

An IT Architecture Executive Overview

Share in Long Beach
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Agenda

- Who are we?
- What are the IT Infrastructure Management Challenges?
- What kind of IT Infrastructure do we recommend?
- What are the Benefits?

Who Are We?

Beyond Integration...
Everything must work together
As a cohesive whole

- To achieve that, we combine the best:
 - Technology
 - Methodology
 - Infrastructure

What are the IT Infrastructure Management Challenges?

IT Infrastructure Management Challenges

Skill shortage

How do we attract and retain talent? Avoid losing corporate knowledge when people leave? Gain access to and capture world-class knowledge?

Communication

How do we promote communication across IT functions? Gain consensus on architecture and tool requirements?

Integration and manageability

How do we integrate the traditionally disparate disciplines of application development, deployment, systems management and data management?

Transition

How do we migrate from a product-driven to process-driven ESM approach? Migrate from a procedure-oriented to CBD approach? Incrementally migrate to a complete and persistent data architecture and management process?

**What kind of IT Infrastructure
do we recommend?**

A Process-Driven Architecture

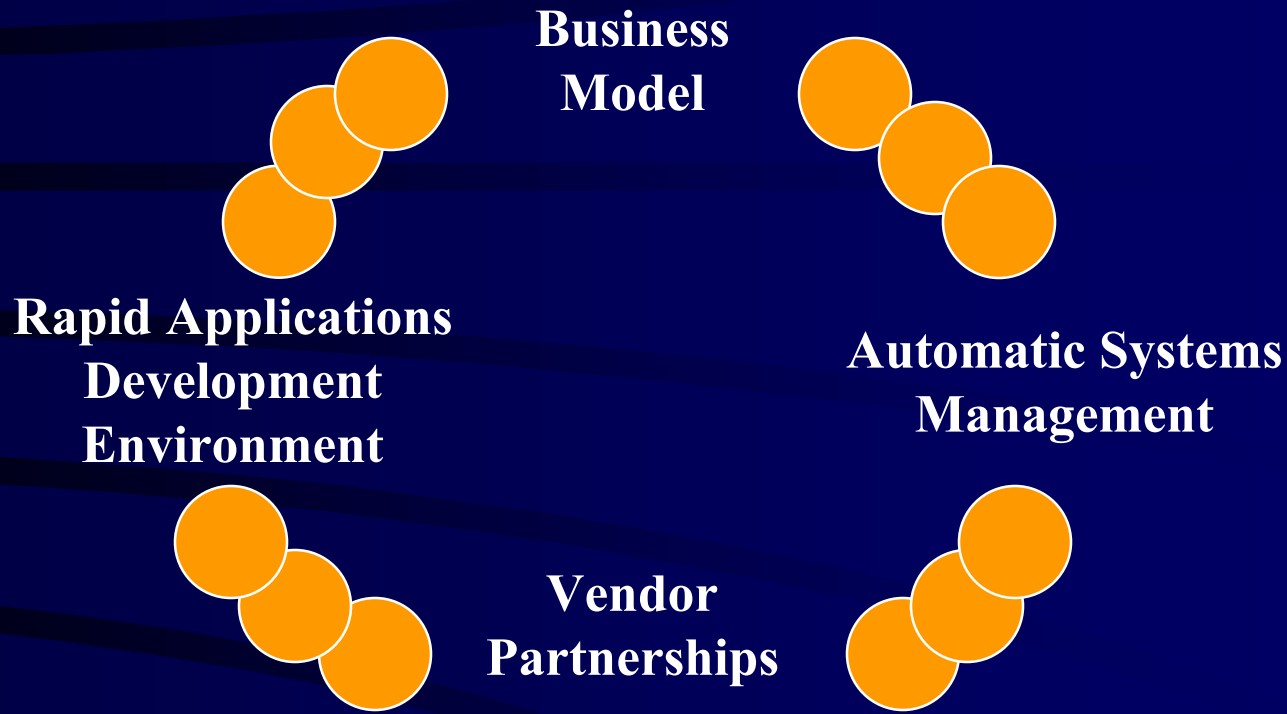
- A Fully Integrated
- A Systematic Approach
- Use a common language and methodology
- Ensure there are fully-integrated processes for:
 - Application development
 - Application deployment
 - Data Management
 - ESM

Infrastructure Objectives

- **Establish world-class IT organization**
 - Get quality products to market faster
 - Low cost provider
 - Assimilate new acquisitions
 - Expand international presence
- **Capture “intellectual capital” in re-usable form**
- **Position IT as a profit center**

- **30-day development cycles or less**
- **Portable applications (platform, data, network and user interface)**
- **Automatic systems management**
- **A common model across the enterprise**
- **Reduce costs and improve ROI**

