



IBM Software Group

# WebSphere Business Modeler Version 6



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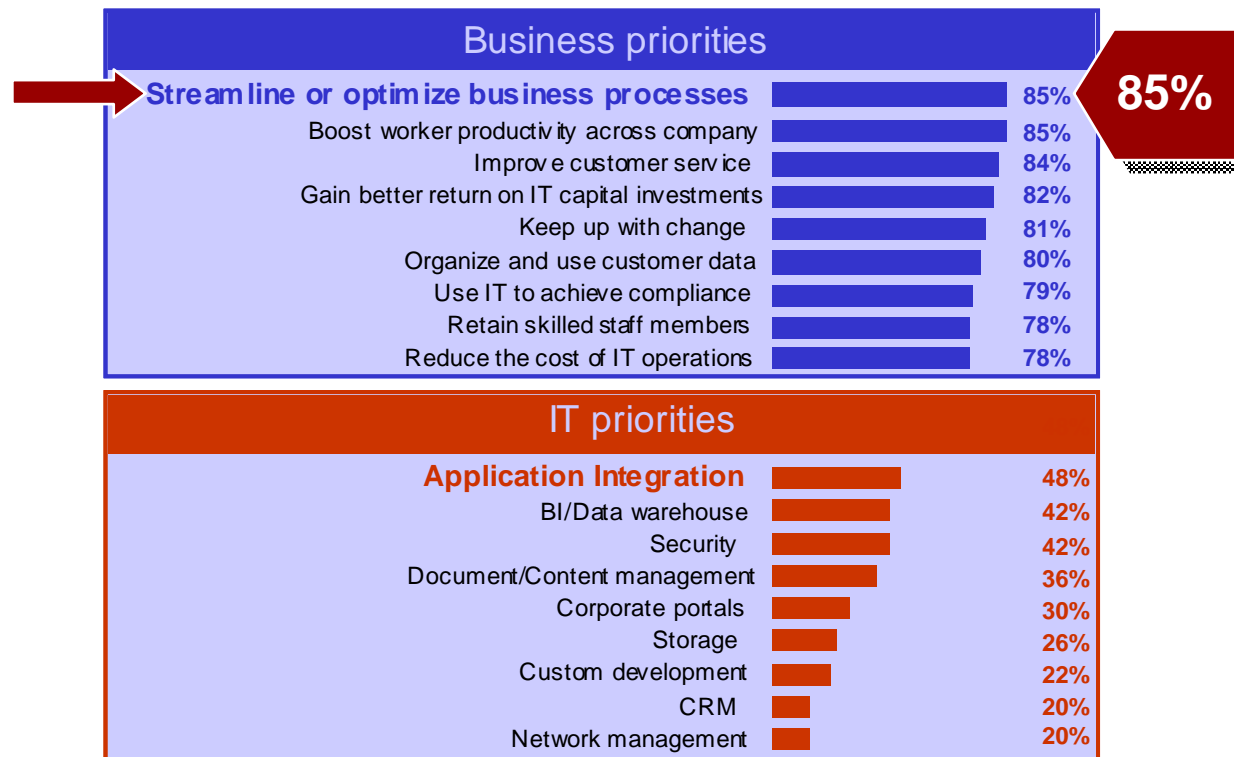
@business on demand software

# Agenda

- Why Model the Business?
- WebSphere Business Modeler
- IBM Software Development Platform and Business Driven Development



# Streamline or Optimize Business Processes: A Top Business Priority

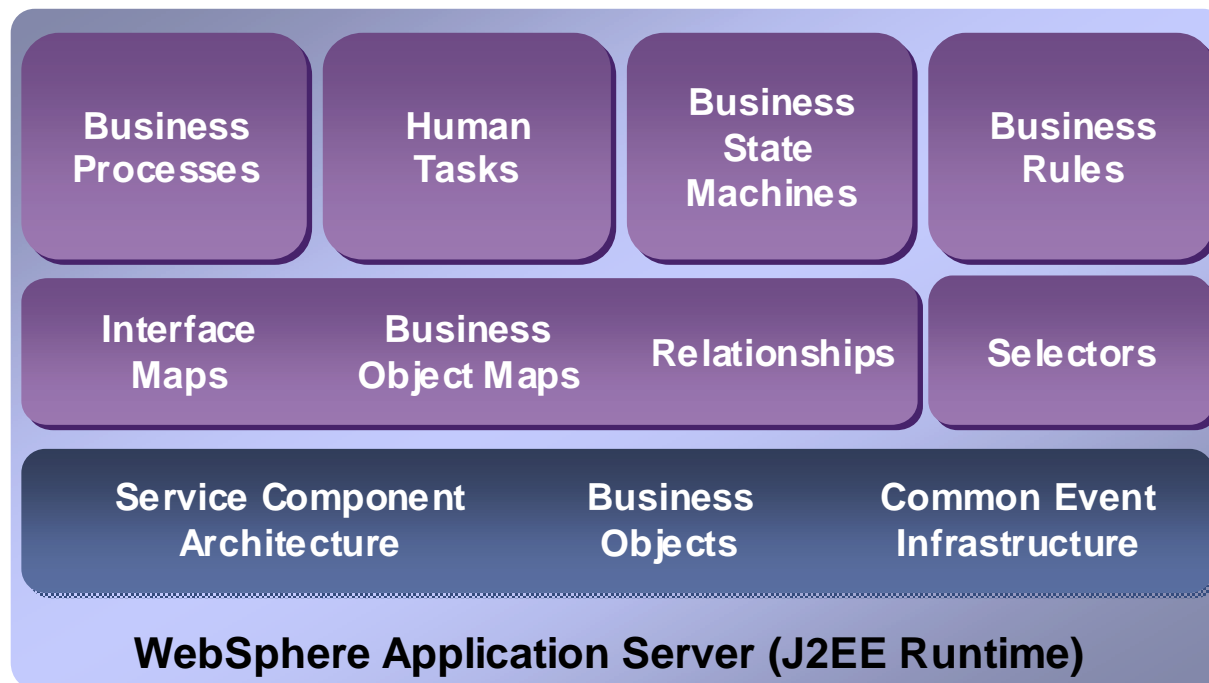
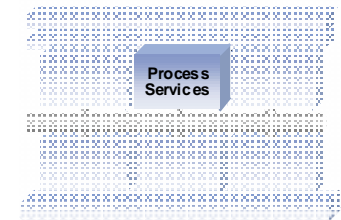


*“...implementing an efficient, flexible, secure infrastructure remains high on the priority list for the CIOs surveyed. Application integration technology remains a critical component of that infrastructure.”*

—“Some Integration Vendors Outperform the Slow Software Market,” J. Thompson, J. Correia, M. Pezzini, Gartner, Sept. 16, 2004

Sources: Outlook 2004: Priorities 1Q InformationWeek Research, January 2004 Merrill Lynch CIO Survey Results, September 2004

# WebSphere Process Server Version 6 *Components*

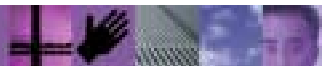


**Service Components**  
are the added-value  
components

**Supporting Services**  
simplify common integration  
tasks

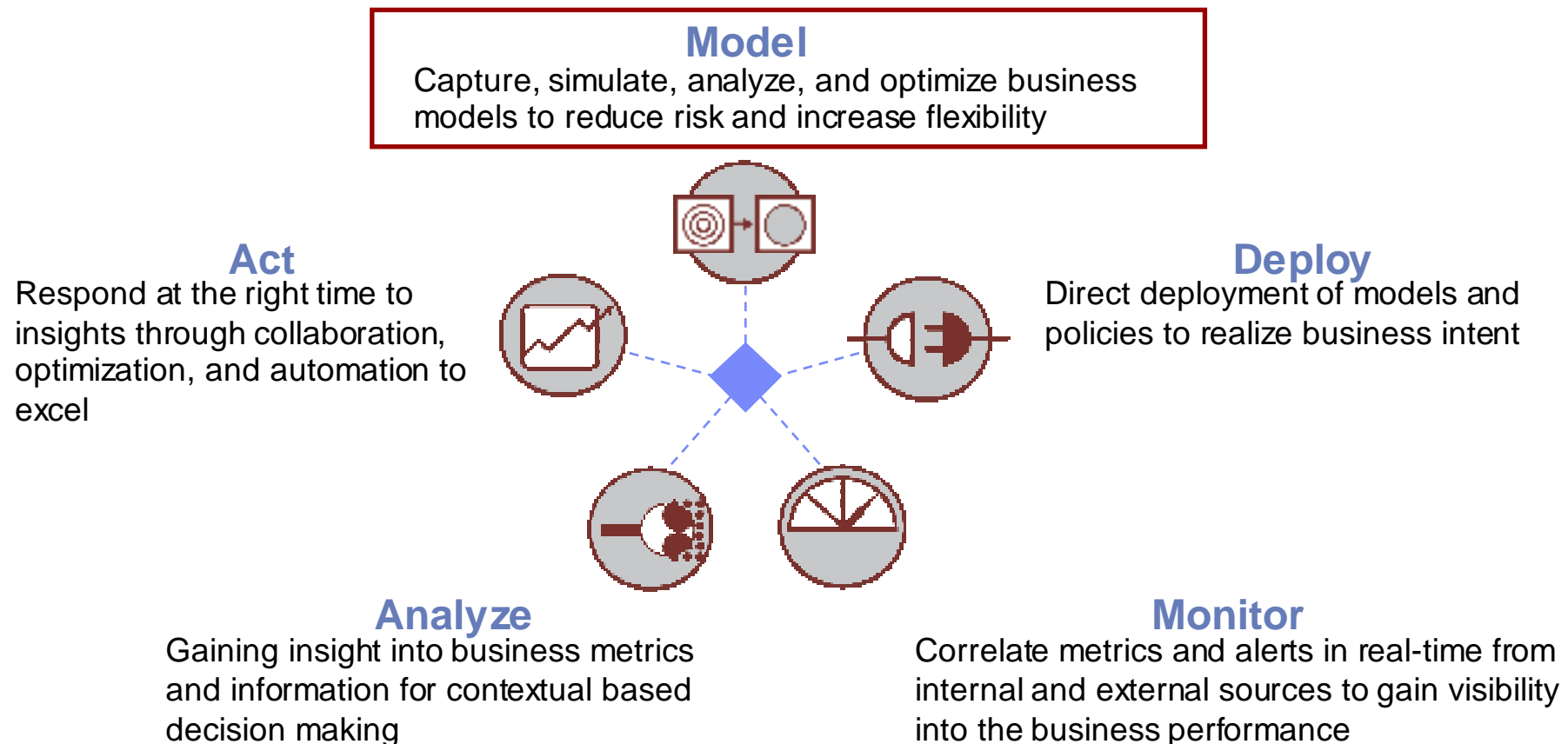
**SOA Core** is the  
foundation technology

**WebSphere Application  
Server** V6 foundation



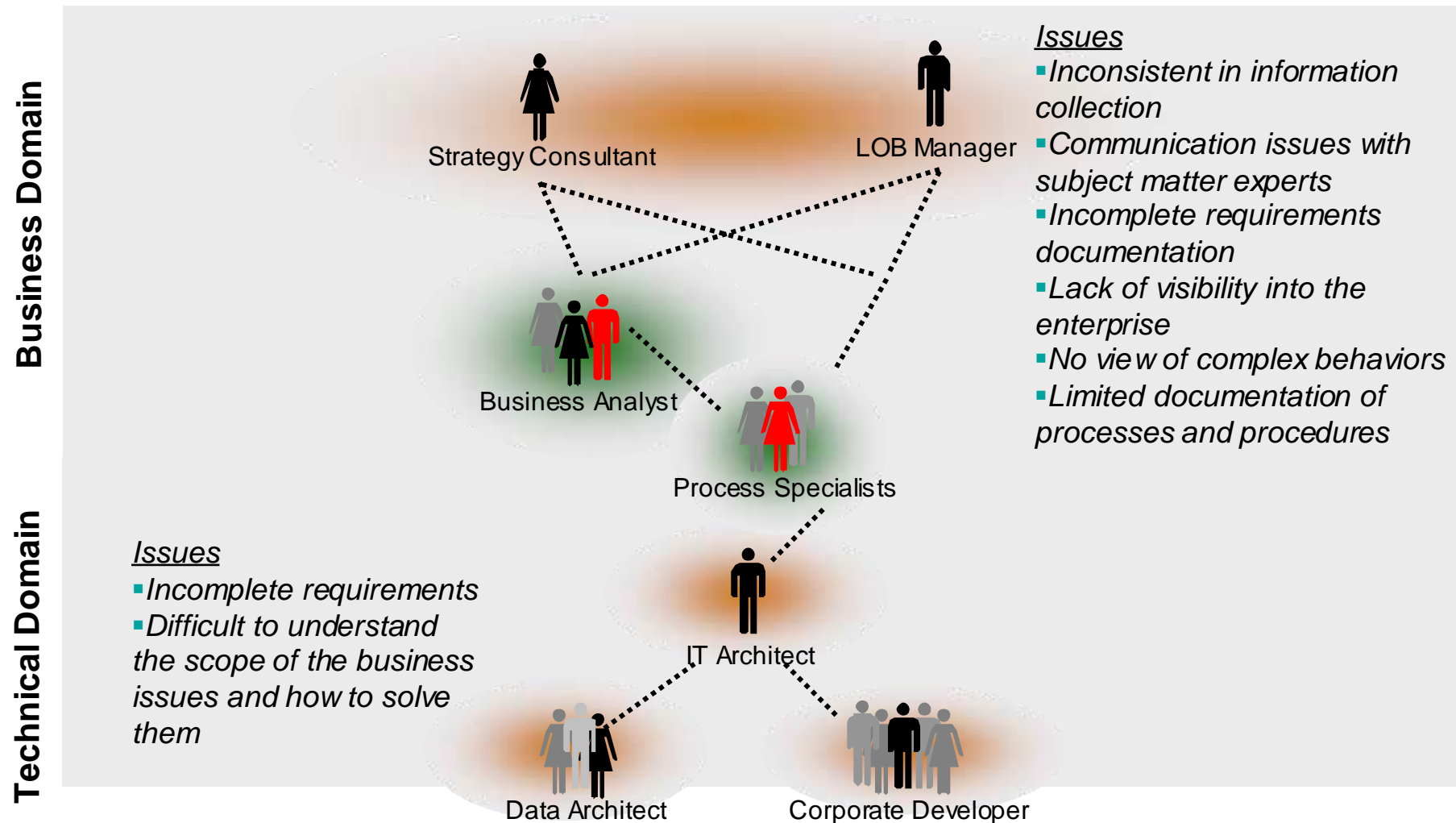
# IBM Business Innovation and Optimization Methodology

