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SOA Governance
Rational Method Composer

Francis Geysermans
SOA Architect

What is governance?

Establishing **chains of responsibility, authority and communication to** empower **people (decision rights)**

Establishing **measurement, policy and control mechanisms to** enable **people to carry out their roles and responsibilities**

What is Governance?

It's all part of Corporate Governance

What is IT governance?

Establishing decision making rights associated with IT

Establishing mechanisms and policies used to measure and control the way IT decisions are made and carried out

What is SOA governance?

Extension of IT governance focused on the lifecycle of services **to ensure the business value of SOA**

SOA Governance is a catalyst for improving overall IT governance

Rational Method Composer

- **What is Rational Method Composer?**
  - A next generation process solution with ***tooling***, ***process libraries***, and ***unified method architecture***
  - It's a tool that enables you to create and publish a method that is usable and useful on your projects.
- **How does Rational Method Composer help you to do this?**
  - It supports a broad set of project types (small, medium, large, packaged application development, maintenance).
  - It addresses enterprise needs (business, process, and systems engineering content).
  - It allows you to reuse or customize pieces of existing content, as well as to add new content.
  - It allows you to use your content to organize and publish a method Web site.
  - It bridges the gap between process and project management by integrating with Rational Portfolio Manager (RPM).

IBM® Rational® Method Composer 7.1

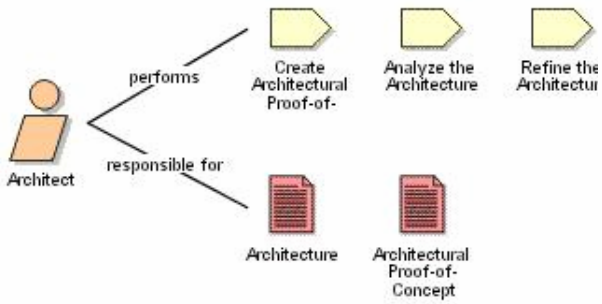
The IBM Rational Method Composer 7.1 package contains

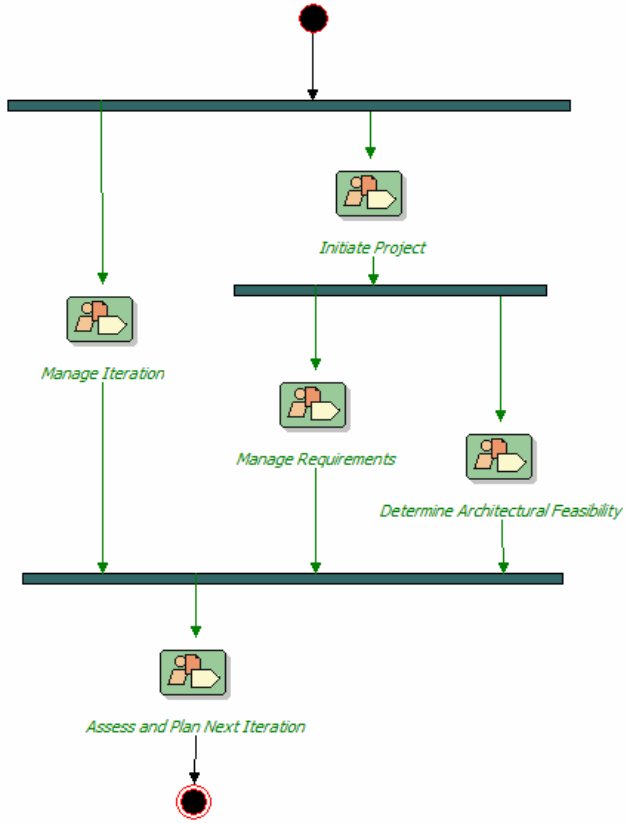
- **IBM Rational Method Composer 7.1 tool *(the focus of this section)***
- **Method Library with the following plug-ins**
  - Rational Unified Process *(used for examples, exploration and labs in this course)*
  - Base Concepts
  - RUP Formal Resources
  - RUP Informal Resources
  - Business Modeling
  - Service-Oriented Architecture
  - RUP for J2EE
  - Rational Software Architect
  - Legacy Evolution
  - Rational Application Development
- **Published RUP Configurations**
  - RUP for Large Projects
  - RUP for Small Projects

Role, Tasks, and Artifacts

Activity Diagram

Work Breakdown Structures





Presentation Name	Index
Basic Unified Process	0
Inception Phase - Iteration n	1
Manage Iteration	2
Initiate Iteration	3
Conduct daily meetin	4
Initiate Project	5
Define Vision	6
Plan the Project	7
Manage Requirements	8
Describe Requiremen	9
Find and Outline Acto	10
Detail Use Cases	11
Determine Architectural F	12
Analyze the Architecu	13
Create Architectural	14
Assess and Plan Next Ite	15
Assess Results	16
Prioritize Work	17
Plan Next Iteration	18
Refine Project Plan	19

Terminology: Method, Method Content and

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 RUP.