Our IT Architecture



A Well-Defined Infrastructure

Policies & Methodology

- Standard
- Processes/Procedures
- Enforcement
- Documentation

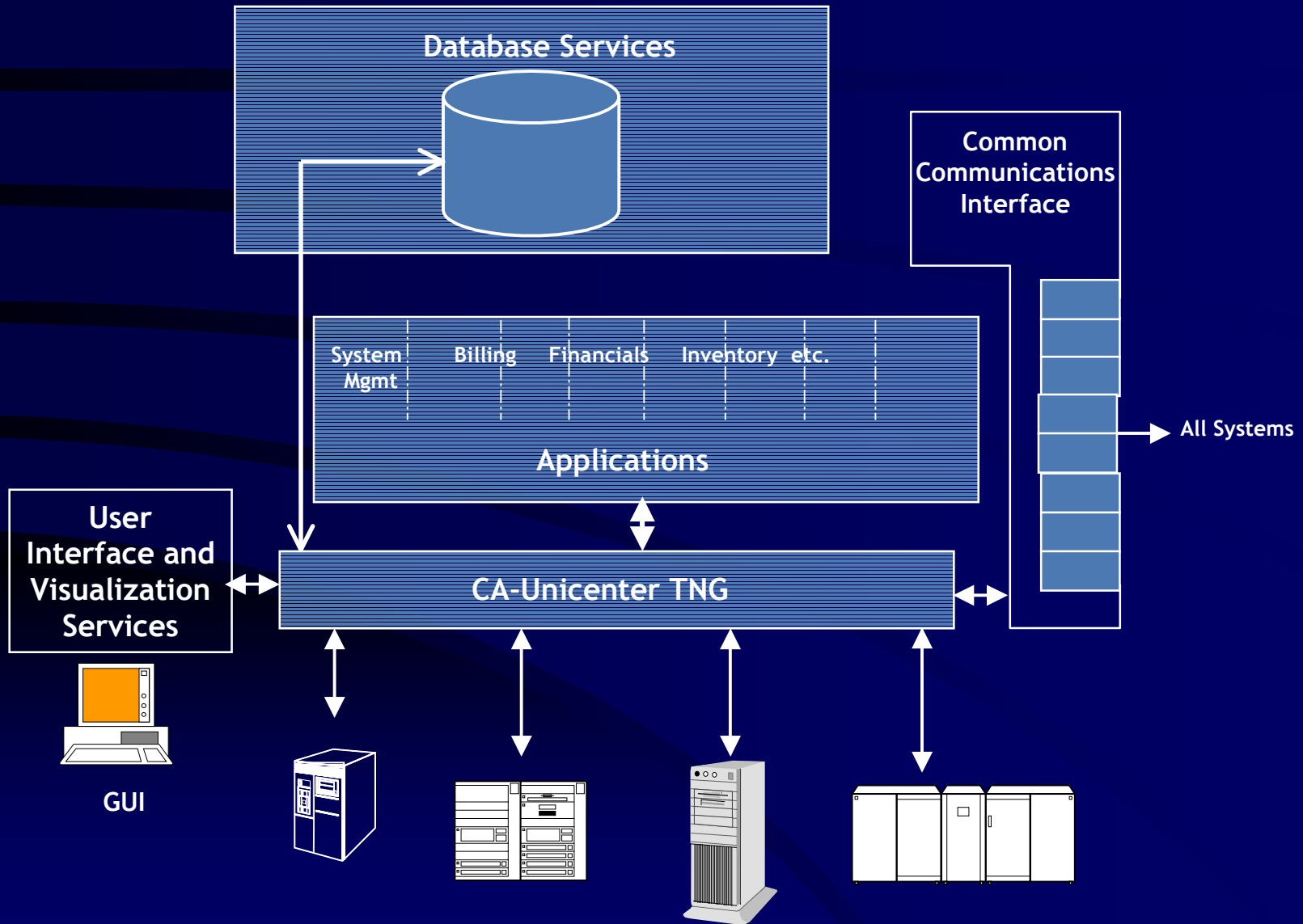
Organization & People

- Ownership/Accountability
- Skills
- Training

Tools & Automation

- Functionality
- Integration

Technical Architecture



Strategy

- Develop a fully integrated processes for:
 - Application development
 - Application deployment
 - ESM
 - Data Management
 - Use Catalysis to provide the common language and methodology to help integrate the above functions

About *Catalysis*™

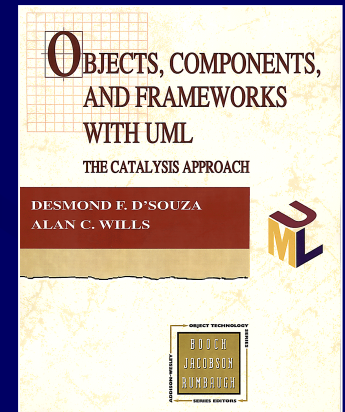
A next-generation standards-aligned method

