

# **Understanding IBM Rational Method Composer**

Rafal Michalski Rational Technical Sales Specialist rafal.michalski@au1.ibm.com

Rational. software



# Agenda

- Process Management: Its Challenges and Importance
- IBM Rational Method Composer
  - Process authoring
  - Process libraries (RMC Content)
  - Targeting and measuring Your success (MCIF)
  - Method communication

**Session Level = Novice** 

Requires little knowledge of RMC or the Process Management domain









Project plan templates

**Book on .NET** 

JUnit user guide

Wiki on agile development

Knowledge base on managing iterative development

Documents on business

continuity

Website with Configuration mgmt guidelines

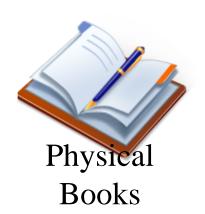
Lessons learnt from previous project and iteration

Service desk policies

Corporate guidelines on compliance



















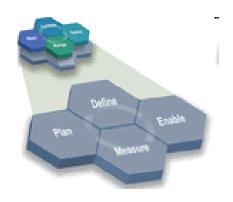




# Why Is Process Management Important?

#### Governance

- Without general concurrence in the organization about what your processes are how can anyone in the organization...
  - Agree that 'what is supposed to be done, isn't being done'?
  - Qualitatively or quantitatively measure project performance?
  - Improve how are things are done?



#### **Productivity**

- (Globally) Distributed development, outsourcing, and so forth implies that the teams now working together likely haven't done so in the past
  - A common process provides all team members a reference point from which to anchor their responsibilities to the team
  - It also provides the project manager and all other team leads a reference from which to have a conversation about the big picture and the immediate tasks at hand
  - Without a defined process tactical benefits can over shadow strategy
    - e.g. "We can do it quicker without requirements, version control, quality gates, ..."















# Challenges in Process Management

#### Communication

- Non centralised repository
- No standards

#### **Usability**

Different formats

#### **Flexibility**

- Rightsizing of process
- Responsiveness

#### **Effective execution**

Disconnect between process engineering and process enactment







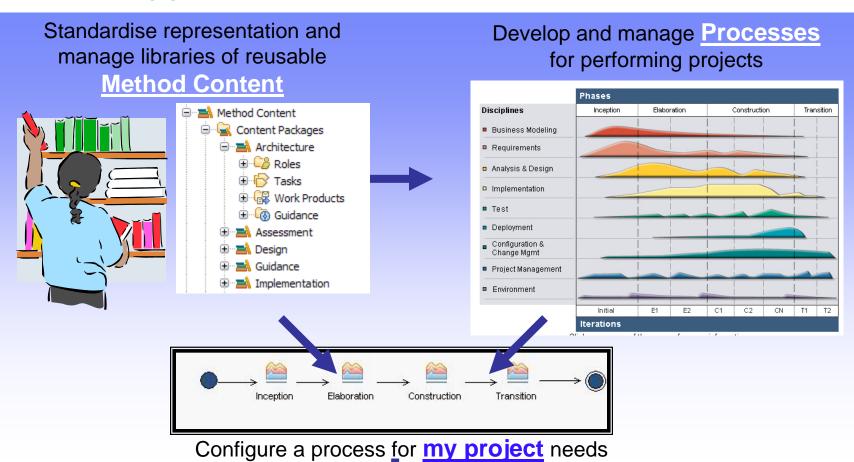








### A Better Approach



Create project plan templates for **Enactment** of process in the context of my project