*The power of IBM's methodology is derived from each activity performed individually ...*



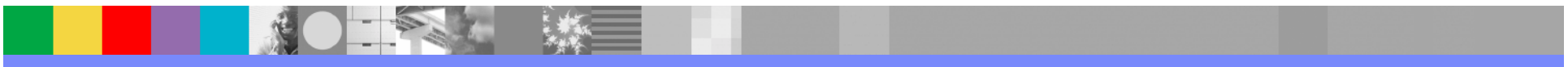
*... and in combination to enable continuous improvement and innovation*

## Why is There a Need for Business Modeling and Analysis?



# Benefits of Business Modeling and Analysis

- Helps you understand and transform your business
- Highlights complex behaviors even in simple processes
- Discover potential areas for process improvement and latent value in existing processes
- Validate enhancements prior to committing resource & implementing technical solutions
- Examine the financial implications of, and justification for process change
- Establish initial targets for process performance
- Define a business measurement structure with rigour and repeatability



# Drivers for Business Understanding

## ■ Modeling For Compliance/Documentation

- ▶ Document processes for use by a business to understand the business process
- ▶ Customers use output for training, collaboration, documentation requirements for compliance regulations (Sarbanes-Oxley and Basel II)
- ▶ Linkage to real-time monitoring provides a feedback mechanism for reporting requirements needed for compliance

## ■ Modeling For Redesign

- ▶ Document both the current state and future state business process and the comparison to determine Return on Investment (ROI) analysis
- ▶ Six Sigma and process improvement are common methodologies

## ■ Modeling For Execution

- ▶ Future state business process has runtime characteristics associated to it, so the model is passed to application, workflow and business process development tools.



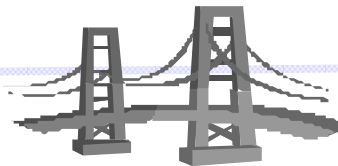


# Drivers for Business Understanding

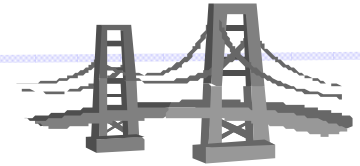
## Business Modeling

Customers model processes for many purposes:

- Modeling For Compliance/Documentation
- Modeling For Redesign
- Modeling For Execution



*Domain and Tooling Gap*



## IT Development

- Application Development
- Service Implementations
- Process Choreography and Human Workflow

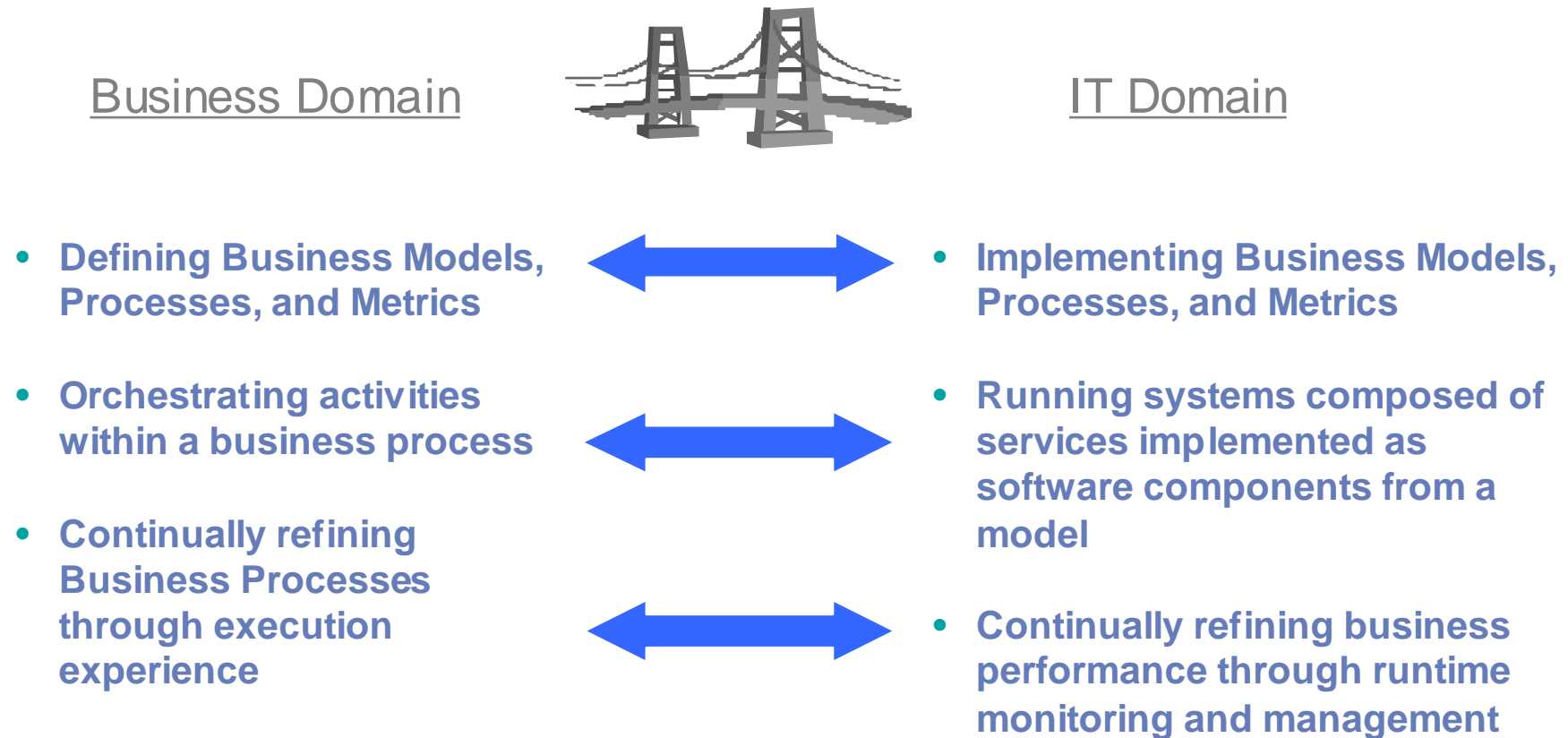


# Agenda

- Why Model the Business?
- WebSphere Business Modeler
- IBM Software Development Platform and Business Driven Development



# Bridging the Gap between Business and IT



Aligning IT and business goals grows revenue and contains costs

# Drivers for Business Understanding

## WebSphere Business Modeler

Customers model processes for many purposes:

- Modeling For Compliance/Documentation
- Modeling For Redesign
- Modeling For Execution

*Business Driven Development*

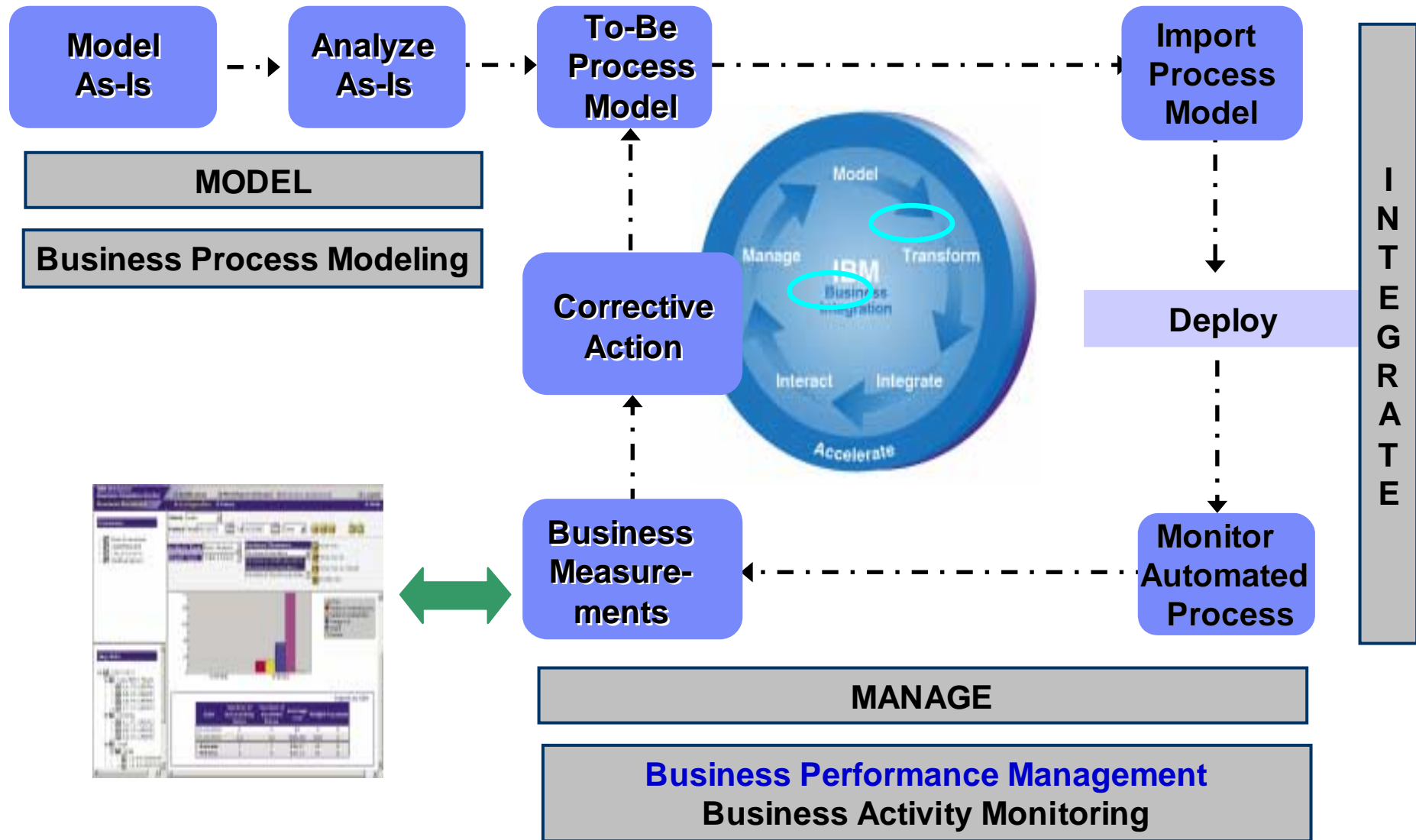
### Application Development

Rational Software Architect OR  
Rational XDE

### Process Choreography and Human Workflow

WebSphere Integration Developer OR  
WebSphere MQ Workflow Buildtime OR  
WSAD Integration Edition

# Business Innovation and Optimization



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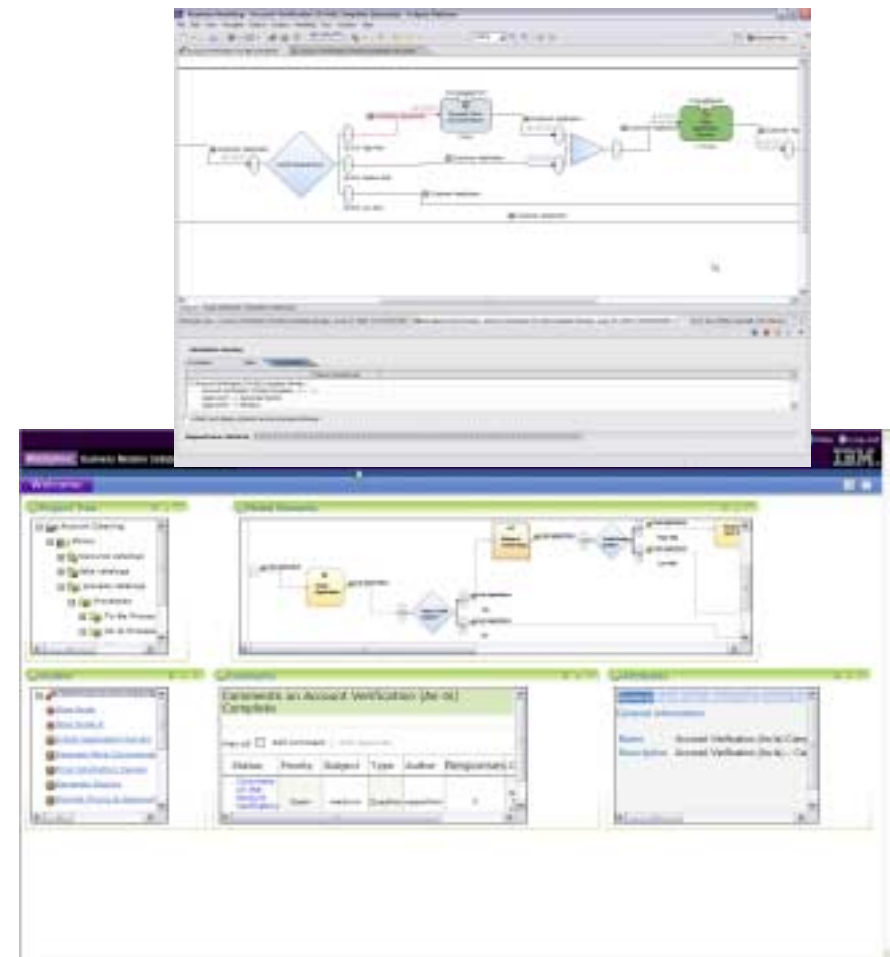
# WebSphere Business Modeler Version 6 Overview

