WHITEMARSH DATA MANAGEMENT SERIES

Clarion Live Presentation

Enterprise-Wide
Project Management
September 26, 2014

Whitemarsh Information Systems Corporation

TOPICS

Why Whitemarsh Project Management?

1. Objective of Whitemarsh Project Management
2. Integration with the Metabase System
    1. Metabase System Architecture
    2. Metabase System Development Environment
    3. Metabase System Operating Environment
3. Architecture and Operations
    1. Data Architecture
    2. Business Process Architecture
    3. Demonstration
4. Project Management System Summary and Benefits
5. Project Management System Way-Ahead

WHY WHITEMARSH PROJECT MANAGEMENT?

- If you need but cannot answer the following questions:
  - Why does one project cost more than another similar project?
  - Why are similar projects accomplished differently?
  - How can I compare and contrast project costs and durations?
  - Do “Eagles” over “Turkey’s” really make a difference?
  - Do sophisticated Work Environments & Tools really make a difference?
  - When does paying more for certain tools and high quality staff reduce cost and time to market?
  - Which parts of my organization are requesting/accomplishing largely the same projects or the same changes to their projects?
  - How can I track REAL project progress vs just Burning Time?
  - How can I standardize project methodologies without becoming an overbearing and anal “Micro Manager?”

1.0 WHITEMARSH PROJECT MANAGEMENT OBJECTIVE

- Enable Project Management across the enterprise
- Enable the management of projects that deal with specification and evolution of enterprise components:
  - Missions, Organizations, and Functions
  - Information Technology Work Products
    - Data Architectures
    - Business Information Systems Plans
    - Business Information Systems
  - Resource Life Cycles
  - Information Systems Plans
  - IV&V of projects
- Enable the development of Projects, Deliverables, and Tasks
- Enable the most efficient and effective use of skill-based staff
- Ensure that project progress is based on deliverables produced, not time burned.

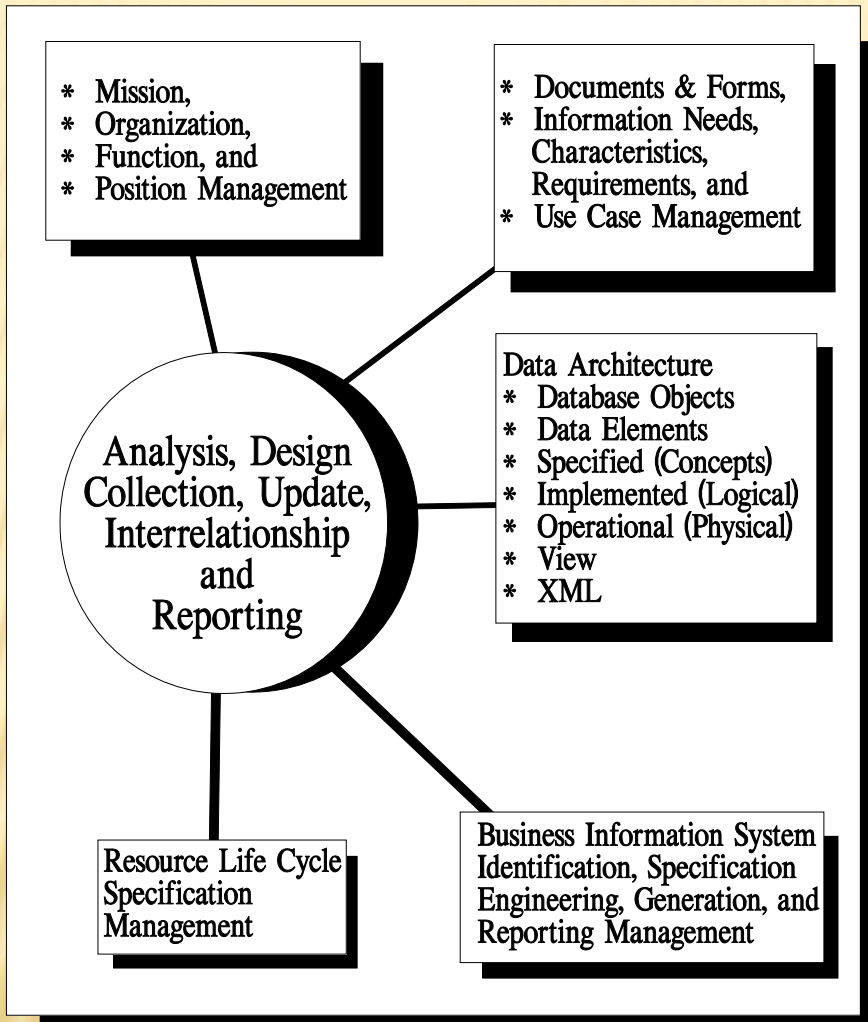
2.0 INTEGRATION WITH THE METABASE SYSTEM

- Enterprise Work-Product Intellectual-Property
- Metabase System Development Environment
- Metabase System Operating Environment