For open distributed component systems

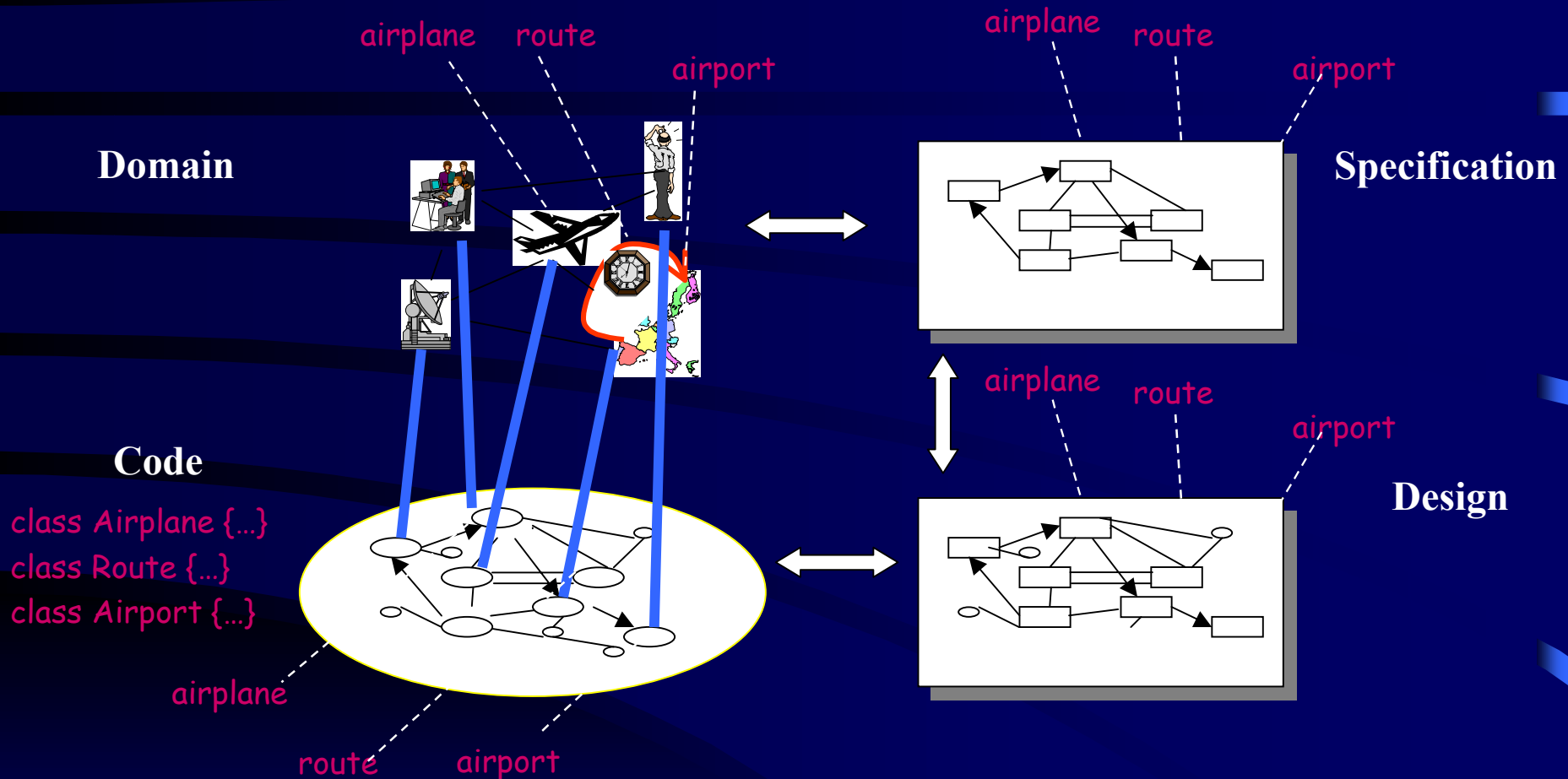
from components and frameworks

that reflect and support an adaptive enterprise

Catalysis has been in development and use since 1992
Supports components, OO, legacy, heterogeneous systems
Addison Wesley, “*Objects, Components, Frameworks...*” 1998,
D’Souza & Wills