- **Easy-to-use - Designed and tested with business analysts**
  - ▶ **Multiple Modes - Business/IT friendly**
- **Detailed Resource, Process and Data Modeling**
- **Robust Analysis - Static/Dynamic**
- **Integration with Crystal Reports**
- **Powerful Simulation Engine**
- **Swimlane Editing and Simulation**
- **Multi-User Support - CVS/ClearCase**
- **Collaboration Support – Web Publishing**
- **Business Measures Editor (Metrics, KPIs, Aggregations, etc.)**
  - ▶ **Export Business Measures model to WebSphere Business Monitor**
  - ▶ **Import WebSphere Business Monitor Run-Time Metrics**
- **Integration**
  - ▶ **Rational Software Architect Support (UML)**
  - ▶ **WebSphere Process Server Support (BPEL)**
  - ▶ **WebSphere Studio Application Developer Integration Edition Support (BPEL)**
  - ▶ **WebSphere MQ Workflow Support**



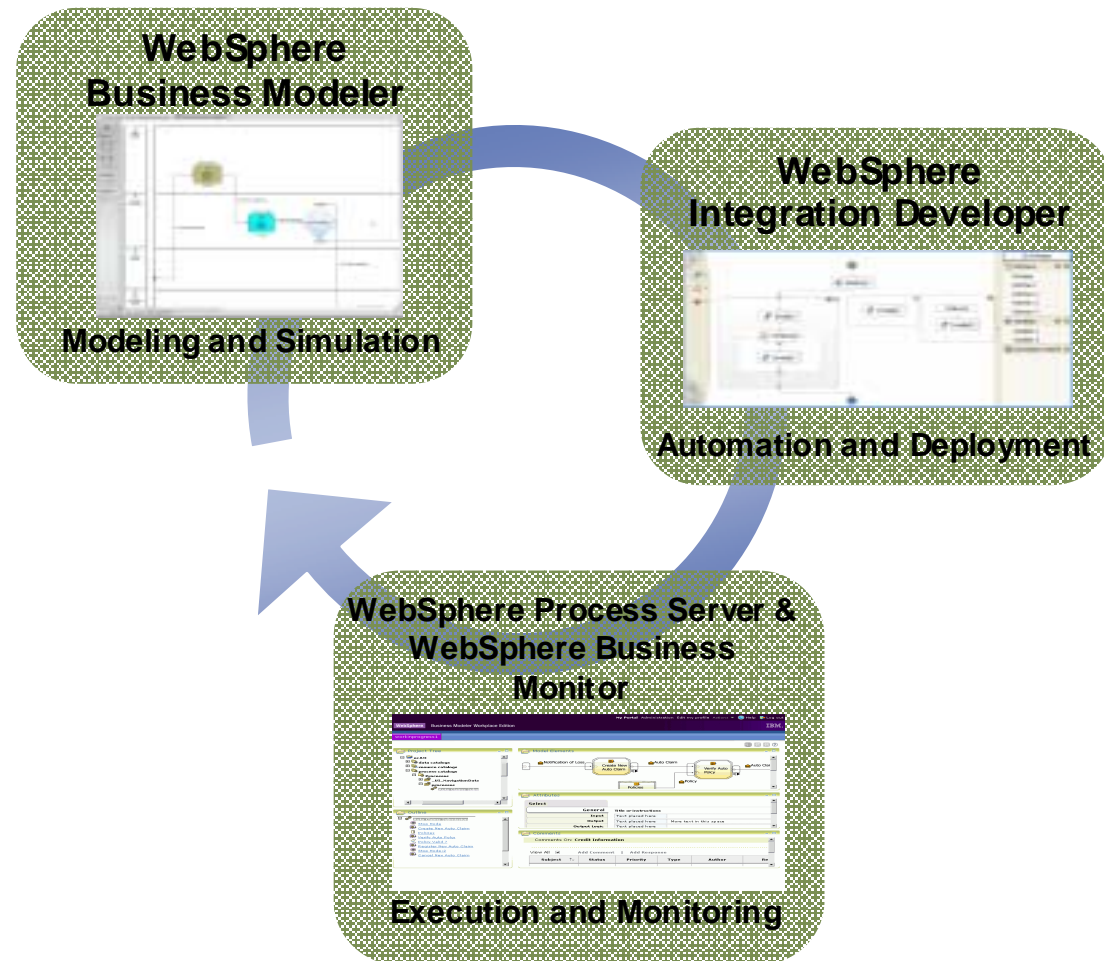
# Best In Class Business Modeling And Simulation

- Simple to use business modeling tool
  - ▶ Allow the people who know the business to model
  - ▶ Drag and drop for the business analyst
- Precise modeling of the vital aspects of the process
  - ▶ Understand your business models and make informed decisions before deployment
  - ▶ Resources, roles, organization, information, business metrics
- Collaborative modeling
  - ▶ Communicate and participate across your enterprise
  - ▶ Enables team work and web publication
- Clean hand-off to I/T
  - ▶ Rapid and accurate deployment of your solutions
  - ▶ Business modeling is the starting point for I/T deployment



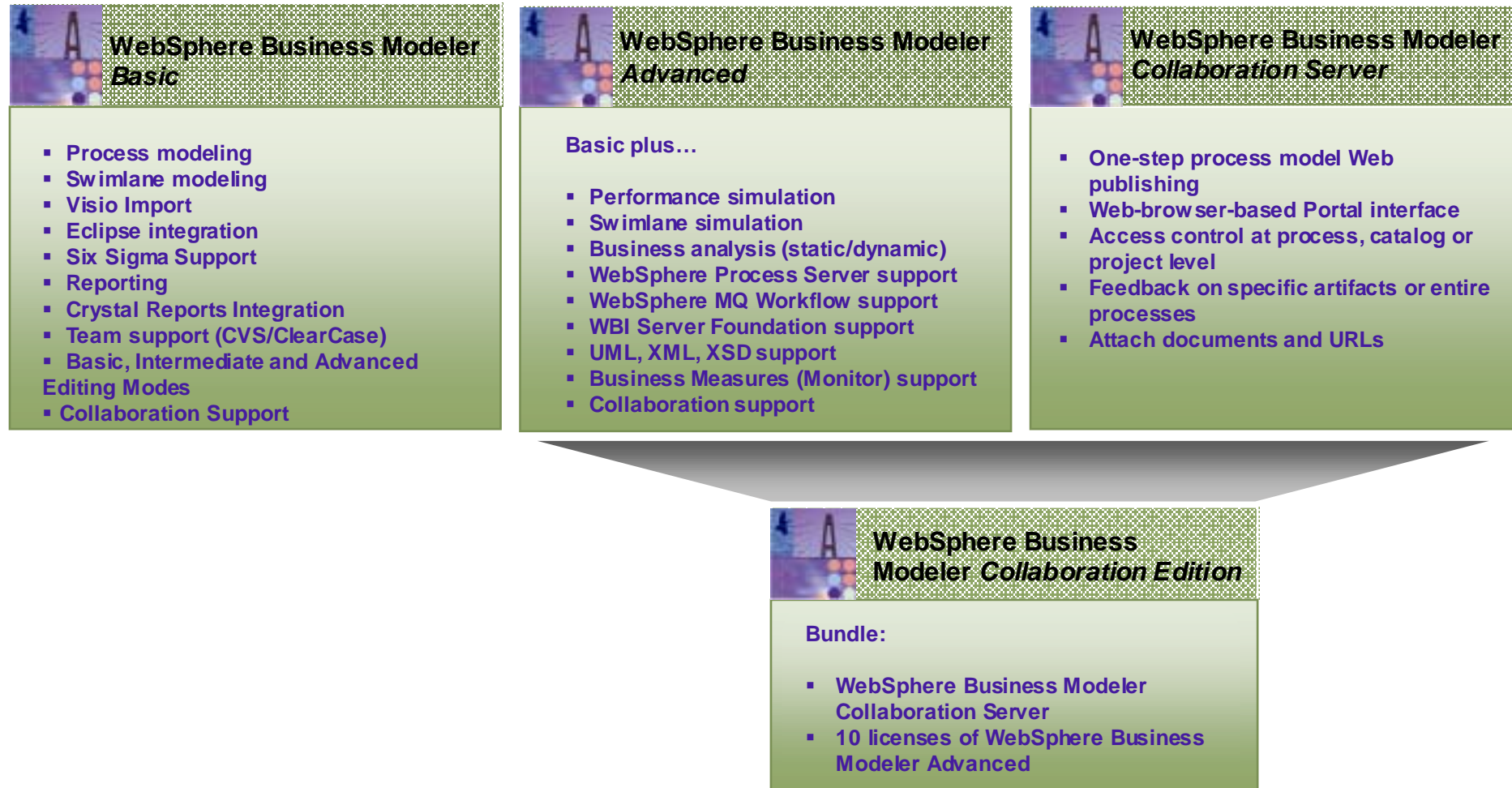
# Feedback Loop For Continuous Improvement

- Leverage real information about your business
  - ▶ Better decisions, quicker
  - ▶ Core business facts from monitor are passed back into modeler for simulation, analysis, diagnosis, and action
- Improve your business
  - ▶ Business process improvement
  - ▶ Discover true process behaviors
  - ▶ Fact based simulation leading to improved process design for the next solution deployment





# WebSphere Business Modeler Version 6 offerings



## True Business Understanding Requires Multi-Dimensional Business Models

- The Process Model

- ▶ The Graphical model provides the pictorial representation of the process model.

- The Resource Model

- ▶ Allows you to define all of the different resource types and instances of those resources so that they can be associated to the model

- The Information Model

- ▶ Provides a view of data and how data is used within a business process.

- The Organization Model

- ▶ Provides the definition and structure of all of the organization units and their associated resources

- The Analysis Model

- ▶ Definition of key process metrics and attributes are defined and then analyzed in both a static and dynamic manner.

- The Collaboration Model

- ▶ Allows for both model time and deployment time collaboration on a process model

- The Business Measures (Observation) Model

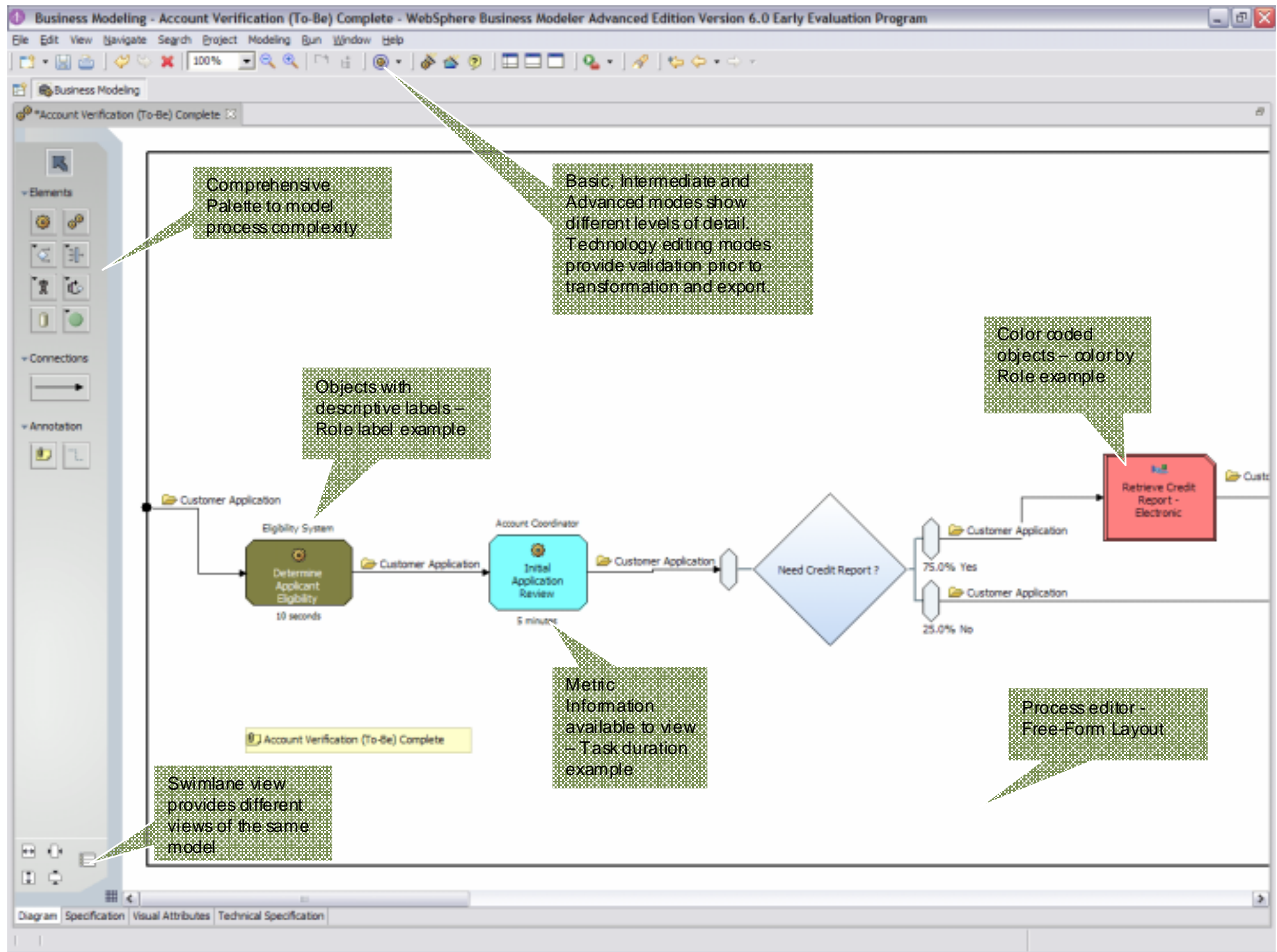
- ▶ Definition of Key Performance Indicators and Metrics that represent the critical performance characteristics of how business performance is monitored