2.1 ENTERPRISE WORK-PRODUCT INTELLECTUAL-PROPERTY

Metabase System Database Domain

Hence we need Meta-Data Management



Achieved Through Projects

Hence We need Project Management

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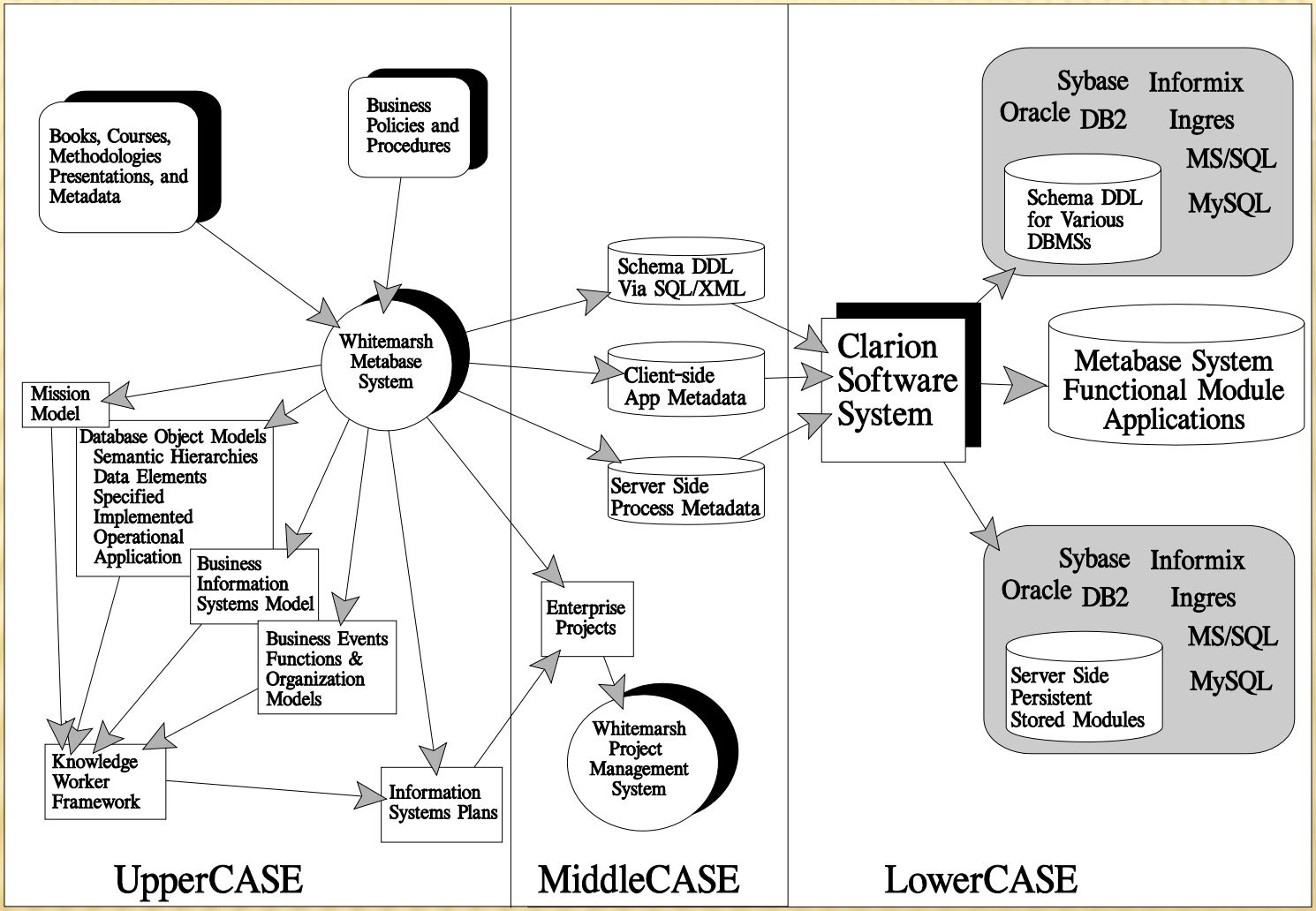
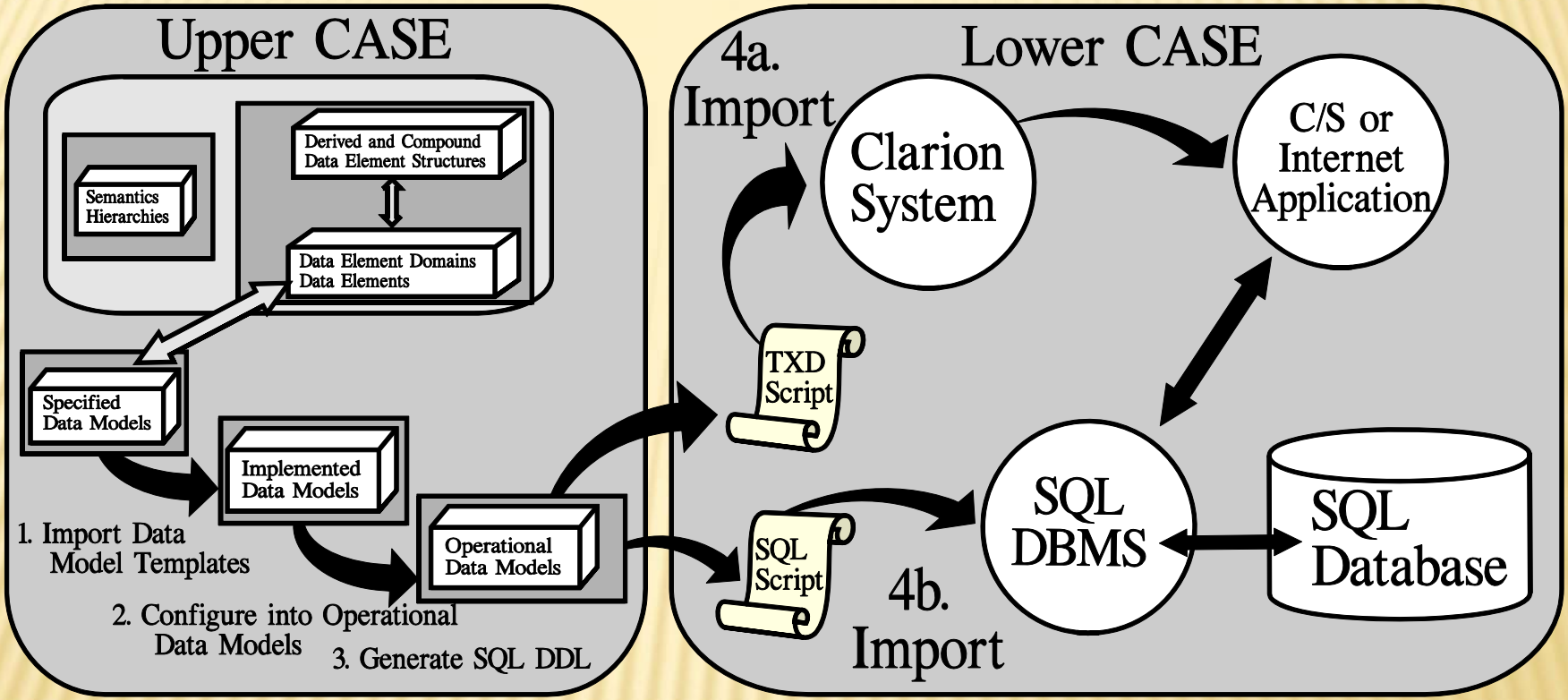
2.2 METABASE "DATA" DEVELOPMENT ENVIRONMENT



