EA02

Enterprise Modeling with IBM Software and Industry Models

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IBM Rational Software Development Conference 2008

WHERE TEAMS ARE R-HEROES

IBM

Rational. software

Objectives

- Introduce & position IBM Financial Services Sector models & Software Delivery Platform
- Introduce key Enterprise Modeling usage scenarios
- Introduce and review Enterprise Modeling, Tooling, and Run-time landscape
- Introduce and review Key Capabilities and Tooling Required to Support Enterprise Modeling scenarios and lifecycle

Agenda

- Introduce & position IBM Financial Services Sector models & Software Delivery Platform
- Introduce and review
  - Key Enterprise Modeling Usage Scenarios
  - High-Level and Detailed Models & Associated Landscape
- Key Capabilities and Tooling Required to Support
  - “Enterprise Model Driven Development” scenario
  - “Governance and Manage Enterprise Model Driven Development” scenario
  - “Govern and Manage Enterprise Model Assets” scenario

IBM Industry Models

- **Focused on Solving Key Challenges**
  - Operational Insight, Risk and Compliance
  - Core System Renewal
  - Process Transformation
  - Data Governance and Standardization
  - Integration through SOA

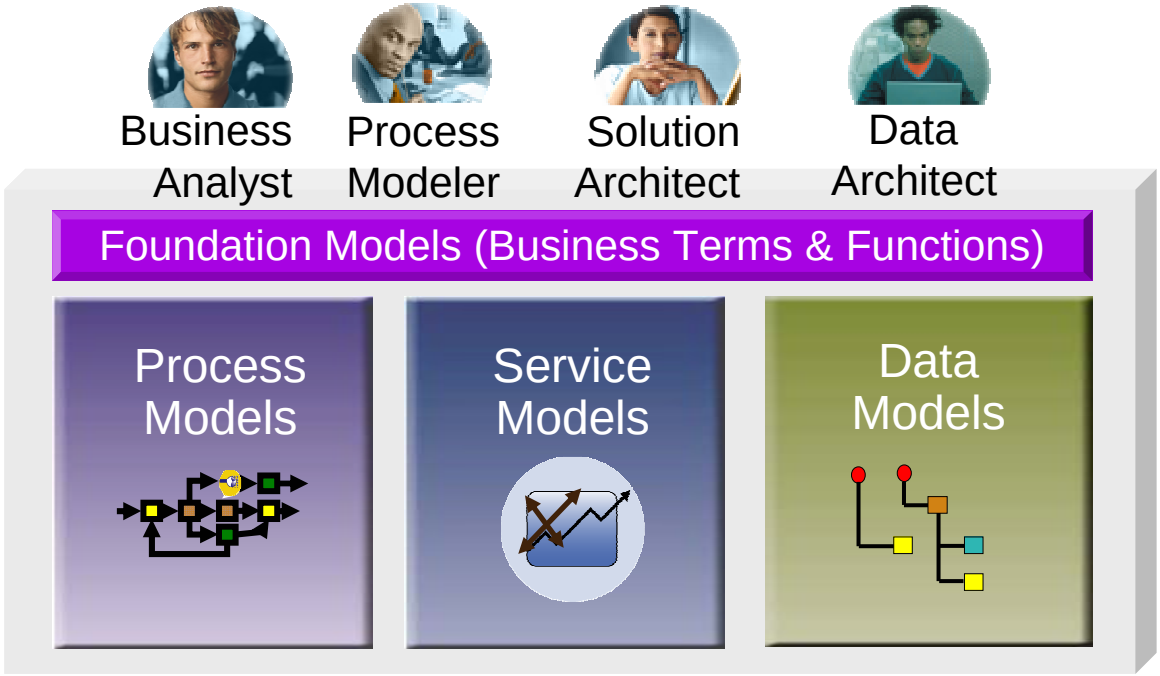
- **Customer Value**
  - Reduces analysis and design of functional requirements by more than 40%
  - Accelerates stakeholder approval by 50%
  - Supports on average 85% of data requirements
  - Compresses time compared to custom-built projects

Banking	Insurance
287+ Workflows	210+ Workflows
1603+ Activities	722+ Activities
2487+ Business Services	602+ Business Services

IBM Industry Model Portfolio

Content & Capabilities we offer…

- Enables business users to easily scope and customize their own requirements
- Facilitates step-by-step business focused development and roll-out
- Delivers regularly updated business, technical and regulatory content
- Creates open technology platform for any application or integration solution
- Manages definitions and standards in complex IT environments



IBM Rational Software Delivery Platform

Capabilities we offer…

Rational. software

Process design and implementation best practices based on a market leading solutions delivery platform

Governance expertise & dashboards

Process & portfolio management

Change & release management

Quality management

Architecture & construction

Integrated requirements management

- In-house
- Outsourced
- Packaged

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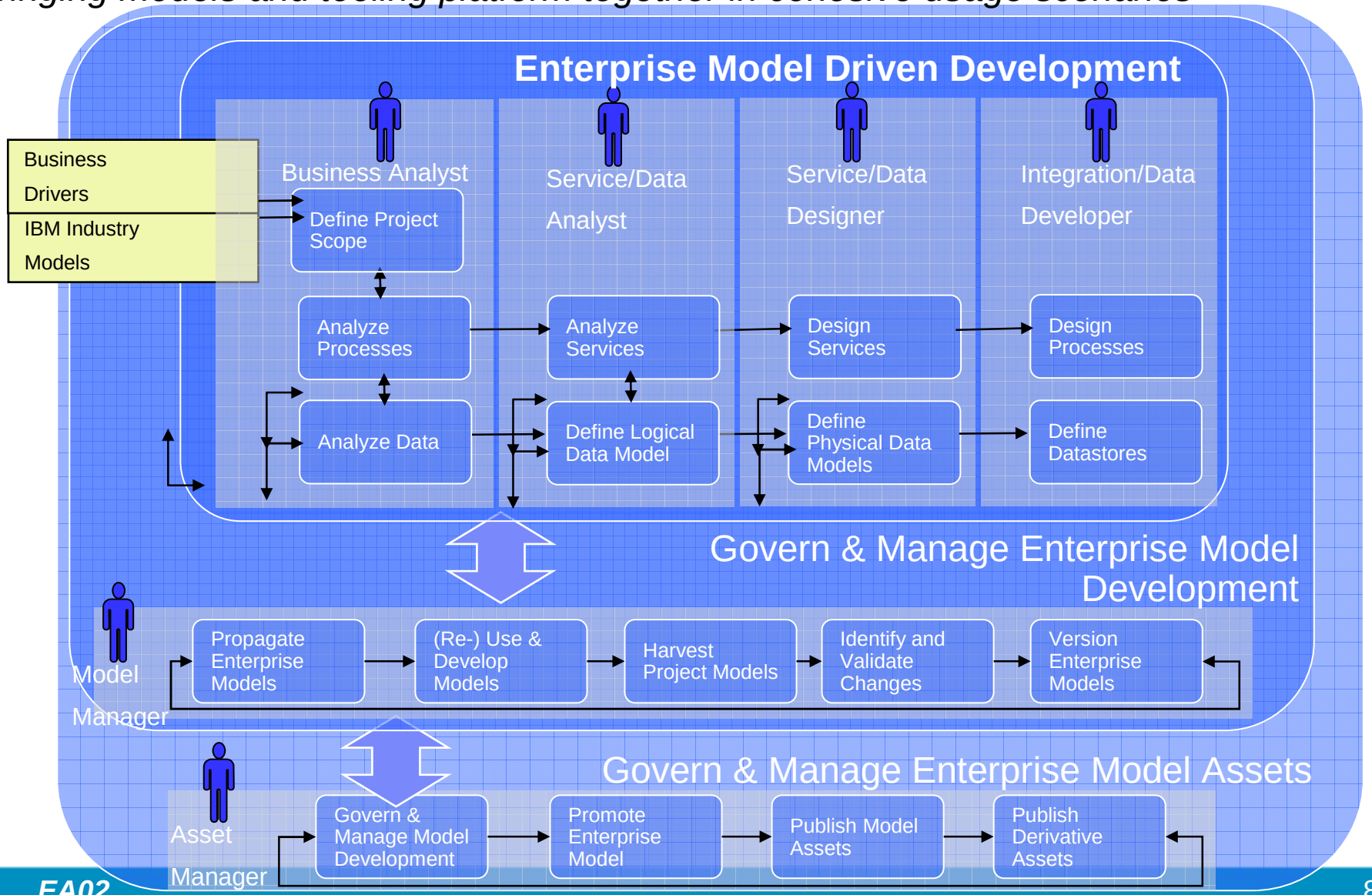
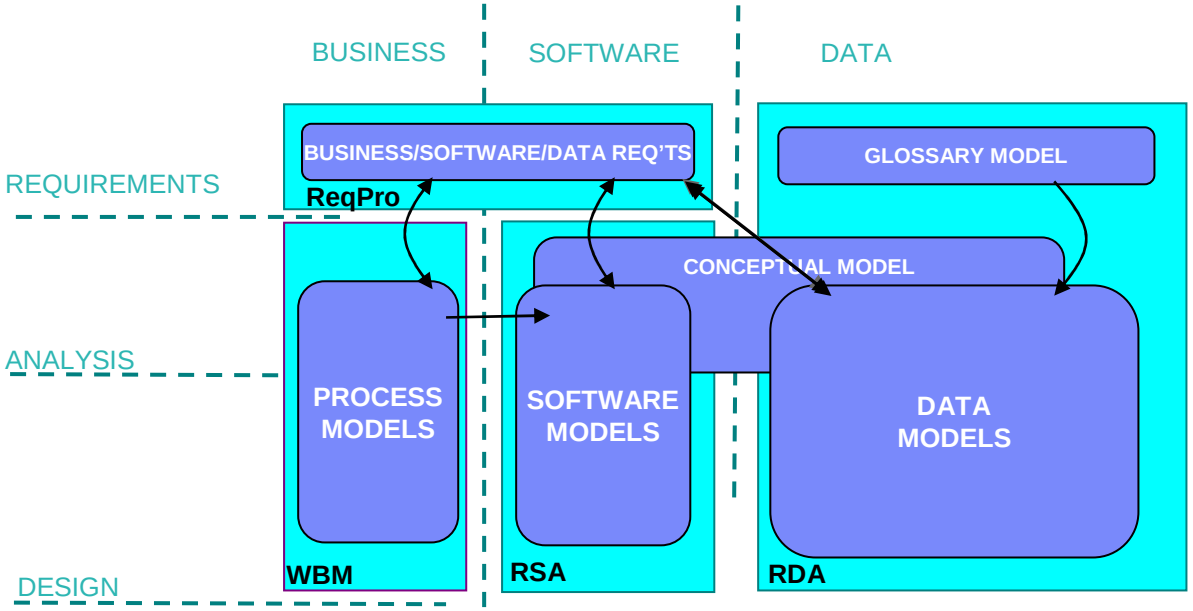
Enterprise Model Driven Development, Management & Governance