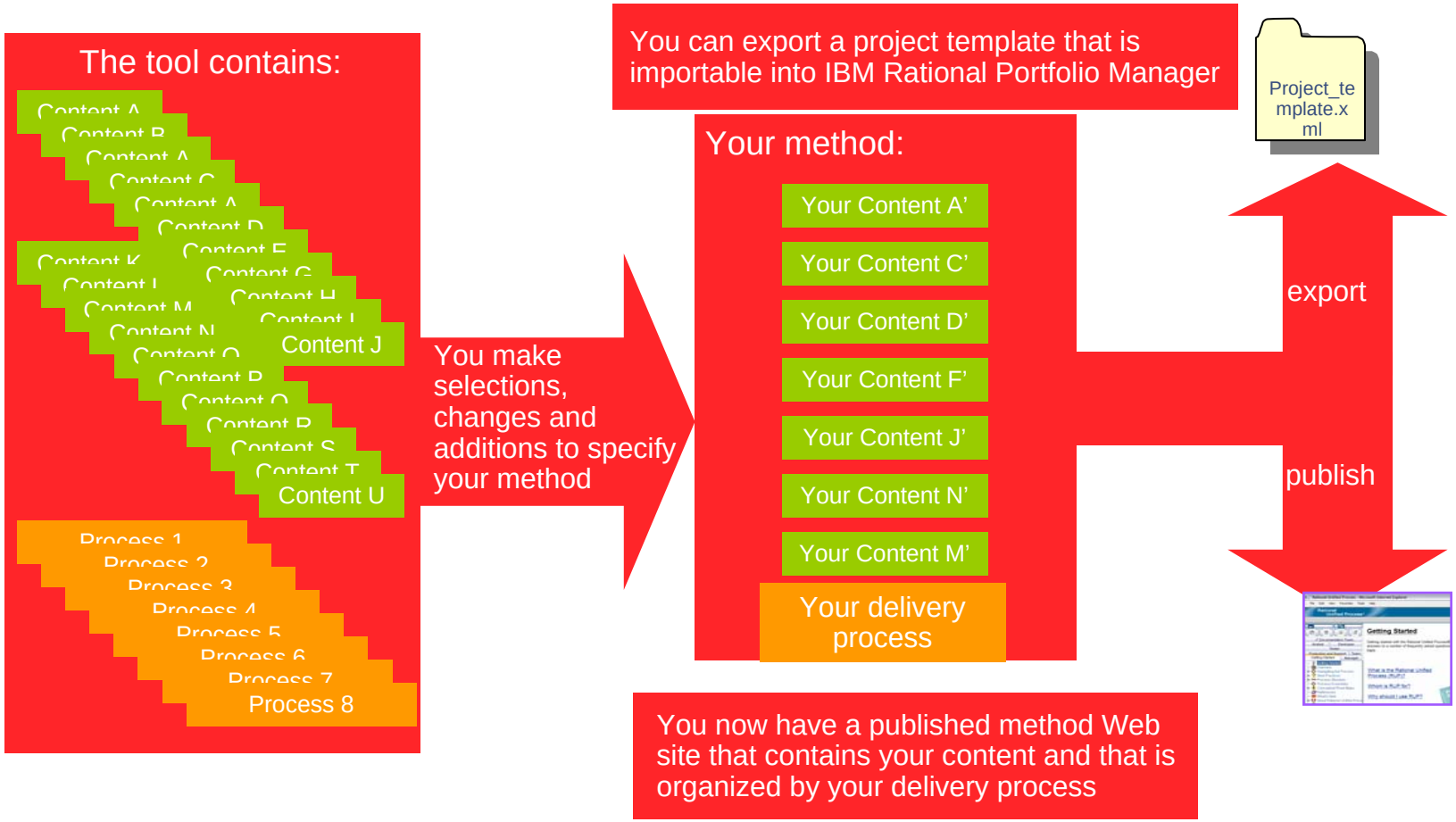
method = method content + process

Method content provides descriptions of work that can be reused as important building blocks. These are the descriptions of tasks, roles, work products, guidelines and so on that are involved in completing work.