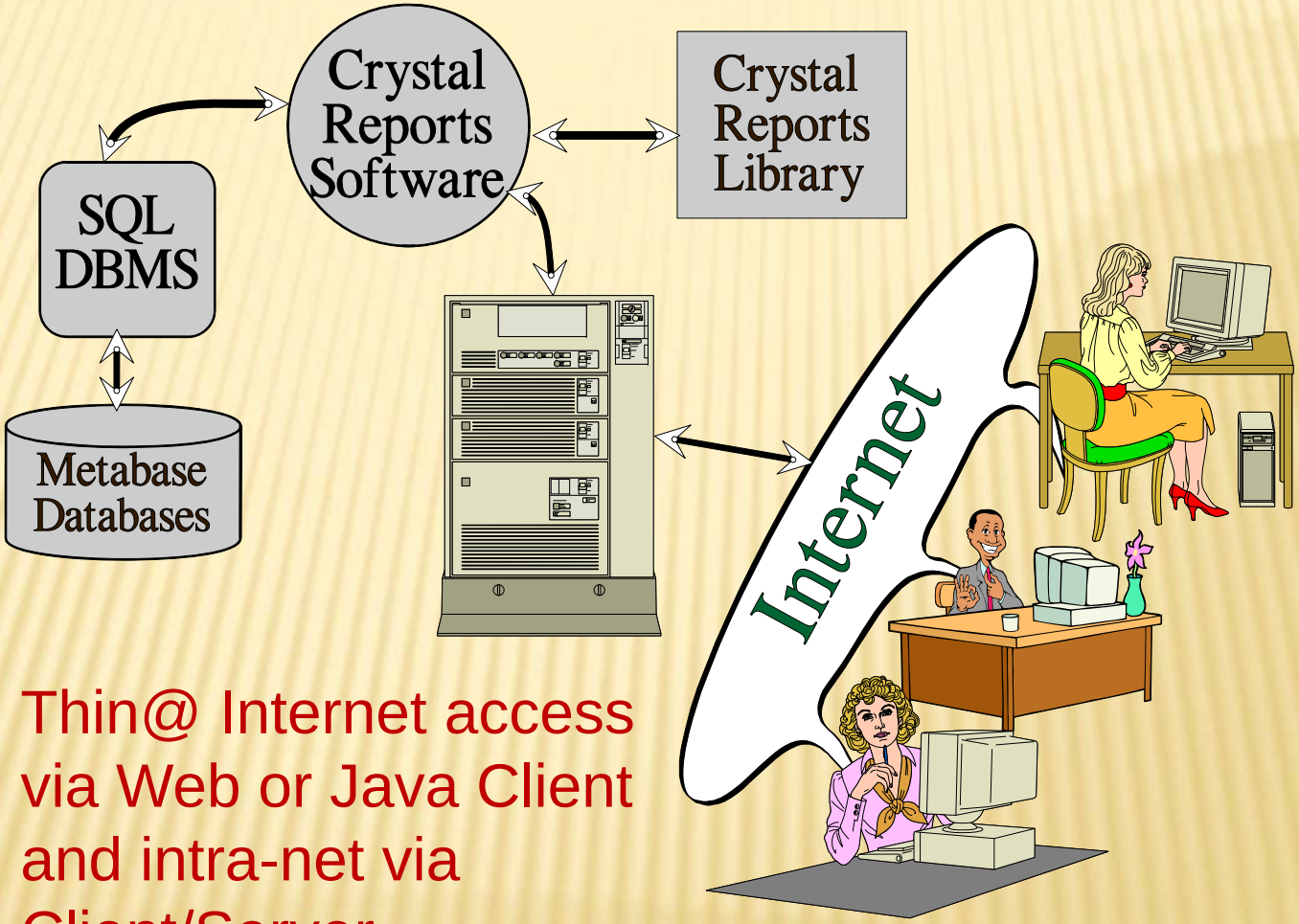
"METABASE SYSTEM" DEVELOPMENT



Metabase System Data Model Development

Metabase System Functional Application Development

2.3 METABASE SYSTEM OPERATING ENVIRONMENT



Thin@ Internet access via Web or Java Client and intra-net via Client/Server

3.0 ARCHITECTURE & OPERATIONS

- Data Architecture
- Business Process Architecture
- Demonstration

3.1 DATA ARCHITECTURE

- Templates
  - Project, Deliverables and Task
- Enterprise Project Context
  - Mission, Organization, Function, Positions and Persons
  - Contracts
  - Resources and Resource Life Cycles

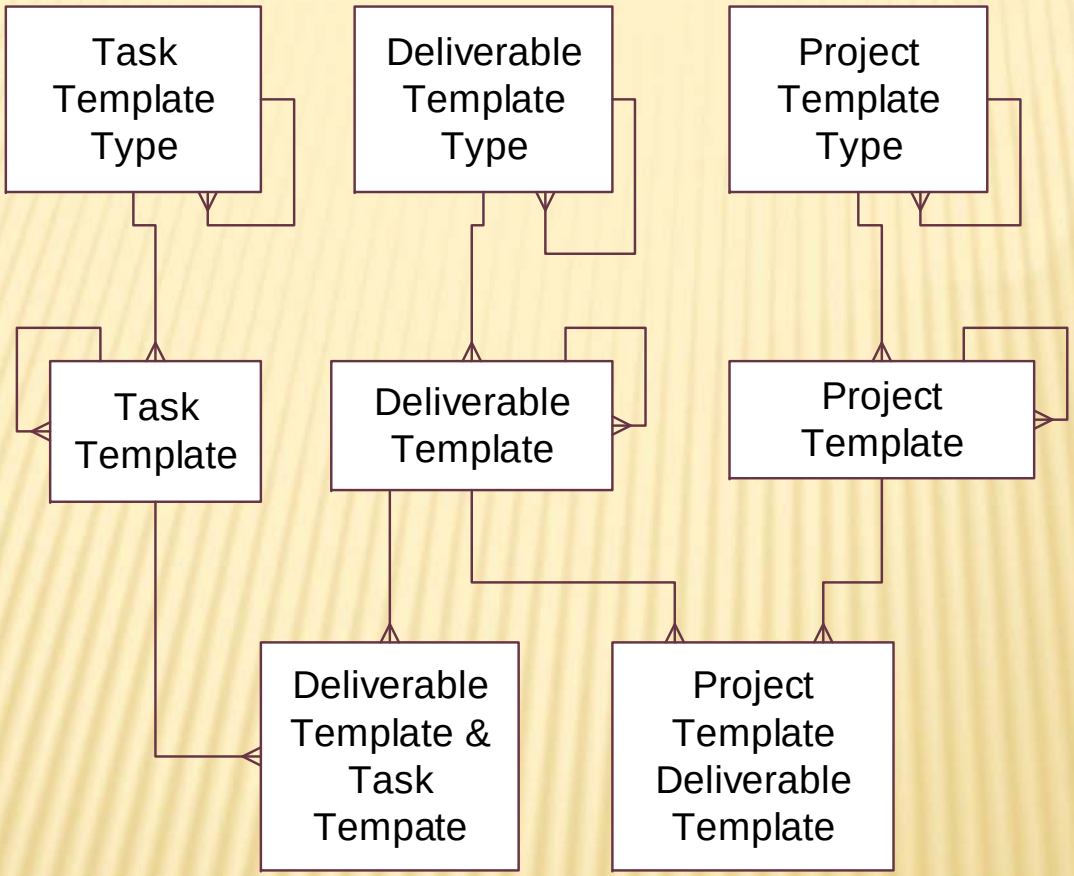
3.1 DATA ARCHITECTURE (CONT.)