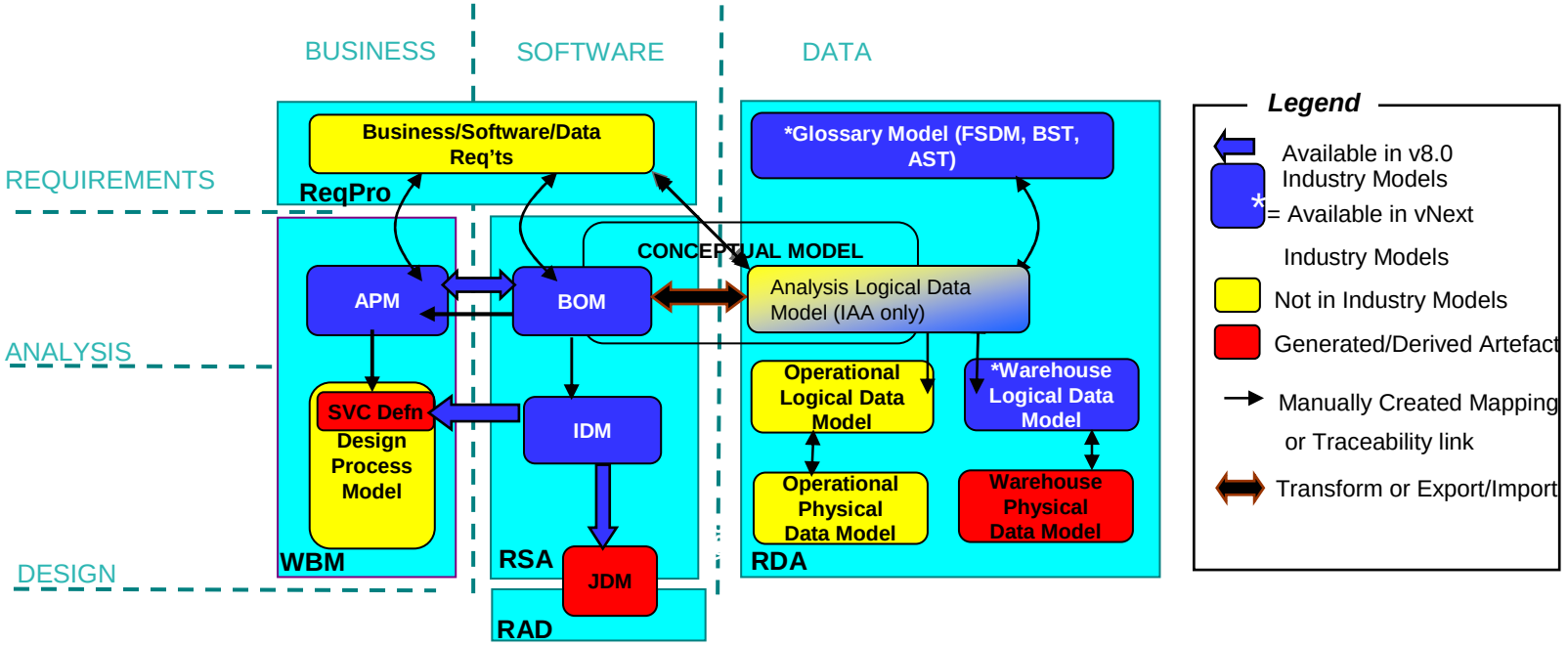
Bringing models and tooling platform together in cohesive usage scenarios



