

The OMG BPM Standards

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A BPM Definition



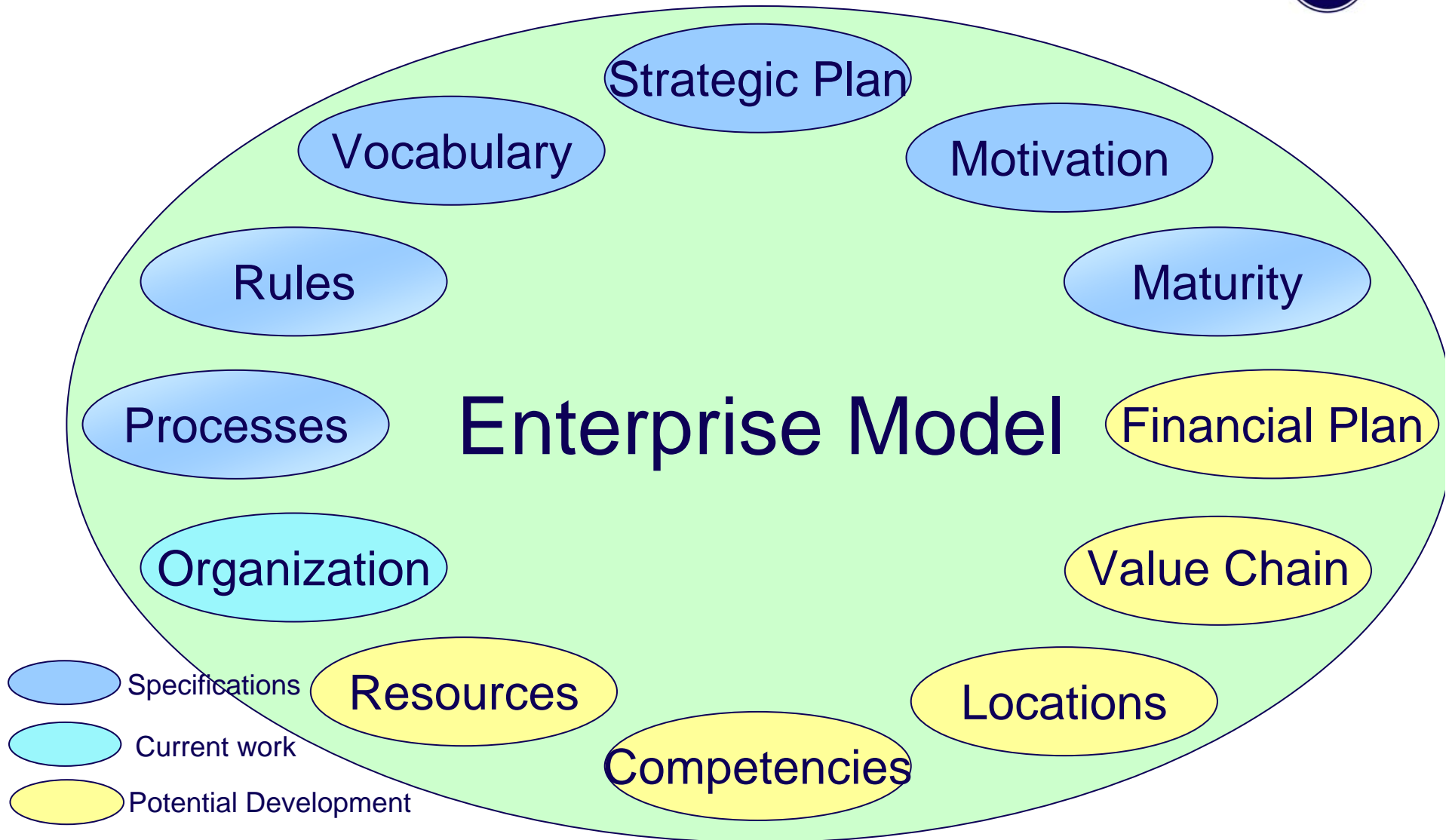
- Business Process Management is primarily a business philosophy
 - About *people*
 - The way they work *together* (their business processes)
 - The *performance* objectives that these processes underpin
- At the same time, it is about the *technology* used to make this vision a reality
 - Systems implementation is highly iterative (not waterfall)
- It is a way of running the business (a mind set) that continually drives performance improvement
 - A Journey, not a Destination

Business Modeling & Integration



- The OMG BMI Domain Task Force is focused on supporting organizational improvement initiatives through the development of effective standards⁶
- Covers a wide spectrum
 - High-level representations of an organization and its objectives
 - The journey of organizational maturity and performance improvement
 - The language and jargon of an industry/organization
 - Modeling processes and business rules and how these translate into supporting business operations
 - Common data structures to support analysis and optimization
- Enabling effective translation from one usage to another