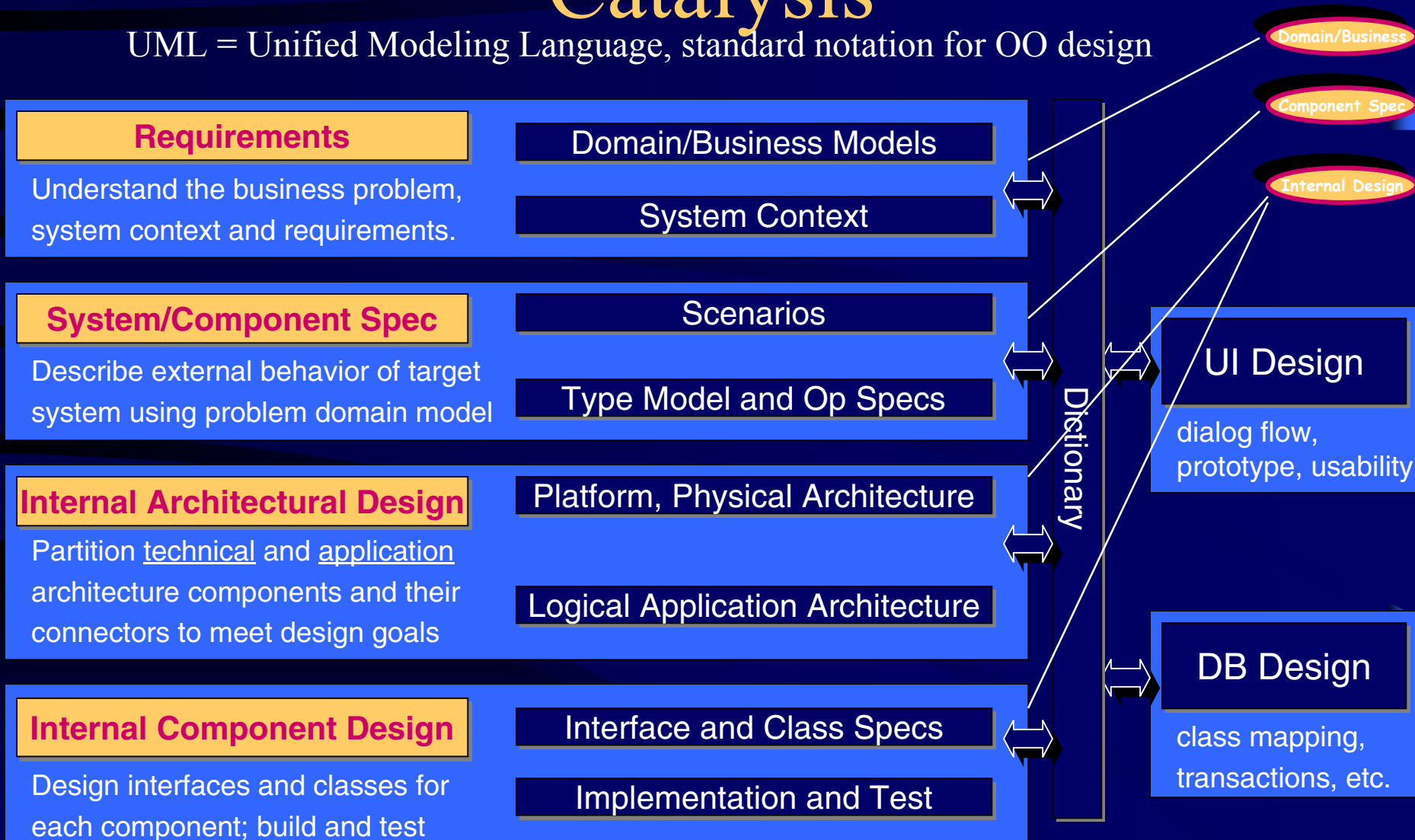
Catalysis - High Level View



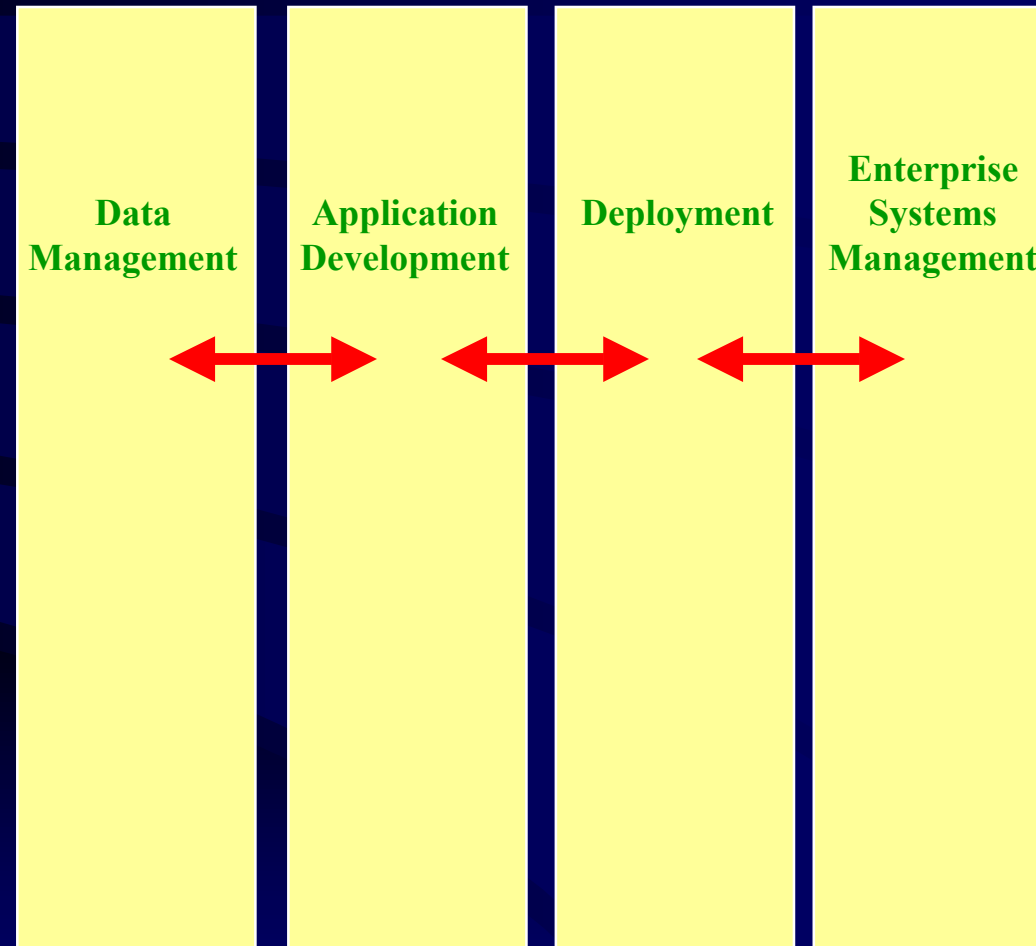
- Similar domain terms appear at all levels from requirements to code
- Similar modeling constructs are used to describe them at all levels