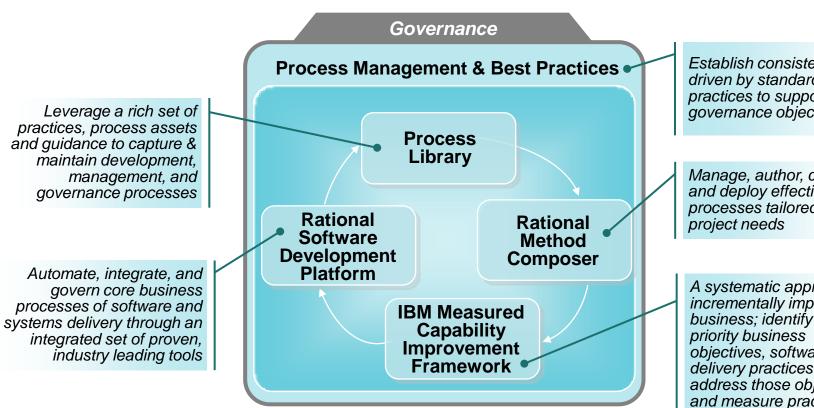






# What is IBM Process Management?

Create, customize, publish, enact and measure software & systems delivery, practices and processes according to project needs



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

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

A systematic approach to incrementally improve your business; identify high objectives, software delivery practices to address those objectives, and measure practice adoption and business results.













# Agenda

- Process Management: Its Challenges and **Importance**
- **IBM Rational Method Composer** 
  - Process authoring
  - Process libraries (RMC Content)
  - Targeting and measuring Your success (MCIF)
  - Method communication











## Presenting IBM Rational Method Composer Overview

#### A library for content

- Holds YOUR methods and process
- Includes the entire Rational Unified Process, or RUP
- Includes additional enterprise methods

#### A standard method and process authoring tool

- **Standard** notation
- Reuse

#### Communication medium

- Publish to web or documents
- Deliver within tool **contextually** and **role based**
- Enforce through project templates

Proven. Practical. Flexible.





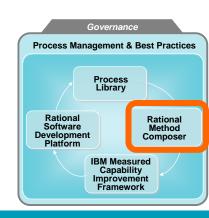






# Agenda

- Process Management: Its Challenges and Importance
- IBM Rational Method Composer
  - Process authoring
  - Process libraries (RMC Content)
  - Targeting and measuring Your success (MCIF)
  - Method communication













# Standard method and process authoring

#### Standard notation

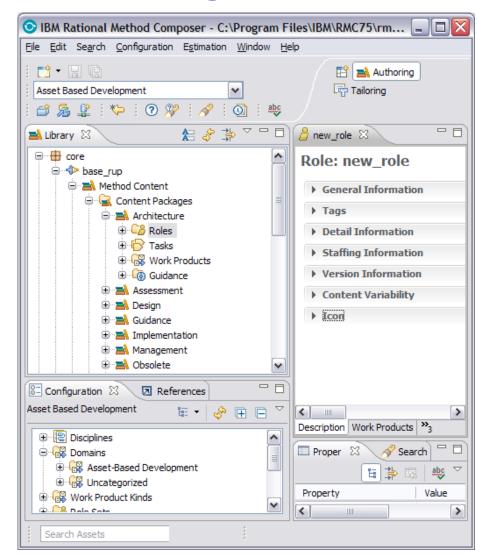
- Allows the capture of all methods and processes across the organisation
- Improves communication in the teams through the use of same language

#### Reuse

Elements can be referenced or reused across many methods/process thus reducing effort in creating new processes and maintain existing ones

#### Integrations

The process across the enterprise can clearly reference each other













## Separating Method Content and Process

A *Method* provides both the descriptions of work and the order of work. A method is end-to-end and is usable on a project. An example of a method is IBM Rational Unified Process (RUP).

#### **METHOD** METHOD CONTENT **PROCESS**

**Method content** is the description of work that can be reused as key building blocks. Method content describes tasks, roles, work products, guidelines, and so on, that are involved in completing work.

**Processes** are the order of doing work. They provide the order for the method content. Processes will differ depending on project type, size, or other characteristic.









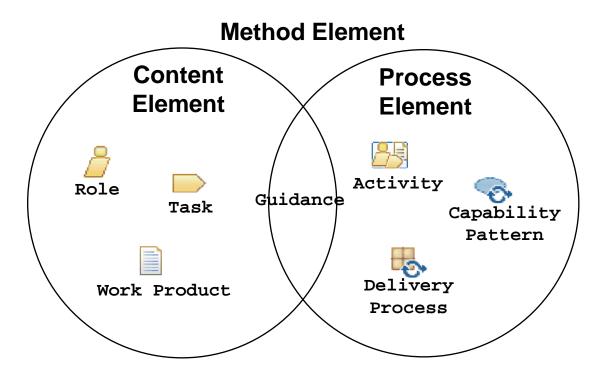






## Depicting Method Content and Process Elements

A method is defined in terms of *Method Elements*.