Business Modeling Components

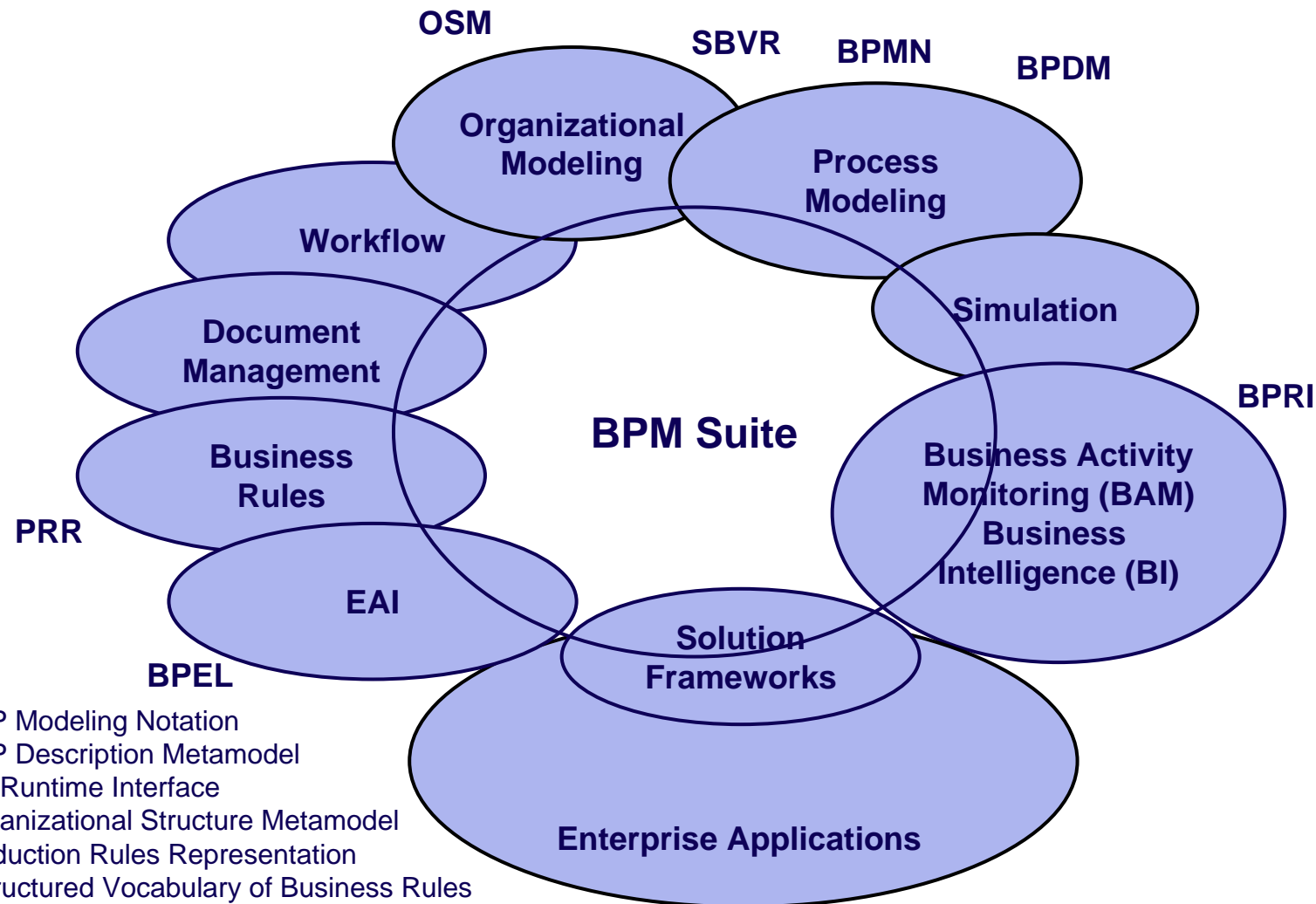


BMI Specifications



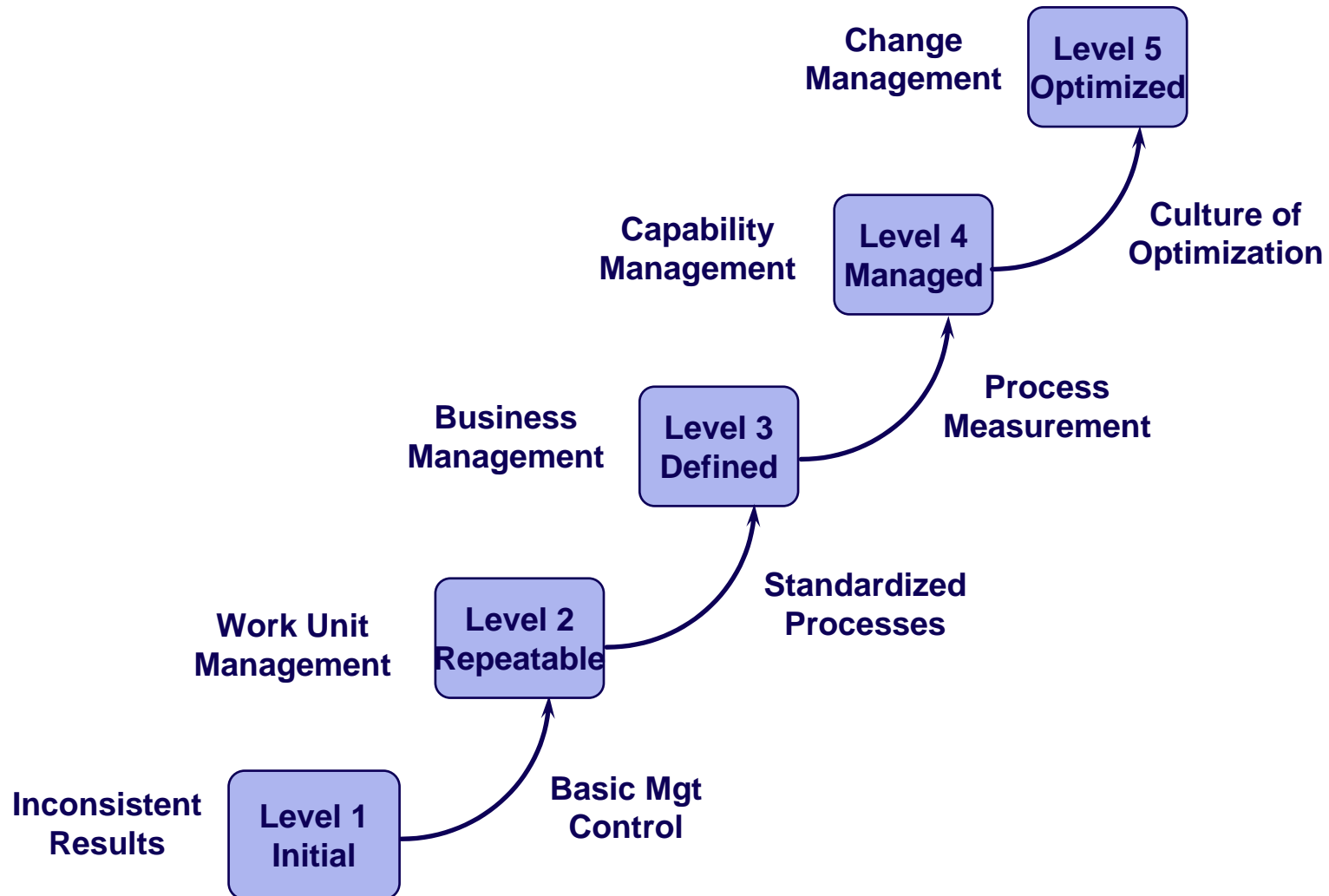
- Adopted specifications
 - BMM (Business Motivation Metamodel)
 - BPMN (Business Process Modeling Notation)
 - BPDM (Business Process Definition Metamodel)
 - SBVR (Semantics of Business Vocabulary & Rules)
 - BPMM (Business Process Maturity Model)
- Specifications in process
 - OSM (Organization Structure Metamodel)
 - BPRI (Business Process Runtime Interfaces)
 - BPMN 2.0 (Merged Notation & Metamodel)
 - PRR (Production Rules Representation)

Multiple Overlapping Categories

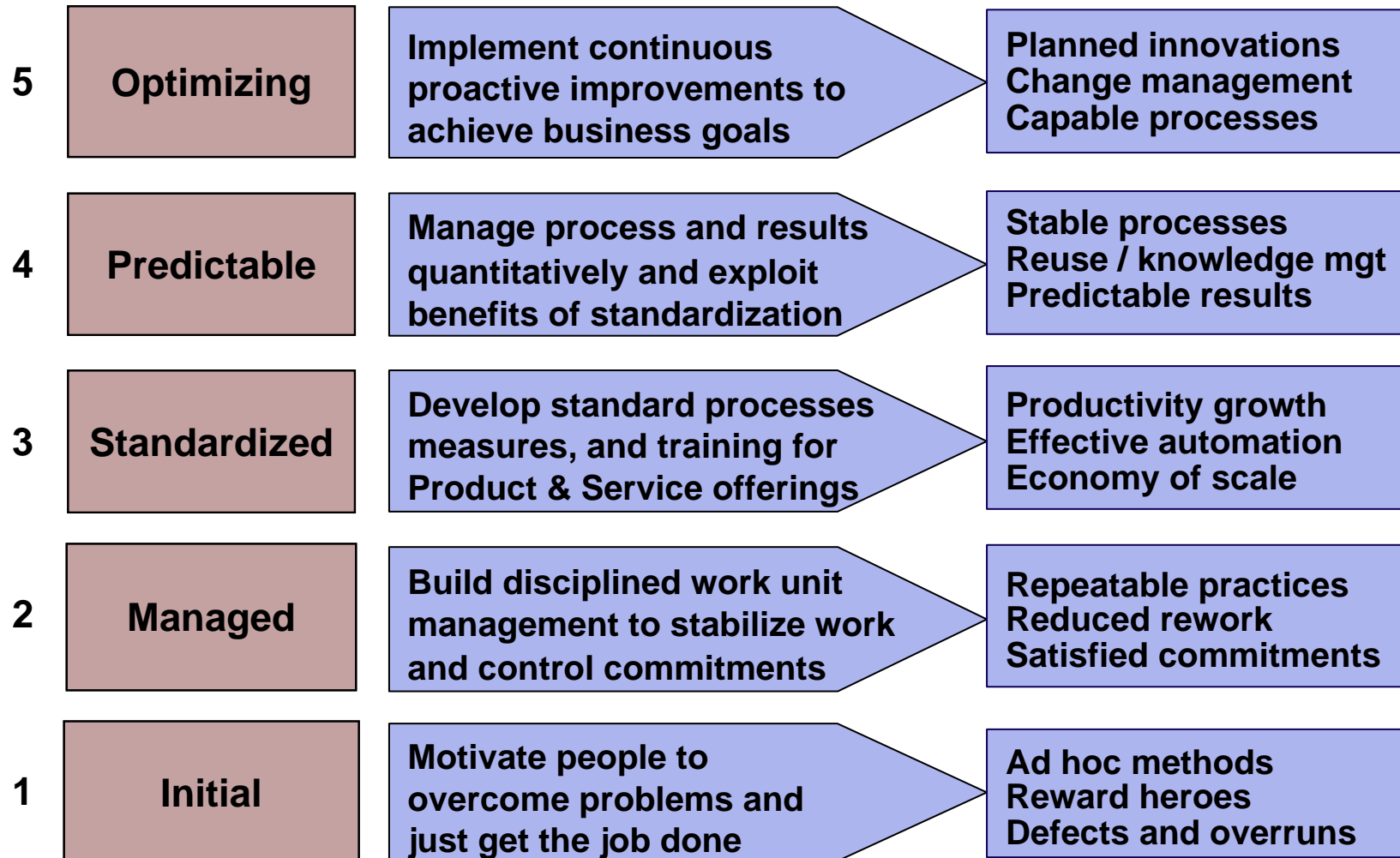


BPMN – BP Modeling Notation
BPDM – BP Description Metamodel
BPRI – BP Runtime Interface
OSM – Organizational Structure Metamodel
PRR – Production Rules Representation
SBVR – Structured Vocabulary of Business Rules
BPEL – Execution Language (Web Services)