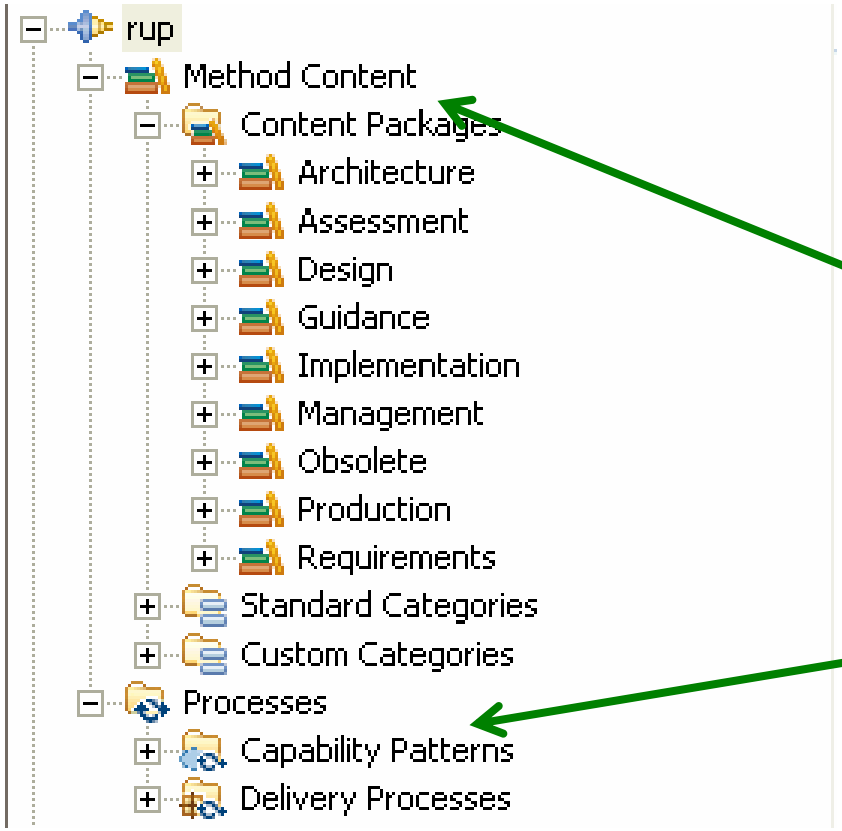
Processes provide the order of doing work. They do so by providing the order for the method content.

Key difference: RUP toolset did not separate method content and process; different processes were difficult to represent; method content was difficult to reuse

