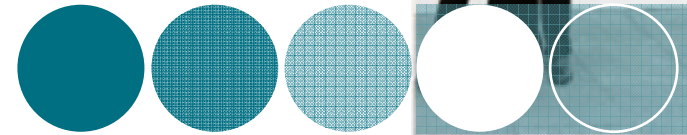 ▸ Ability to continuously modernize processes

**Project Manager
CIO/CTO**

Specific Rational Method Composer Capabilities

  ▸ RMC is a great tool for capturing, configuring, and deploying a process

  New! ▪ Greatly improved look & feel of published processes, incl. Web server publishing

  New! ▪ Simplified UI for project managers for simple customizations of process

  ▪ Integrations with project management and practitioner tools

  ▸ Rational Process Library

  New! ▪ Leverage our process assets to strengthen your own process

  ▪ Leverage downloadable process plug-ins from a broad eco-system
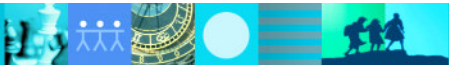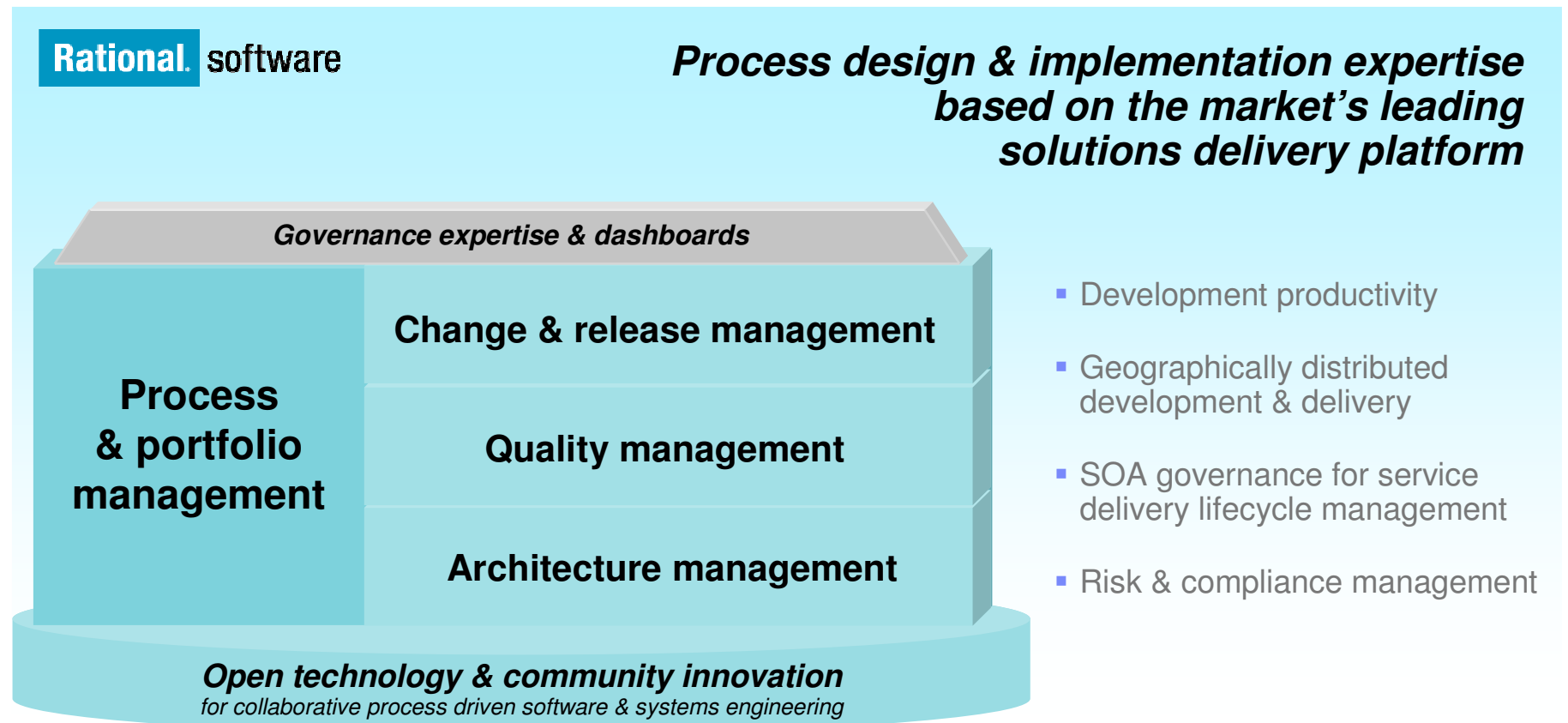
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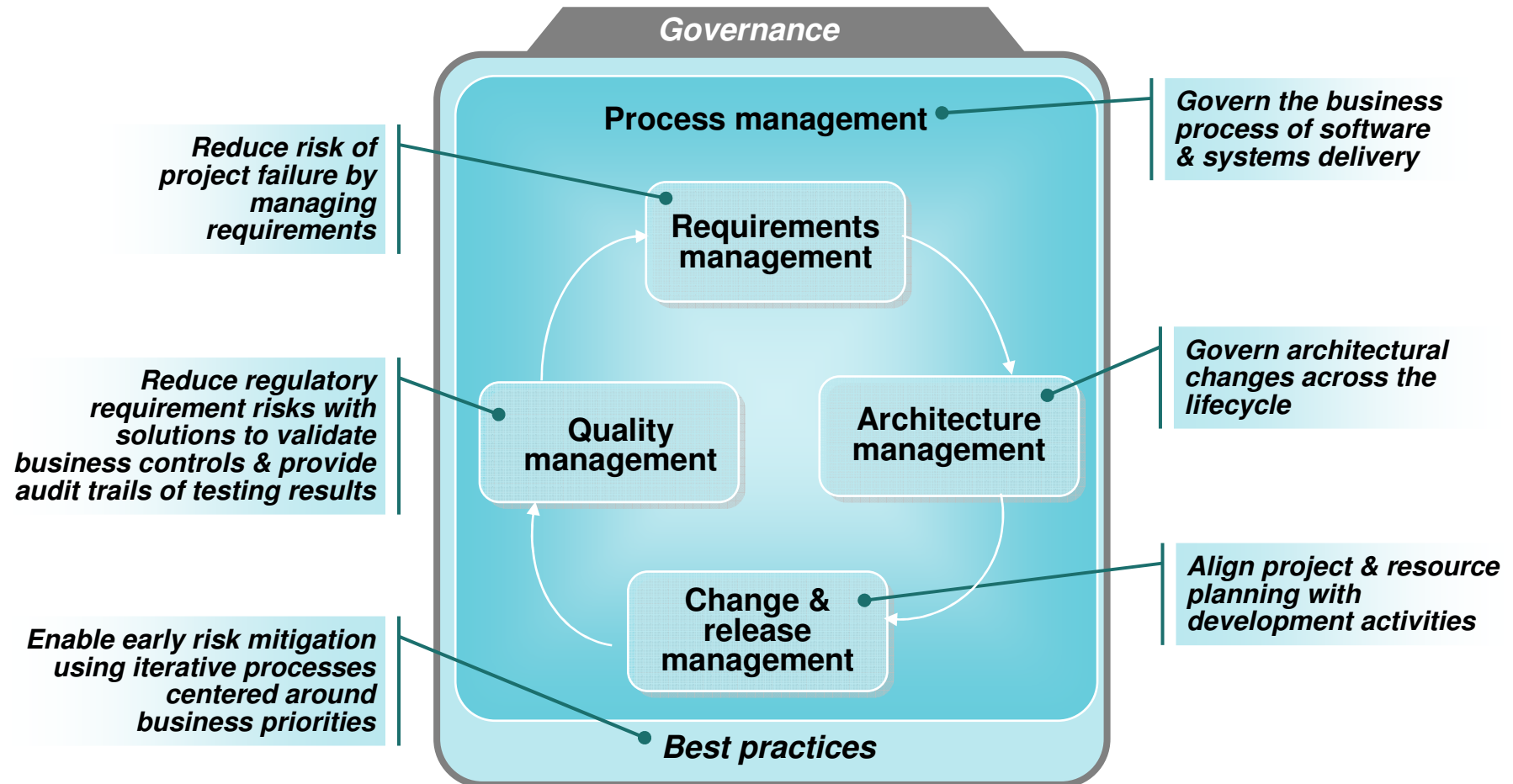- Solution / Platform Overview