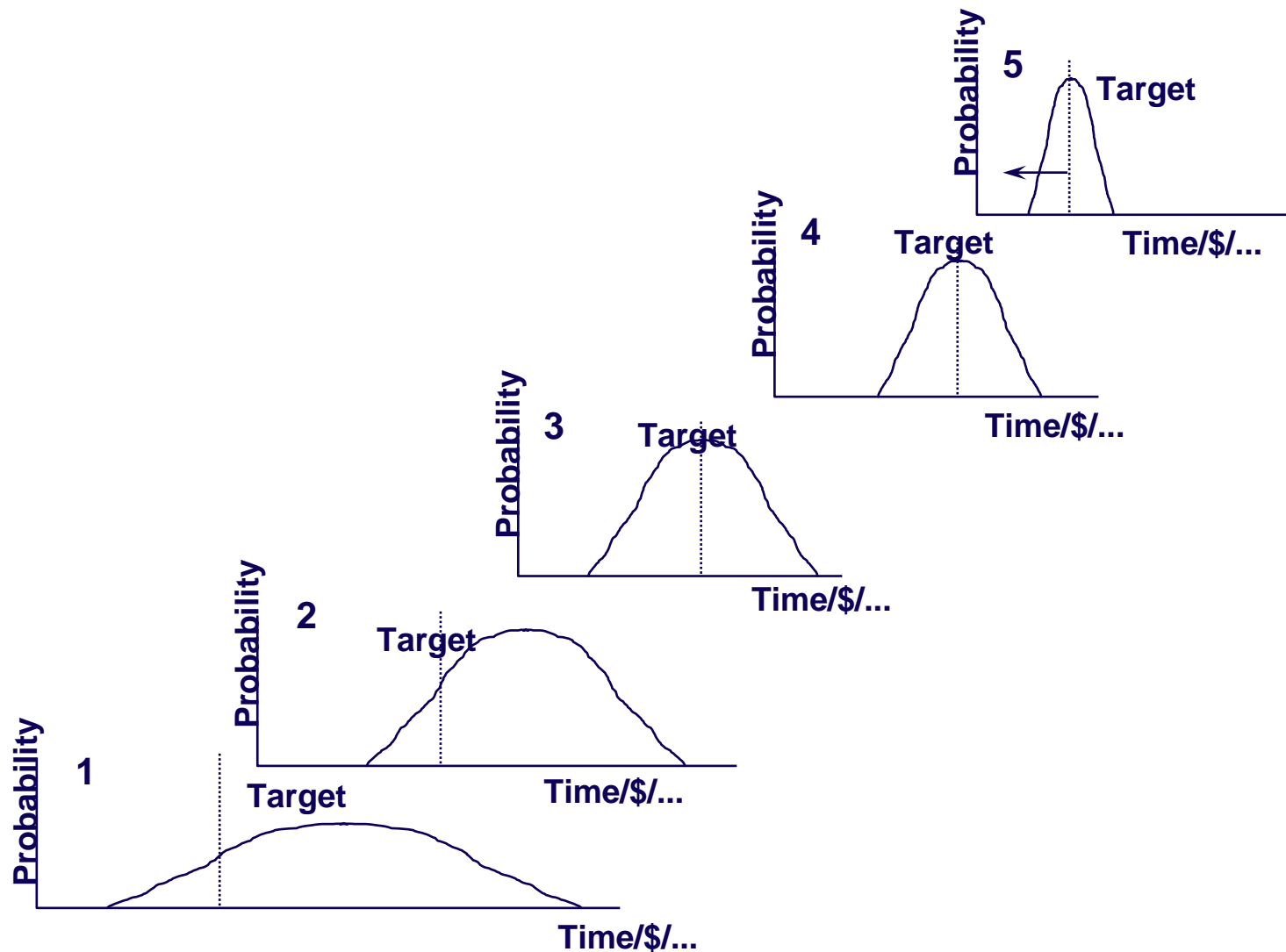
BP Maturity Model (BPMM)



Business Process Maturity Model



Visibility Of Process Maturity

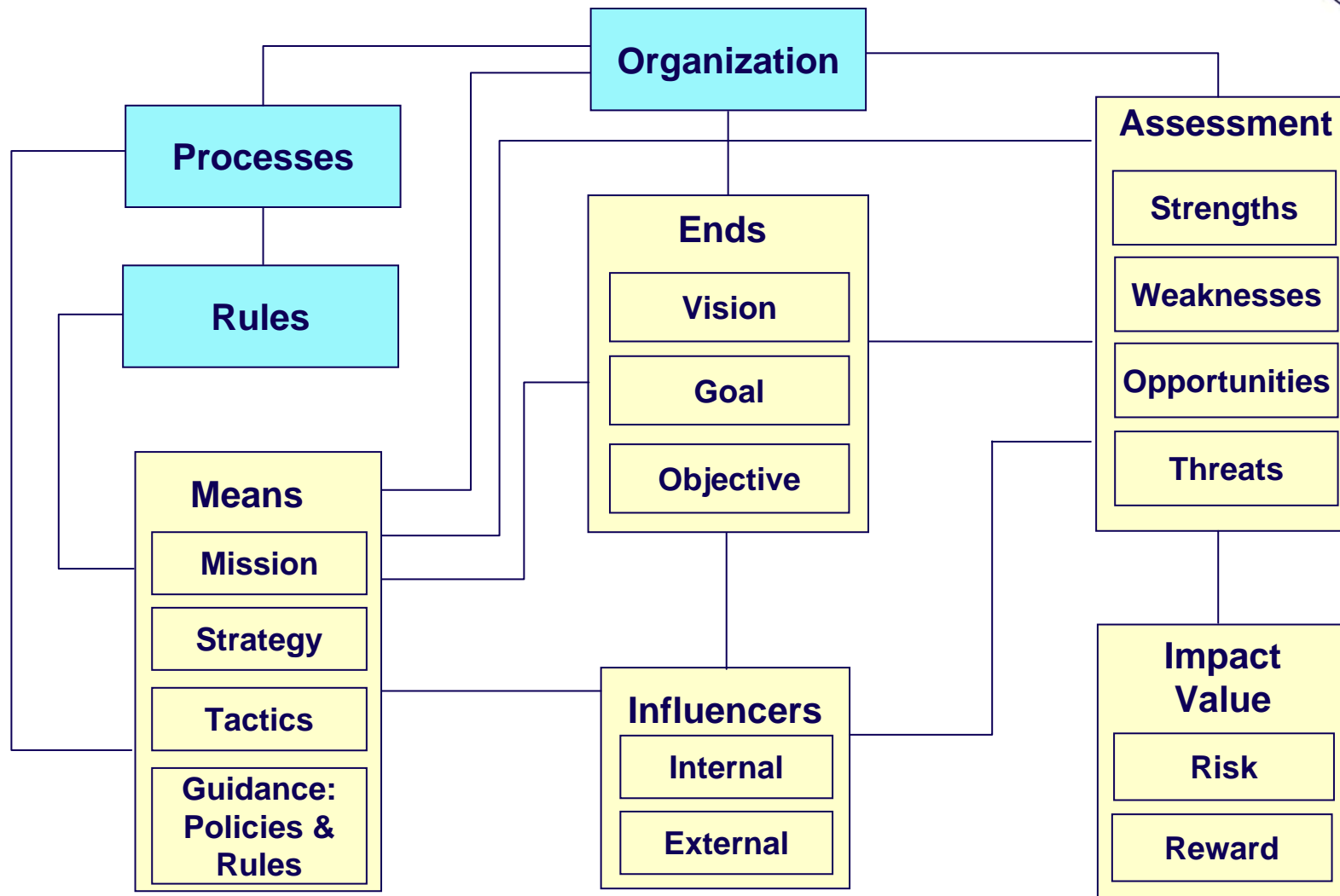


BPMM Use & Status



- Overview
 - BPMM describes an evolutionary improvement path that guides organizations in moving from immature, inconsistent processes to mature, disciplined processes ... prioritizes improvements and provides a reference model for appraising business processes and their institutionalization
 - BPMM might be thought of as describing the *journey* that an organization embarks upon when engaging in a business process driven transformation initiative.
- Audience
 - Enterprise Executives, Line of Business Managers/Executives, IT Executives; Leaders of change initiatives & BPO evaluation teams
- Functional Use
 - Guiding Business Process Improvement Programs, Assessing Risk, Evaluating Supplier Capabilities & Benchmarking
- Current Status
 - Beta-specification adopted in June 2007 (available on OMG site)
 - A Finalization Task Force chartered; aims to complete by end 07