- Project Management (management of projects)
  - Work Environment Factors & Skills
  - Project Deliverables
  - Project Tasks
  - Project Task Assignments
  - Project Task Skill Assignments
  - Person and their Skill Assignments
  - Work Performed

TEMPLATES

- Project Template Types and Templates
- Deliverable Template Types and Templates
- Task Template Types and Templates

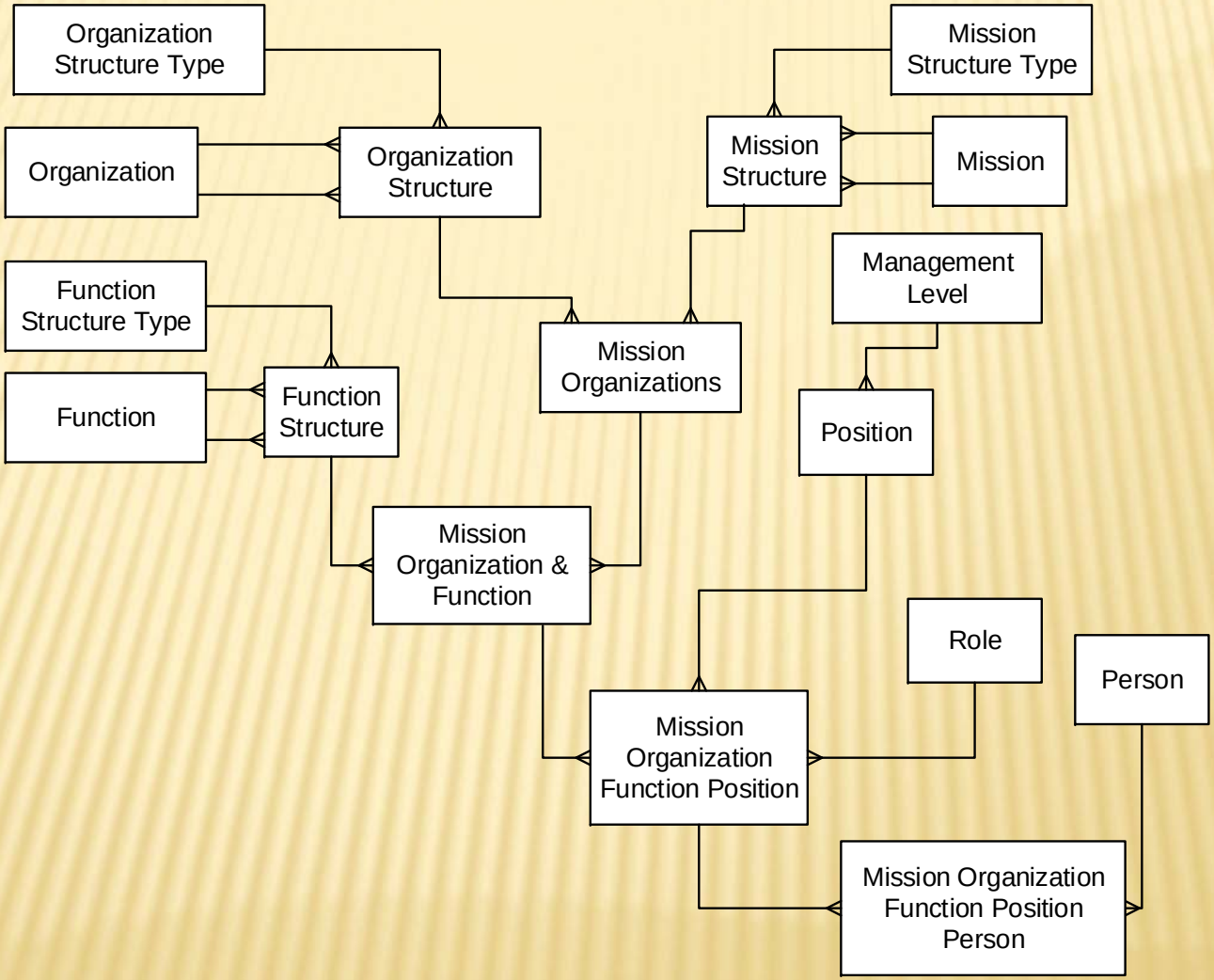
TEMPLATE TABLES



ENTERPRISE CONTEXT

- Mission, Organization, Function, Positions and Persons
- Contracts
- Resources and Resource Life Cycles