**Examples of Guidance**: Concept, Example, Template, Tool Mentor, Whitepaper, Roadmap, etc.







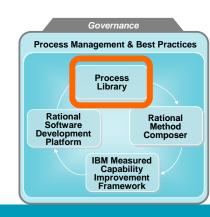






# Agenda

- Process Management: Its Challenges and Importance
- IBM Rational Method Composer
  - Process authoring
  - Process libraries (RMC Content)
  - Targeting and measuring Your success (MCIF)
  - Method communication













#### Methods – Available v7.5

- **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 (GDD)
  - **RUP for GDD 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 CMMI®**

#### **Project-specific plug-ins**

- RUP for System z
- **RUP for Legacy Evolution**
- RUP for Maintenance Projects
- **RUP for COTS Package Delivery**
- RUP for Model-Driven Systems Development (MDSD)
- Technology/tool-specific plug-ins
  - **RUP for Rational Application Development**
  - RUP for Rational Software Architect
  - RUP for WebSphere® Business Modeler (beta)
  - RUP for Automated Software Quality (Rational Performance Tester, Functional Tester, and Manual Tester)
- Standard-specific plug-ins
  - **RUP for Department of Defense Architecture** Framework (DoDAF)

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















#### IBM Practices – New for v7.5

Address one aspect of the software lifecycle e.g., continuous integration, use-case driven development, performance testing, etc.

- Can be incrementally and independently adopted
- Can be mapped to operational objectives and development pain points
- Adoption can be measured

# Requirements Management Shared Vision Business Process Sketching Use Case Driven Development Requirements Management Agile Core Iterative Development Two-Level Project Planning Whole Team Continuous Integration Test Driven Development Requirements Management

Architecture Management

Evolutionary Architecture

Component Based Software

Evolutionary Design

Architecture

Implementation

Design Driven

**Quality Management** 

Concurrent Testing

Test Management

Assessment

Performance Testing

Independent Testing

Application Vulnerability

Governance &

Risk-Value Lifecycle
Practice Authoring & Tailoring

Compliance

#### **Results:**

- Avoids self-inflicting too much process
- √ Faster and more predictable results