Use RMC to Create Useful and Usable

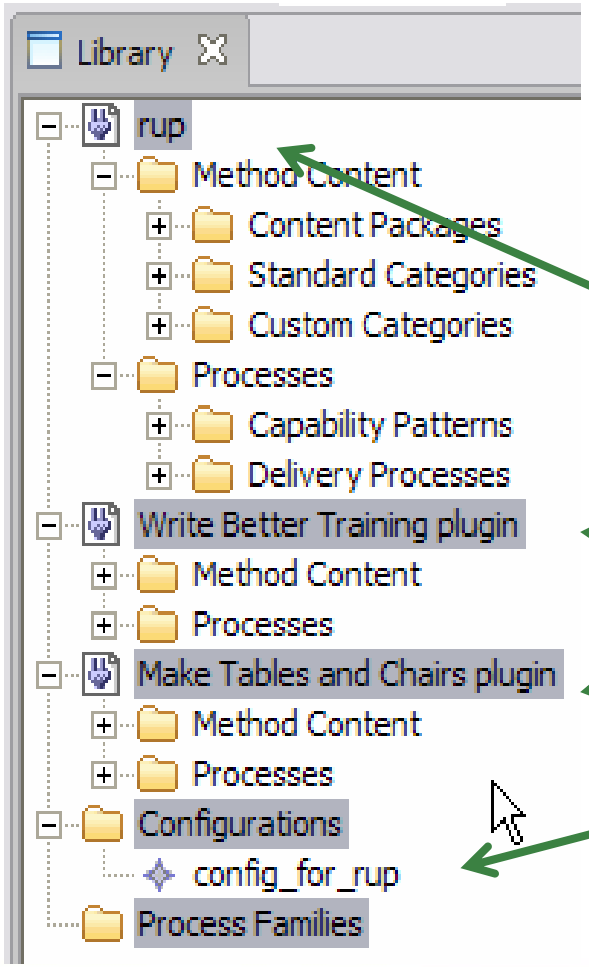


Terminology: Method Plug-In



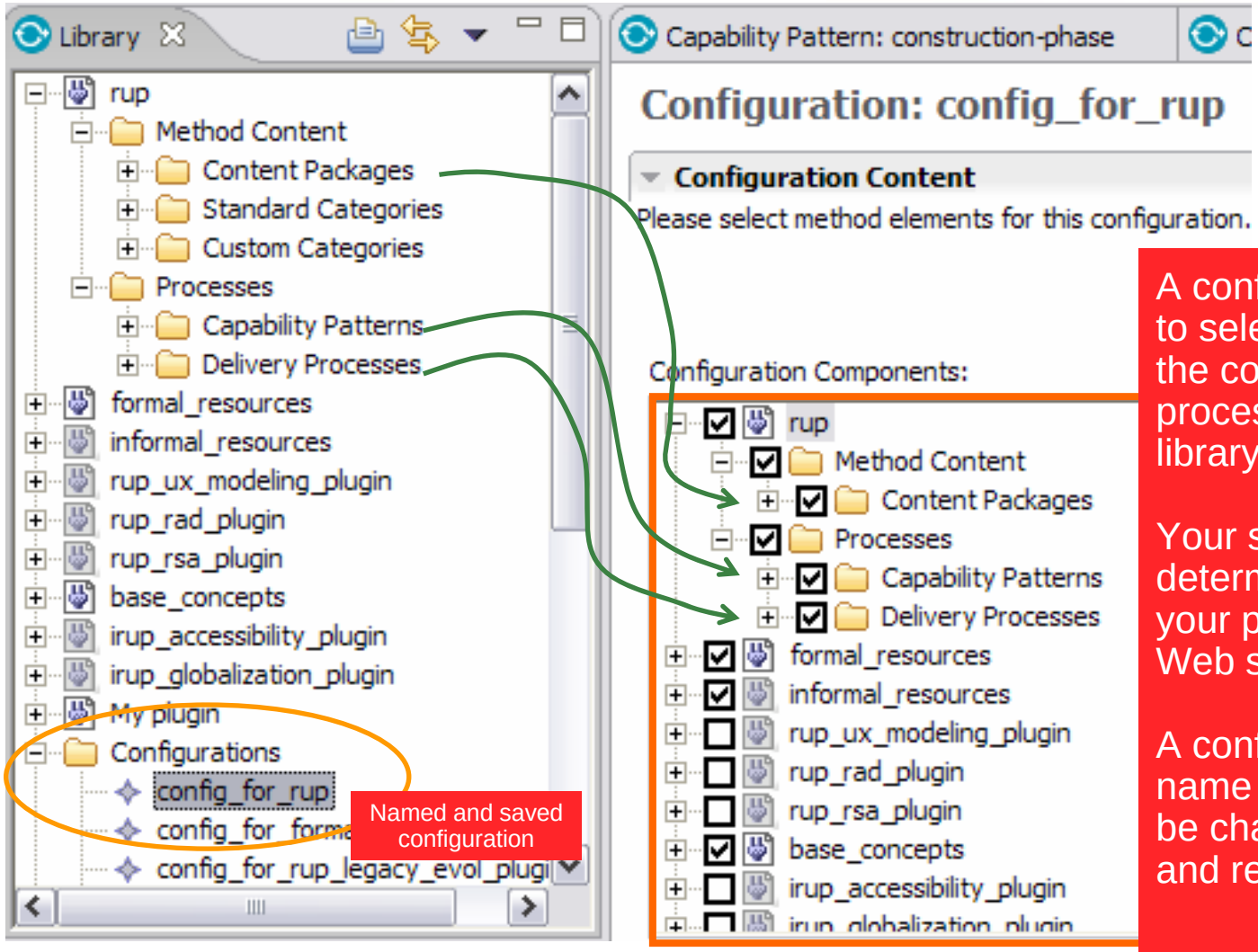
- **Can be thought of as a "piece" of a method.**
- **Every plug-in has the same organizational structure:**
- **Method Content:**
  - Content packages (where all method content elements are defined)
  - Standard Categories
  - Custom Categories
- **Processes**
  - Capability Patterns
  - Delivery Processes

Terminology: Method Library



- **Libraries contain**
  - Method plug-ins
  - Configurations
- **This sample library has:**
  - Three method plug-ins
    - RUP
    - Write Better Training
    - Make Tables and Chairs
- **One configuration**
  - config_for_ RUP

Terminology: Method Configuration

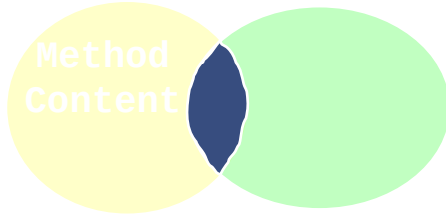


A configuration allows you to select or deselect from the content packages and processes available in your library's set of plug-ins.

