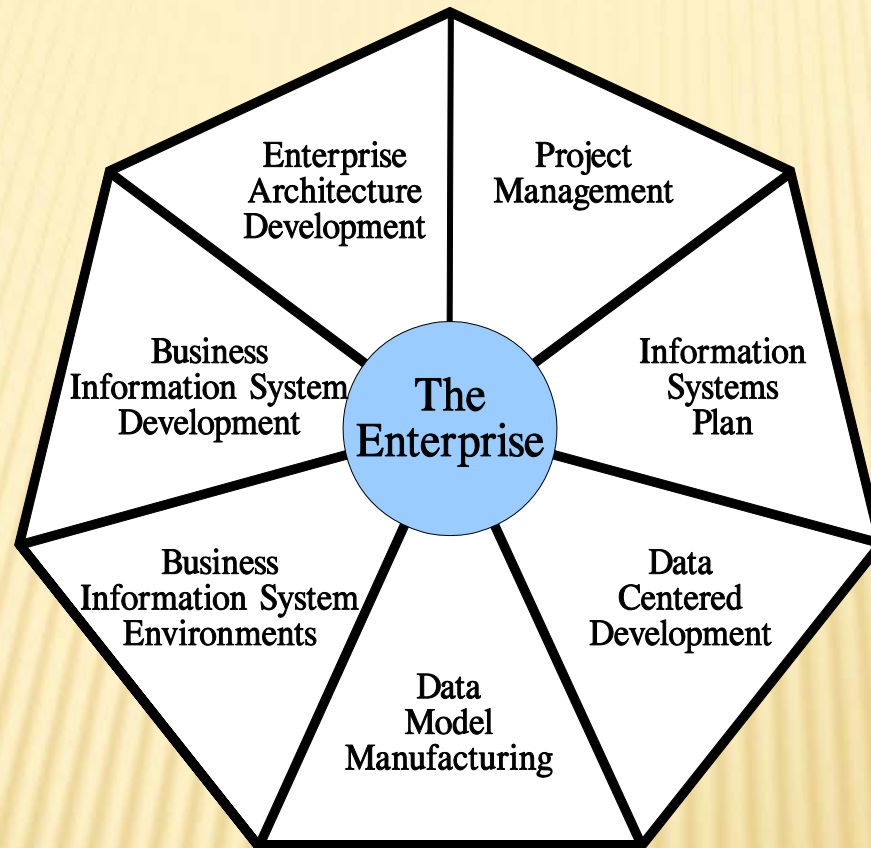


WHITEMARSH DATA MANAGEMENT SERIES



**Positive-ROIs Solutions that address
Critical Business Information Systems Problems**



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BLUF (BOTTOM LINE UP FRONT)

- ✖ Virtually all Business Information Systems are:
 - + Late
 - + Over budget
 - + Not meeting original requirements to say nothing of current requirements.
- ✖ This briefing introduces positive ROI solutions to these vexing problems.



TOPICS

- ★ The 7 ROIs, that unless met result in projects that are late, over budget and unfulfilled requirements.
- ★ Payoff scenario that shows that these problems can and have been solved.
- ★ A Road Ahead that is practical, efficient, and effective.
- ★ References that you can check to prove what's presented.



THE 7 POSITIVE ROI SOLUTIONS FOR IT'S CRITICAL PROBLEMS

- ★ Enterprise-Wide Project Management (16:1 ROI)
- ★ Information Systems Planning (5.9: 1 ROI)
- ★ Data-Centered Development and Management (28:1 ROI)
- ★ Data Model Manufacturing (8.6:1 ROI)
- ★ Business Information Systems Environments (7.7:1 ROI)
- ★ Business Information System Manufacturing (2.8:1 ROI)
- ★ Enterprise Architecture Development (14.6:1 ROI)



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#1 ROI(16:1) ENTERPRISE-WIDE PROJECT MANAGEMENT