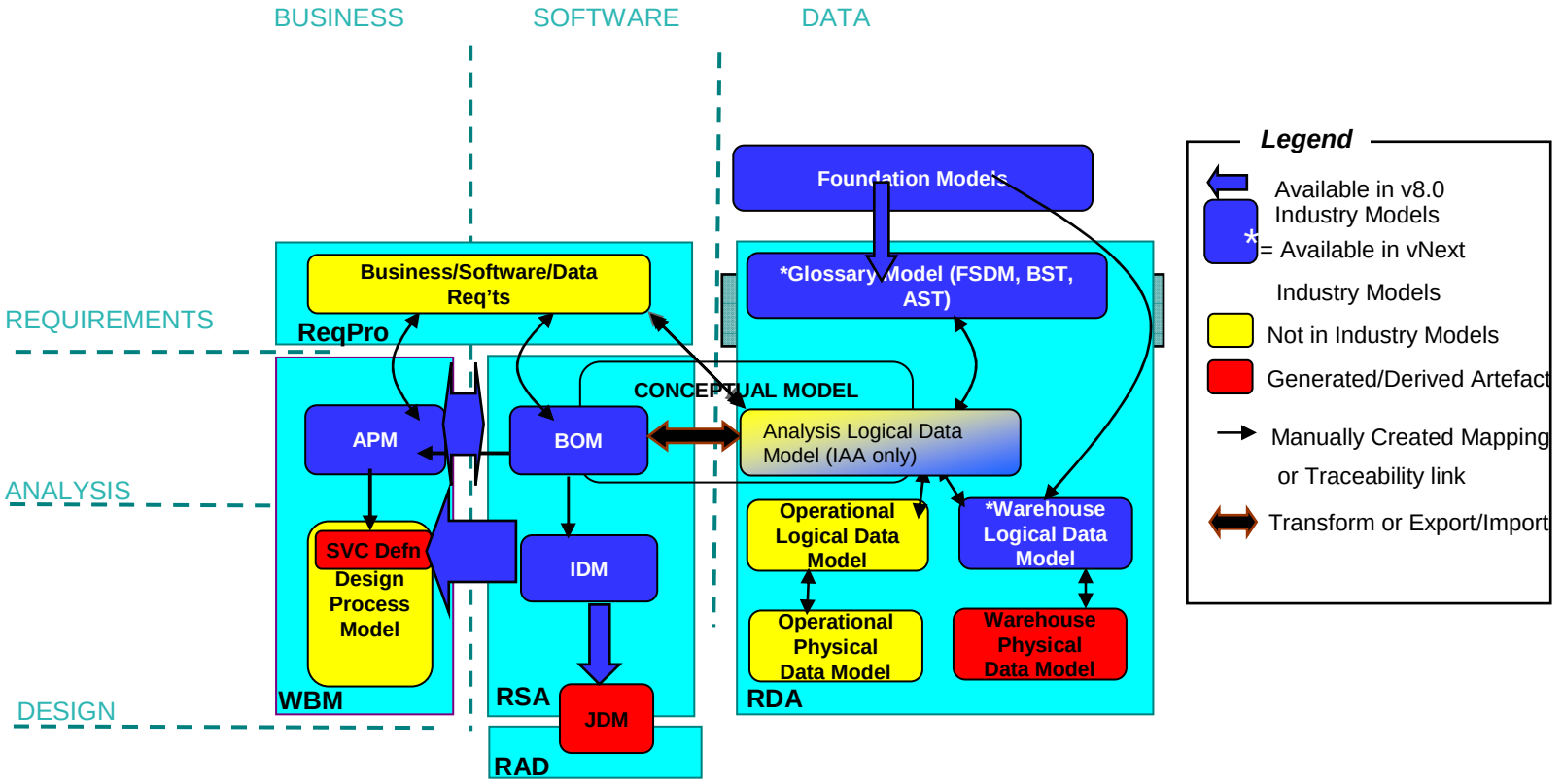
High level model and tooling landscape



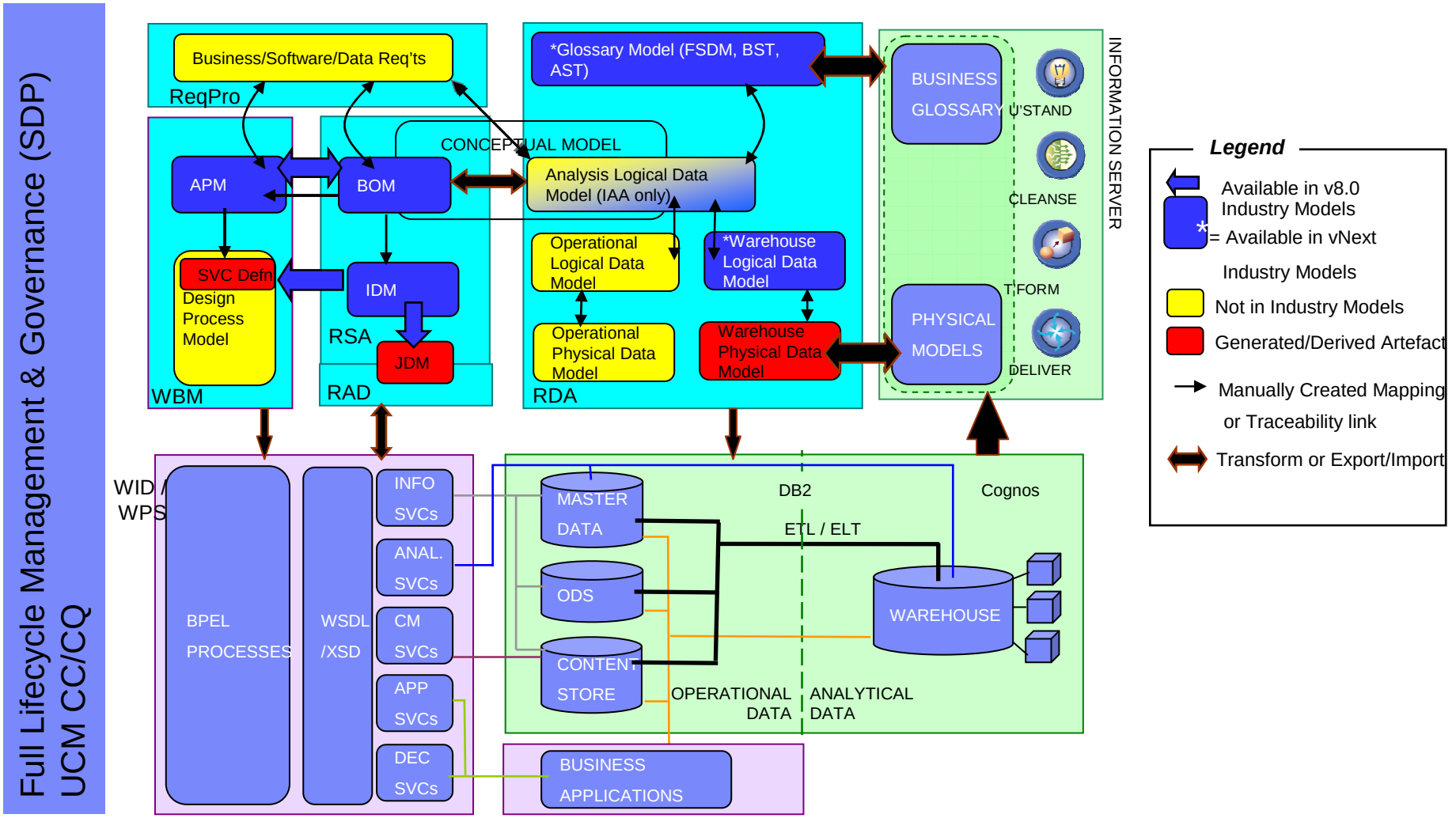
Detailed v8 models and SDP tooling landscape



Detailed v8 models and SDP tooling landscape *with optional EME for RDA*



Detailed modeling, tooling and runtime landscape



Agenda

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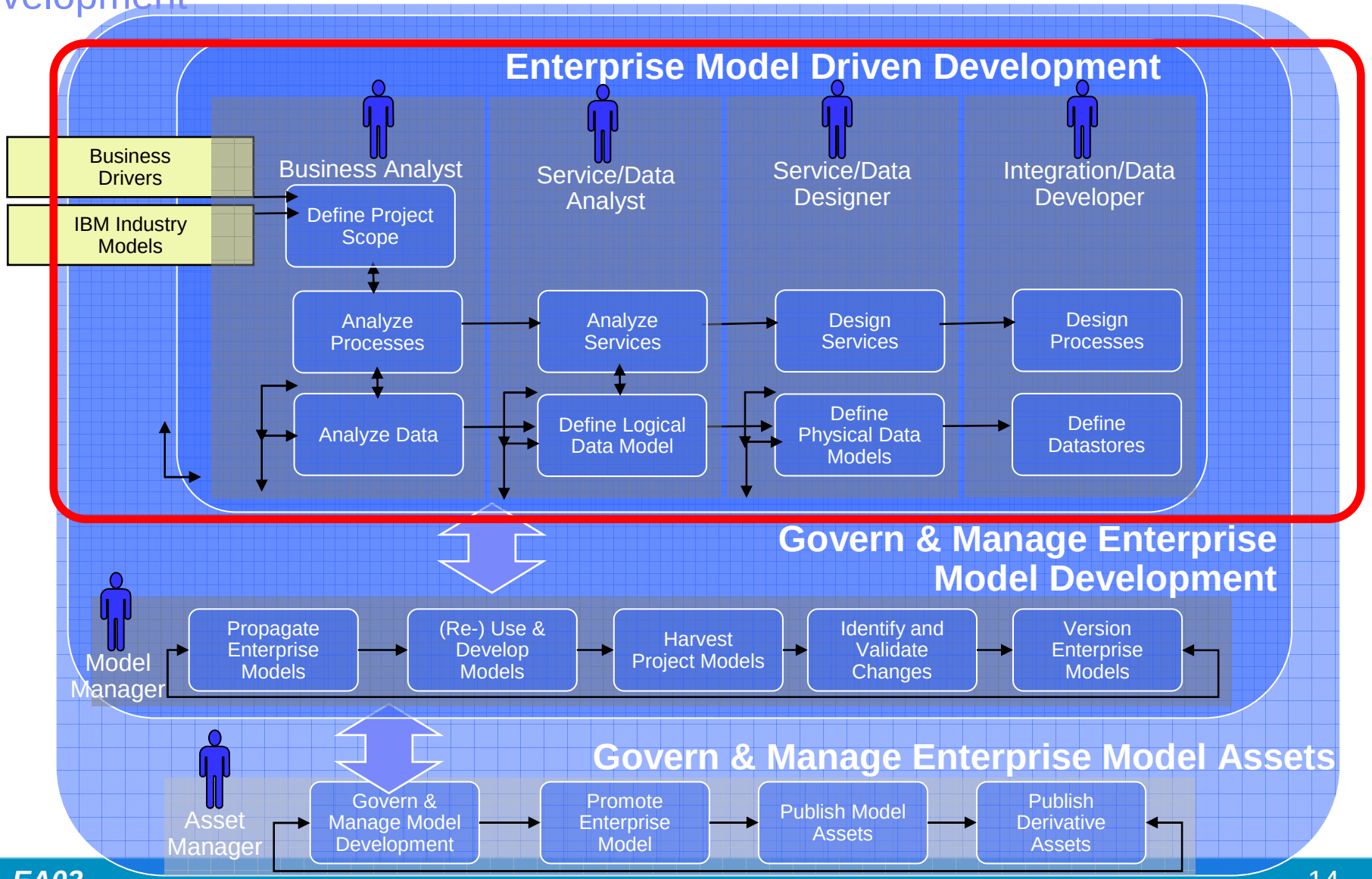
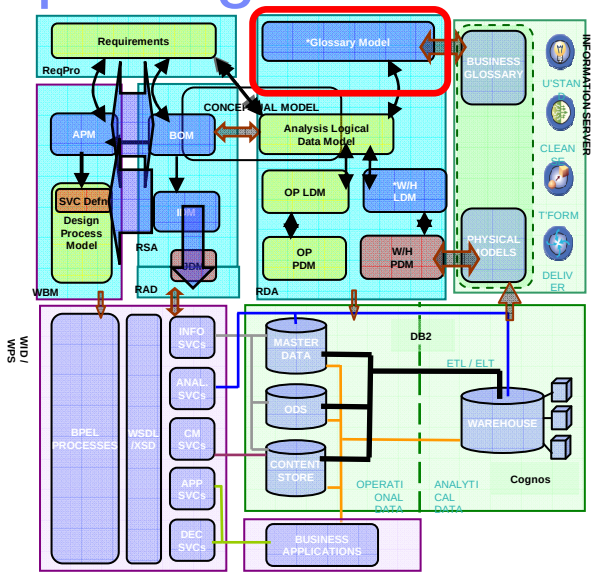
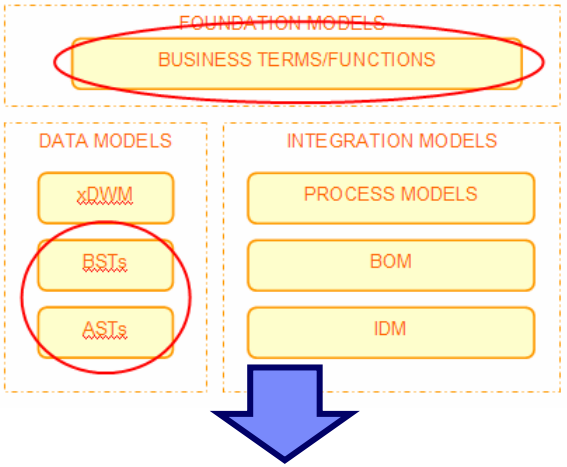
Part One: Key Capabilities and Tooling to support Enterprise Model Driven Development