Business Motivation Model (BMM)



BMM Use & Status



- Overview
 - An integrated approach for deciding, documenting, communicating, and managing key elements in business design
- Audience
 - Business Managers, the individuals supporting their work and vendors developing modeling tools and repositories
- Functional Use
 - a conceptual tool for engineering the business itself
 - a tool for organizing and clarifying the design of the business and its documentation
 - a formal scheme for structuring high-level documentation of business designs
- Current Status
 - Adopted July 06; available for [download](#) on OMG Site
 - A few tools available

Semantics of Business Vocabulary and Rules (SBVR)



- Declarative expression of intent
- Provides for levels of enforcement
- Model concepts independent of business vocabulary
- Alternative vocabularies support different communities (e.g., English, German)
- Rules expressed as structured natural language
- Actions depend on context of application

Rule: It is obligatory that each driver of a rental is a qualified driver.

SVBR Use & Status



➤ Overview

- Captures the concepts, terminology and rules used in the operation of an organization (independently of the information systems); Also used to document the business policy and governance principles of an organization

➤ Audience

- Vendors of vocabulary and business policy/rules management tools; the users of these tools; may also be used by those concerned with defining Governance frameworks

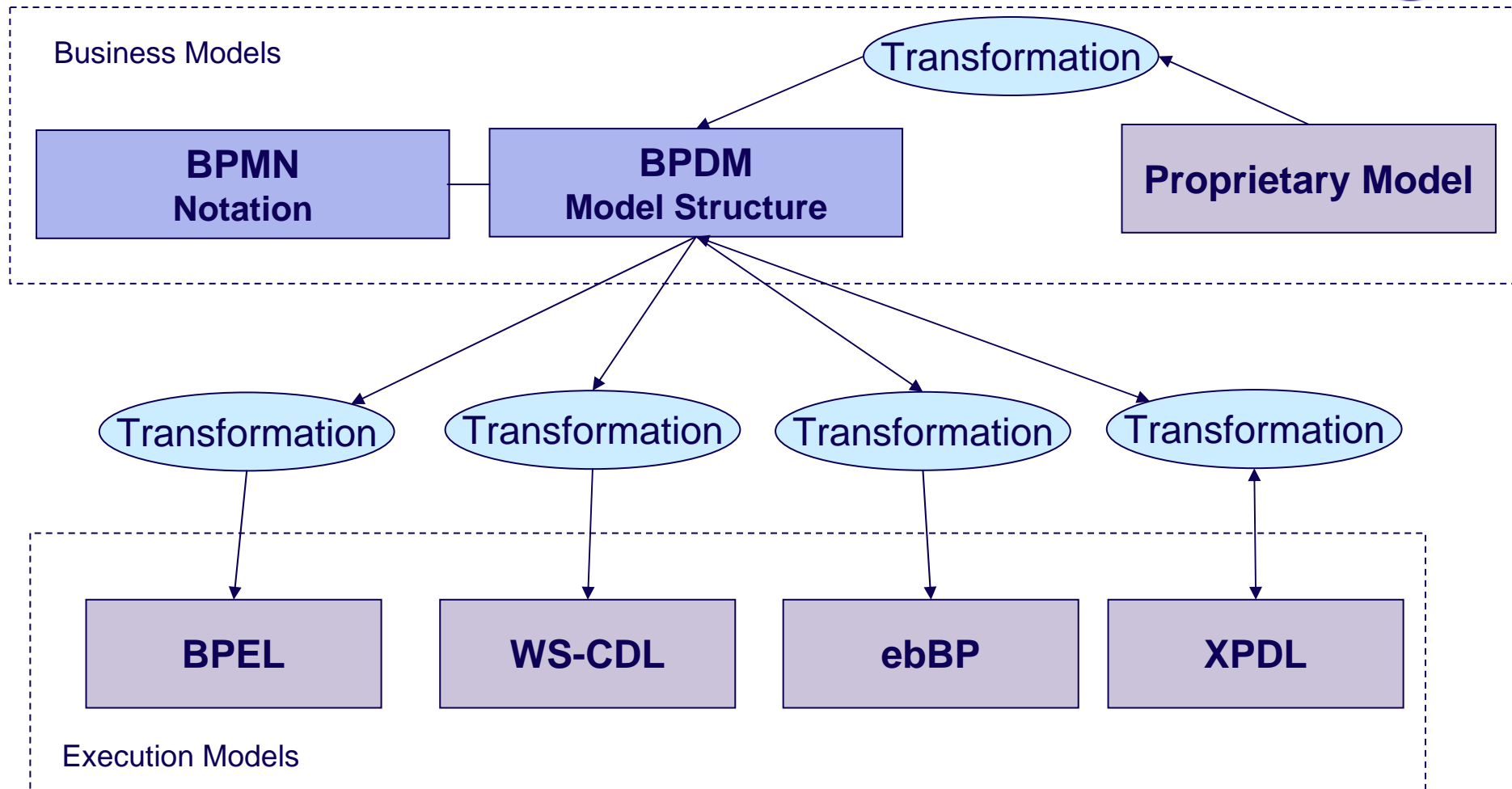
➤ Functional Use

- Provides the ability to specify and state definitions formally and unambiguously in terms of other definitions (in the vocabulary); allows definitions to be interpreted using formal logic

➤ Current Status

- Adopted in Sept 2005; currently going through the later stages of finalization; Available on the OMG web site [here](#)