- Customer Success

IBM Rational Software Delivery Platform
What we offer

Rational. software

Process design & implementation expertise based on the market's leading solutions delivery platform

Governance expertise & dashboards

Process & portfolio management

Change & release management

Quality management

Architecture management

Open technology & community innovation
for collaborative process driven software & systems engineering

- Development productivity

- Geographically distributed development & delivery

- SOA governance for service delivery lifecycle management

- Risk & compliance management

An Integrated View across the Lifecycle
Aligning business goals, best practices, and projects for improved productivity and predictability

Governance

Process management

Govern the business process of software & systems delivery

Requirements management

Reduce risk of project failure by managing requirements

Reduce regulatory requirement risks with solutions to validate business controls & provide audit trails of testing results

Quality management

Architecture management

Govern architectural changes across the lifecycle

Change & release management

Align project & resource planning with development activities

Enable early risk mitigation using iterative processes centered around business priorities
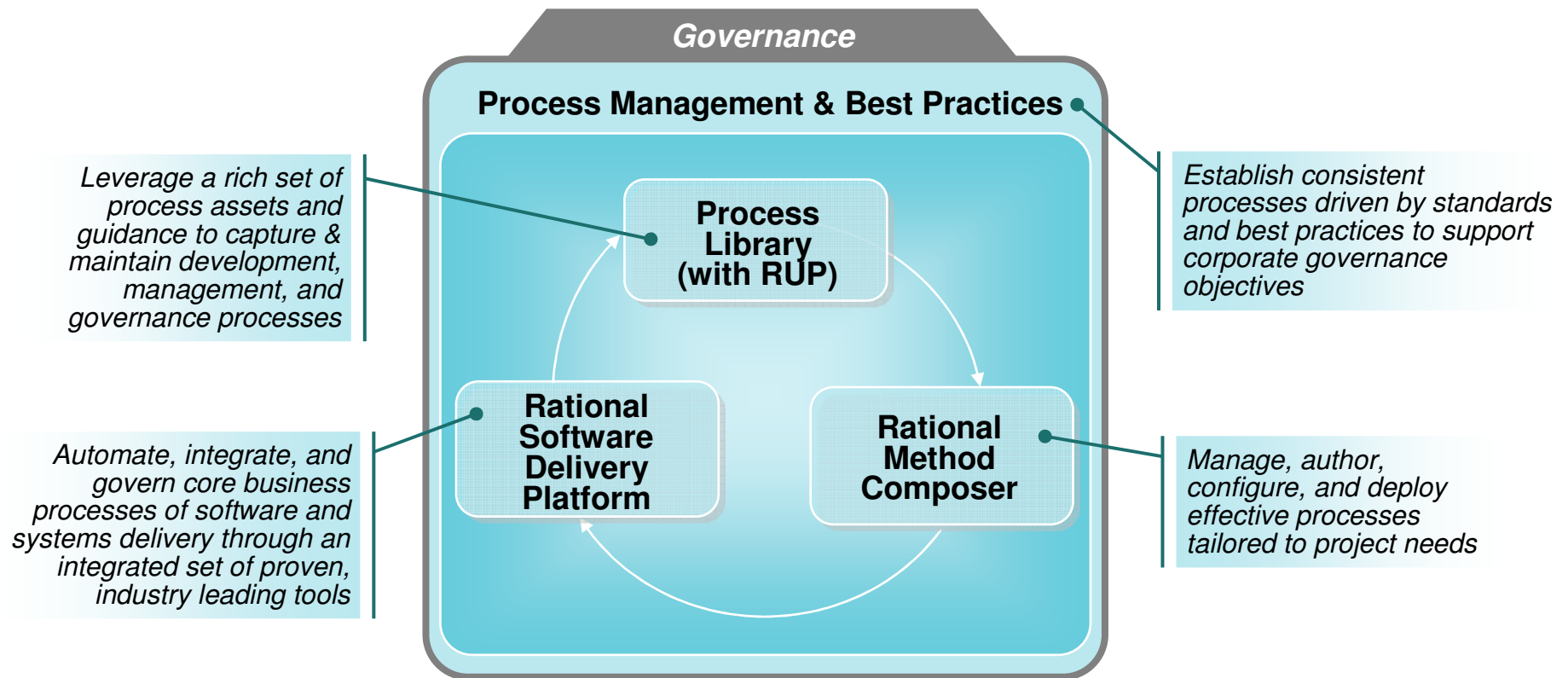
Best practices

Result: Enables project managers and executives to have greater visibility and insight across the end-to-end lifecycle driving greater efficiency of diverse project teams

Process Management

Create, customize, publish, and enact software & systems development processes according to project needs

Governance

Process Management & Best Practices

Process Library (with RUP)

Rational Software Delivery Platform

Rational Method Composer

Leverage a rich set of process assets and guidance to capture & maintain development, management, and governance processes

Automate, integrate, and govern core business processes of software and systems delivery through an integrated set of proven, industry leading tools

Establish consistent processes driven by standards and best practices to support corporate governance objectives

Manage, author, configure, and deploy effective processes tailored to project needs

Rational Process Library   Improved!
Broad variety of method plug-ins included in Rational Method Composer

Enterprise plug-ins

- ▸ ***IBM Rational Unified Process, or RUP***
- ▸ IBM Rational Method for Portfolio Management (for Initiatives)
- ▸ IBM Rational Method for Program Mobilization
- ▸ IBM Tivoli Unified Process (ITUP)
- ▸ RUP for Asset-Based Development
- ▸ RUP with ITSM/ITUP Connection
- ▸ RUP for Global Development and Delivery
- ▸ RUP for Global Development and Delivery Maintenance