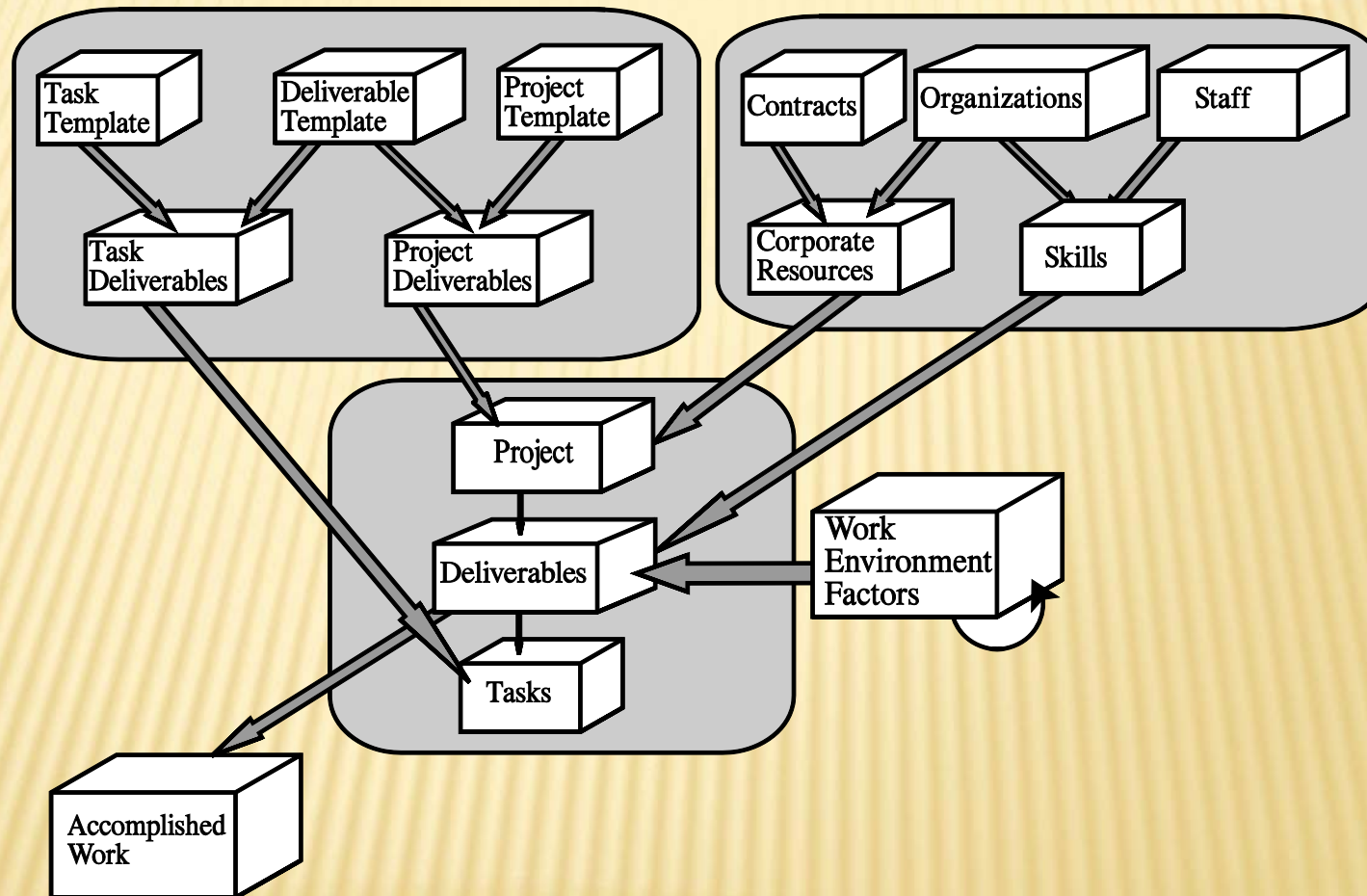
★ Link: http://www.wiscorp.com/roi_enterprisewideprojectmanagement.html

★ The Issues:

- + Task-driven vs deliverables driven projects
- + Same projects but different deliverables and tasks
- + Same projects but different velocities
- + Same projects but different work environments
- + “Stove-piped” projects
- + One-off custom developed project plans
- + Not “integrate-able” project deliverables



SOLUTION ENGINEERING: PROJECT MANAGEMENT



#2 ROI (5.9:1) INFORMATION SYSTEMS PLANNING

★ Link: http://www.wiscorp.com/roi_informationsystemsplanning.html

★ The Issues:

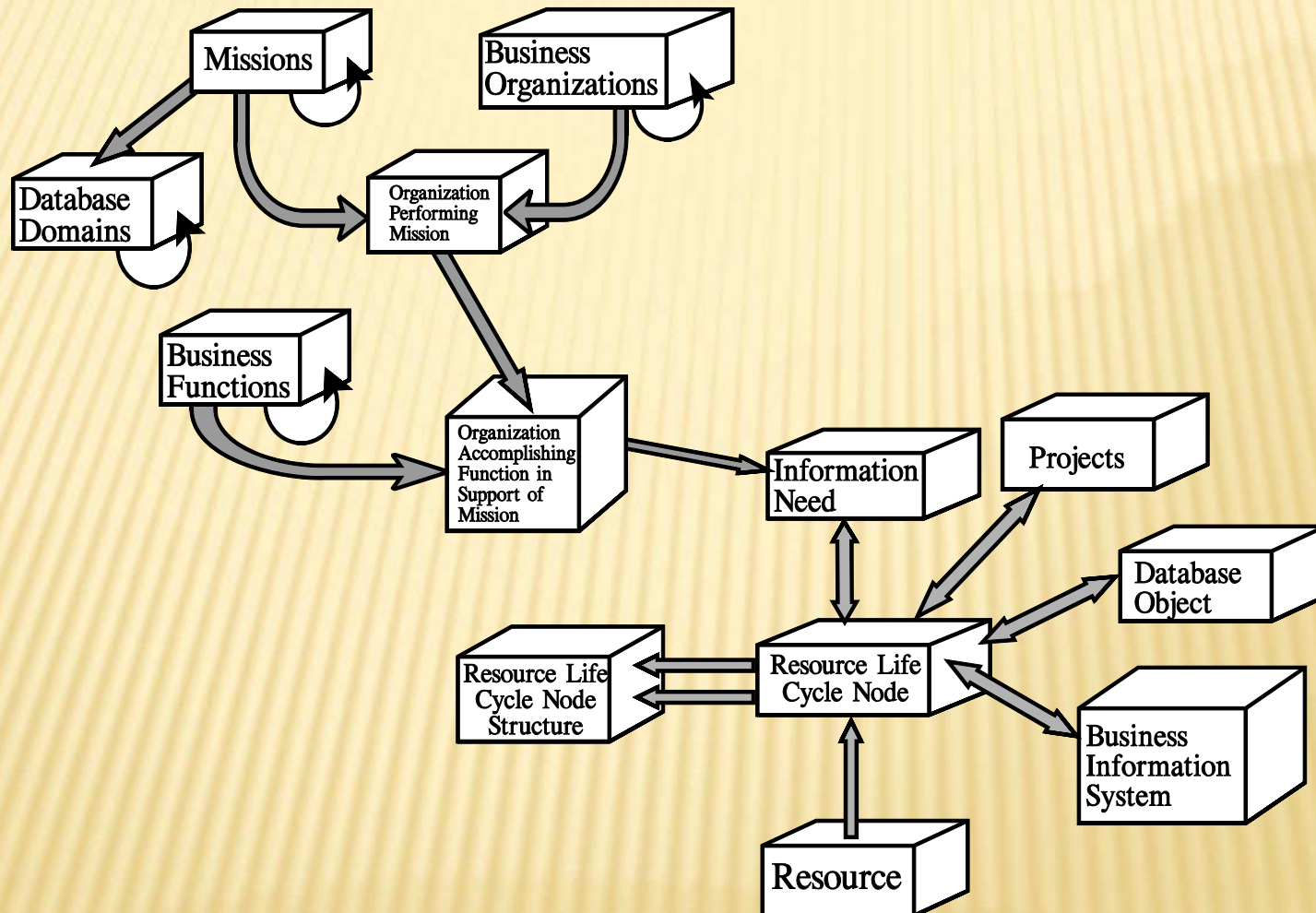
- + Projects driven by squeakiest wheel syndrome
- + Projects done in an illogical order
- + Projects done with conflicting completion dates
- + Projects that don't result in interoperable and enterprise-integrated work products
- + Projects based on stove-piped legislative mandates
- + Projects not based on business resources and their life cycles