UML Development Process with Catalysis

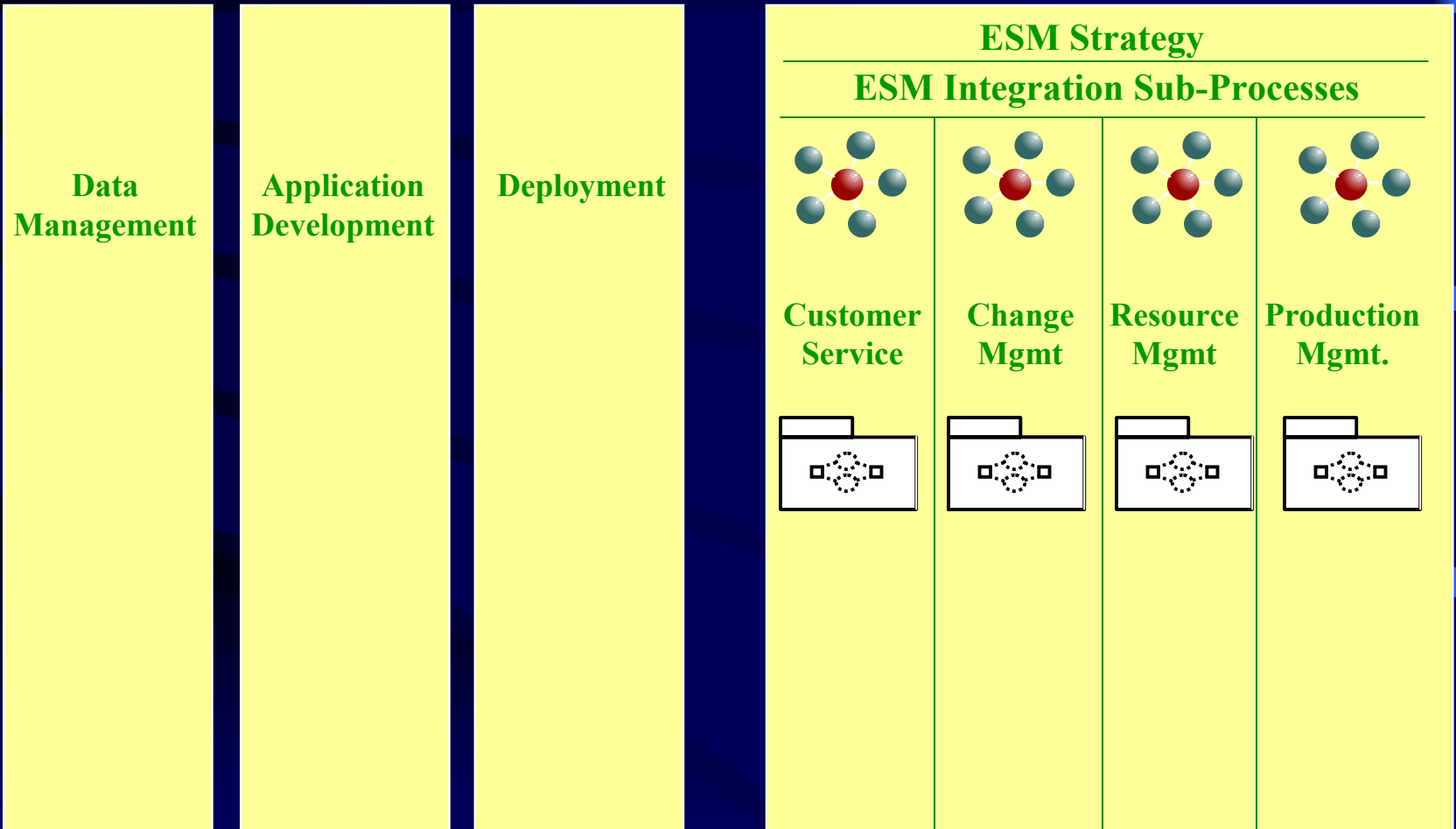
UML = Unified Modeling Language, standard notation for OO design