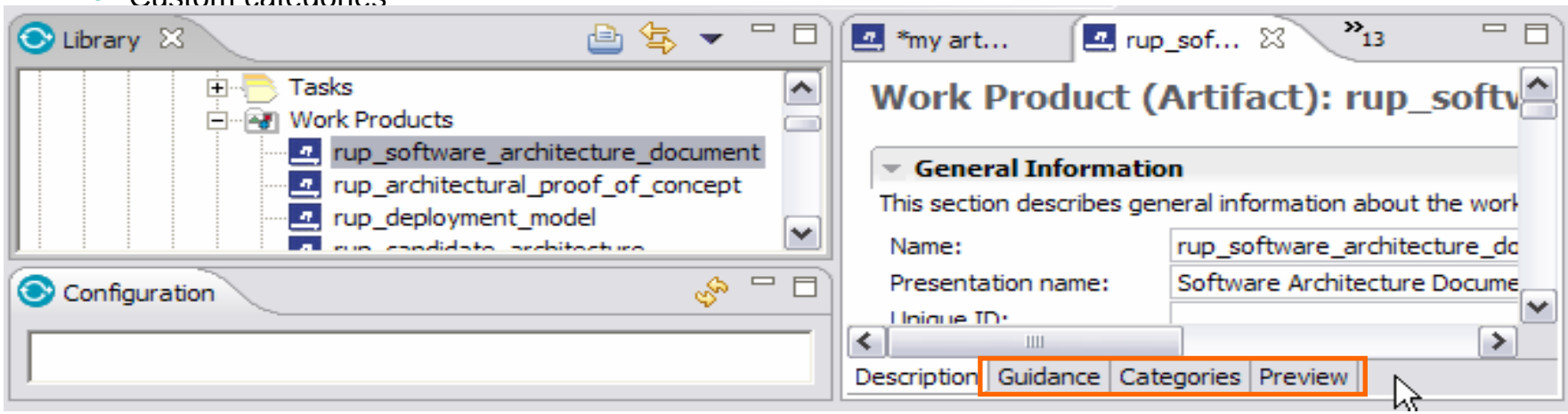
Your selections help to determine the content of your published method Web site.

A configuration is given a name and is saved. It can be changed in the future, and re-published.

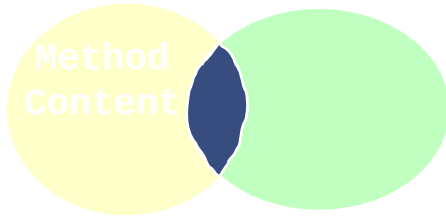
Terminology: Work Product



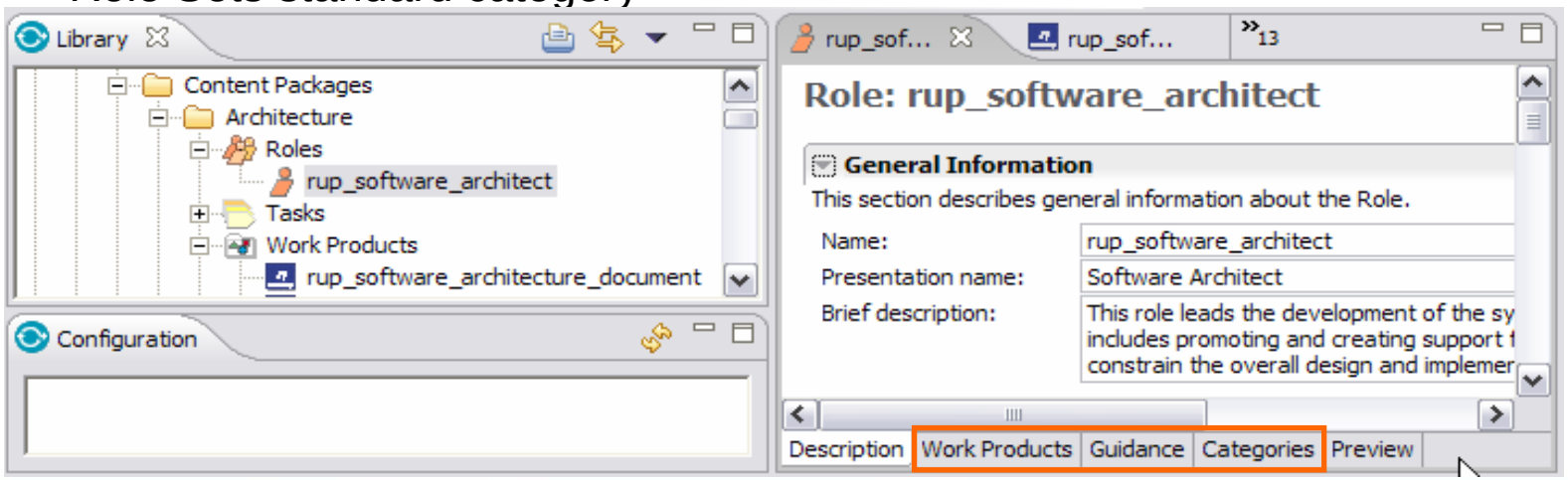
- **Anything used, produced, or modified by a task**
- **Types: deliverable, artifact, outcome**
- **A work product:**
  - May reference guidance
  - May be categorized (categories discussed later):
    - Domains standard category
    - Work Product Types standard category
    - Custom categories