Exposing Business Terms through Glossaries





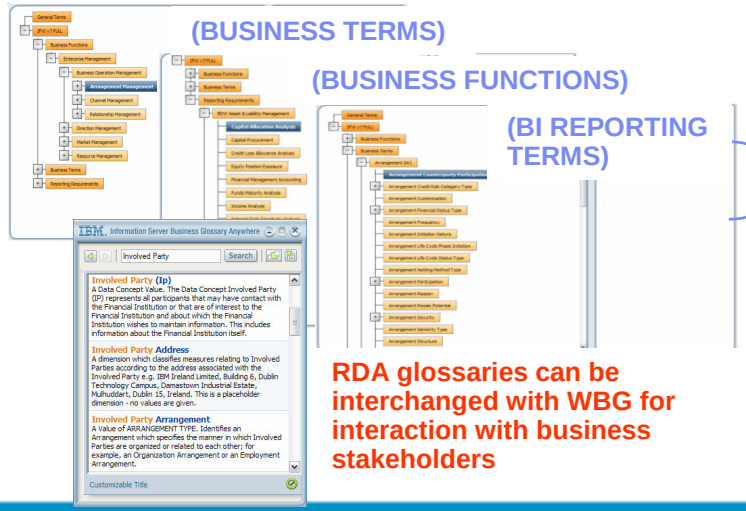
RDA GLOSSARY MODEL

WEBSPHERE BUSINESS GLOSSARY

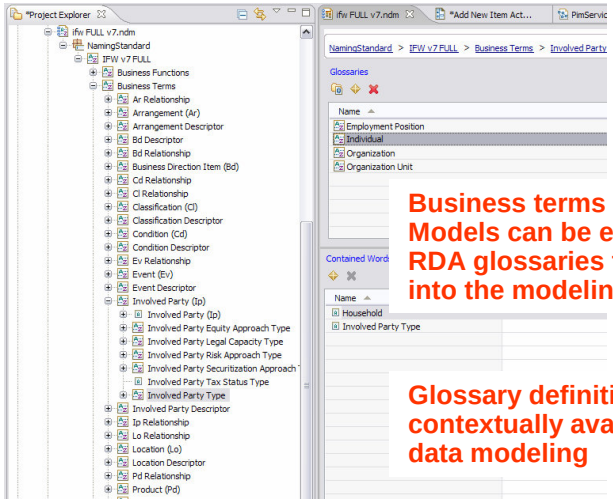
(BUSINESS TERMS)

(BUSINESS FUNCTIONS)

(BI REPORTING TERMS)



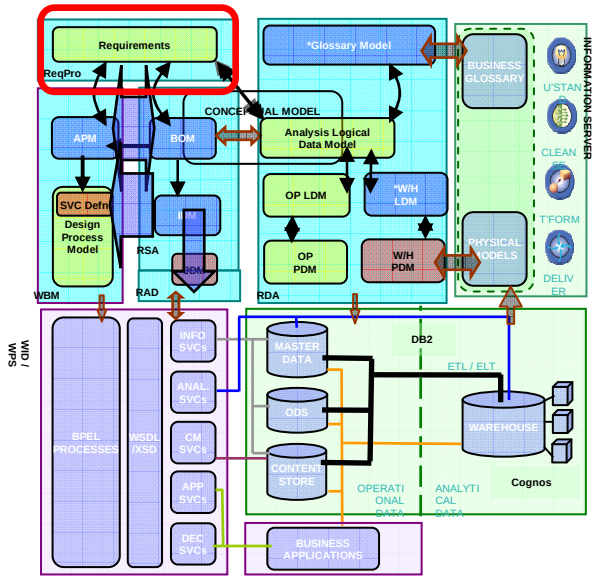
RDA glossaries can be interchanged with WBG for interaction with business stakeholders



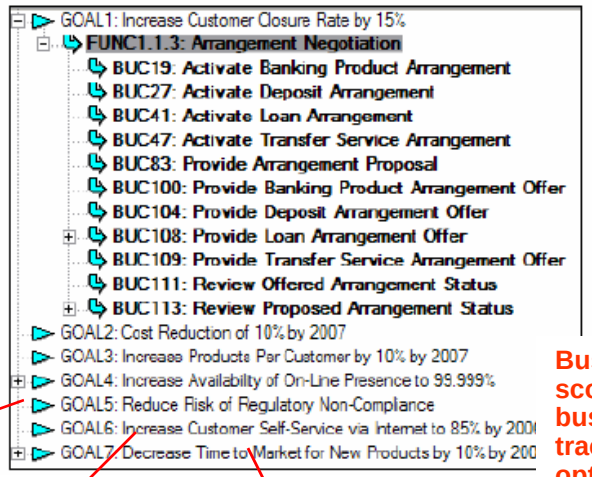
Business terms from Industry Models can be exported to RDA glossaries for integration into the modeling domain

Glossary definitions contextually available during data modeling

Defining and Managing Requirements



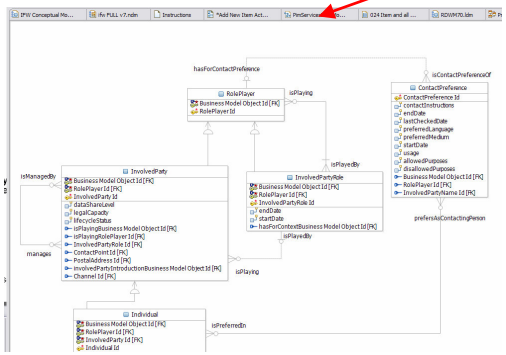
Rational RequisitePRO



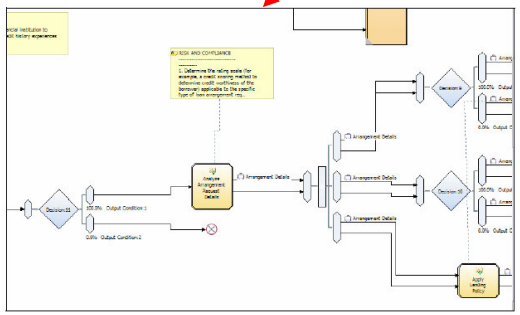
Requirements traceability between RequisitePro and all modeling tools

Business Project scopes and business driver traceability may optionally be managed in RequisitePro