ENTERPRISE CONTEXT TABLES



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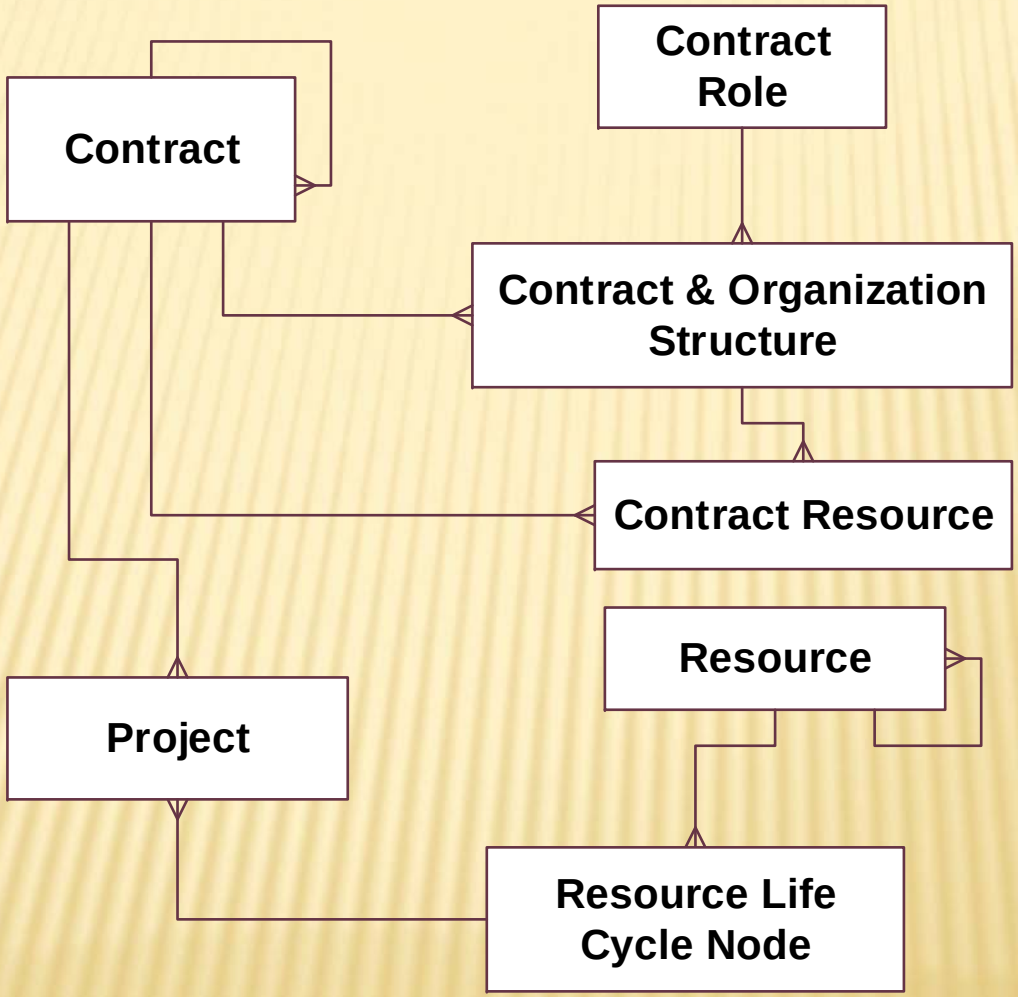
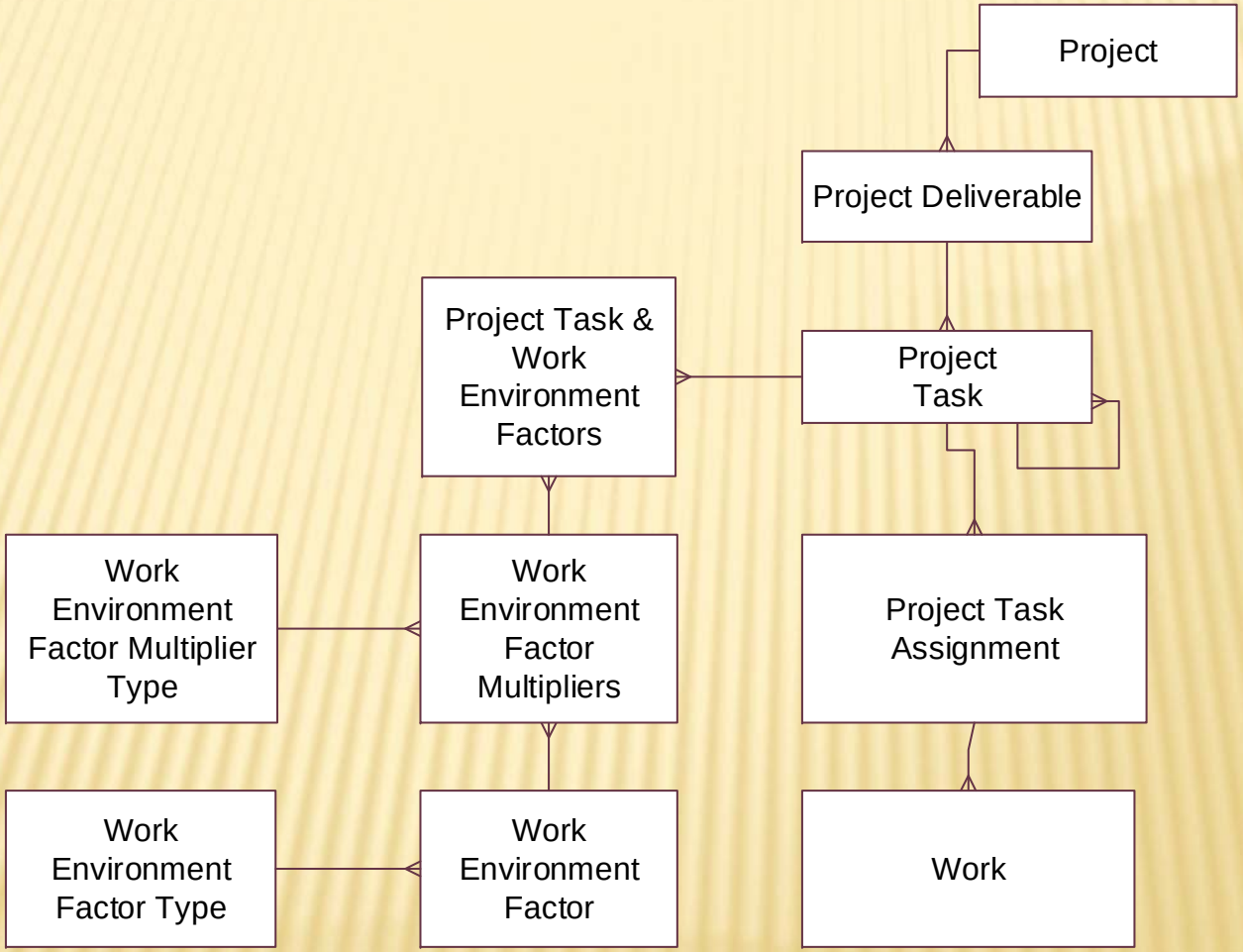
ENTERPRISE CONTEXT TABLES (CONT.)