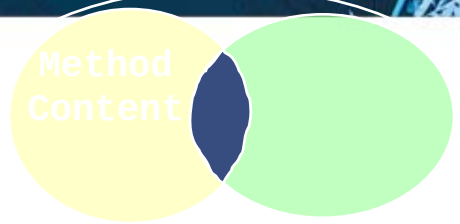
Terminology: Role



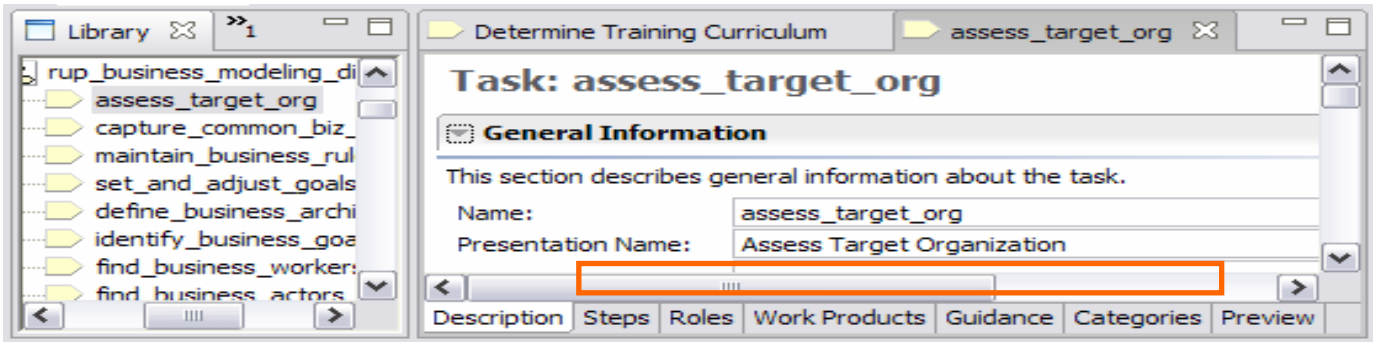
- **Defines a set of related skills, competencies, and responsibilities**
- **A role:**
  - May reference guidance
  - May be categorized (categories discussed later):
    - Role Sets standard category
- **A role relates to work products as:**
  - Is Responsible For
  - Modifies



Terminology: Task



- **Describes work being performed by roles**
- **A task:**
  - Has steps
  - May reference guidance
  - May be categorized (categories discussed later):
    - Discipline standard category
    - Custom categories
- **A task uses work products as its:**
  - Mandatory input
  - Optional input
  - Output
- **A task is performed by roles:**
  - Primary performer
  - Additional performer



Terminology: Method Elements and their Relationships

	Task	Work Product	Role

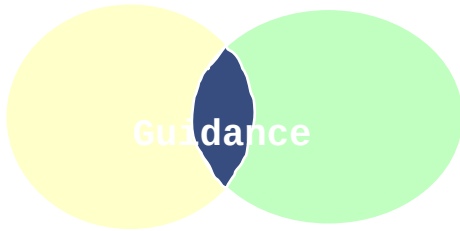
Task
•**May refer to Guidance**
•**Has Steps**
•**Is in Categories**
  •Disciplines standard category
  •Custom Categories
	•**Variability (contributes, replace, extends)**	•**Mandatory Inputs**
		•**Optional Inputs**
		•**Outputs**
			•**Primary Performer**
			•**Additional Performer**

Work Product
•**May refer to Guidance**
•**Is in Categories:**
  •Domains standard category
  •Work Product Types standard category
  •Custom Categories
	•**Mandatory Input**
	•**Optional Input**
	•**Output**
		•**Artifacts can contain artifacts**
		•**Variability (contributes, replace, extends)**
			•**Responsible Role**
			•**Modifying Roles**