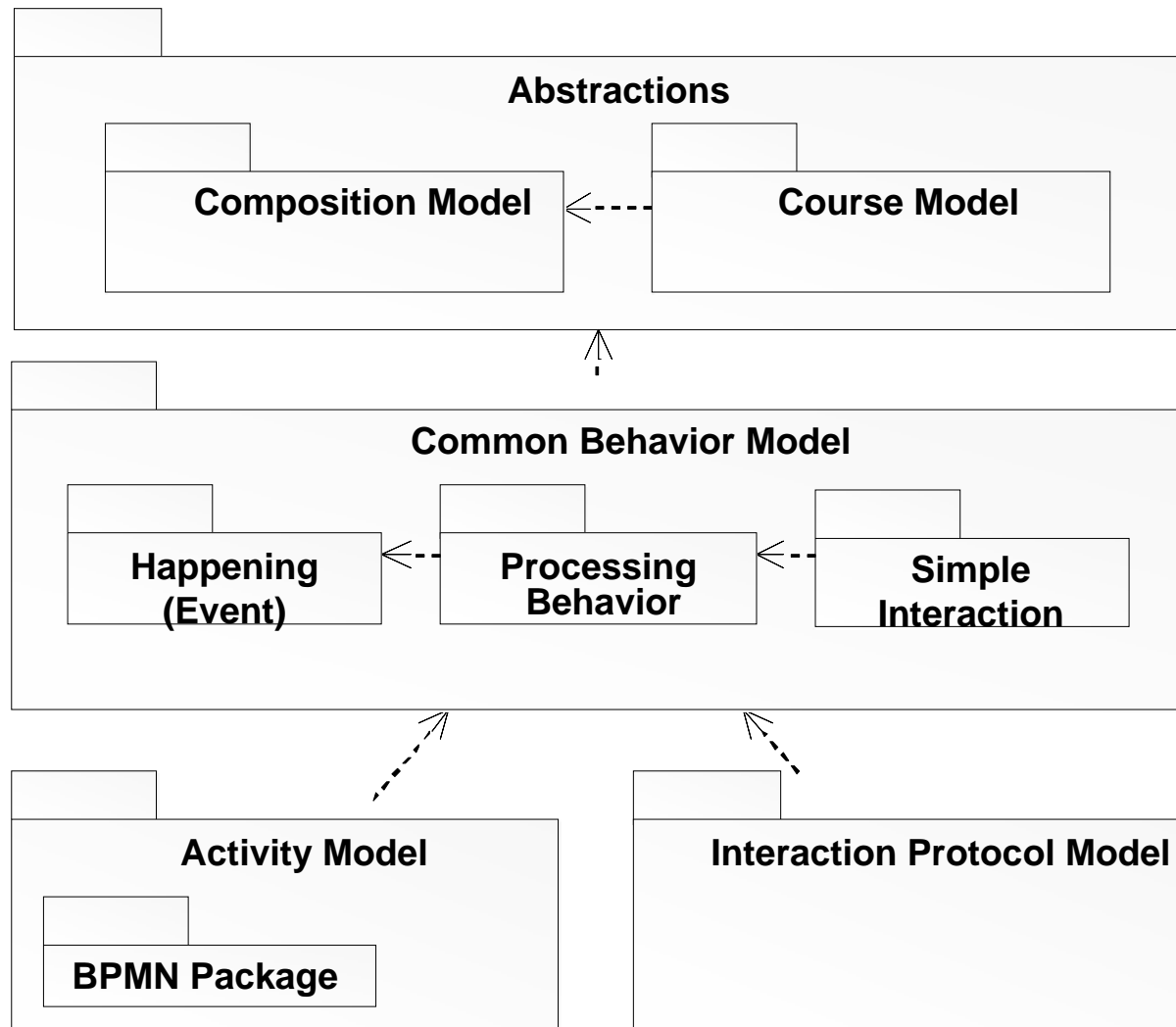
Business Process Definition Metamodel



BPEL – Business Process Execution Language
WS-CDL – Web Svcs Choreography Defn. Lang.

ebBP – electronic business Business Process
XPDL – XML Process Definition Language

BPDM Packages & Abstractions



BPDM Use & Status

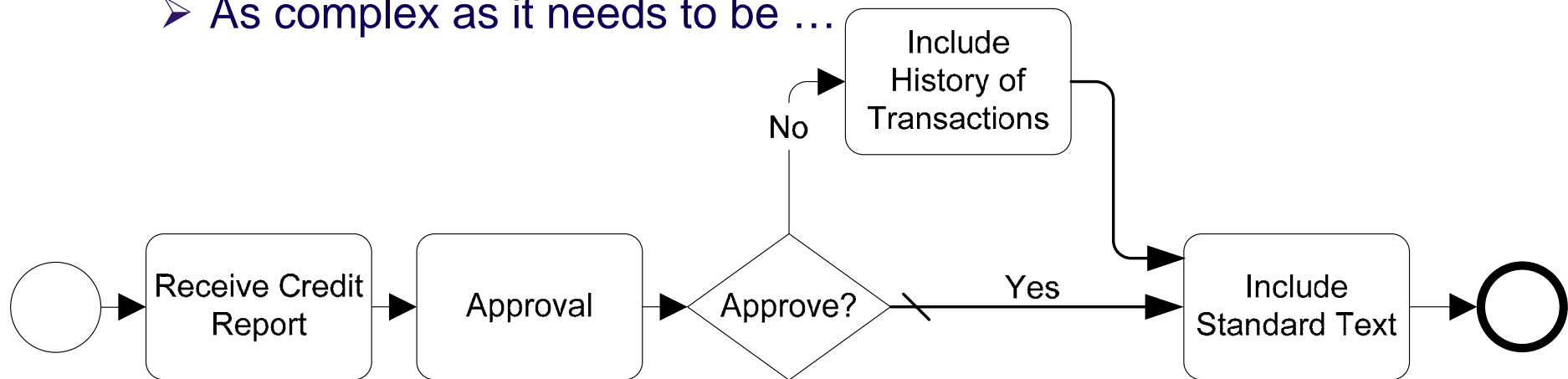


- Overview
 - Provides the capability to represent and interchange business process models independently of modeling notations
 - Marries process orchestration with choreography
 - Provides a robust serialization (storage) mechanism for BPMN
- Audience
 - Vendors defining how they exchange process models; enabling for broad industry interoperability; will only happen if end-users look for compliance
- Functional Use
 - Defines a shared vocabulary for process modeling concepts; a sort of “universal syntax” supporting most common process modeling notations; as much as is possible, enables the robust exchange of models while preserving the intended enactment and execution semantics
- Current Status
 - Beta Specification adopted in March 07; Finalization Task Force formed to identify and resolve issues; Available on the OMG site by the end of July 07
 - BPMN 2.0 (Business Process Model and Notation) is designed to merge BPDM and BPMN 1.1, extending the modelling notation to take advantage of the enhanced capabilities available in BPDM

Business Process Modeling Notation



- Flow-chart style notation for defining Business Processes
- Original development objectives
 - Acceptable and usable by the business community
 - Able to generate executable processes (e.g., BPEL) through a combination of graphical elements and supporting information (attributes)
- Methodology Agnostic
 - As complex as it needs to be ...



BPMN Use & Status



- Overview
 - Standard, graphical modeling representation of business process
- Audience
 - Business community (in terms of learning to use the notation and modeling their business processes); Vendors of Modeling tools and BPM Suites
- Functional Use
 - BPMN provides an easy to use flow-charting notation that is independent of the implementation environment.
 - Facilitates the translation of business level models into executable models that BPM Suites and workflow engines can understand
- Current Status
 - BPMN 1.0 introduced by BPMI.org
 - BPMN 1.1 should be available [here](#) by August 07
 - BPMN 2.0 in development (target delivery end of 08)

BPMN 2.0

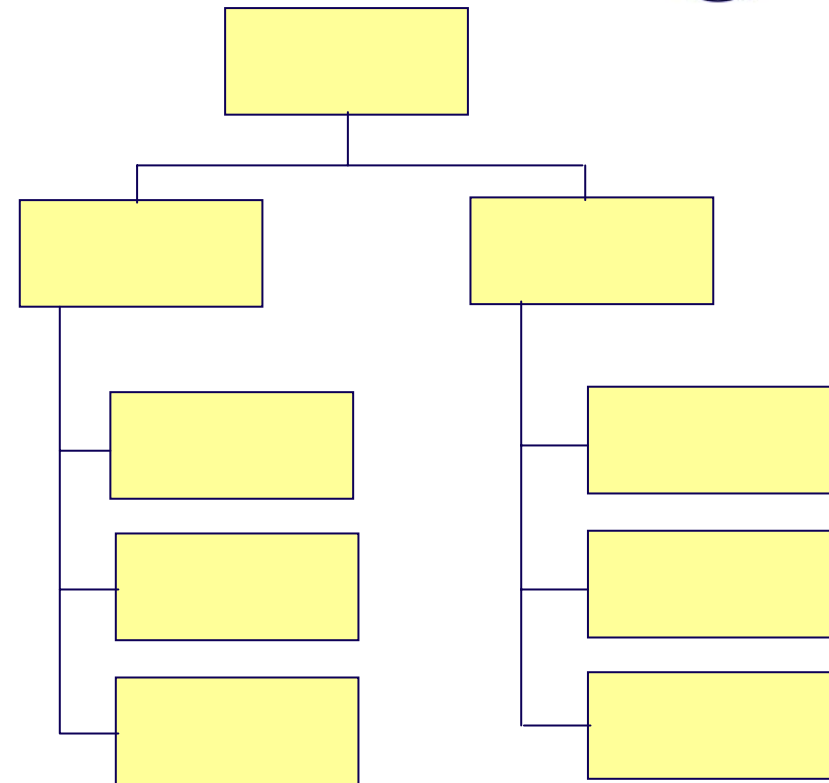


- A single specification, entitled Business Process Model and Notation (BPMN 2.0), that defines the notation, metamodel and interchange format
 - Extension of BPMN notation to address BPDM concepts
- Reconcile BPMN and BPDM to a single, consistent language
 - The ability to exchange business process models and their diagram layouts among process modeling tools preserving semantic integrity
- Enhancements in BPMN's ability
 - Model orchestrations and choreographies as stand-alone or integrated models
 - Support the display and interchange of different perspectives on a model that allow a user to focus on specific concerns

Organization Structure Metamodel



- Organization unit
- Position
- Authority
- Responsibility
- Relationships
- Contact information
- Organization rules
- Modeling vs. runtime
- Matrix structures



OSM Use & Status



➤ Overview

- Definitive vocabulary, rules and interchange metamodel for specifying the authority, responsibility and accountability structures of an organization