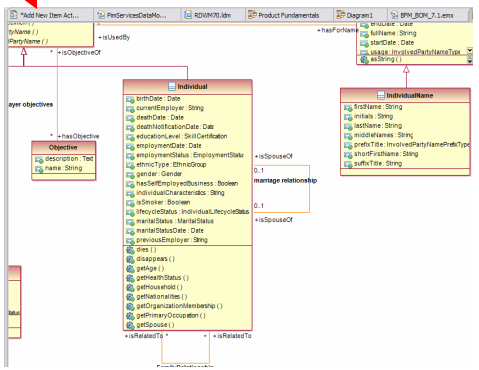
RDA



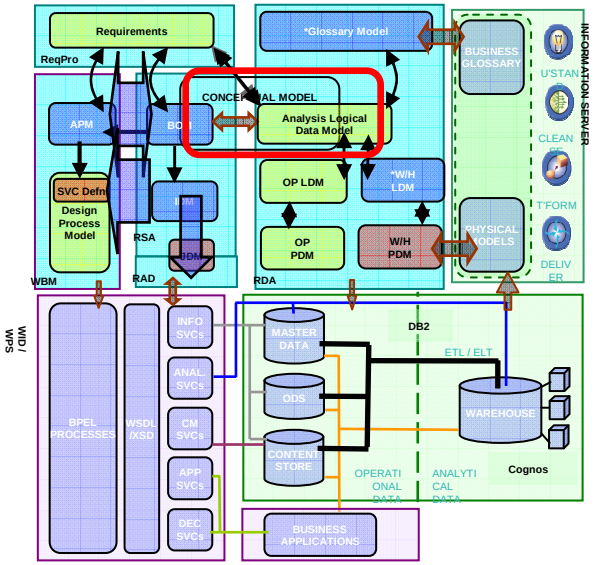
WBM



RSA

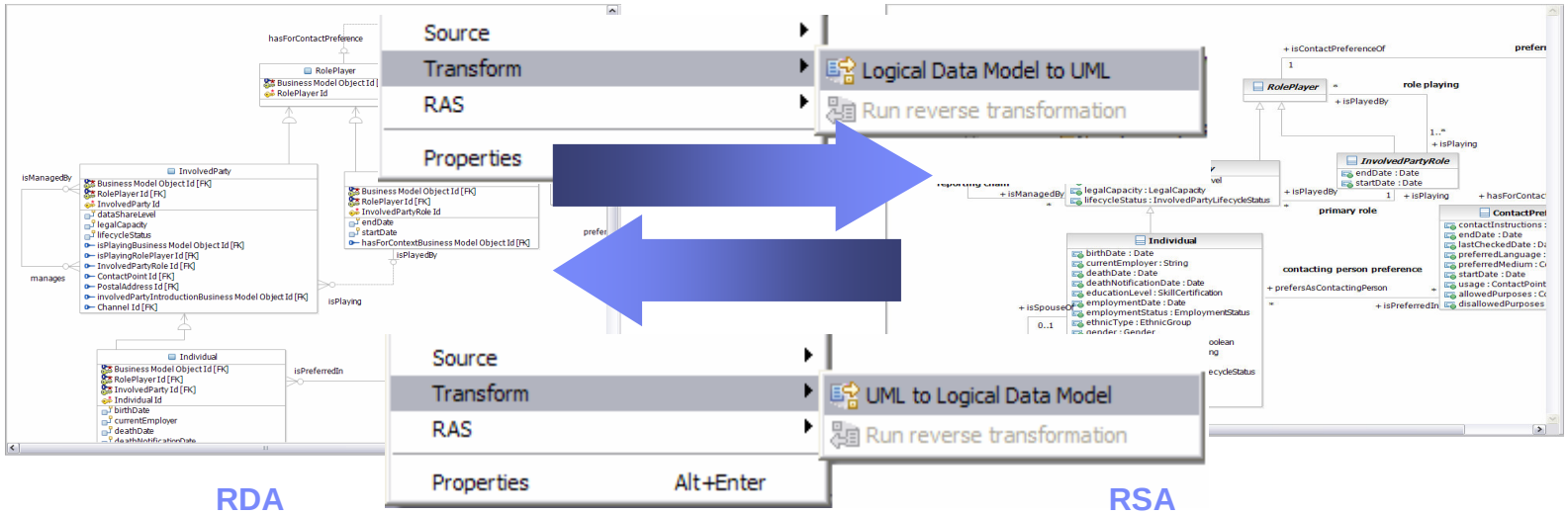


Managing Conceptual Models

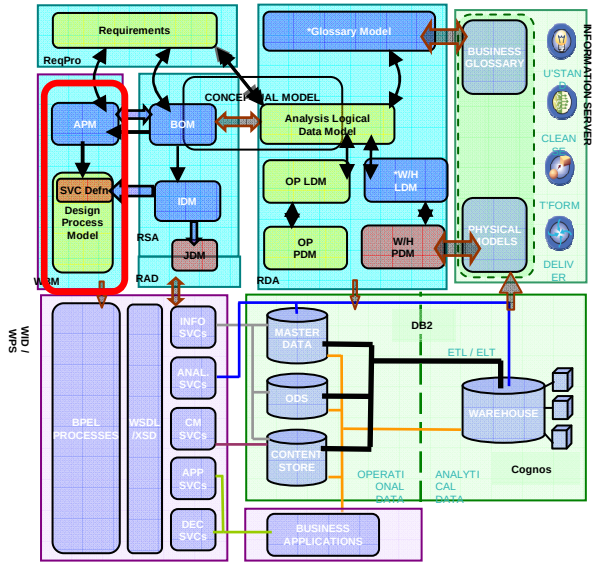


RDA / RSA ship with UML2LDM and LDM2 UML transforms that support the interchange of a conceptual model between the Information Engineering and UML domains.

This supports the interchange of the Class Model in the Business Object Models (BOM) in RSA and a general purpose LDM in RDA.

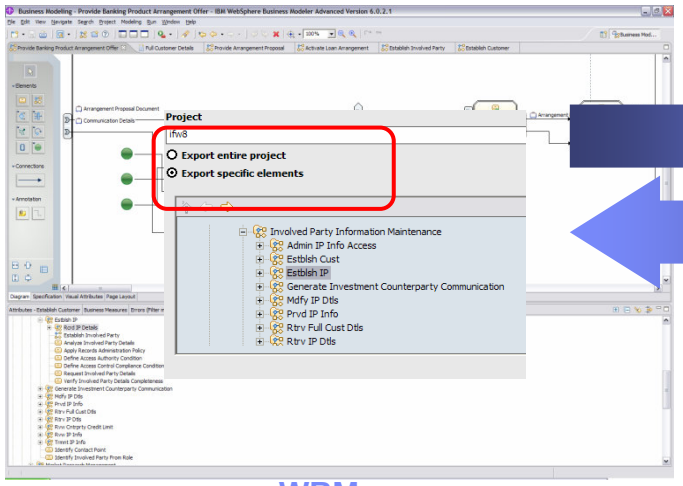


Process Modeling

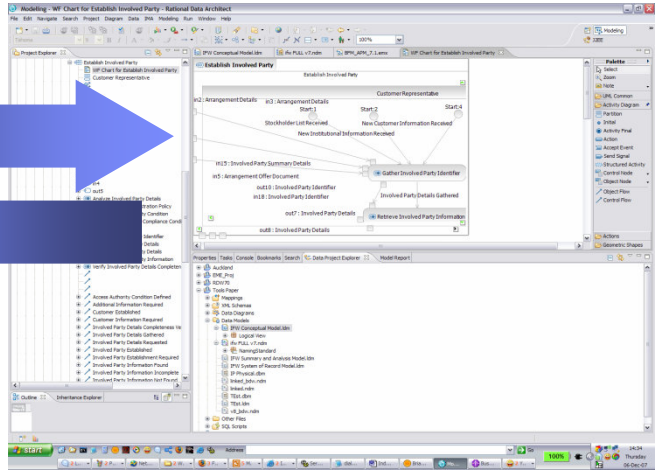


WebSphere Business Modeler (WBM) supports Industry Process modeling requirements.

WBM Models may be interchanged with RSA (as activity model) using Industry Model provided tooling to support process model management short term.

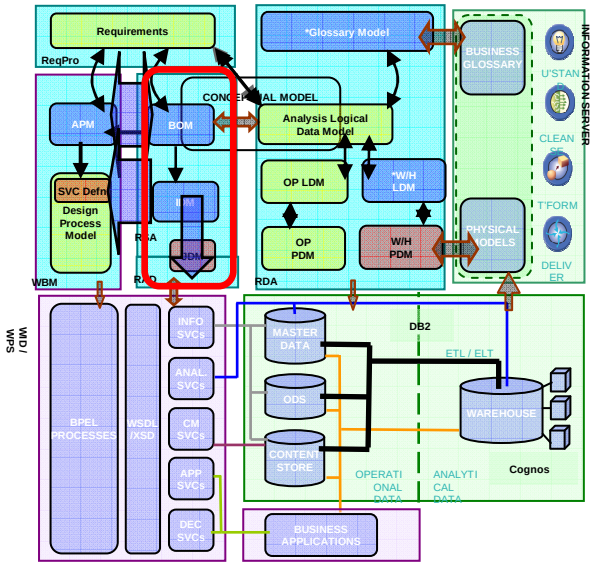


WBM



RSA

Service Analysis and Design

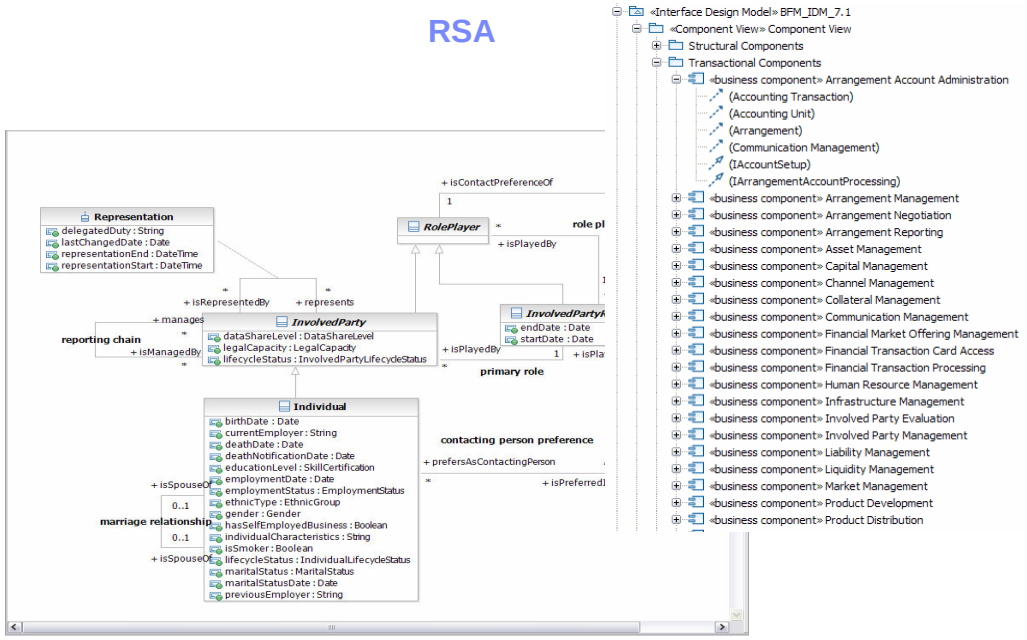


Industry models service analysis and design requirements supported natively by RSA through standard UML modeling techniques.

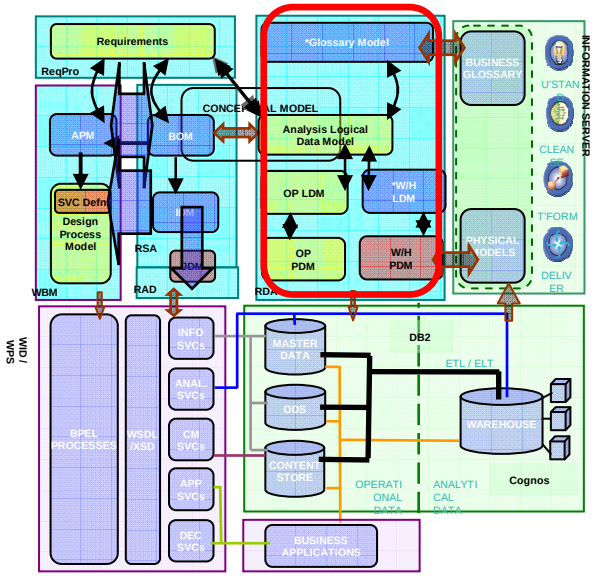
UML models are connected to the data domain through UML-LDM interchange.