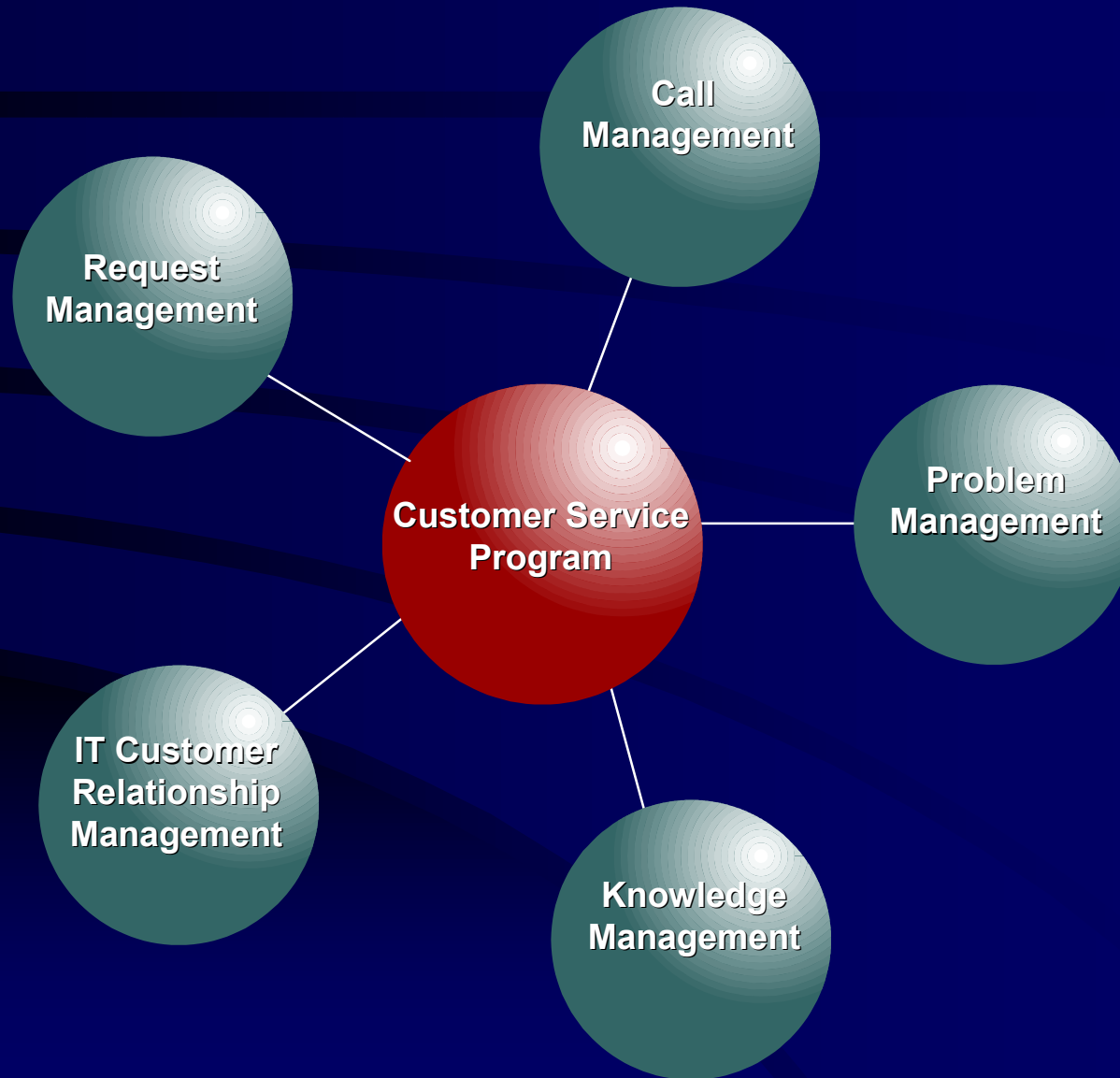
Enterprise Infrastructure Management Processes



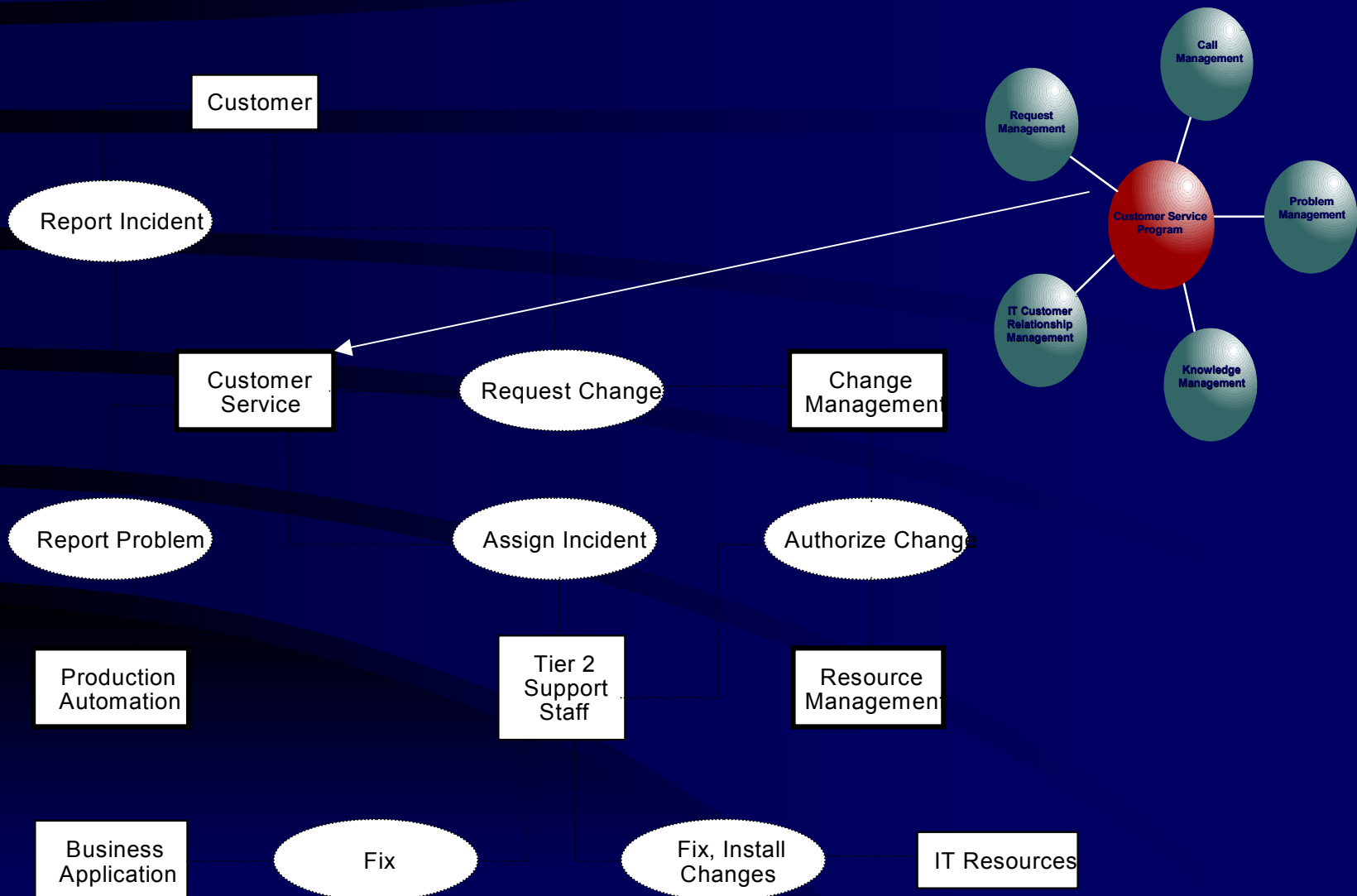
Enterprise Systems Management Sub-Process Work Breakdown