➤ Audience

- Business Managers and staff who must document their organizational structure; Vendors of modeling tools and BPM Suites

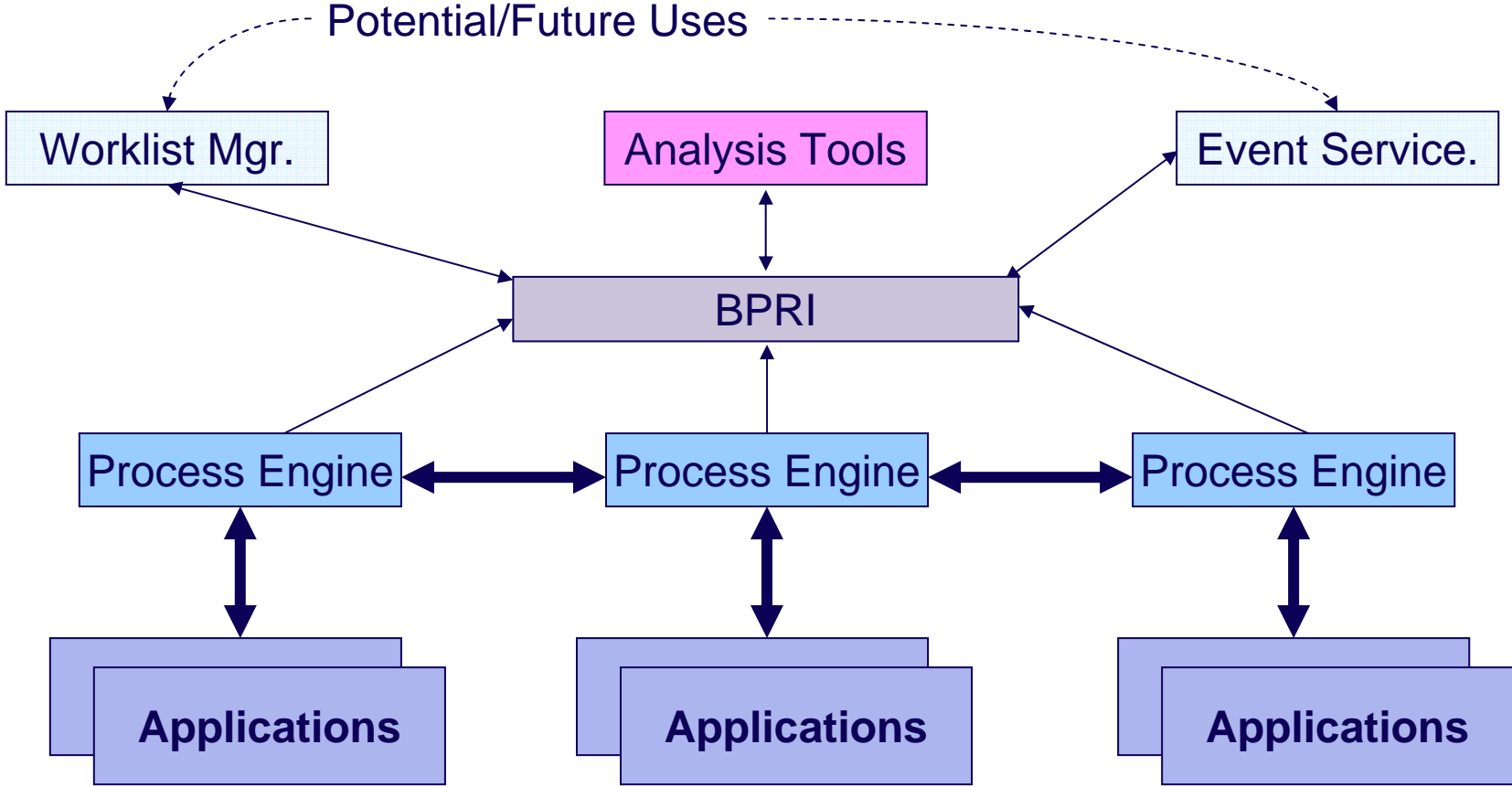
➤ Functional Use

- Enable the business level documentation of virtually any sort of organizational form, the organizational units that go to make them up, information about those groups and their relationships

➤ Current Status

- Currently in development; expected to produce an effective standard by the end of 2007

Business Process Runtime Interface



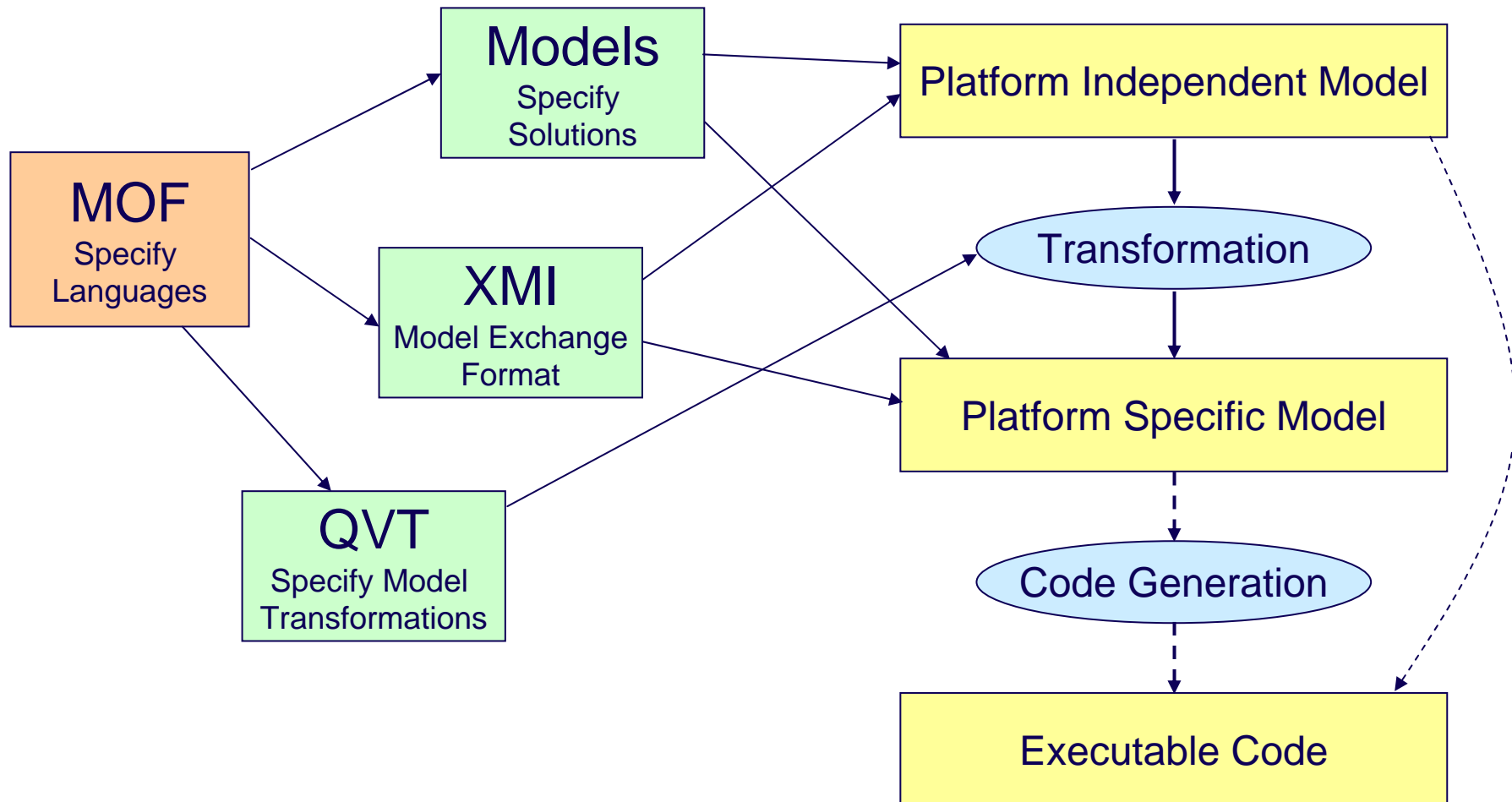
BPRI Use & Status



- Overview
 - Common data model (interface) for the information used at process execution; facilitate more effective process analysis and business performance improvement
- Audience
 - BPM Suite, BI and Process Analysis tool vendors
- Functional Use
 - Facilitate better process metrics and enable the emergence of specialist products that help analyze business processes in real time, suggesting improvements and helping Business Analysts in spotting process improvement opportunities
- Current Status
 - Work is ongoing; a joint effort envisaged with the WfMC aims to complete the specification by the end of 2007