http://www.ibm.com/developerworks/rational/practices/

















## **Examine Published IBM Practices**

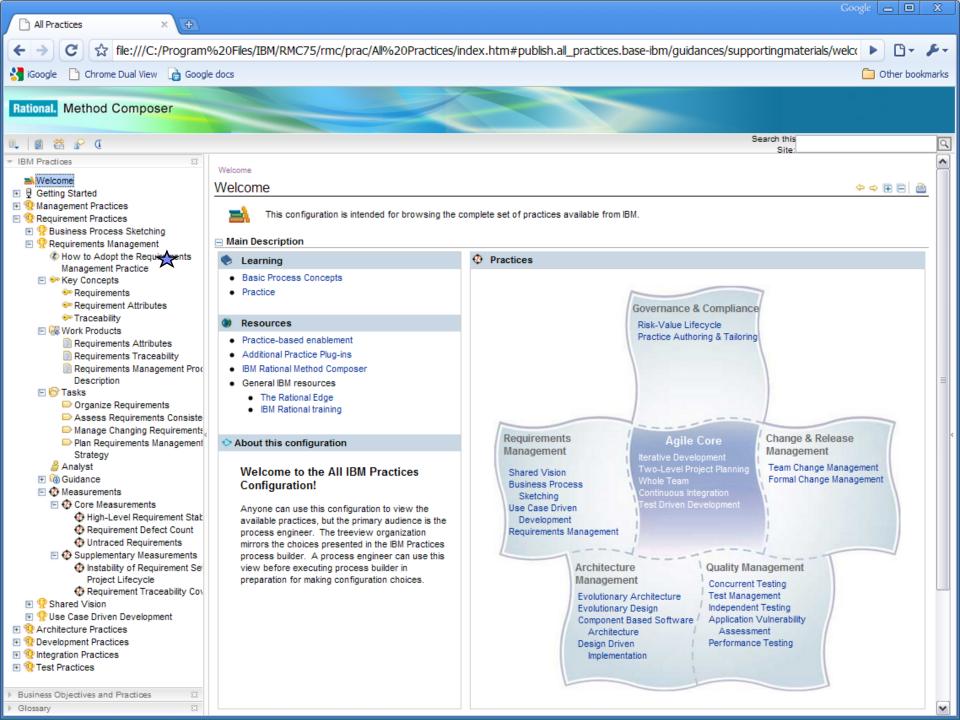


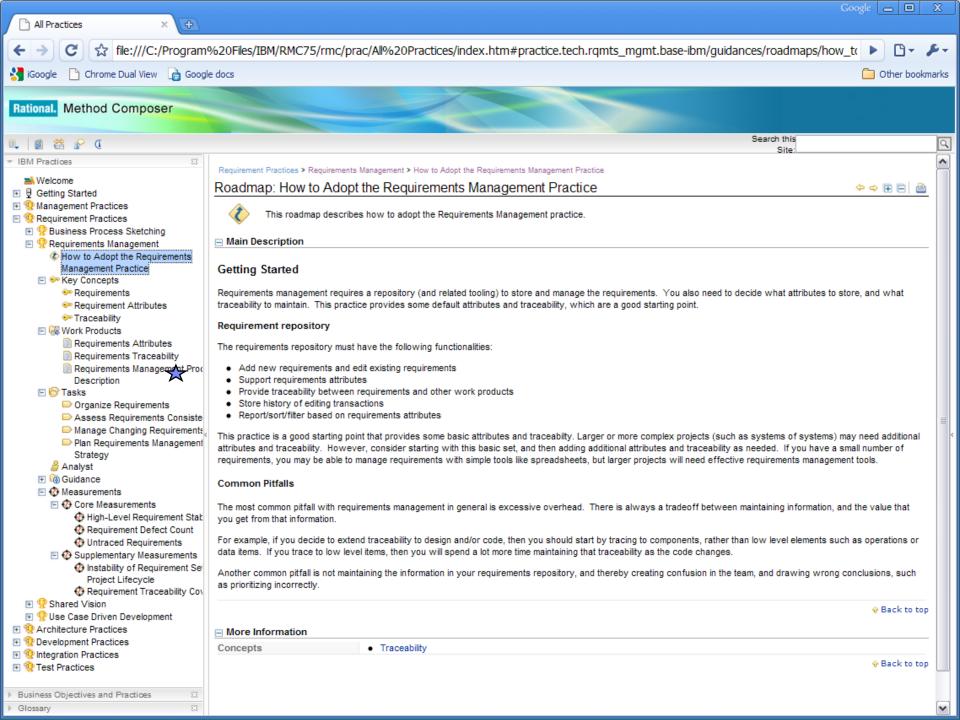


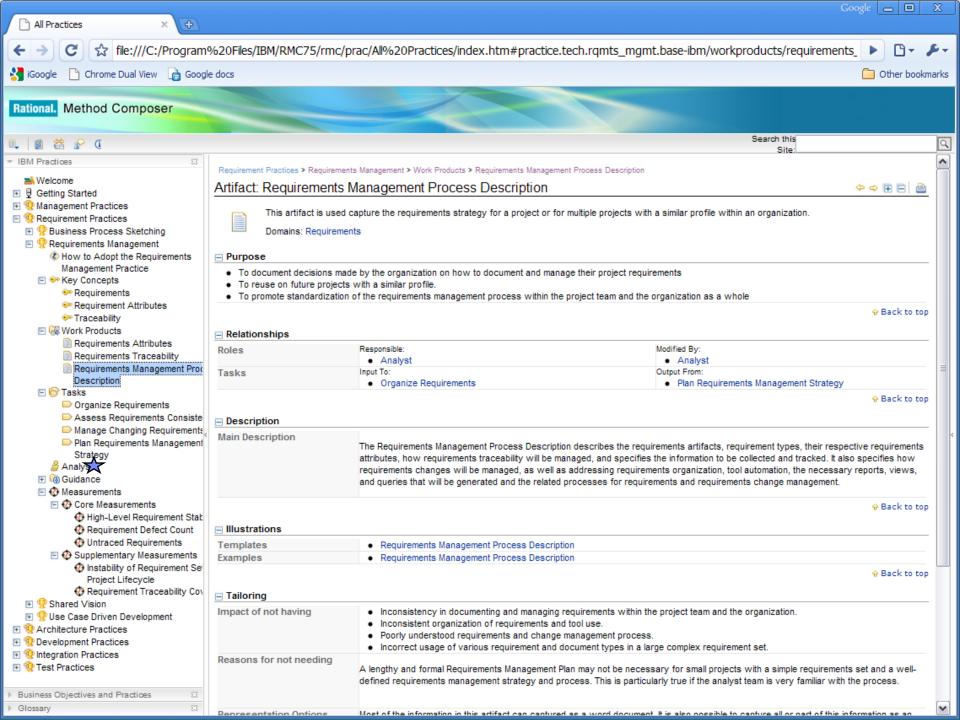


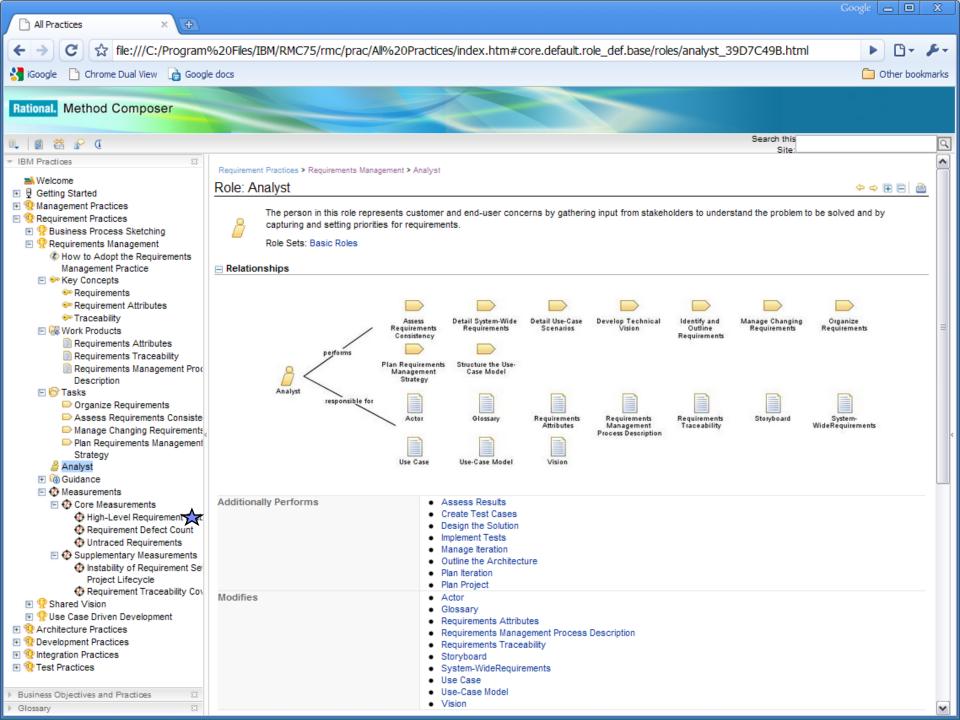


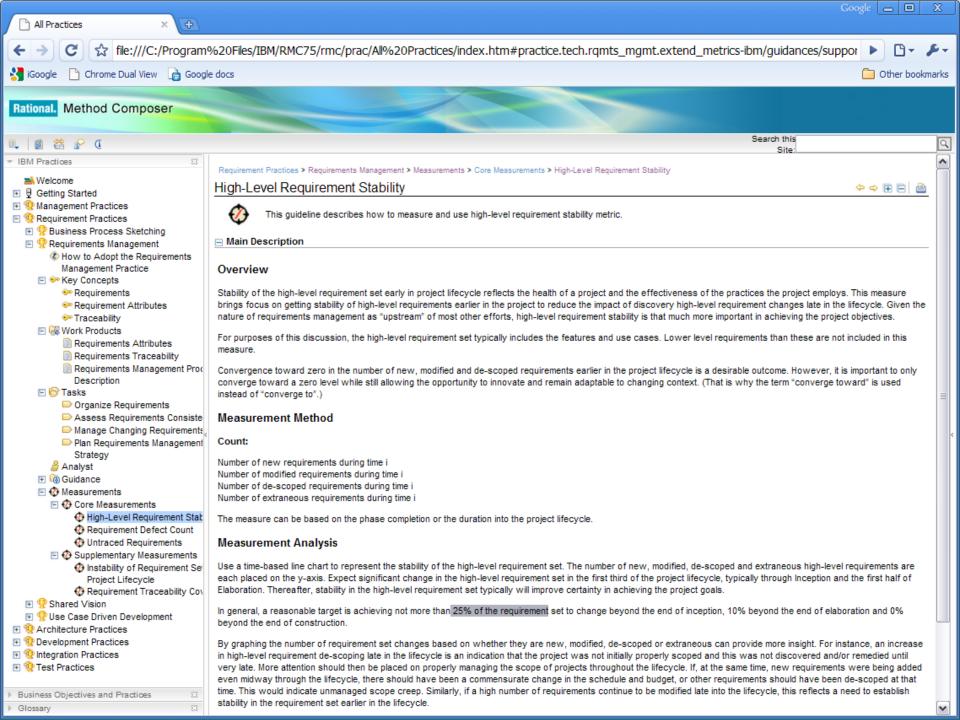












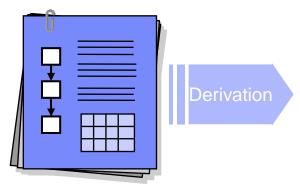


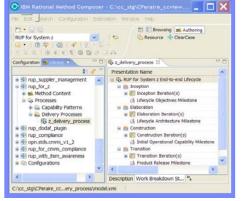
#### Methods – New for v7.5

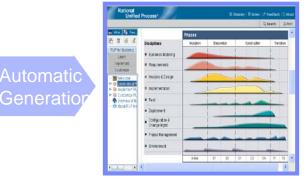
Method Authoring Method (MAM)

#### Follow an iterative RMC-published process to create new processes

Three key method authoring work products:







Automatic

Method Sketch Draft of the method

(RMC) Method Definition Formal definition of the method

**Method Web Site** Published web site

The method constituents

(drafted in **Method Sketch**, formally defined in **Method Definition**, published in **Method Web Site**) are the **Method Elements** 







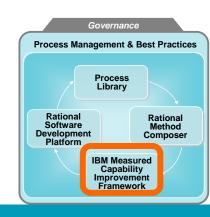






# Agenda

- Process Management: Its Challenges and Importance
- IBM Rational Method Composer
  - Process authoring
  - Process libraries (RMC Content)
  - Targeting and measuring Your success (MCIF)
  - Method communication













## IBM Measured Capability Improvement Framework

A systematic approach to software excellence

- A phased approach that helps teams
  - Adopt an incremental, measured approach to transformation
  - Focus on the core practices that matter most
  - Accelerate adoption through out-of-the-box assets
  - Articulate capability improvements in terms of business value
  - Support any method
    - Optimized for Agile practices



Empower teams to measure, manage and incrementally improve their software delivery capability.