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SOLUTION ENGINEERING: INFORMATION SYSTEMS PLANNING



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#3 ROI (28.1) DATA-CENTERED DEVELOPMENT AND MANAGEMENT

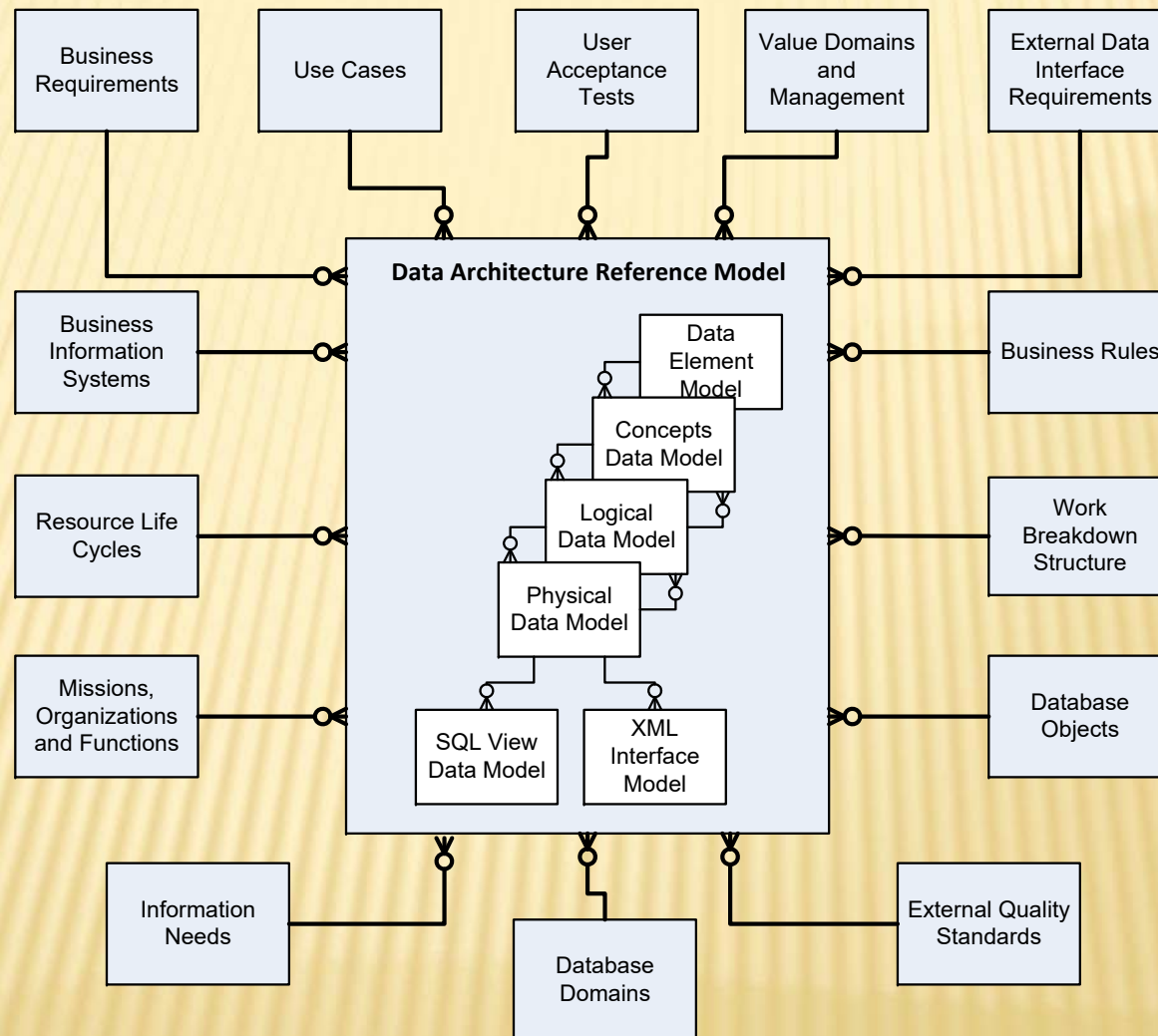
★ Link: http://www.wiscorp.com/roi_datacentereddevelopmentandmanagement.html

★ The Issues:

- + Process-driven business information systems cause 4.6 times more components to implement
- + Process-driven approach results in expensive rework
- + ETL: the “integration-fixer” for process-driven approach can cost more than original business information systems
- + Process driven systems are difficult, expensive, and are error prone to integrate because of data mismatches.