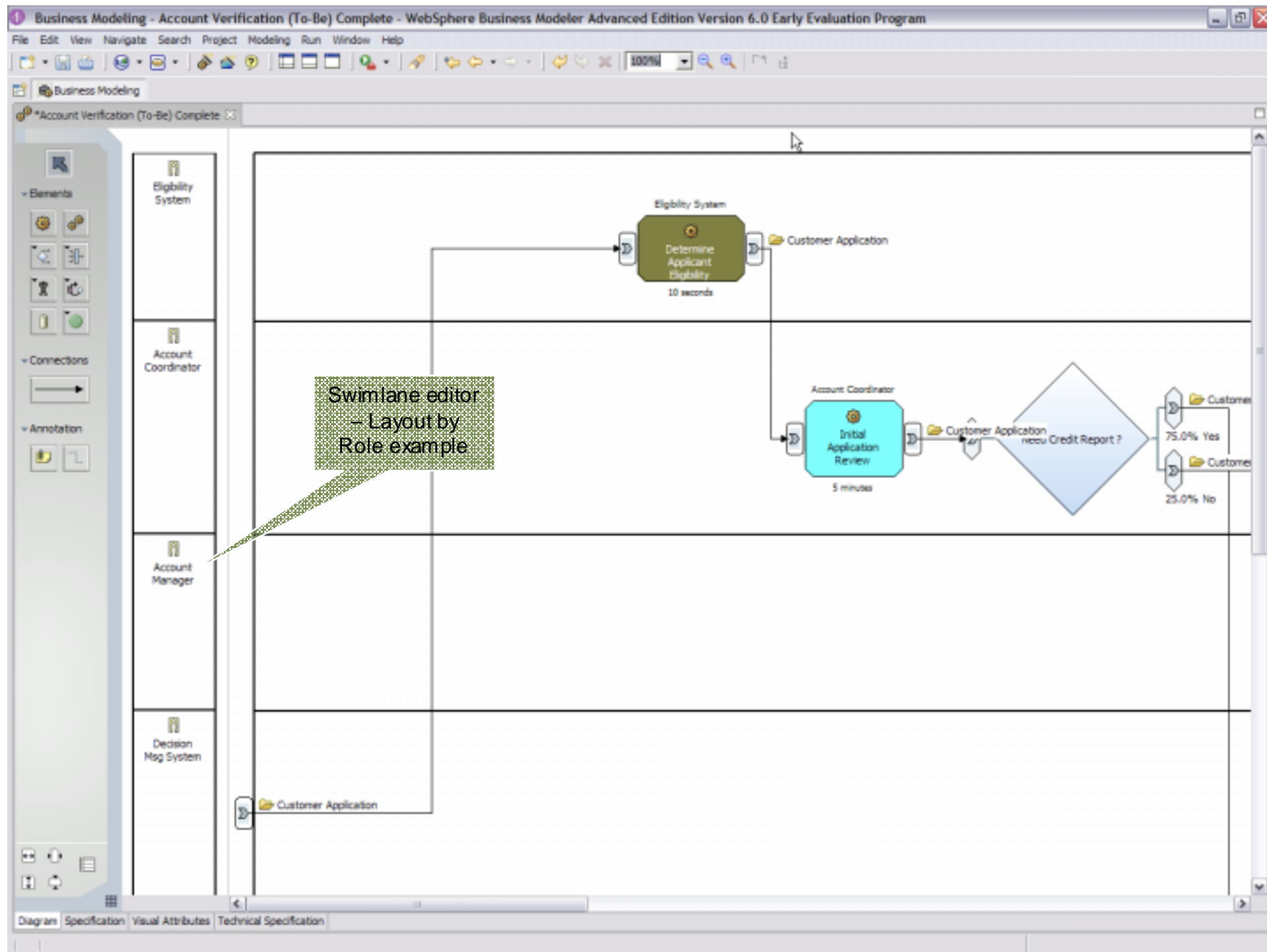


# The Process Model

- Flexible palette which can be used to express complex behaviors in business processes
- Use of colors, labels, and swimlane view aid in visual identification of hand-offs and the associated attributes of the model
- It is important that standards and best practices be applied when developing business process models as consistency when modeling ensures that consumers of the process models are interpreting them in a consistent way
- Supports BPMN standard

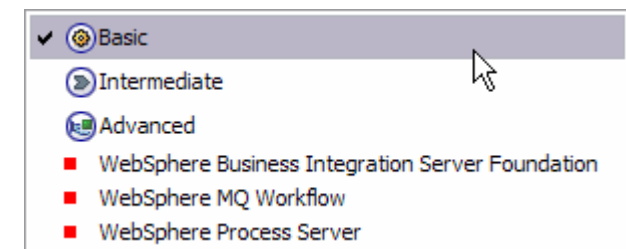






# Working with the Process Model: Editing Modes

- User modes offer different view and model detail
  - ▶ **Basic:** For a business analyst to work at the high level business process model. Focuses on creating and displaying sequence flows, and does not display low level details of data modeling
  - ▶ **Intermediate:** More technically focused user to specify and view additional details of process and data models,
  - ▶ **Advanced:** Provides the most comprehensive level of detail for process models and data models -- used as the basis for software applications
- Three different technology modes are optimized for automation
  - ▶ **WebSphere Process Server:** Output in WS-BPEL, WSDL and XSD formats. Use in WebSphere Integration Developer to automate and deploy to WebSphere Process Server.
  - ▶ **WebSphere MQ Workflow:** Output in FDL format, which you can use in WebSphere MQ Workflow as the basis of an automated workflow solution.
  - ▶ **WebSphere Business Integration Server Foundation:** output in BPEL, WSDL and XSD formats. Use in WebSphere Studio Application Developer Integration Edition to automate and deploy to WebSphere Business Integration Server Foundation.



# The Information Model

- This data can be imported in from existing sources or upon export be used to help develop or enhance systems.
- Ability to associate critical information required for the process execution and to support the logic behind how the process behaves
- Used in the analysis model for dynamic analysis of the process
- Exportable so that it can be leveraged by both the runtimes and the application developers (UML Classes)

Templates can be used to inherit information that was modeled previously or that are reusable across business items

The screenshot shows a software interface for a "Customer Application". At the top, there's a "Parent template" dropdown set to "None" and a "Change Scan..." button. Below this is a section titled "Business item attributes" with a sub-header "Attributes are properties or significant features. Inherited attributes can only be edited in the parent definition." This section contains a table with two columns: "Name" and "Type".

Name	Type
applicationDate	String
companyName	String
customerAddress1	String
customerAddress2	String
customerCity	String
customerState	String
customerCountry	String
customerPostalCode	String
contactFirstName	String
contactLastName	String
contactPhoneNumber	String
requestAccountAmount	String
creditReportNeeded	Boolean
creditScore	Integer
productName	String
pricingCode	Integer
applicationDecision	Boolean
comments	String

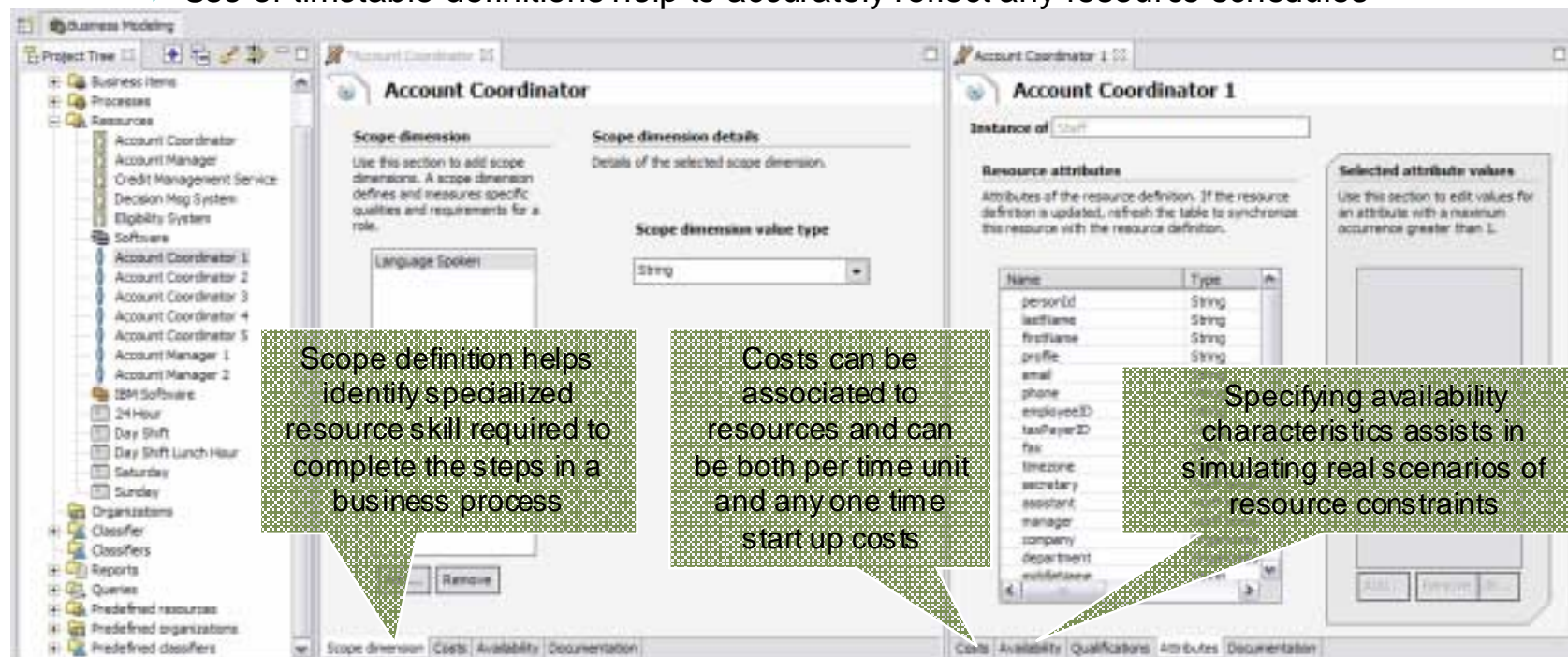
Below the table are buttons for "Add", "Remove", "Move Up", and "Move Down". To the right of the table is a section titled "Attribute details" with a sub-header "Edit the details of the selected attribute. Inherited attributes can only be edited in the parent definition." This section contains a text area labeled "Attribute description" with the text: "If a credit report is older than N number of months (business rule will be used to set this dynamically), then a credit report will be needed. (True/False)".

At the bottom of the interface are tabs for "Attributes" and "Documentation".

Rules associated to business items can be evaluated during analysis

# The Resource Model

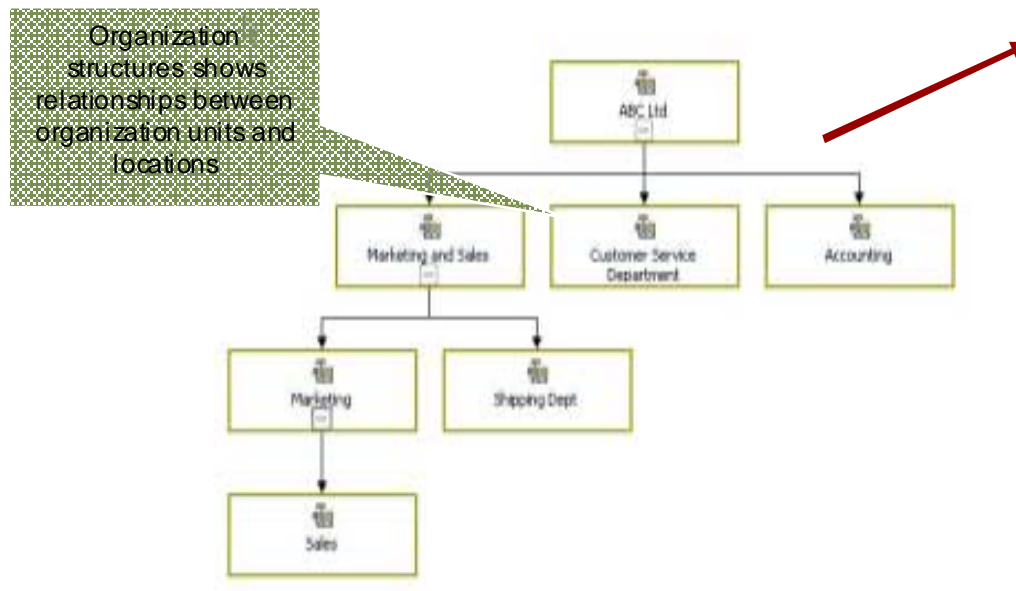
- Defines all role, individual, and bulk resources that are used within the business process and their associated costs
- Complex resource behaviors can be modeled in order to accurately reflect those behaviors in the analysis model
  - ▶ Qualifications and attributes associated to resources help determine the right resource to be used under a given set of circumstances
  - ▶ Use of timetable definitions help to accurately reflect any resource schedules





# The Organization Model

- Defines the structure of organization units and locations
- Graphical organization trees allow for visibility into what the relationship between the organizations and the resources are in order to view hand-offs



ABC Ltd

Instance of:

**Organization attributes**

Attributes of the organization definition. If the organization definition is changed, refresh the table to synchronize the instance with the new values.