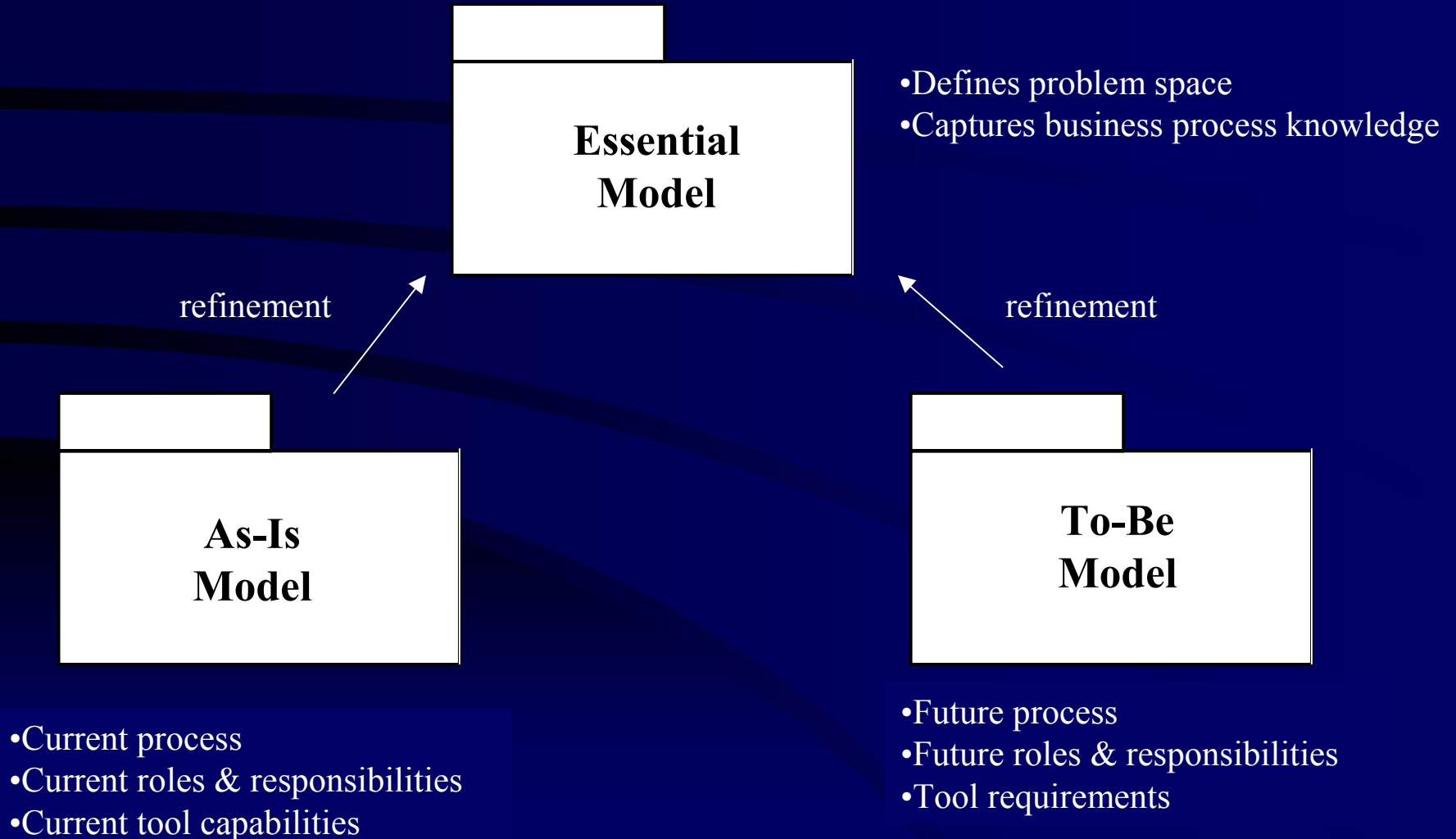
Strategist's View of Customer Service Domain