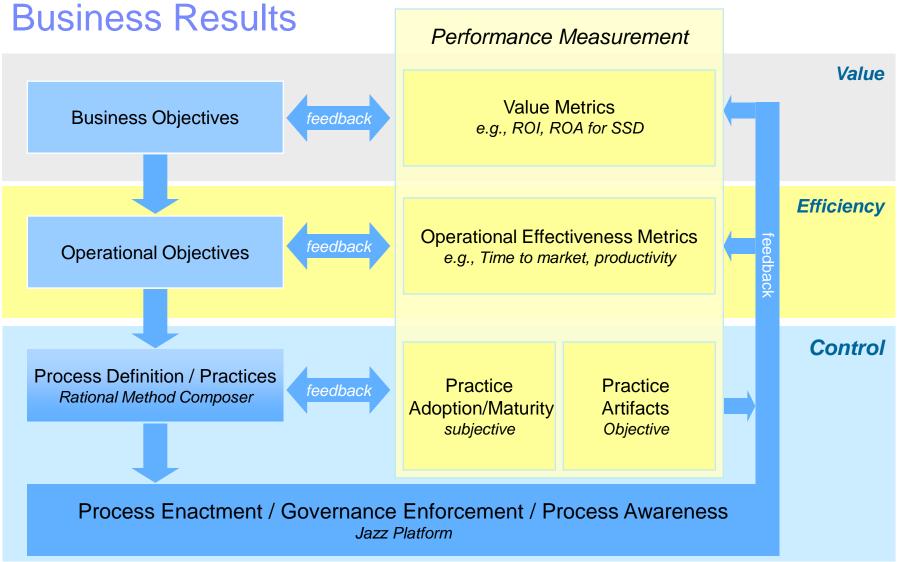








Leverage a Control Framework to Manage to Expected









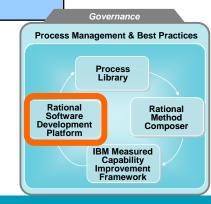






# Agenda

- Process Management: Its Challenges and Importance
- IBM Rational Method Composer
  - Process authoring
  - Process libraries (RMC Content)
  - Targeting and measuring Your success (MCIF)
  - Method communication





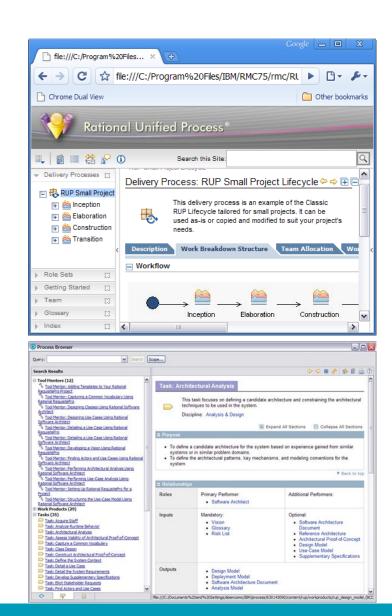






### **Ensure adoption**

- Publish to web or documents
  - Ensure the content is broadcast and accessible to the team
- Deliver within tool contextually and role based
  - Make adoption of the process easy by delivering it in the tool of choice (Visual Studio, Rational/Eclipse)
- Enforce through project templates
  - Export work breakdown structures for project managers to ensure everyone is on the same page