Name	Type	Min	Maximum	First value
organizationID	String	1	1	OK
type	String	0	1	
industryType	String	0	1	
businessType	String	0	1	
geographicLocation	String	0	1	
affiliates	String	0	1	
displayName	String	0	1	
businessCategory	String	0	1	
secretary	Staff template	0	1	
assistant	Staff template	0	1	
manager	Staff template	0	1	
<b>Organization Issues</b>				
members	Staff template	1	n	
parentOrganization	Organization te...	0	1	

Attributes of the organization units can be either user defined or adhere to the definitions of a specific runtime

# The Analysis Model

- Critical to understanding how a business process behaves
- Used to perform Return on Investment (ROI) analysis to determine the differences between the current and future states of the business process
- Simulations against the analysis model provides the most comprehensive way to identify complex behaviors of both simple and complex business processes
  - ▶ Robust simulation on the analysis model ensures that decisions made against the business process are based on the metrics that are validated by the business process Subject Matter Experts (SME's)

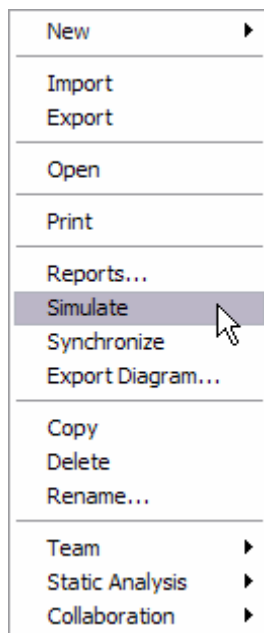
Cost, Revenue, Duration, Resource, and Classifiers are attributes used at modeling time to define analysis model

The screenshot displays the 'Business Modeling' application window. The 'Cost and Revenue' tab is selected, showing four sections for defining costs and revenue:

- Processing cost:** The expense incurred every time this task runs. It includes a 'Literal value' dropdown, a text input field containing '10', a currency dropdown set to 'USD', and a 'Clear' button.
- Startup cost:** The initial expense incurred when this task starts. It includes a 'Literal value' dropdown, a text input field containing '1', a currency dropdown set to 'USD', and a 'Clear' button.
- Unit-time cost:** The expense that increases over time while this task waits for a resource. It includes a 'Literal value' dropdown, a text input field containing 'Unspecified', a currency dropdown set to 'USD', a 'Resource' dropdown, and a 'Clear' button.
- Revenue:** The money that is earned when this task is finished. It includes a 'Literal value' dropdown, a text input field containing 'Unspecified', a currency dropdown set to 'USD', and a 'Clear' button.

# Using the Analysis Model: Simulation

- Weighted average analysis provides a static, long-term view of the process; process simulation captures the shorter-term view
- Ability to model "what if" scenarios and compare results and replay a simulation of a process with changes to the model
- Sophisticated modeling and distribution for resources (individual and bulk), resource skills, resource allocations, cost, revenue and processing time
- Define multiple resources in one step or individually
- Simulation output provides detailed information regarding resource utilization levels, as well as cost and cycle time calculations
- Powerful simulation engine supports conditional branching, steady-state model, run persistence, and multi-process concurrent simulation
- Supports multiple possible input distributions: Lognormal, Exponential, Gamma, Normal, Poisson, Uniform, Weighted List and Random List



Simulation Control Panel - Account Verification (To-Be) Complete Sunday, July 17, 2005 6:25:07 PM CDT

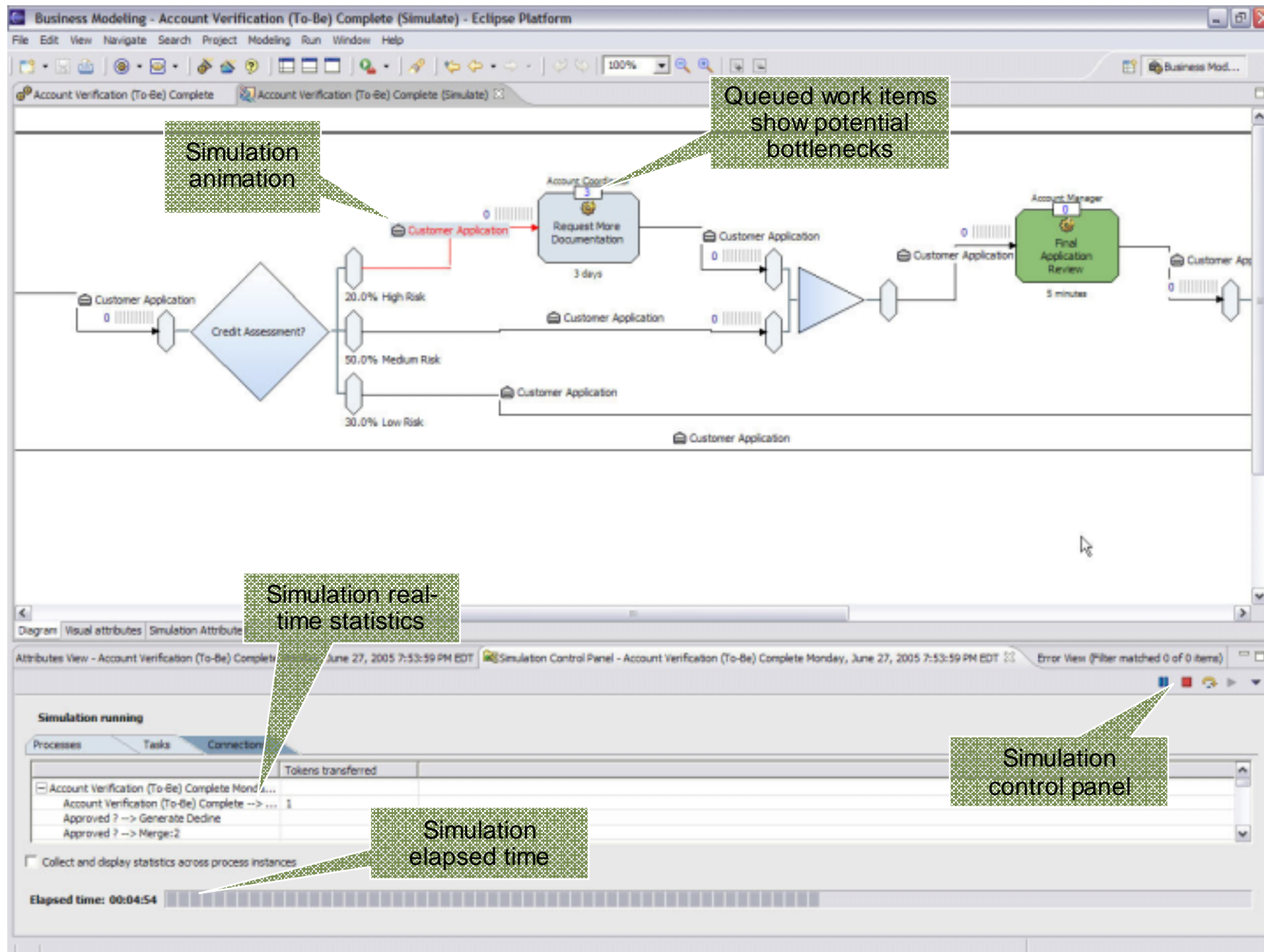
**Simulation complete**

Processes    Tasks    Connections

	Process start time	Process end time	Total revenue	Total cost	Total profit
Account Verification (To-Be) Complete Sunda...	July 17, 2005 7:25:14 P...	July 17, 2005 7:30:29 P...	0 USD	35 USD	-35 USD
Account Verification (To-Be) Complete Sunda...	July 17, 2005 7:26:14 P...	July 17, 2005 7:31:29 P...	0 USD	35.381 USD	-35.381 USD
Account Verification (To-Be) Complete Sunda...	July 17, 2005 7:27:14 P...	July 17, 2005 7:37:29 P...	0 USD	50.381 USD	-50.381 USD
Account Verification (To-Be) Complete Sunda...	July 17, 2005 7:28:14 P...	July 17, 2005 7:43:29 P...	0 USD	65.618 USD	-65.618 USD
Account Verification (To-Be) Complete Sunda...	July 17, 2005 7:29:14 P...	July 21, 2005 9:05:05 A...	0 USD	414.385 USD	-414.385 USD
Account Verification (To-Be) Complete Sunda...	July 17, 2005 7:30:14 P...	July 21, 2005 9:05:05 A...	0 USD	85.999 USD	-85.999 USD

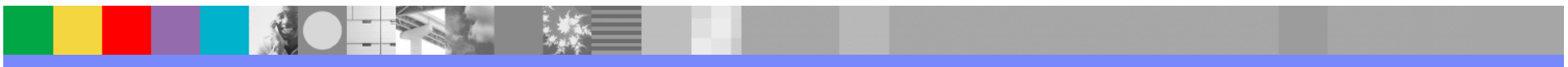
☐ Collect and display statistics across process instances

Elapsed time: 00:00:13



# Using the Analysis Model: Static Analysis

- Summarized information from the 'raw data' entered in the models
  - ▶ **Resource Analysis:** extract information on resource models. For example, display a list of resources and shows their associated roles
  - ▶ **Organization Analysis:** Understand the organization model. For example, display all the occurrences of a specified organization definition
  - ▶ **General Analysis:** Display the types and instances in the project. For example, instance matching analysis to display a 'type' that you specify, such as an location definition or a business item



# Static Analysis Functions

## ■ Resource Analysis

- ▶ Resource roles
- ▶ Qualified Resources for Role
- ▶ Resource Availability
- ▶ Resource Availability for Duration
- ▶ Qualified Resource Availability
- ▶ Qualified Resources Availability for Duration
- ▶ Role Availability
- ▶ Role Availability for Duration
- ▶ Resource Cost
- ▶ Resources Costs Summary
- ▶ Qualified Resource Cost
- ▶ Qualified Resources Costs Summary
- ▶ Role Cost
- ▶ Roles Costs Summary

## ■ Organization Analysis

- ▶ Type Structure
- ▶ Entity Structure

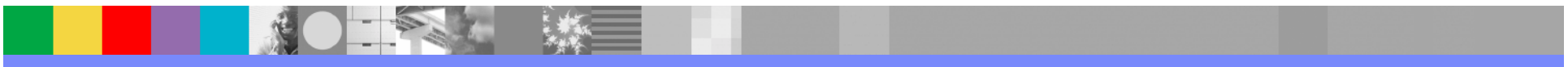
## ■ General Analysis

- ▶ Type Instance Matching Analysis
- ▶ Type Instance Matching Matrix Analysis
- ▶ Matrix Analysis



# Using the Analysis Model: Dynamic Analysis

- Information calculated from the simulation of a modeled process:
  - ▶ **Aggregated Analysis:** Based on execution of tasks. For example, perform task cost analysis that displays the average costs for the task instances for each task (average revenue, execution cost, idle cost, allocated resource cost, total cost, and profit)
  - ▶ **Process Cases Analysis:** Processes that contain branches and decisions have multiple possible execution paths, also known as cases. Based on all the process instances aggregated by their execution paths
  - ▶ **Process Instances Analysis:** Based on individual process instances. For example, perform a process instance resource analysis that displays the task instances involved in a specific process instance (resources allocated per task instance, allocation duration, shortage, and cost)
  - ▶ **Process Comparison Analysis:** Compare the weighted average analysis results for two simulated processes. For example, perform a cost comparison analysis that displays the weighted average costs for two processes (weighted average revenue, execution cost, idle cost, allocated resource cost, total cost, and profit)



# Dynamic Analysis Functions

- Aggregated Analysis Functions
  - ▶ Activity Duration
  - ▶ Activity Cost
  - ▶ Activity Cost Per Time Unit
  - ▶ Activity Statistics
  - ▶ Activity Resource Allocation
  - ▶ Resource Usage
  - ▶ Classifier Cost and Duration
- Process Cases Analysis Function
  - ▶ Process Cases Summary
  - ▶ Process Duration
  - ▶ Process Activities Total Time
  - ▶ Process Cost
  - ▶ Process NPV / IRR (Process Net Present Value / Internal Rate of Return)
  - ▶ Process Break Even
  - ▶ Process Resource Allocation
  - ▶ Process Resource





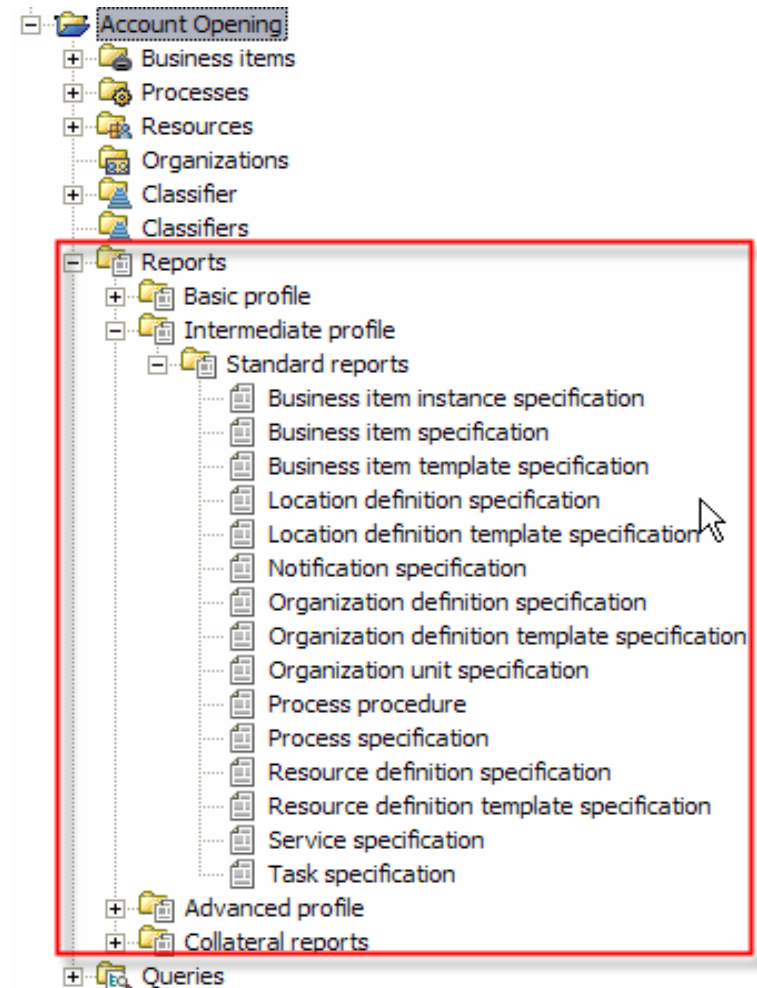
# Dynamic Analysis Functions

- Process Instances Analysis Function
  - ▶ Process Instances Summary
- Processes Comparison Analysis Functions
  - ▶ Process Duration Comparison
  - ▶ Process Activities Total Time Comparison
  - ▶ Process Cost Comparison
  - ▶ Process NPV / IRR Comparison
  - ▶ Process Break Even Comparison
  - ▶ Process Resources Time Comparison
  - ▶ Process Resources Cost Comparison