Role
•**May refer to Guidance**
•**Is in Categories:**
  •Role Sets standard category
  •Custom Categories
	•**Primary Performer**
	•**Additional Performer**
		•**Role is Responsible For**
		•**Role Modifies**
			•**Variability (contributes, replace, extends)**

Method Content: Guidance

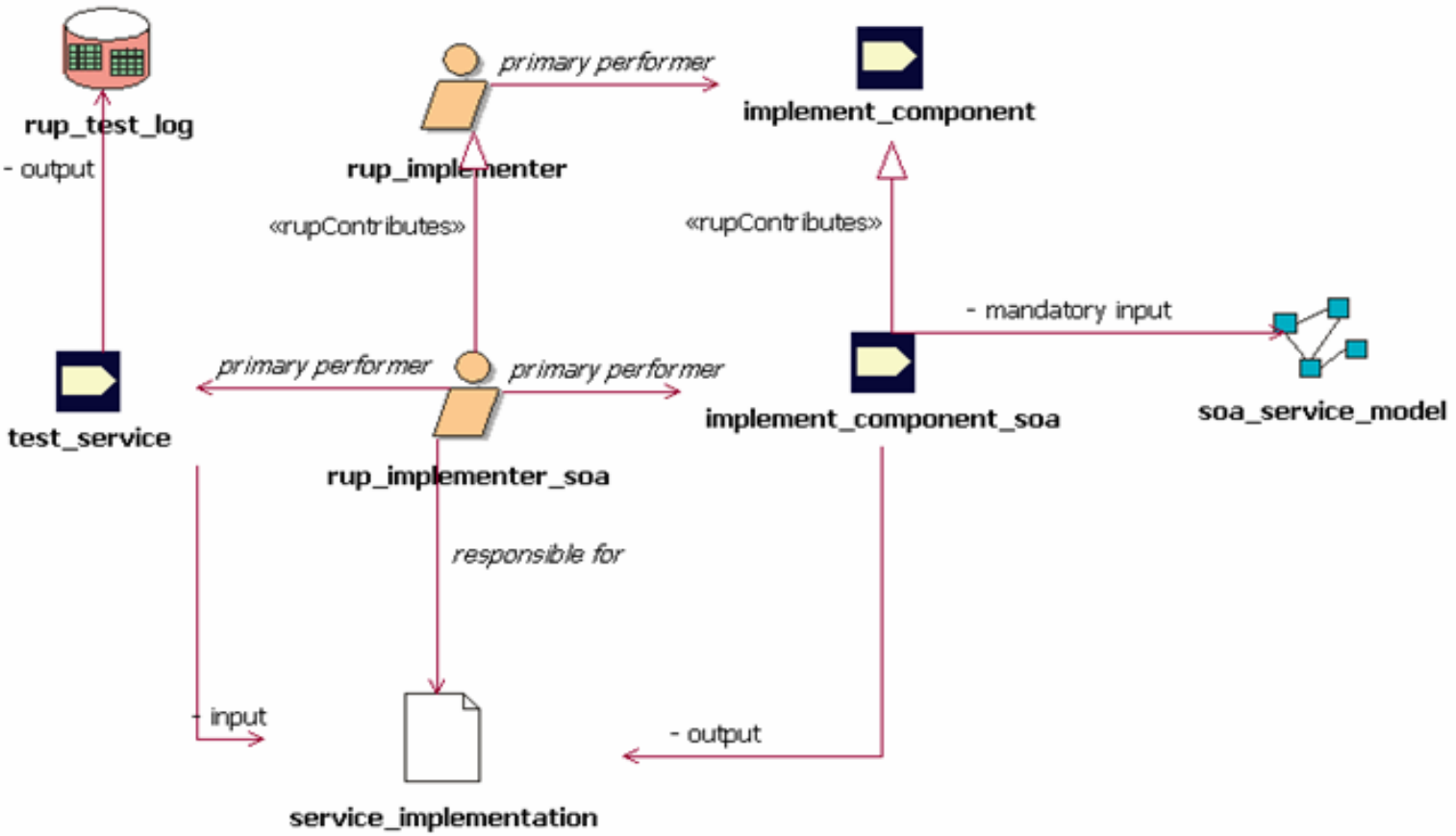
- **Guidance can be attached to both method and process elements in order to provide additional guidance about those elements.**
- **Types**
  - Checklist
  - Concept
  - Example
  - Guideline
  - Practice
  - Report
  - Reusable Asset
  - Roadmap
  - Supporting Material
  - Template
  - Term Definition
  - Tool Mentor
  - White Paper