UML models are connected to the process domain through the Industry Models WBM<->RSA bridge

RSA



Informational Analysis and Design

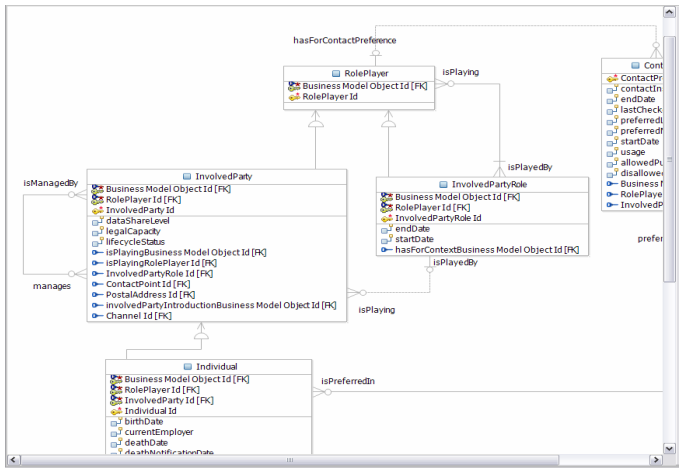


Industry models data analysis and design requirements supported natively by RDA including extensive mapping (MSL), generation and traceability requirements.

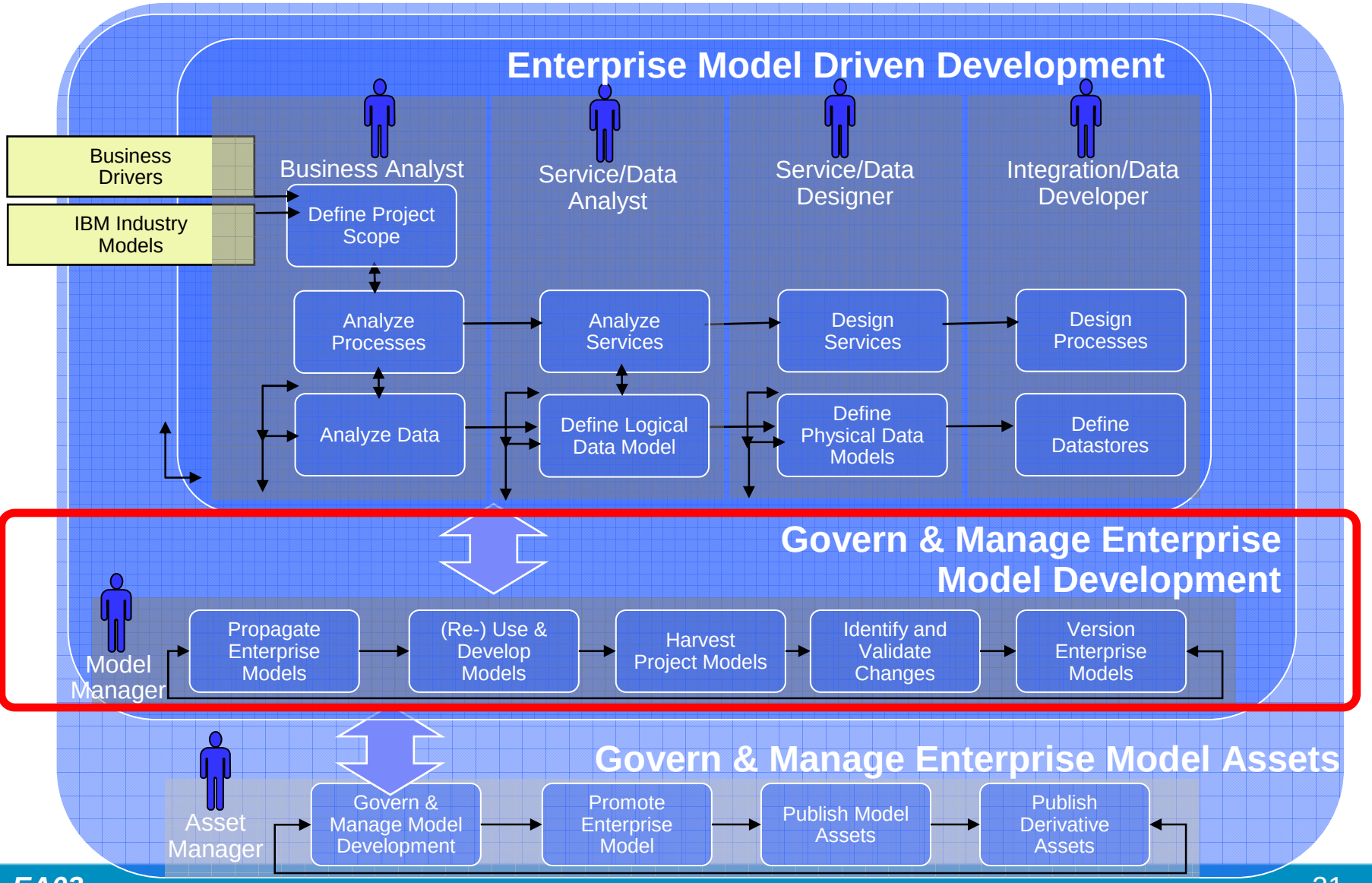
Data models may be traced to business terms in the form of glossary models.

Data models are connected to the UML domain through LDM-UML interchange.

RDA

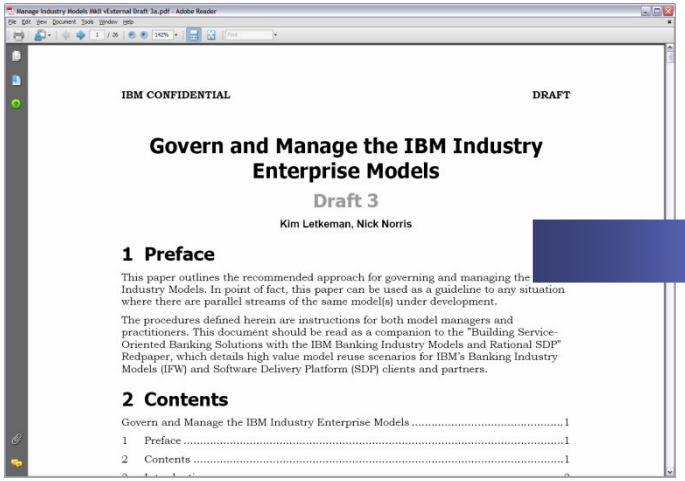


Part Two: Govern & Manage Enterprise Model Development



Model management through RSA/RDA with UCM CC/CQ

Structured model management guidelines exist leveraging the merge/compare capabilities of the SDP, and integrating with source management environments such as ClearCase or CVS.



IBM CONFIDENTIAL DRAFT

Govern and Manage the IBM Industry Enterprise Models

Draft 3

Kim Letkeman, Nick Norris

1 Preface

This paper outlines the recommended approach for governing and managing the Industry Models. In point of fact, this paper can be used as a guideline to any situation where there are parallel streams of the same model(s) under development.

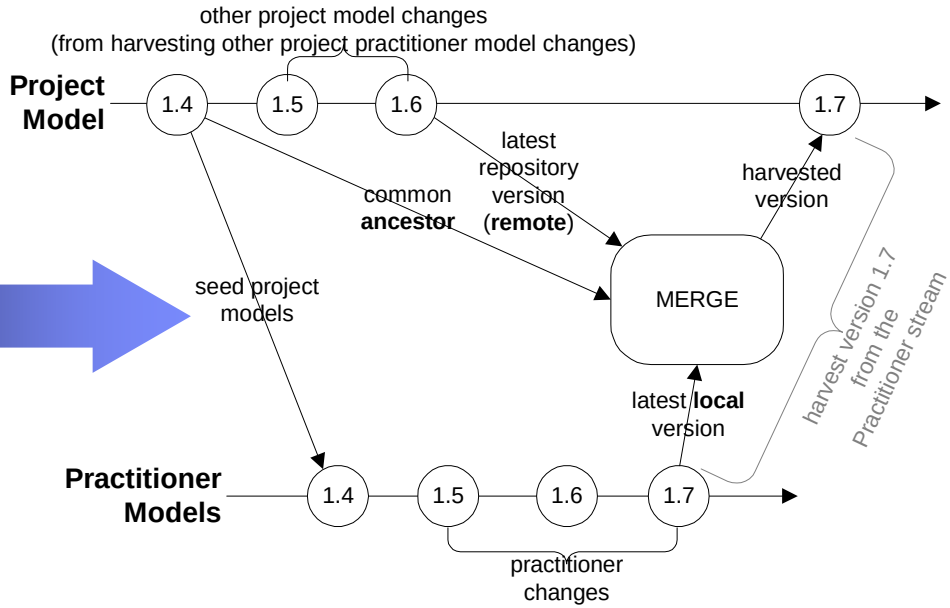
The procedures defined herein are instructions for both model managers and practitioners. This document should be read as a companion to the "Building Service-Oriented Banking Solutions with the IBM Banking Industry Models and Rational SDP" Redpaper, which details high value model reuse scenarios for IBM's Banking Industry Models (IFW) and Software Delivery Platform (SDP) clients and partners.