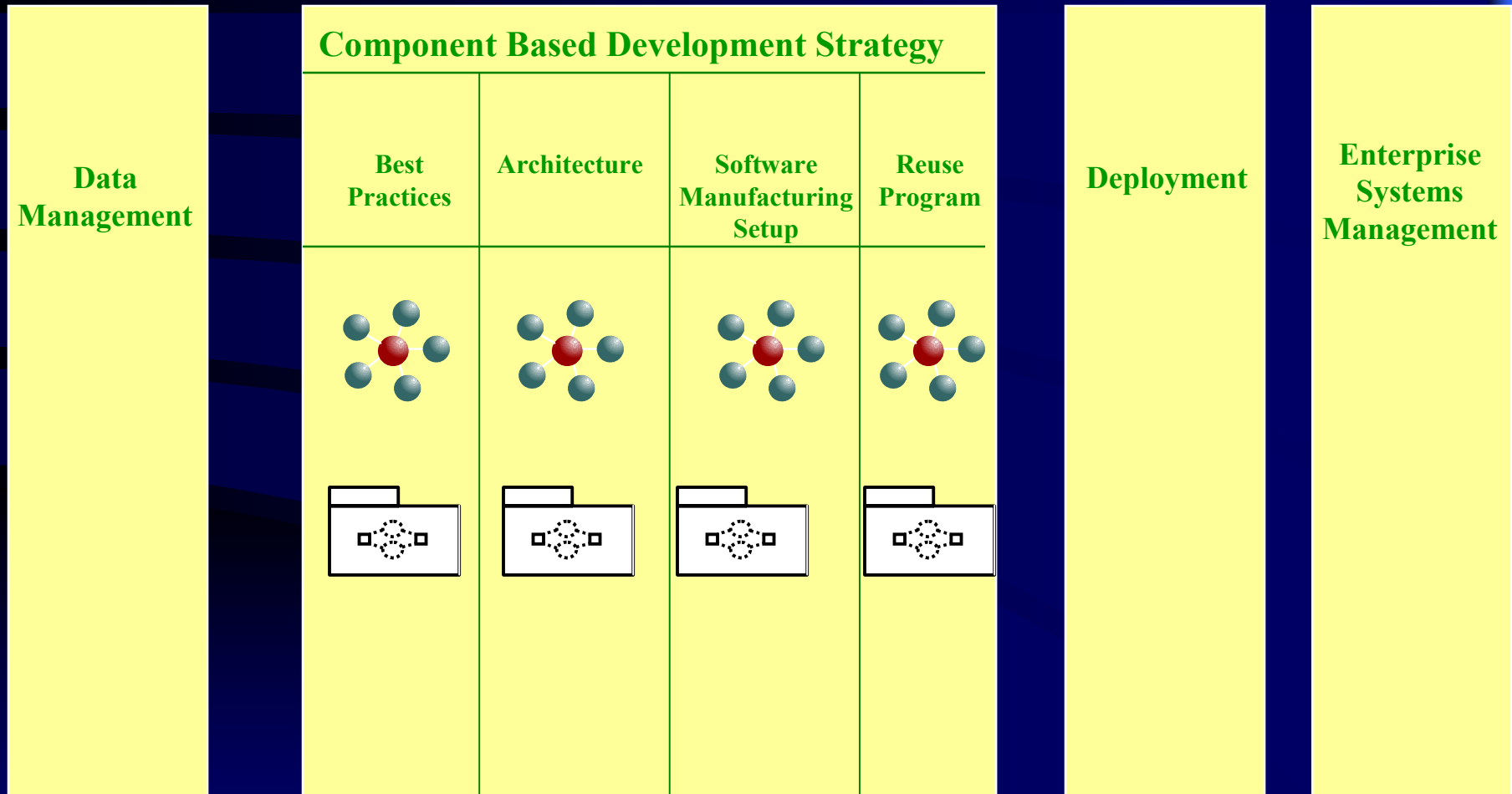
Modeler's View



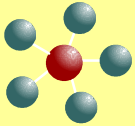
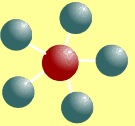
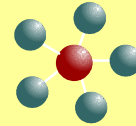
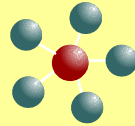
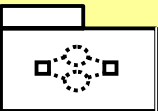
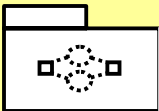
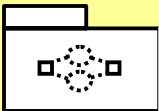
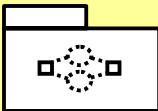
Customer Service Domain Models



Application Development Sub-Process Work Breakdown



Deployment Sub-Process Work Breakdown

Deployment Strategy			
Deployment Planning	Rollout Management	Package Distribution	Data Migration
			
			

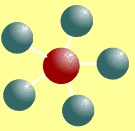
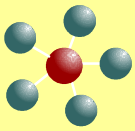
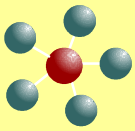
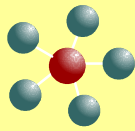
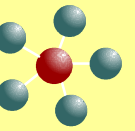
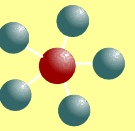
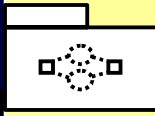
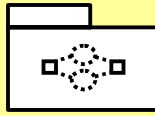
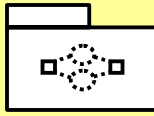
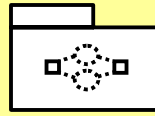
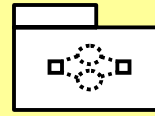
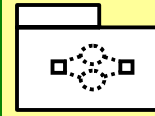
Application Development

Data Management

Enterprise Systems Management

Data Management Sub-Process Work Breakdown

Data Management Strategy

Meta Data Track	Data Architecture	Enterprise Data Mode	Enterprise Reference Files	Data Warehouse/ Business Intelligence	Legacy Integration
					
					

Application
Development

Deployment

Enterprise
Systems
Management

Benefits

- Systematic approach to process definition and integration
- Knowledge capture - insurance against people leaving
- Thoughtful transition plan
- IT-wide consensus, buy-in and common language
- Rigorous tool requirements