Terminology: Content variability

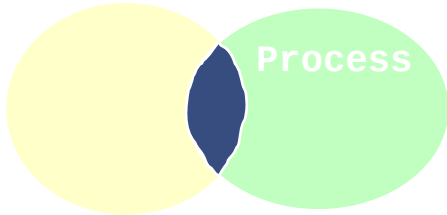
- **Content variability refers to a mechanism in the tool that allows you to customize method content without directly modifying the original content.**
- **Content variability allows you to change method content in plug-in A by building plug-in B that contributes, extends, or replaces elements. This keeps the original elements in plug-in A intact since all the changes are defined in your plug-in B.**
- **Content variability is useful, for example:**
  - To change the description of an existing role
  - To add steps to an existing task

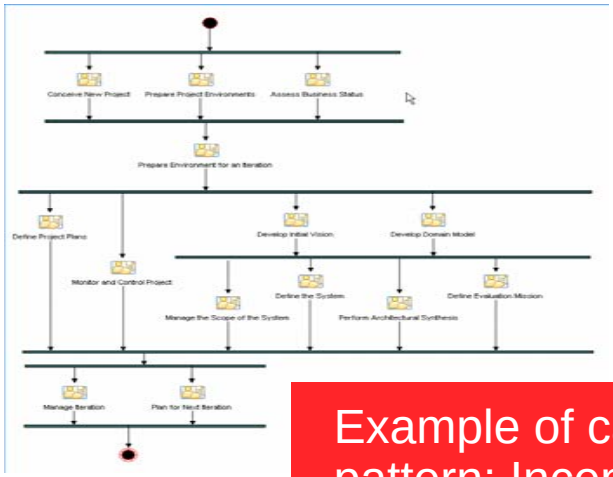
Using Variability in a New Configuration



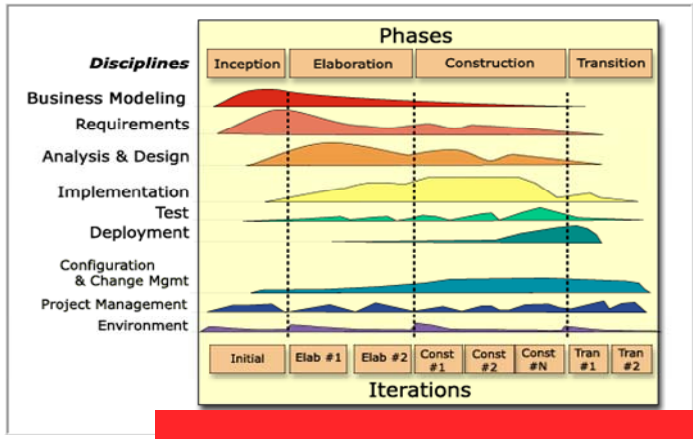
Terminology: Process

- **Defines how method content can be assembled into an executable process with a defined lifecycle**
- **Specific to the scale/context of project (e.g. greenfield vs. maintenance, formal/high ceremony vs. agile)**
- **Consists of two types:**
  - End-to-end complete project lifecycles (Delivery Processes)
  - Process fragments that can be used to compose Delivery Processes (Capability Patterns)



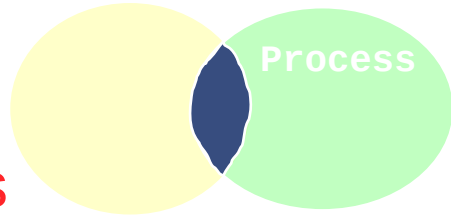


Example of capability pattern: Inception iteration workflow



Example of delivery process: RUP lifecycle

Terminology: Process Views



- **Process views are hierarchical arrangements of content elements that define the process**
- **Structured using work units called** activities
  - The lowest levels of process views are references to core method elements
- **There are four process views:**
  - **Work Breakdown Structure (WBS)** (shows tasks needed to perform the activities of the process)
  - **Team Allocation (TA)** (shows roles that perform the tasks in the WBS)
  - **Work Product Usage (WPU)** (shows work products for the tasks in the WBS)
  - **Consolidated View** (shows tasks, roles and work products)

Summarizing

- **Rational Method Composer is a configurable process platform that helps solve development challenges facing:**
  - Executives
    - Provide consistent results across all projects through proven best practices integrated with practitioner tools
  - Project Managers
    - Adapt the process to the unique needs of your project
  - Practitioners
    - Get the guidance to get the job done.
    - Personalize the process to address the specific development challenges, technologies and tools you face.


Thank
You