Model Driven Architecture (MDA)

Technology Independent Applications

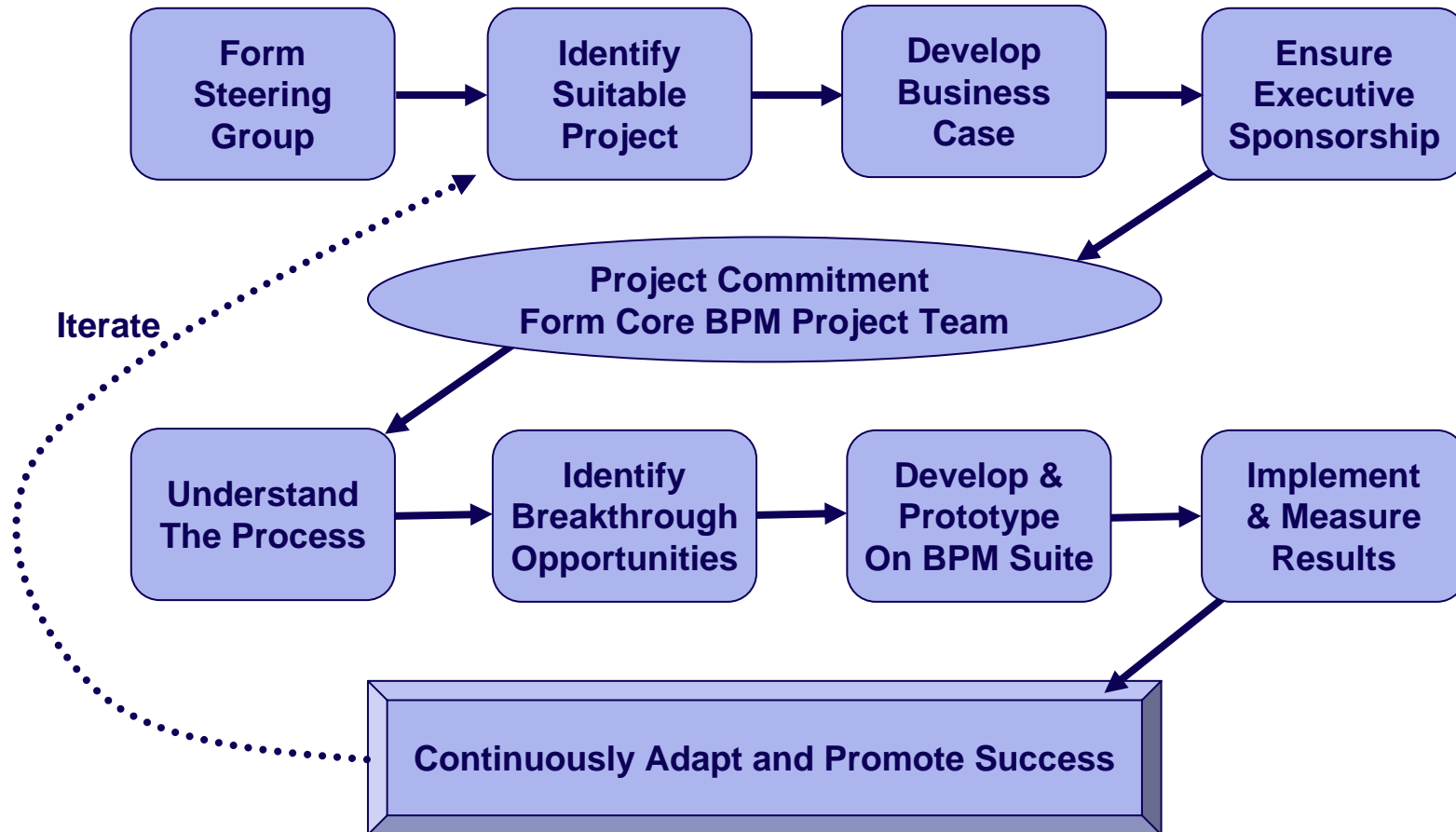


Summary

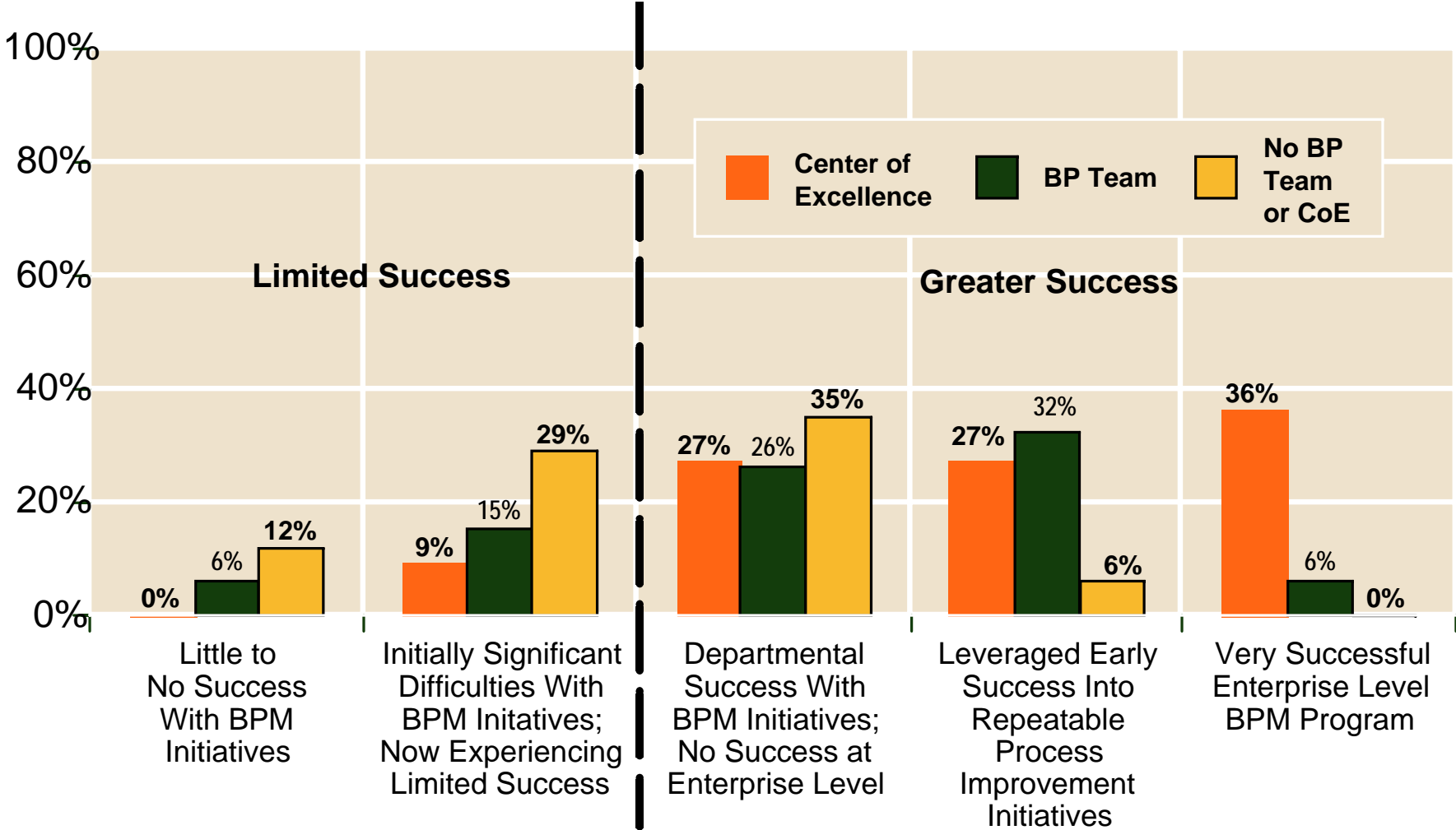


- The firm can now drive its operations with models—change the model and you change the way things happen
 - Mechanisms for protecting your assets
 - The power of BPDM (and BPMN 2.0) is its ability to support *business process refactoring* (i.e. different views of the same process)
 - These new views will foster process understanding at a more strategic level, yet will be directly “translatable” into today’s BPMN ... providing a direct linkage between the business strategy and the detailed process activities in your company
 - Implications of Organizational Modeling only just being appreciated
 - Enabling better analysis and performance improvement is the next step
- We need the active support and involvement of the user community
 - Don’t leave it to the vendors to control your destiny
 - As we start to bring these concepts together, we really need more business involvement
 - In the end, its you guys who derive the benefits of all this