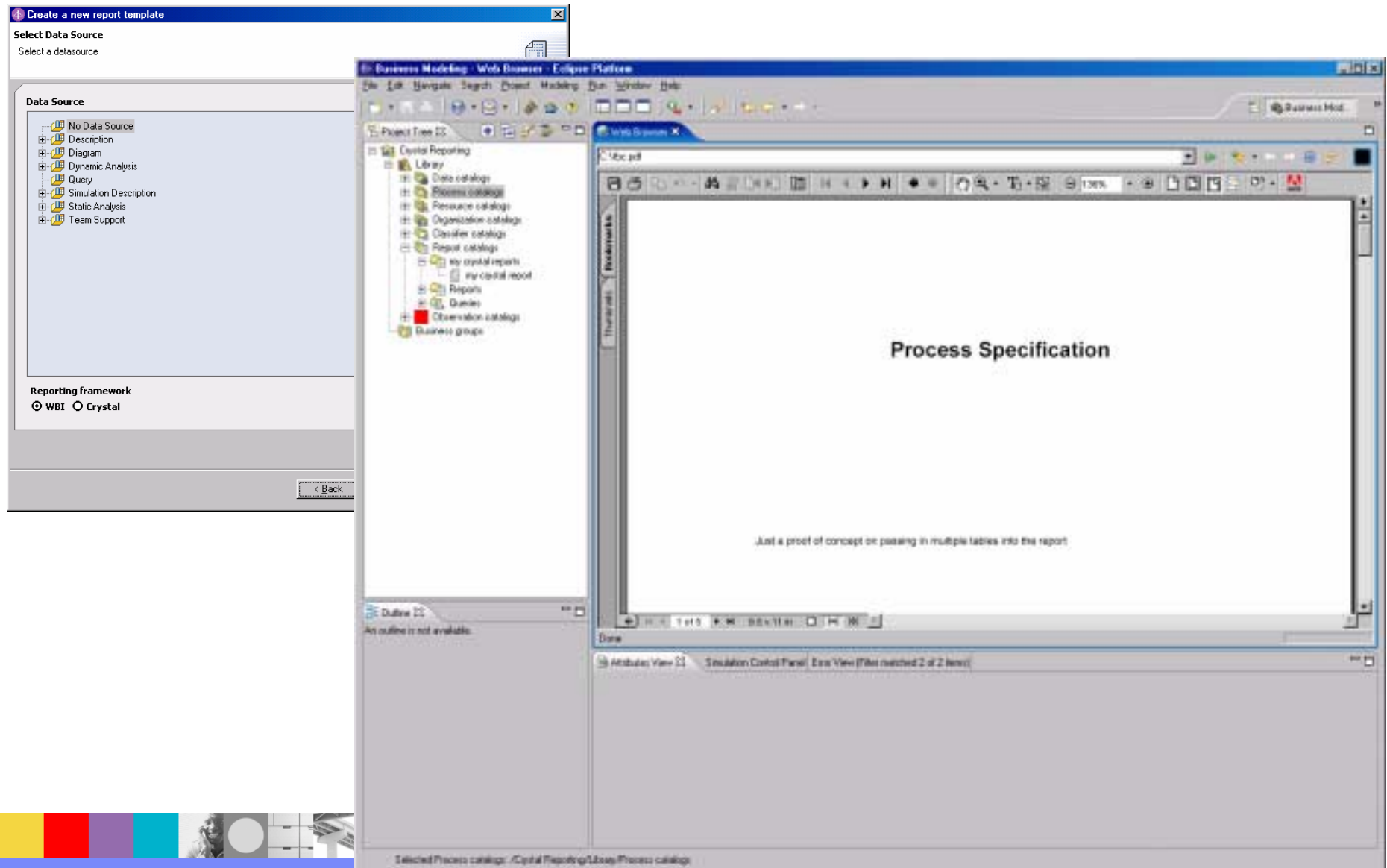


# Reporting

- Generate reports that summarize different aspects of your business processes, using a variety of predefined report templates:
  - ▶ Standard reports based on templates
  - ▶ User defined reports (Report Designer)
  - ▶ Integrated Crystal Reports
- Reporting functions automatically create written, numerical and graphical information
- Reports provides valuable guidance in process analysis and redesign:
  - ▶ Process Summary Report
  - ▶ Process Comparison Report
  - ▶ Process Redesign Report
  - ▶ Procedure Report
- Provides return on investment (ROI) comparisons of As-Is and To-Be models



# Reporting: Integrated Crystal Reports



# The Collaboration Model

- Portal based view of the business process and all associated information
- Association of comments, responses, and documents to the model create a complete view of the business process and all relevant information
- Allows for design time reviews by associating comments and provide responses to reviewers of the business process model
- Published to end users for training and reference purposes with any necessary associated documents or URL's
- Uses Domino database to store models, documents, and model comments/responses
- Bundles Domino database and Portal

# The Collaboration Model

CollabServerConfigAdminReview.avi

The screenshot displays the IBM Business Modeler Collaboration Edition web application. The interface includes a top navigation bar with 'WebSphere Business Modeler Collaboration Edition' and a 'Welcome' banner. The main workspace is divided into several panels:

- Project Tree:** A hierarchical view of the project structure, including 'Account Opening', 'Library', 'resource catalogs', 'data catalogs', 'process catalogs', 'Processes', 'To-Be Process', and 'As-Is Process'.
- Model Elements:** A graphical process view (SVG) showing a flowchart. It starts with a 'Credit Application' task, followed by a decision diamond 'Need Credit Request?'. The flow branches into 'Yes' and 'No' paths, leading to 'Credit Application' tasks and a 'Requires Home ID' task. A callout points to this panel: 'Graphical process view (SVG)'.
- Outline:** A list of process steps: 'Stop Node', 'Stop Node-2', 'Initial Application Review', 'Request More Documents', 'Final Application Review', 'Generate Decline', and 'Provide Pricing & Approval'. A callout points to this panel: 'Outline view of the process'.
- Comments:** A section titled 'Comments on Account Verification (As-Is) Complete'. It includes a table with columns: Status, Priority, Subject, Type, Author, and Responses. A callout points to this panel: 'Association of Comments and Responses with the process or specific elements of the process'.
- Attributes:** A section titled 'General Information' with fields for Name and Description. A callout points to this panel: 'Attributes and associated documents and URL's view'.

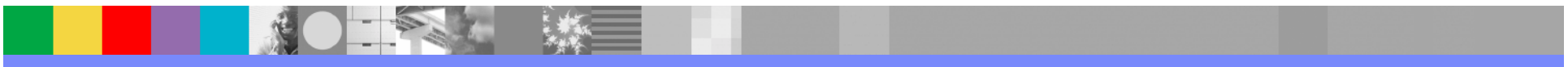
The interface also features a top right navigation area with links for 'My Portal', 'Administration', 'Edit my profile', 'Actions', 'Help', and 'Log out'.

# The Business Measures (Observation) Model

- Defines the contexts of what is monitored during the execution of the business process
- Key Performance Indicators (KPI's) and Metrics are defined both at a business process and activity level of granularity
- Situation and situation outcomes can be defined in order to make KPI's and metrics actionable

# Business Measures Editor (BME) basic features

- **BME hides the generic observation model complex details from the user by an editor**
  - ▶ process graph tab
  - ▶ Observation Model (OM) graph tab
- **BME modeling constructs define runtime business measure computing**
  - ▶ Triggers
  - ▶ Timers,
  - ▶ Counters
  - ▶ Metrics,
  - ▶ KPIs
  - ▶ Aggregation
- **Define events and to the 'Action Manager' in the monitor**
  - ▶ Outbound Events
- **The BME creates a default Business Performance Model (BPM)**
  - ▶ determines process durations and states but not costs.



Business Modeling - Account Verification (To-Be) Complete Business measures - Eclipse Platform

File Edit Navigate Search Project Modeling Run Window Help

Project Tree

- Account Opening 20.3 from Mv6
  - Business Items
  - Processes
    - As-Is Processes
      - Account Verification (As-Is) Complete
        - Account Verification (As-Is) Complete Simul
        - Account Verification (As-Is) Complete D
        - Account Verification (As-Is) Complete M
      - Account Verification (As-Is) Unfinished
    - To-Be Processes
      - Account Verification (To-Be)
      - Account Verification (To-Be) Complete
        - Account Verification (To-Be) Complete Simul
        - Account Verification (To-Be) Complete C
        - Account Verification (To-Be) Complete N
      - Account Verification (To-Be) Complete Busin
  - Resources
    - Organizations
    - Classifiers
    - Reports
    - Queries
    - Predefined resources
    - Predefined organizations
    - Predefined classifiers
- Account Opening v20.3 from Mv5

Account Verification (To-Be) Complete Business measures

Icons are added automatically showing Triggers, Metrics, Timers, Counters and KPIs, etc. as they are added to the model.

Observation Model

Business Measures, KPIs and their Attributes

Attributes View - Undefined

General Properties Trigger Metric Timer Counter Aggregation Event Type

KPI section

KPI section description

Name	Type	Default Value	Target	Upper Bound	Lower Bound	Upper Margin
Accounts Opened Per Day Indicator	Integer	50	65	110	40	40
Account Opening Cost Indicator	Integer	375	350	400	200	200

Metric Calculations

Expression description

Add Remove



## Export Targets of WebSphere Business Modeler Version 6

The screenshot shows the 'WebSphere Business Modeler Export' dialog box. The 'Select type.' section contains a list of export targets. Callouts provide detailed descriptions for several of these targets:

- WebSphere Process Server 6**  
BPEL Process Representation w/Staff assignments  
XSDs for Data Type Definition  
WSDLs for all task/services and partner definitions & for the process itself
- WebSphere MQ Workflow**  
FDL Process definition, control links and no-op operations for complex synchronization & decisions.  
Includes Data Definitions, etc...
- IBM Rational XDE + Business Modeling Profile**  
Activity and Use Case Diagrams, Class Diagrams and definitions for business items, resources, organizations, etc...
- WebSphere Business Monitor 6**  
Observation Model, Business Measures, Key Performance Indicators, etc...
- WebSphere Business Integration 5.1**  
BPEL Process Representation w/Staff assignments  
XSDs for Data Type Definition  
WSDLs for all task/services and partner definitions & for the process itself

The dialog box itself lists the following types:

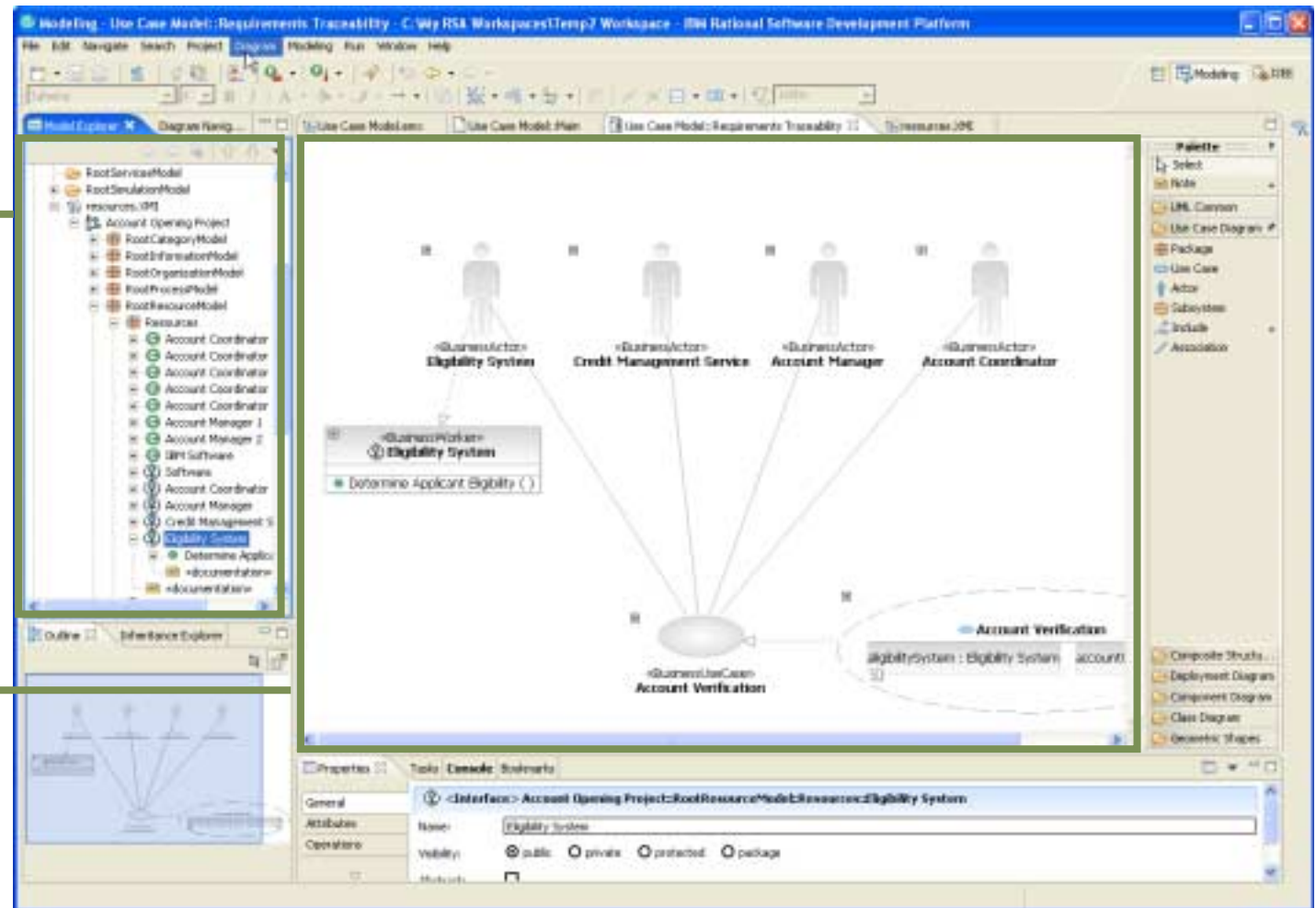
- WebSphere Business Modeler project (.zip)
- UML Business Modeling Profile
- WebSphere MQ Workflow (.fdl)
- WebSphere Business Integration Server Foundation V5.1 (BPEL, WSDL, XSD)
- Delimited text (.csv, .txt)
- WebSphere Business Modeler XML (.xml)
- WebSphere Business Monitor and development tool
- WebSphere Process Server
- CEI Event Catalog

Buttons at the bottom: < Back, Next >, Finish, Cancel.