SOLUTION ENGINEERING: DATA-CENTERED DEVELOPMENT



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#4 ROI (8.6:1) DATA MODEL MANUFACTURING

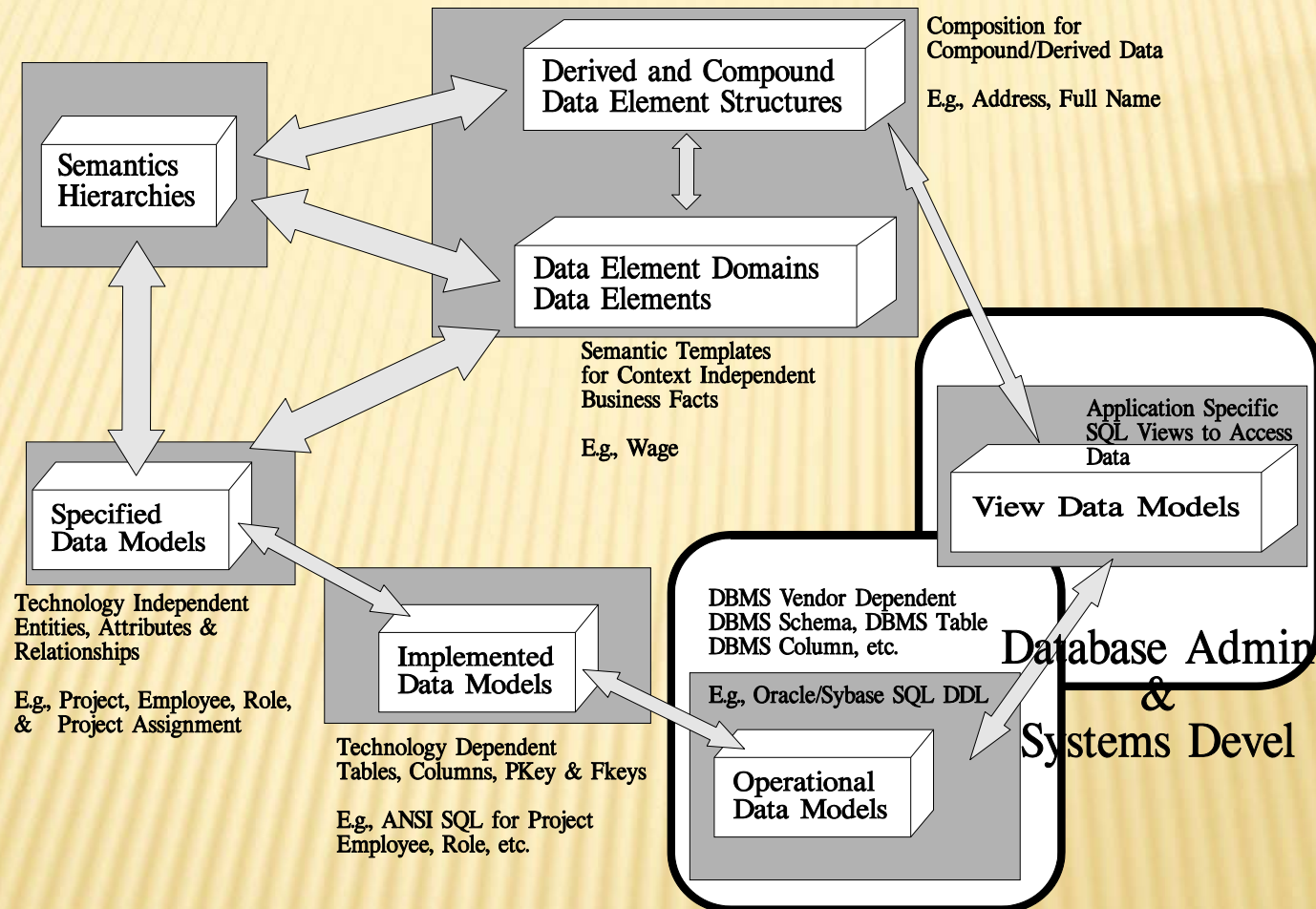
★ Link: http://www.wiscorp.com/roi_datamodelmanufacturing.html

★ The Issues:

- + One-off data models make dis-integration permanent.
- + Some same-named tables & columns with different meanings.
- + Some different-named tables & columns with same meanings.
- + Traditional approach (conceptual, logical, physical) causes multiple-disparate models with overlapping areas that should be congruent.
- + Data model development “slows/blocks” business information system development.
- + Little to no data model reuse across the enterprise.