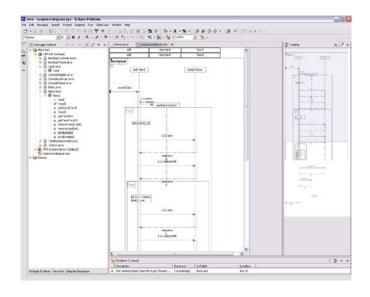






## Integrations

- Eclipse
- MS Visual Studio
- MS Project
- Websphere Business Modeler







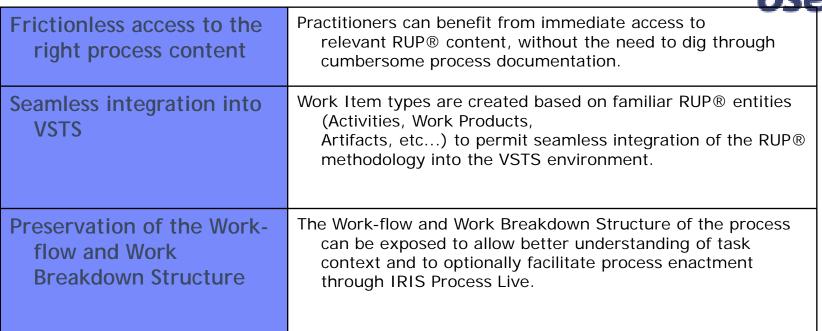


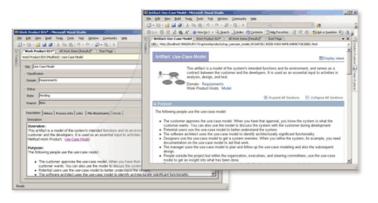






# Visual Studio Integration















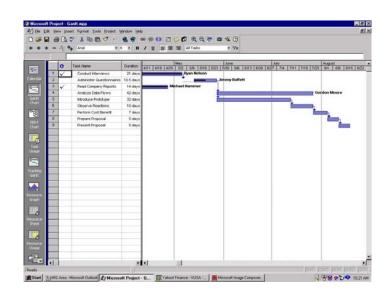


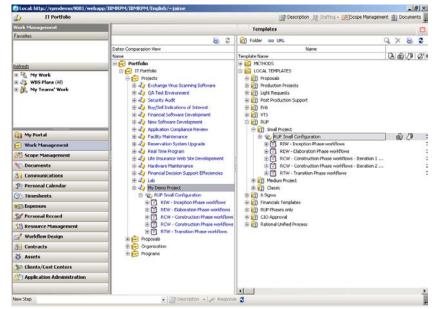




## Integrations

- Eclipse
- MS Visual Studio
- MS Project
- Websphere Business Modeler













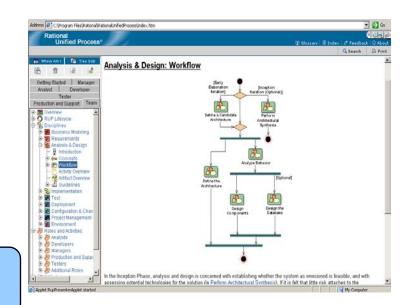


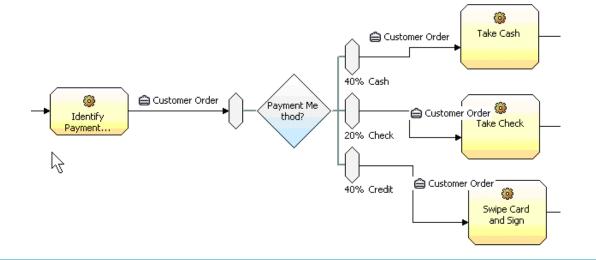




## Integrations

- **Eclipse**
- MS Visual Studio
- **MS** Project
- Websphere Business Modeler

















#### Tomorrow 14:15 - 15:00

#### Help! We Have All This Information ... Now What?

This session looks at the planning, preparation & steps that were taken by the process team to ensure the transition to RMC was as smooth as possible. Taleen Armen. QBE











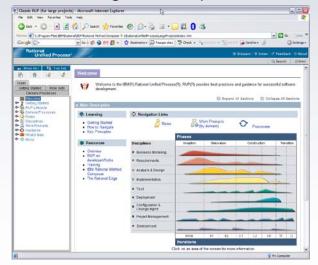






# Method Authoring Capabilities Author, configure, publish

- Key Capabilities
- Extend out-of-the-box method content and processes
- Create new content
- Easy form-based authoring
- Configure and publish to website





- Apply enterprise practices (e.g., governance, compliance, portfolio management) immediately
- Build resilient software and systems with the most current development practices from a library of continually evolving processes
- Reuse and customise proven processes to fit individual project needs
- Provide easy access to the process through website navigation















#### **IBM.com** Resources

- IBM Rational Method Composer Product Page
  - Overview, Datasheet, Trial Download
  - http://www.ibm.com/software/awdtools/rmc/index.html
- IBM Rational Method Composer and RUP resource library
  - Analyst reports, books, case studies, webcasts, white papers
  - http://www.ibm.com/software/awdtools/resources/rmc.html
- IBM Rational Method Composer and RUP on developerWorks
  - ▶ Plug-in information, additional technical info, discussion forum, course info
  - http://www.ibm.com/developerworks/rational/products/rup
- IBM Rational Method Composer and RUP articles in the Rational Edge e-zine
  - http://www.ibm.com/developerworks/rational/rationaledge/archives.html













© 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, Telelogic, the Telelogic 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.