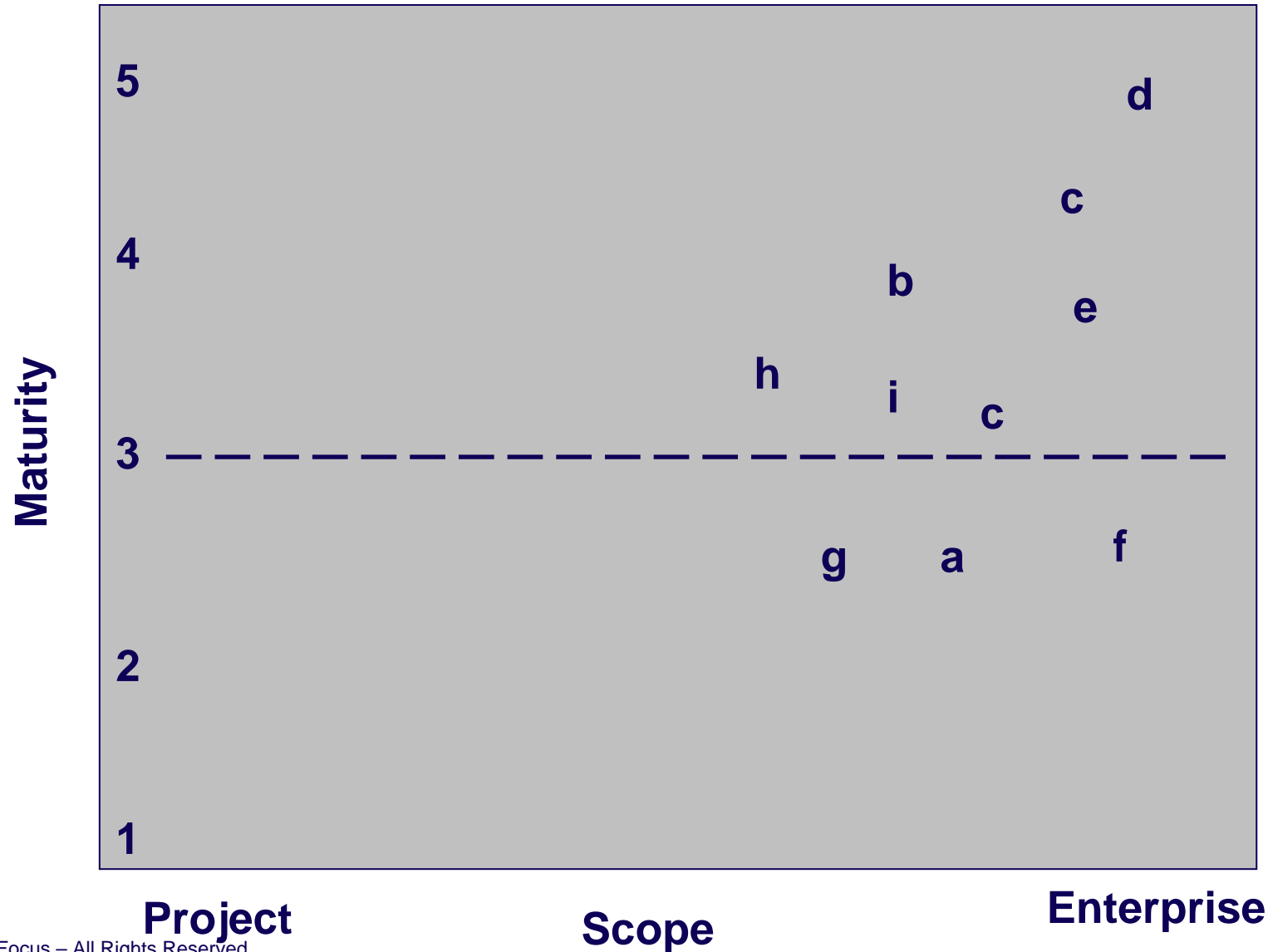
BPM Project Methodology



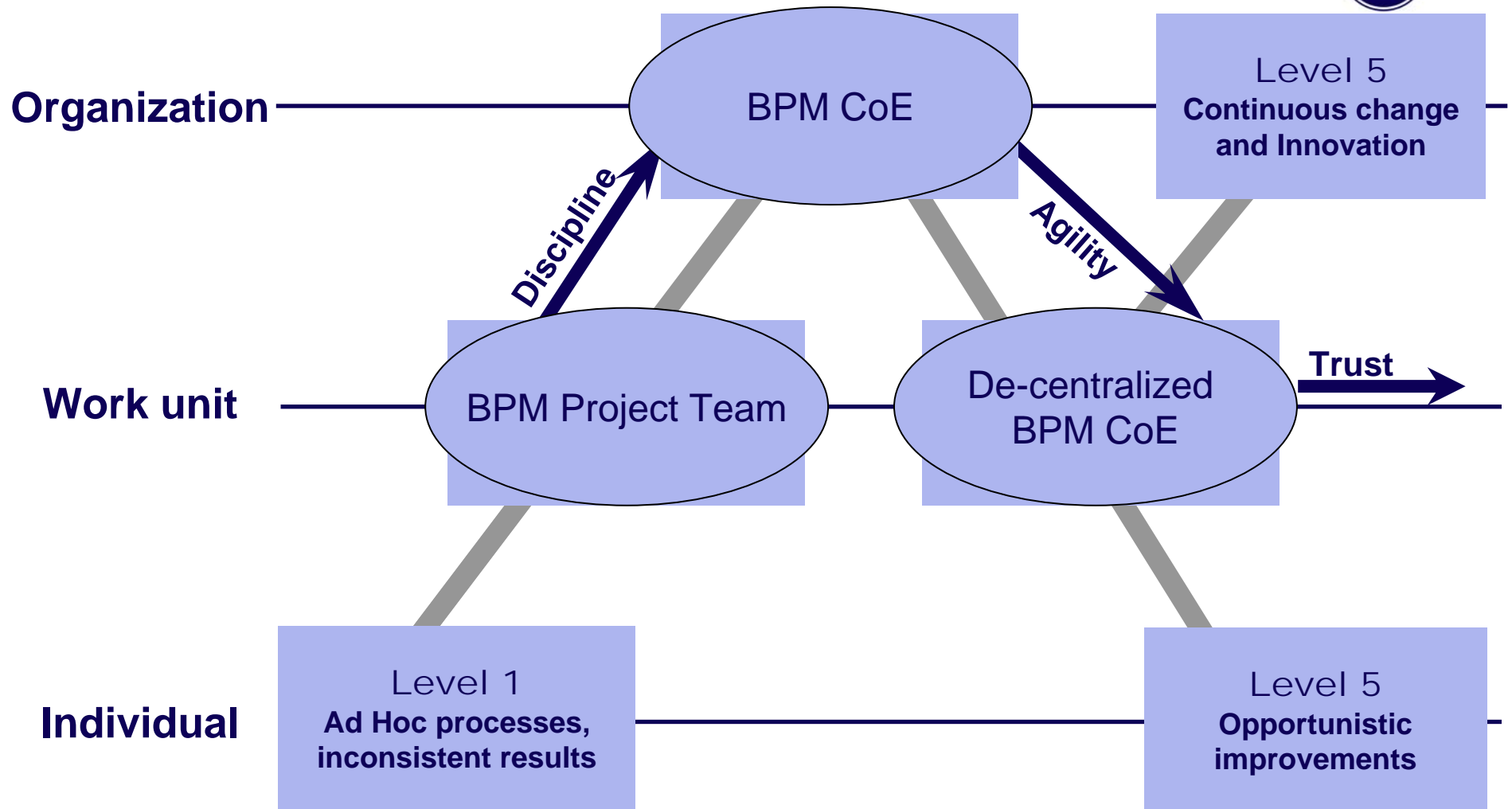
Achieving BPM Success



Choosing The Right Organizational Form



Evolving Role of CoE



A Broad Range Of Tasks