2 Contents

Govern and Manage the IBM Industry Enterprise Models 1

1 Preface 1

2 Contents 1

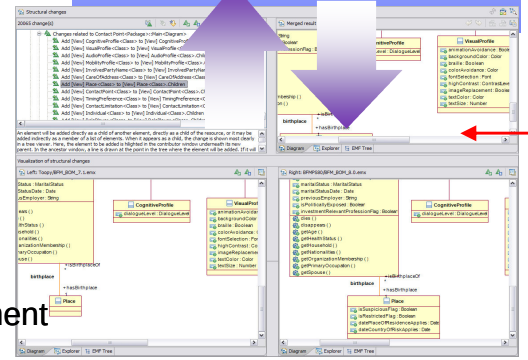


These guidelines have been successfully piloted at a number of IFW customers.

Homogenous model management

RATIONAL CLEARCASE

SCM based management of model artifacts during model development/customization projects



Common SDP based merge/compare of:

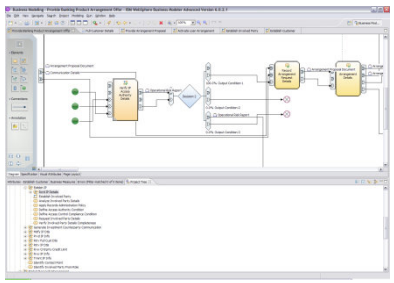
- *Glossaries (RDA)*
- *Processes (currently by import to RSA)*
- *UML models (RSA)*
- *Data Models (RDA)*

Model development/customization activities within dedicated modeling tools in accordance with Section 1

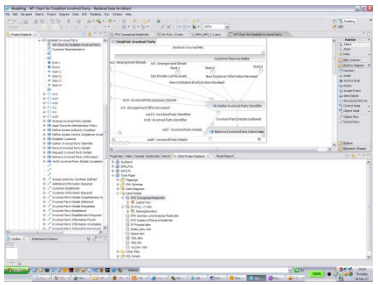
WBM Models may be interchanged with RSA activity models utilizing Industry Model provided tooling to support model management short term.