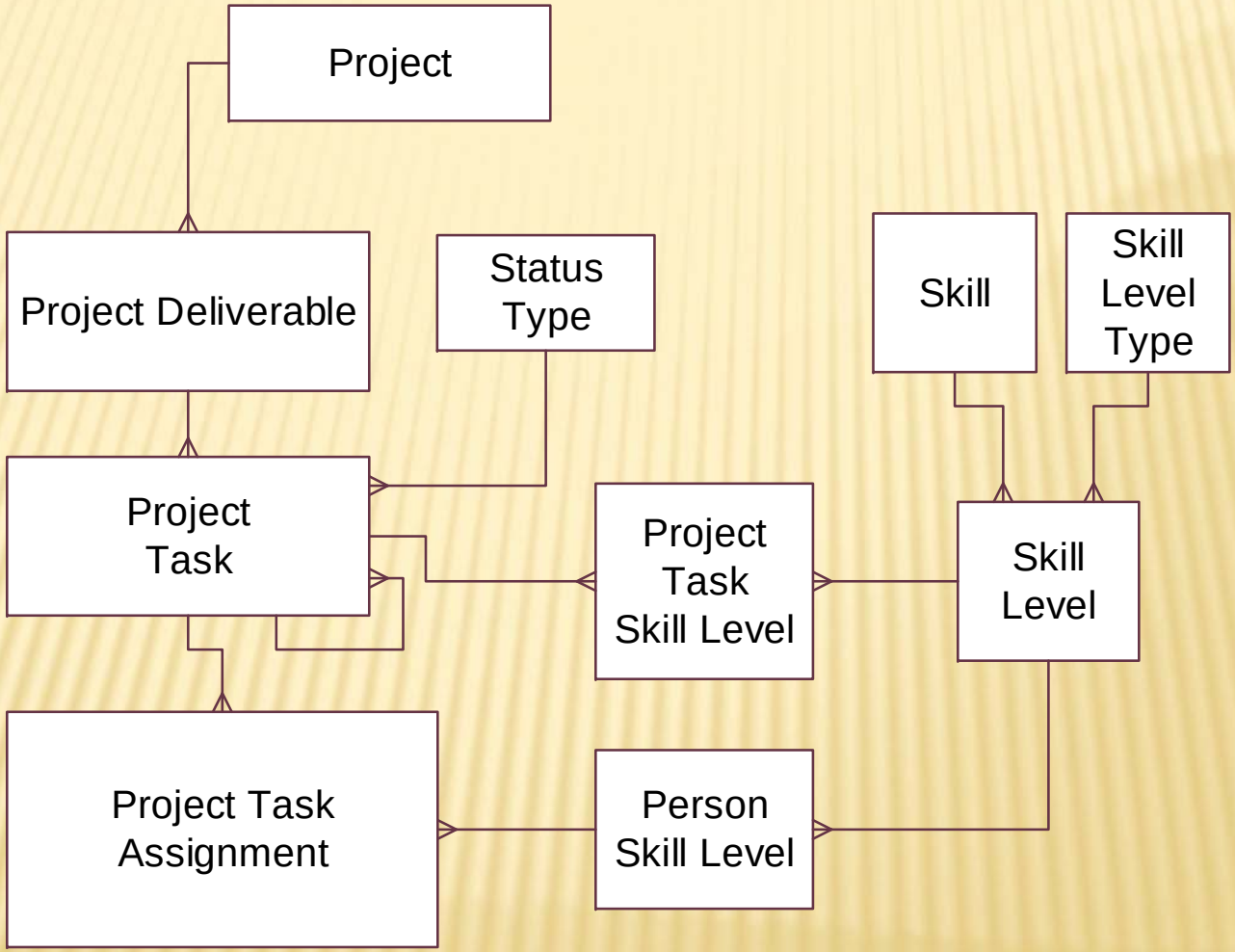
PROJECT MANAGEMENT

- Work Environment Factors & Skills
- Project Deliverables
- Project Tasks
- Project Task Assignments
- Project Task Skill Assignments
- Person and their Skill Assignments
- Work Performed