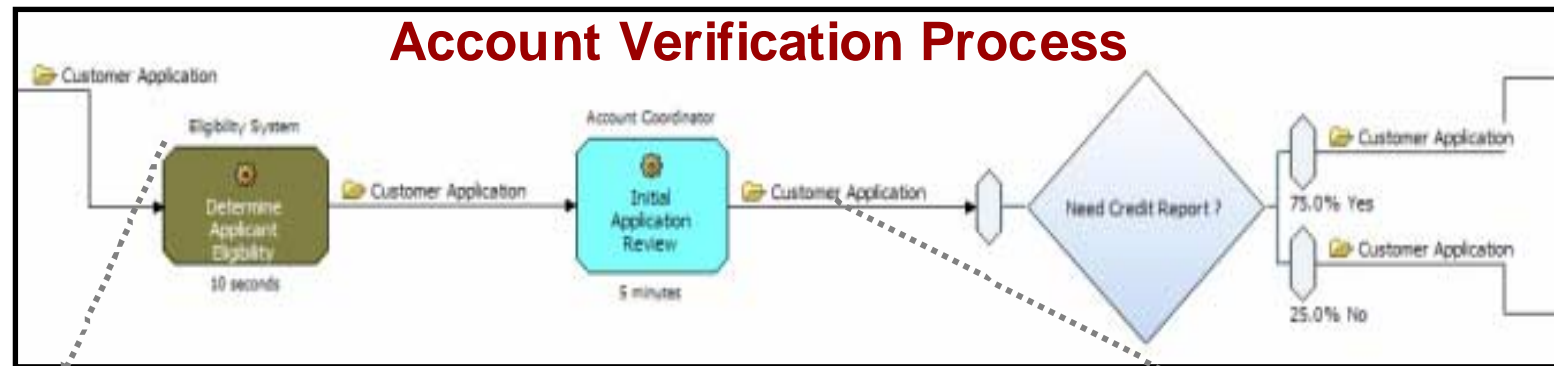
## IBM Rational Software Architect (RSA) Integration: WebSphere Business Modeler Plugin for RSA

*In Rational Software Architect, use the business model from WebSphere Business Modeler as a UML2 Business Contract specification*

*Drag-and-drop modeling artifacts to create UML analysis diagrams*



# The Business Contract Specification: From WebSphere Business Modeler to Rational Software Architect



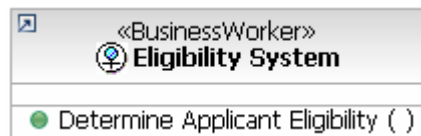
Eligibility System

Customer Application

role

process

business item

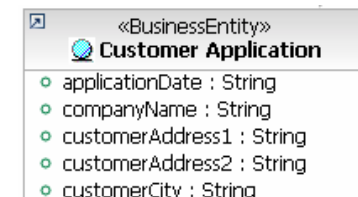


<<Interface>>  
<<Business Worker>>  
**Eligibility System**



<<Business Actor>>  
**Eligibility System**

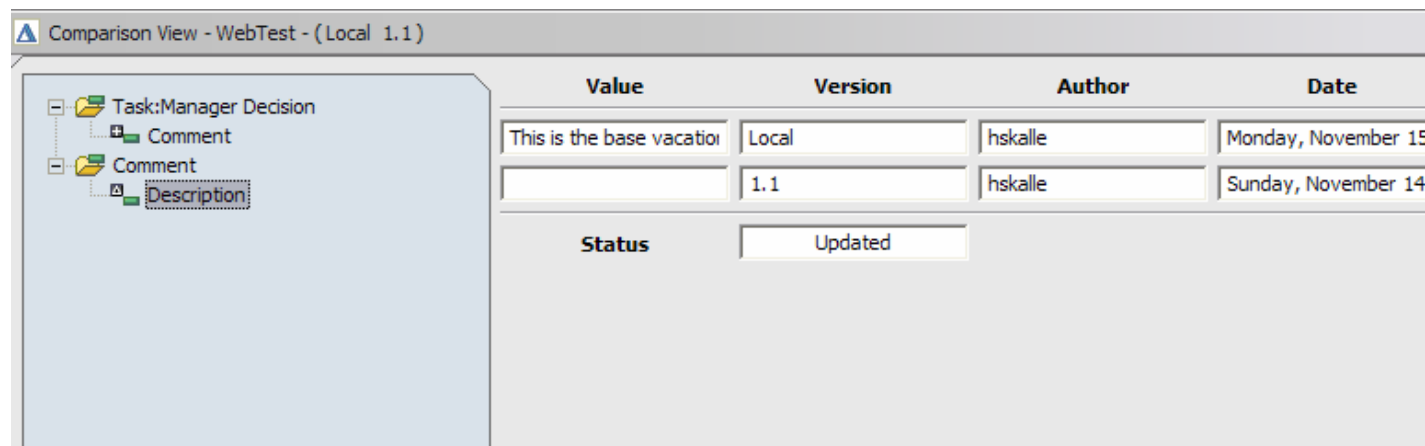
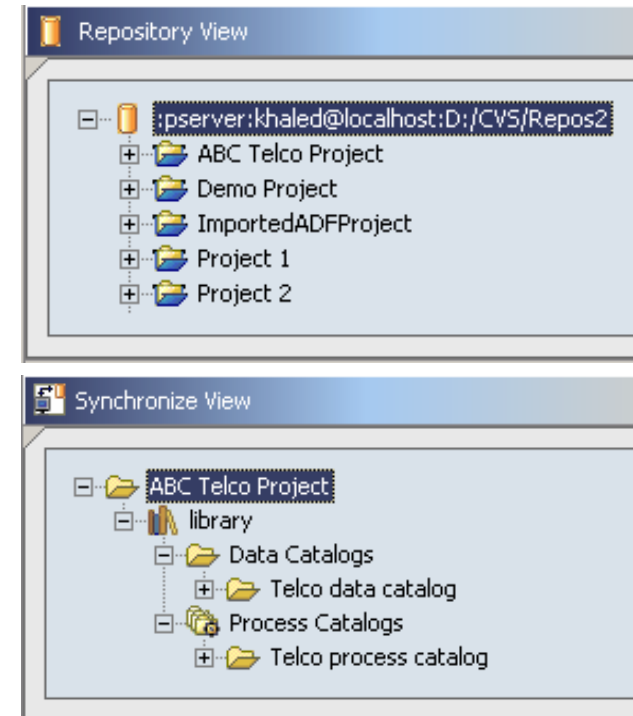
<<BusinessUseCase>>  
**Account Verification**



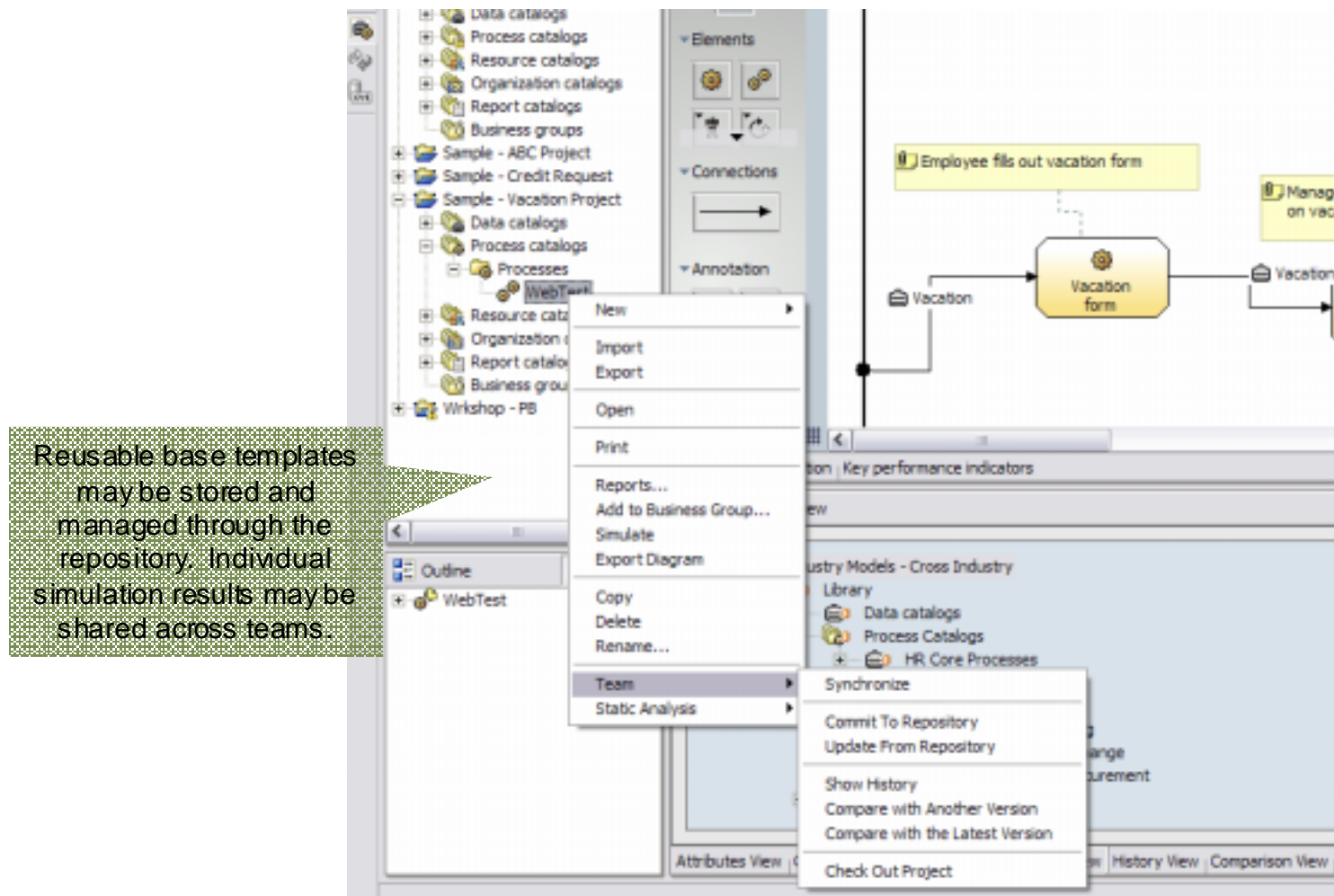
<<BusinessEntity>>  
**Customer Application**

# Team Support

- Multi-User support for sharing projects/files via a repository (CVS or ClearCase)
- Comparison view showing differences between two versions a same process
- Audit trail report showing changes done on an element over multiple versions (history)
- View a list of all revisions of an element in the repository features such as Share, Update, Commit, Synchronization
- Ability to disconnect from the repository



## Work is secured, synchronized and changes tracked



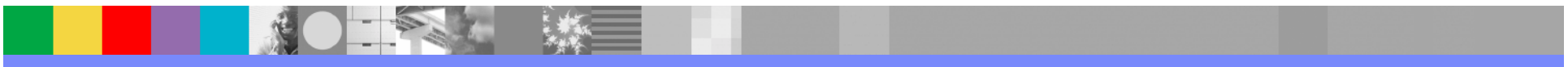
## V5 to V6 Migration

- Migration will be automatically triggered in the following cases:
  - ▶ Workspace migration: The user runs Modeler 6.0 against a workspace that was created in Modeler 5.1.x. The workspace will first be backed-up and then all projects within the workspace will be migrated
  - ▶ Project import: The user imports a project that was exported from Modeler 5.1.x
  - ▶ Project check-out: The user checks a project out from a team repository. The project will be migrated during the check-out



## V5 to V6 Migration

- User models:
  - ▶ KPIs and Observation Points defined in Modeler 5.1.x will not be migrated
  - ▶ Simulation results (from simulation runs in Modeler 5.1.x) will not be available. You must re-run your simulations
  - ▶ All Decision nodes, after migration, will have probabilities associated with them. The probabilities will be automatically generated, based on a uniform distribution