Solution-specific plug-ins

- **SOA:**
  - ▸ RUP for Service-Oriented Modeling and Architecture
- **Governance:**
  - ▸ SOA Governance
  - ▸ Asset-Based Governance
  - ▸ RUP for Practical Software & Systems Measurement (PSM)
- **Compliance:**
  - ▸ RUP for Compliance Management
  - ▸ RUP for CMMI® Compliance Support

Project-specific plug-ins

- RUP for COTS Package Delivery
- RUP for System z
- RUP for Maintenance Projects
- RUP for Legacy Evolution
- RUP for Model-Driven Systems Development (MDSD)

Standard-specific plug-ins

- RUP for Department of Defense Architecture Framework (DoDAF)

Practice-specific plug-ins

- RUP for User Experience Modeling

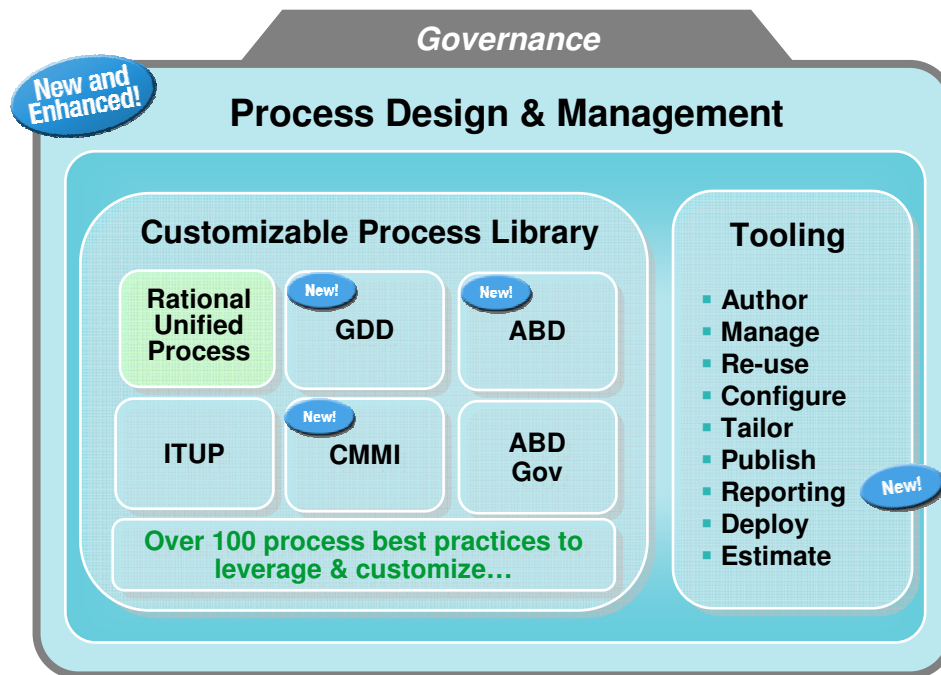**Technology/tool-specific plug-ins**

- RUP for Microsoft® .NET
- RUP for J2EE™
- RUP for Rational Application Development
- RUP for Rational Software Architect
- RUP Plug-in for WebSphere® Business Modeler (beta)
- RUP for Automated Software Quality
  - ▸ (Rational Performance Tester, Functional Tester, and Manual Tester)

Now a library of over **100 content packages!**

A collection of out-of-the-box method content and processes that you can customize to address a diverse set of enterprise and project needs and development styles

Rational Method Composer v7.5
Putting process best practices to work

Process Design & Management

Governance

New and Enhanced!

Customizable Process Library

- **Rational Unified Process**
- **New!** GDD
- **New!** ABD
- ITUP
- **New!** CMMI
- ABD Gov

Over 100 process best practices to leverage & customize…

Tooling

- **Author**
- **Manage**
- **Re-use**
- **Configure**
- **Tailor**
- **Publish**
- **Reporting** **New!**
- **Deploy**
- **Estimate**

Result: Easier, more effective deployment of customized and adaptable process best practices

New process best practices

▶ **New** IBM Tivoli Unified Process (ITUP) & Rational Unified Process (RUP) integration

▶ **New** RUP for global distributed development

▶ **New** CMMI level 2 with CMMI & RUP mapping

▶ **New** Asset Based Development (ABD) process for producing, consuming & managing reusable assets

▶ **New** Asset Governance to develop & manage asset investments

Tooling enhancements

▶ **Improved** authoring & scaling capabilities

▶ **New** WebSphere Business Modeler integration to analyze & simulate processes

▶ **Simplified** user interface enabling project managers to tailor processes

▶ **New** reporting capabilities for development metrics and compliance management

▶ **New** simplified deployment and management

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Go to **IBM**

Additional Info: Online Resources

- **Rational Method Composer ibm.com home page**

- **Rational Method Composer developerWorks page**

- **Rational Method Composer Plug-ins**

- **Rational Agile development**

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to activate hyperlinks**