WORK ENVIRONMENT FACTORS



PERSON SKILLS AND ASSIGNMENTS



3.2 PROCESS ARCHITECTURE & DEMONSTRATION

- Projects
- Work Environment Factor Management
- Persons Organizations and Skills
- Resource Life Cycles
- Templates
- Contract Management
- Reference Data

3.2.1 PROJECTS

- Project Initiation and Update
- Project Initiation and Update
- Project Work Plan Generation
- Project Deliverable Assignments
- Deliverable Template And Task Template To Project Deliverable Assignments

3.2.1 PROJECTS (CONT.)

- Project Management
  - Projects And Resources Generation
  - Project Deliverables
  - Project Task Work
  - Project Task Management
    - Project Tasks
    - Project Task Skill Level Assignment
    - Project Task Person Skill Level Assignments
    - Project Task Work Environment Factor Multipliers
    - Project Task Work Environment Assignments
      - Project Task Work Environment Factor Assignments
      - Project Task Work Environment Factor Base Line Assignment

3.2.2 WORK ENVIRONMENT FACTOR MANAGEMENT

- Work Environment Factor Management
  - Work Environment Factor Types
  - Work Environment Factors
  - Work Environment Factor Multipliers
  - Work Environment Multiplier Types
  - Work Environment Factor Multiplier Assignment

3.2.3 PERSONS ORGANIZATIONS AND SKILLS

- Persons Organizations And Skills
  - Persons
  - Person Skill Level Assignments
  - Organization Structures
  - Organization Structure Types

3.2.4 RESOURCE LIFE CYCLES

- Resource Life Cycle Analysis
  - Resources
  - Resource Life Cycle Nodes

3.2.5 TEMPLATES

- Templates
  - Template Assignments
  - Project Templates
  - Deliverable Templates
  - Task Templates
  - Template Assessments

3.2.5 TEMPLATES (CONT.)

- Template Assignments
  - Project Templates AND Deliverable Template Assignment
  - Deliverable-Templates Task-Templates Assignment

3.2.5 TEMPLATES (CONT.)

- Project Templates
  - Project Templates
  - Import Project Templates
  - Project Template Reallocation
  - Project Template Type
  - Import Project Template Types
  - Project Template Type Reallocation

3.2.5 TEMPLATES (CONT.)

- Deliverable Templates
  - Deliverable Templates
  - Import Deliverable Templates
  - Deliverable Template Reallocation
  - Deliverable Template Types
  - Import Deliverable Template Types
  - Deliverable Template Type Reallocation

3.2.5 TEMPLATES (CONT.)

- Task Templates
  - Task Templates
  - Import Task Template
  - Task Template Reallocation
  - Task Template Type
  - Import Task Template Types
  - Task Template Type Reallocation

3.2.5 TEMPLATES (CONT.)

- Template Assessments
  - Project Based Template Assessment
  - Deliverable Based Template Assessment
  - Task Based Template Assessment

3.2.6 CONTRACT MANAGEMENT

- Contract Management
  - Contract Resources
  - Contracts
  - Contract Organization Structures

3.2.7 REFERENCE DATA

- Reference Data
  - Basic Reference Data
  - Holidays
  - Contract Roles
  - Role Types
  - Skill
  - Skill Level Types
  - Skill Level Assignments
  - Skill Levels
  - Status Types

3.2.7 REFERENCE DATA (CONT.)

- Import Reference Data
  - Contract Role Source
  - Holiday Source
  - Role Type Source
  - Skill Level Type Source
  - Skill Source
  - Work Environment Factor Type Source
  - Work Environment Multiplier Type Source
  - Work Environment Factor Source

4.0 PROJECT MANAGEMENT SUMMARY AND BENEFITS

- You can now known why one project cost more than another similar project.
- Why similar projects are accomplished differently.
- Comparisons and contrasts among project costs and durations?
- Plausible justification of “Eagles” over “Turkey’s.
- Plausible justification of sophisticated Work Environments & Tools really.
- Proof that paying more for tools and staff reduces cost and time to market?
- Bringing “Enterprise” consolidation to redundant and conflicting architectures, databases and business information systems.
- Effective “Earned Value Management” of projects.
- Standardization of project methodologies without being a “Micro Manager?”

5.0 PROJECT MANAGEMENT SYSTEM WAY-AHEAD

- Finishing the four project resource computations (one staff week)
- Releasing WM Project Management with Metabase Version 0706 (13 October) that's Thin@ ready
- Creation of the Project Management "language" exports for a PERT, Gantt, and Critical Path graphical system (two staff weeks).
- Creation of direct Project Deliverables to actual Deliverables "association" Clarion procedures (one staff week).
- Releasing WM Project Management with Metabase Version 0707.

6.0 QUESTIONS AND HOPEFULLY – ANSWERS

- None? Good, let's all go home… ahem.