Model Management

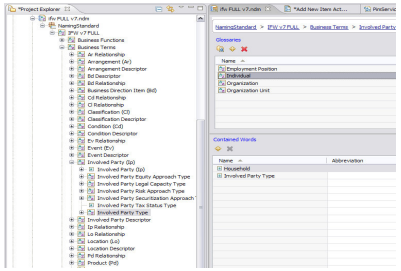
Process Modeling



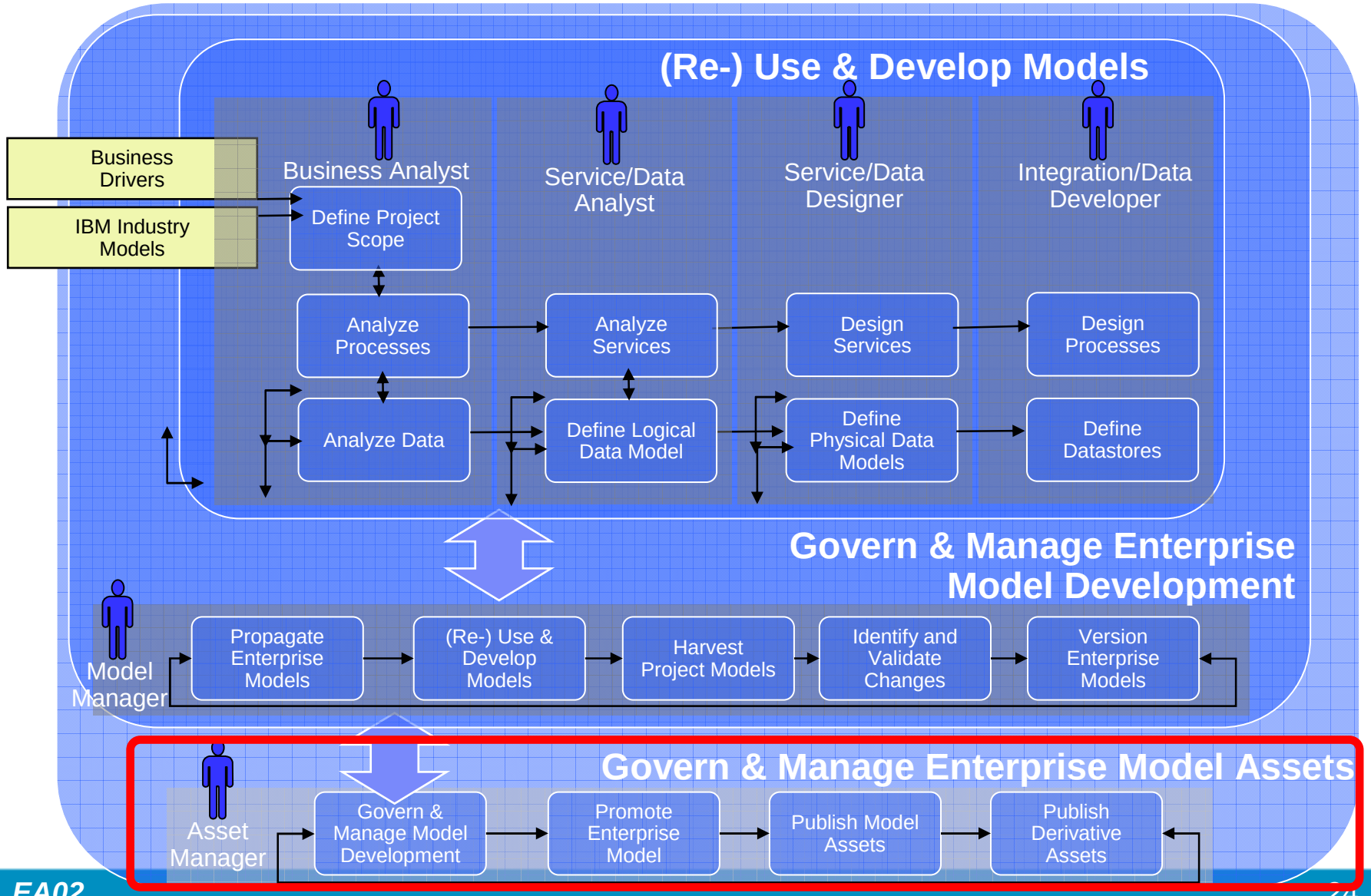
UML Modeling



Data Modeling

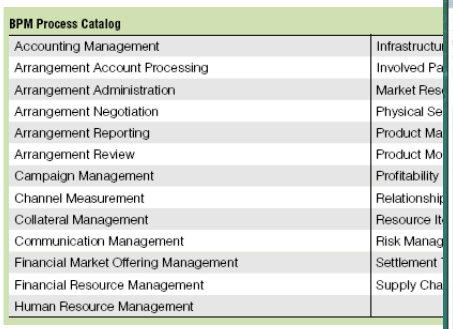


Part Three: Govern & Manage Enterprise Model Assets

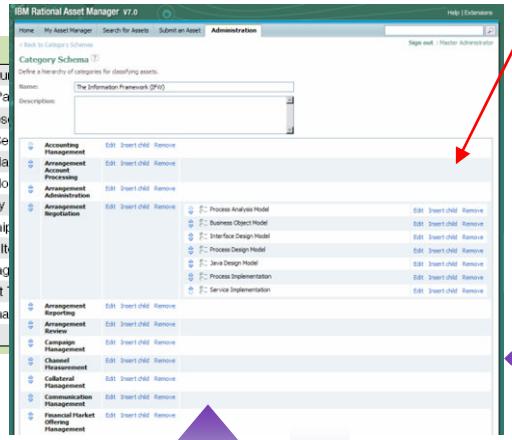


Asset Publication with RAM

Asset Management

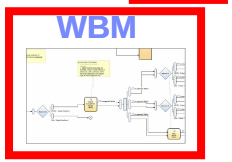


RATIONAL ASSET MANAGER

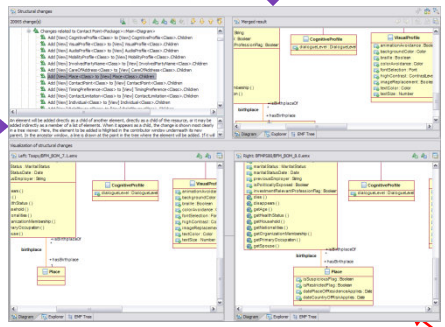


Extensive asset management, search and relationship capabilities

Enterprise Model Consumers



RATIONAL CLEARCASE

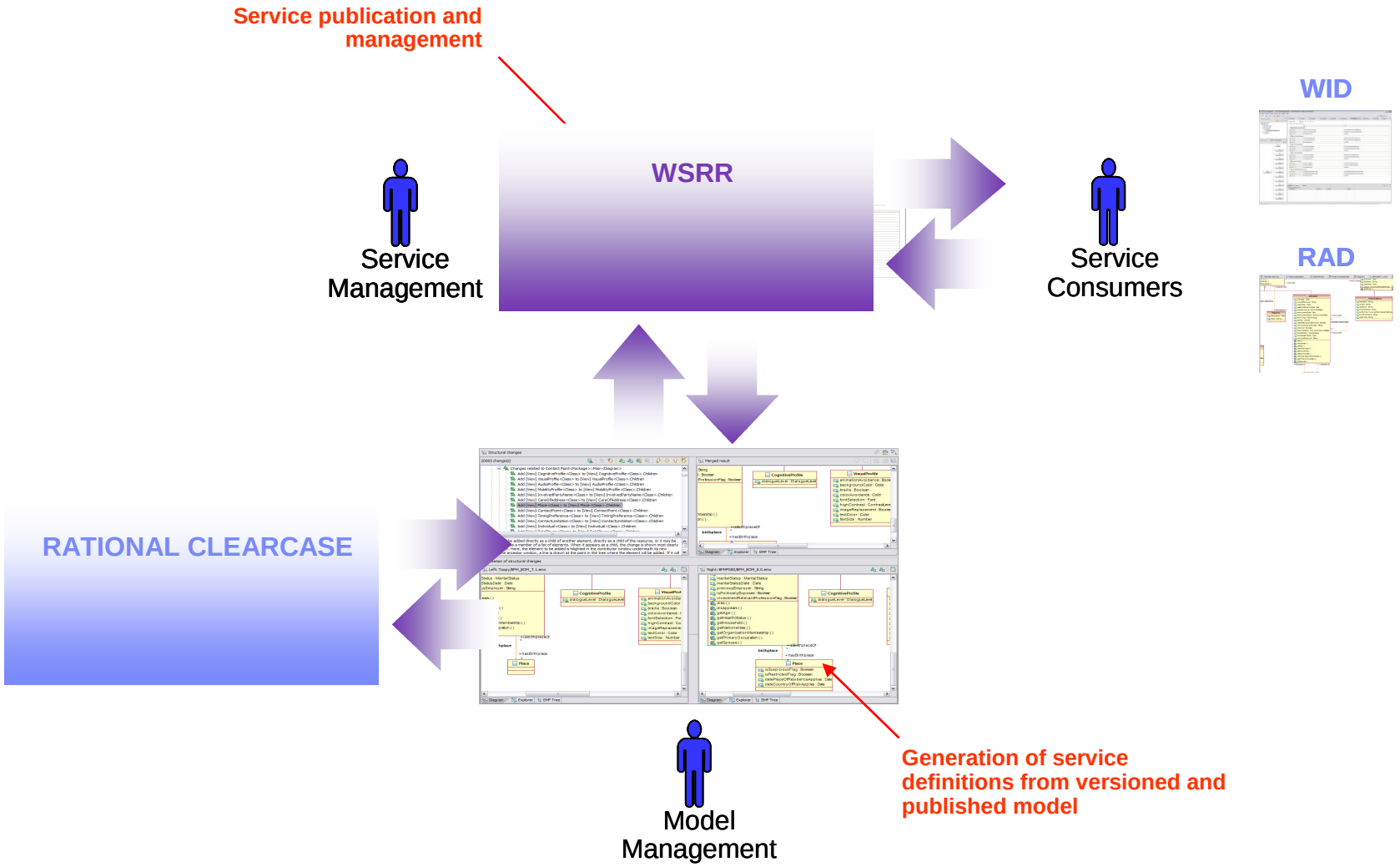


Different levels of integration b/wn Modeling tools & RAM

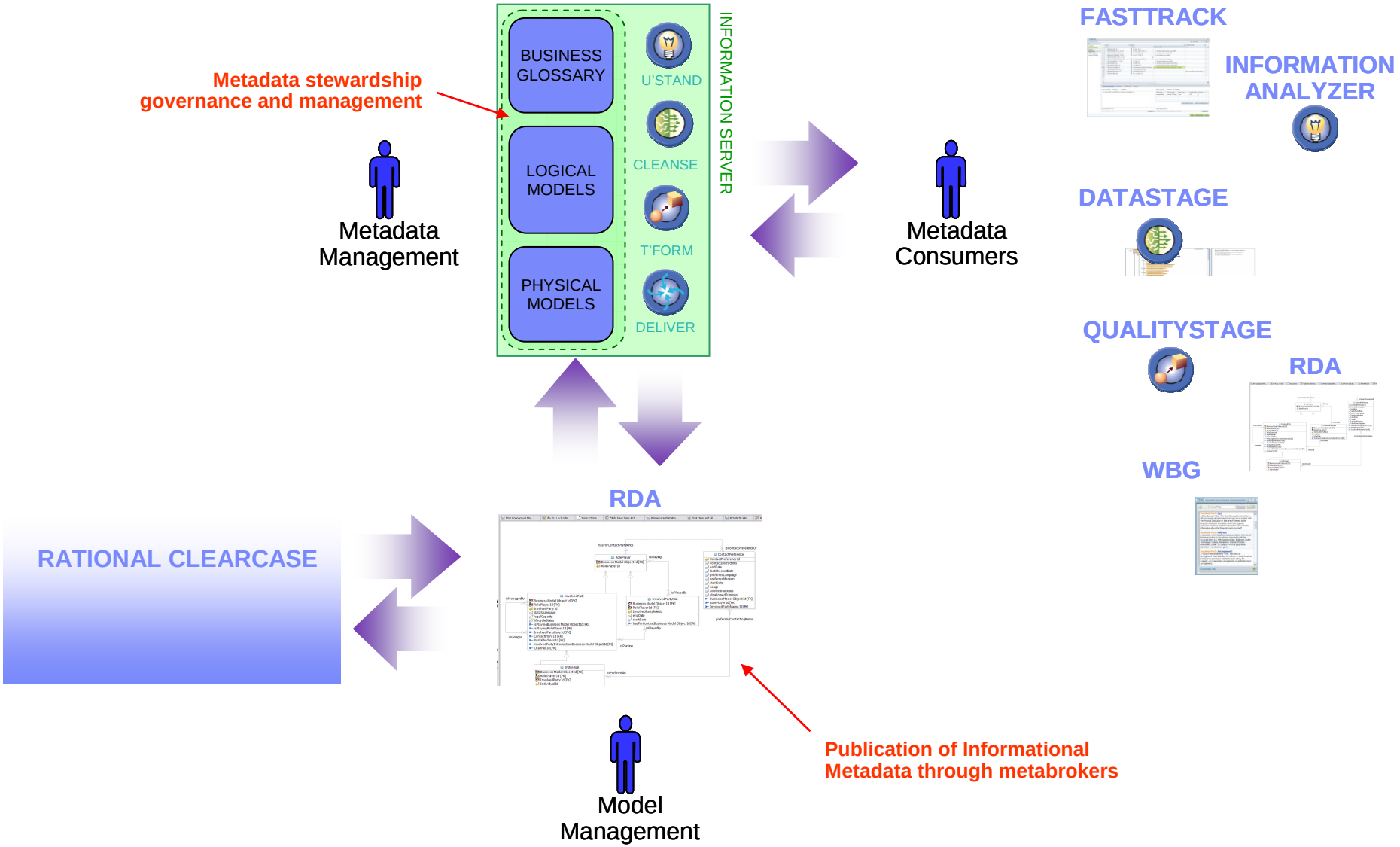
Model Management

Accepted and ratified model version to be published into enterprise

Service Publication with WSRR



Metadata management with Information Server



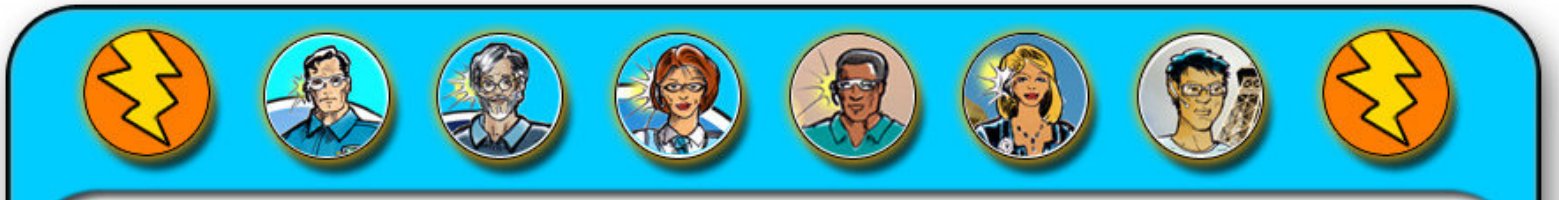
References

- RSDC US Hands On Workshop: *“Enabling Enterprise Architecture -- Managing Parallel Model Driven Development using IBM Industry Models and SDP”* (Wednesday, June 4th, 10:00 a.m – 1:00 p.m.) by Chris Busch, Magda Bologa, Nick Norris

- DevWorks articles –
  - *“Comparing and merging UML models in IBM RSA”* (series) by Kim Letkeman
  - *“Enterprise Model Governance and Management”* by Kim Letkeman, Nick Norris (pending)

- Redbook – *"Building Service-Oriented Banking Solutions with the IBM Banking Industry Models and Rational SDP"* by Nick Norris, Brian Byrne, Brian Yarow (http://www.redbooks.ibm.com/redpieces/abstracts/redp4232.html?Open)

QUESTIONS



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- Change and release management
- Quality management
- Architecture management
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