# Agenda

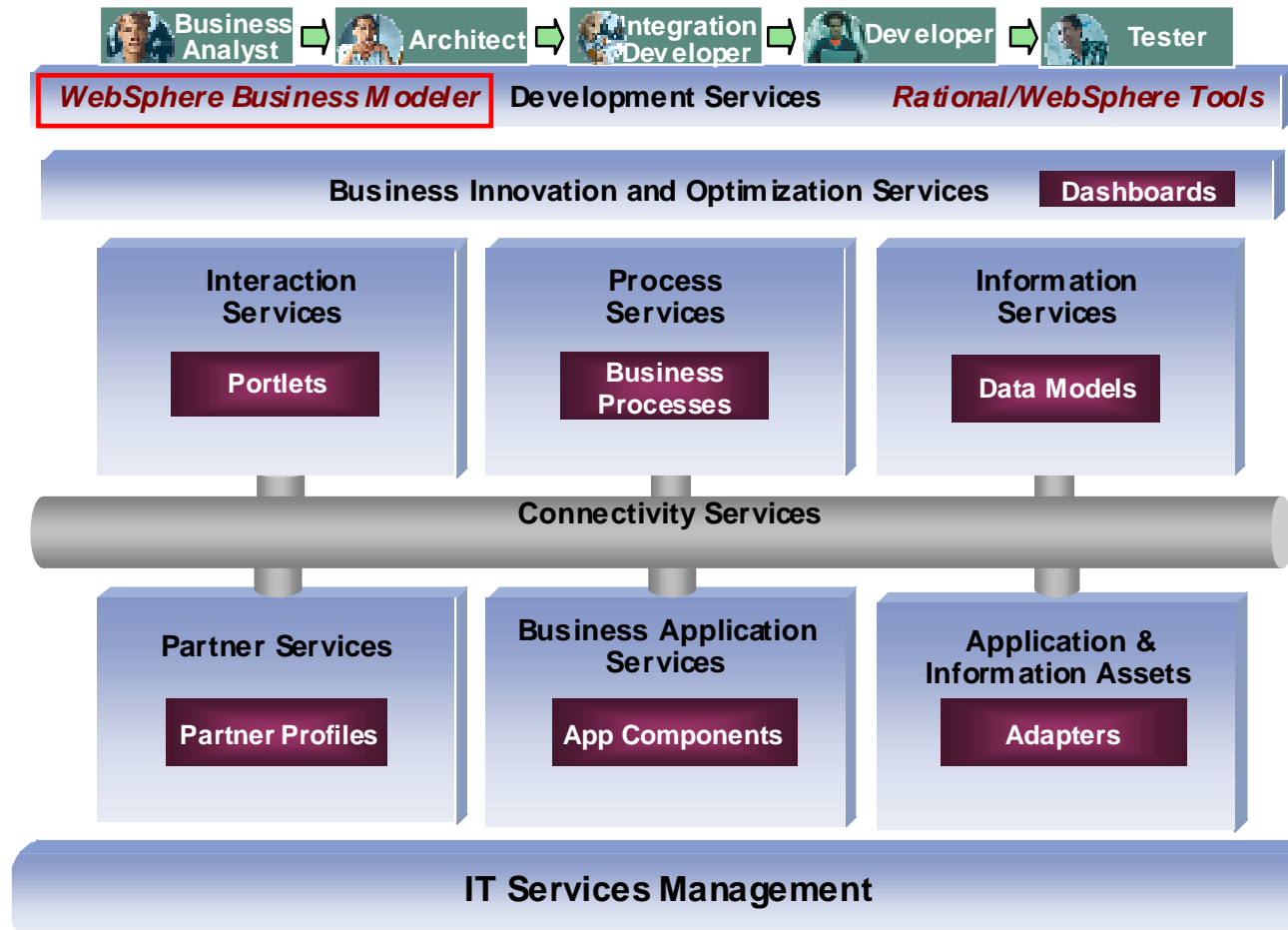
- Why model the business?
- WebSphere Business Modeler
- IBM Software Development Platform and Business Driven Development





# IBM WebSphere Integration Reference Architecture

## Roles and Sample Artifacts



# IBM Tooling Value Proposition

- Industry-leading Business Modeling Tool
- Role-based tools unlocks greater productivity by allowing sharing and a common approach for business and IT



# IBM Software Development Platform – Roles

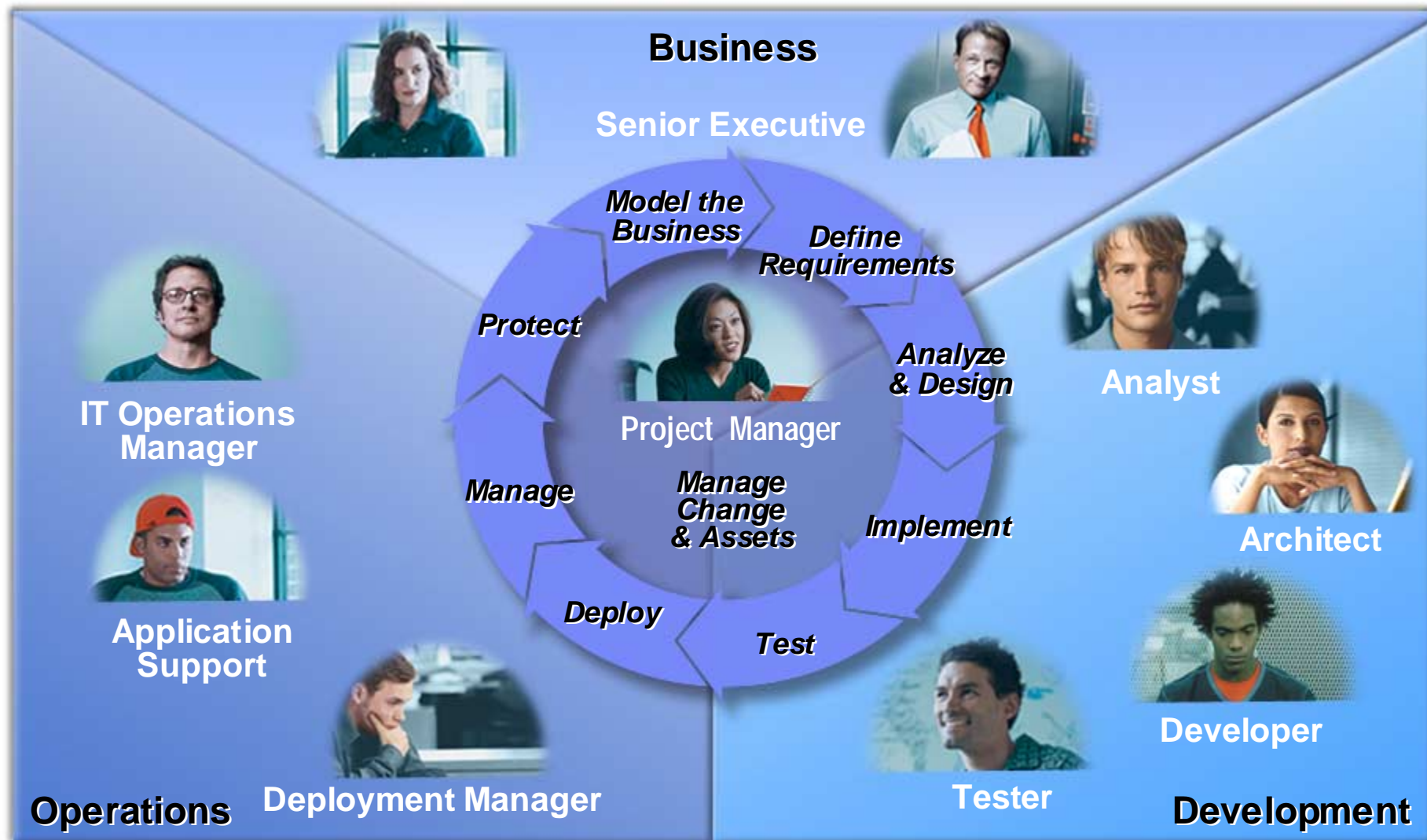
Role	Description	Benefits & Skill Requirements
Business Analyst	Modeling business processes for optimization or to reengineer existing business processes or define new business processes	<ul style="list-style-type: none"> <li><b>No programming experience required</b></li> <li>Can focus on business performance &amp; process</li> </ul>
Integration Developer / Specialist	Visual tools to generate integration logic with existing and new applications and humans in the network	<ul style="list-style-type: none"> <li>some basic programming experience (loops, conditions, string manipulation)</li> <li><b>No J2EE skill required</b></li> <li>Expect tools to simplify and abstract advanced IT implementation details</li> </ul>
Software Architect	Model-driven development environment that automates the translation from design to implementation. Includes requirements and business modeling integrations with RequisitePro and WBI Modeler	<ul style="list-style-type: none"> <li><b>Focused specifically on UML modeling and J2EE implementation</b></li> </ul>
J2EE / Java Application Developer	Comprehensive integrated development environment, for Web, Java, Web services, Portal, and EJB development with visual tools that accelerate application development.	<ul style="list-style-type: none"> <li><b>Focused specifically on J2EE implementation</b></li> </ul>
Enterprise Developer	Tools for maintaining legacy assets and extending them to new users to enable those assets to be used in Service Oriented Architectures (SOA) and as Web services	<ul style="list-style-type: none"> <li><b>Focused on mixed workload of J2EE and COBOL/PL1/RPG environments</b></li> </ul>

# IBM Software Development Platform – Tools

Role	Description	Tool
Business Analyst	Modeling business processes for optimization or to reengineer existing business processes or define new business processes	WebSphere Business Modeler
Integration Developer / Specialist	Visual tools to generate integration logic with existing and new applications and humans in the network	WebSphere Integration Developer
Software Architect	Model-driven development environment that automates the translation from design to implementation. Includes requirements and business modeling integrations with RequisitePro and WBI Modeler	Rational Software Architect
J2EE / Java Application Developer	Comprehensive integrated development environment, for Web, Java, Web services, Portal, and EJB development with visual tools that accelerate application development.	Rational Application Developer
Enterprise Developer	Tools for maintaining legacy assets and extending them to new users to enable those assets to be used in Service Oriented Architectures (SOA) and as Web services	WebSphere Enterprise Developer

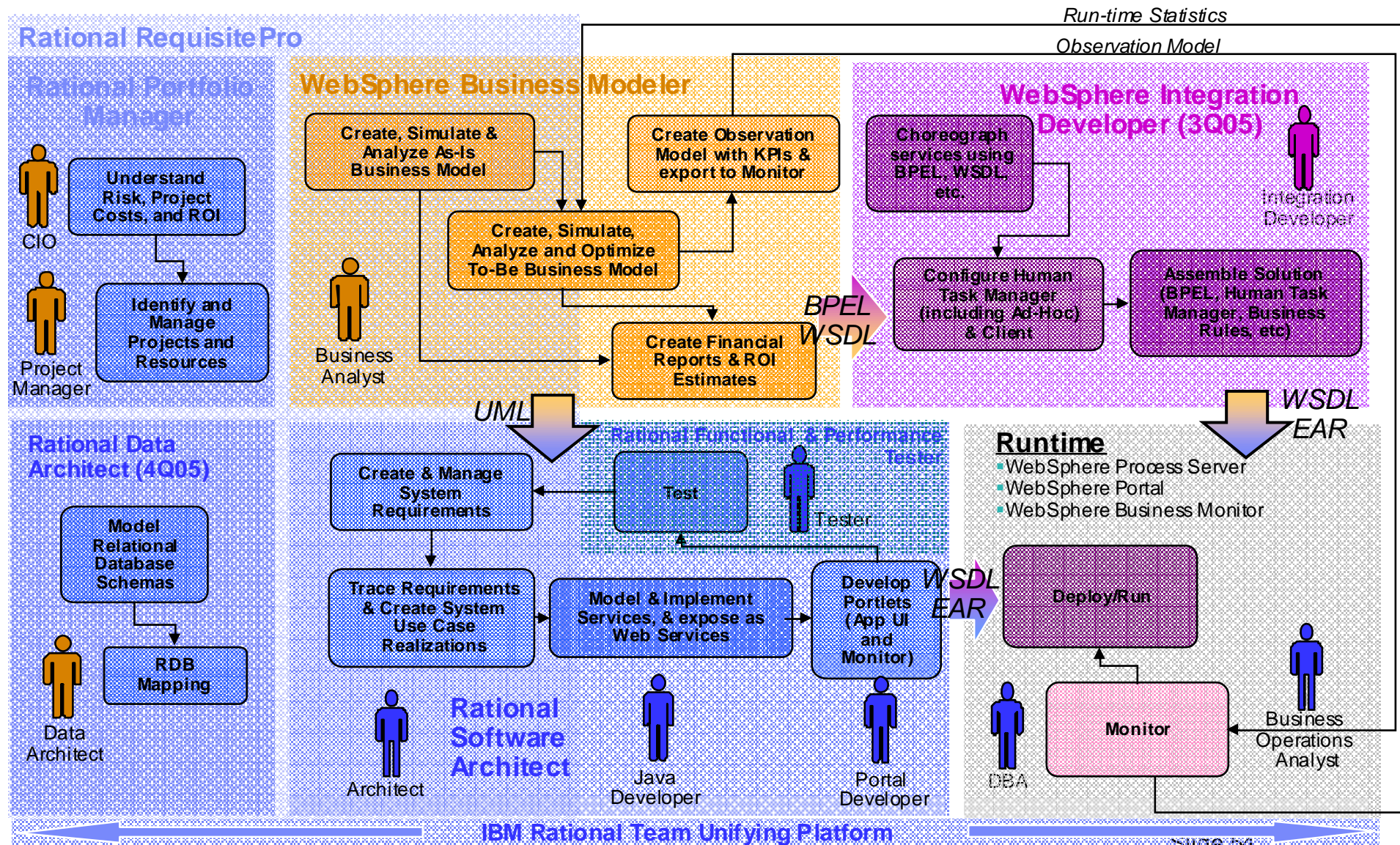


# Business Driven Development Lifecycle





# How to Build a Process Integration solution using BDD



## IBM WebSphere Business Modeler lets you model and optimize your business critical processes:

- Understand and transform your business through superior business modeling, analysis, and collaboration capabilities
- Document business processes for regulatory compliance
- Drive increased customer satisfaction and higher ROI through process optimization
- Anticipate market changes, test and implement process improvements to increase business agility
- Analyze simulation results to correct bottlenecks and workload imbalances
- View animated step-by-step simulation flows. Use simulation snapshots to create reference scenarios and comparisons.
- Define situation and situation outcomes in order to have KPIs and metrics drive appropriate and timely actions
- Ensure rapid and accurate deployment of your solutions by creating implementation artifacts directly from the business model.



धन्यवाद

Hindi

多謝

Traditional Chinese

ขอบพระคุณ

Thai

Спасибо

Russian

Gracias

Spanish

Thank You

English

شكراً

Arabic

Merci

French

Obrigado

Brazilian Portuguese

Grazie

Italian

多谢

Simplified Chinese

Danke

German

நன்றி

Tamil

ありがとうございました

Japanese

감사합니다