SOLUTION ENGINEERING: DATA MODEL MANUFACTURING



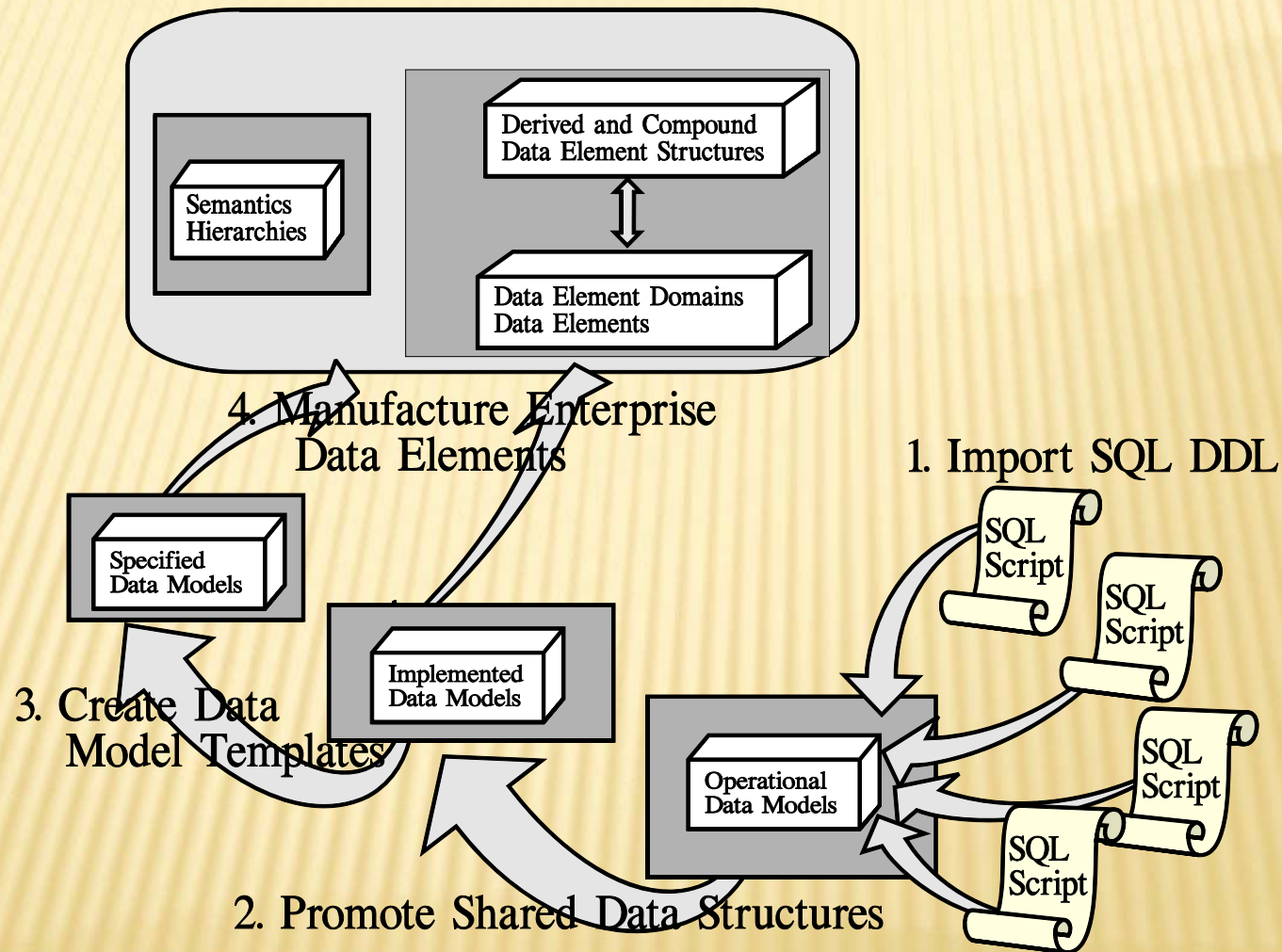
Essential and Complete Domain for Data Standardization



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REVERSE ENGINEERING: DATA MODEL MANUFACTURING



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#5 ROI (7.7:1) BUSINESS INFORMATION SYSTEM ENVIRONMENTS

★ Link: http://www.wiscorp.com/roi_businessinformationsystemenvironments.html

★ The Issues:

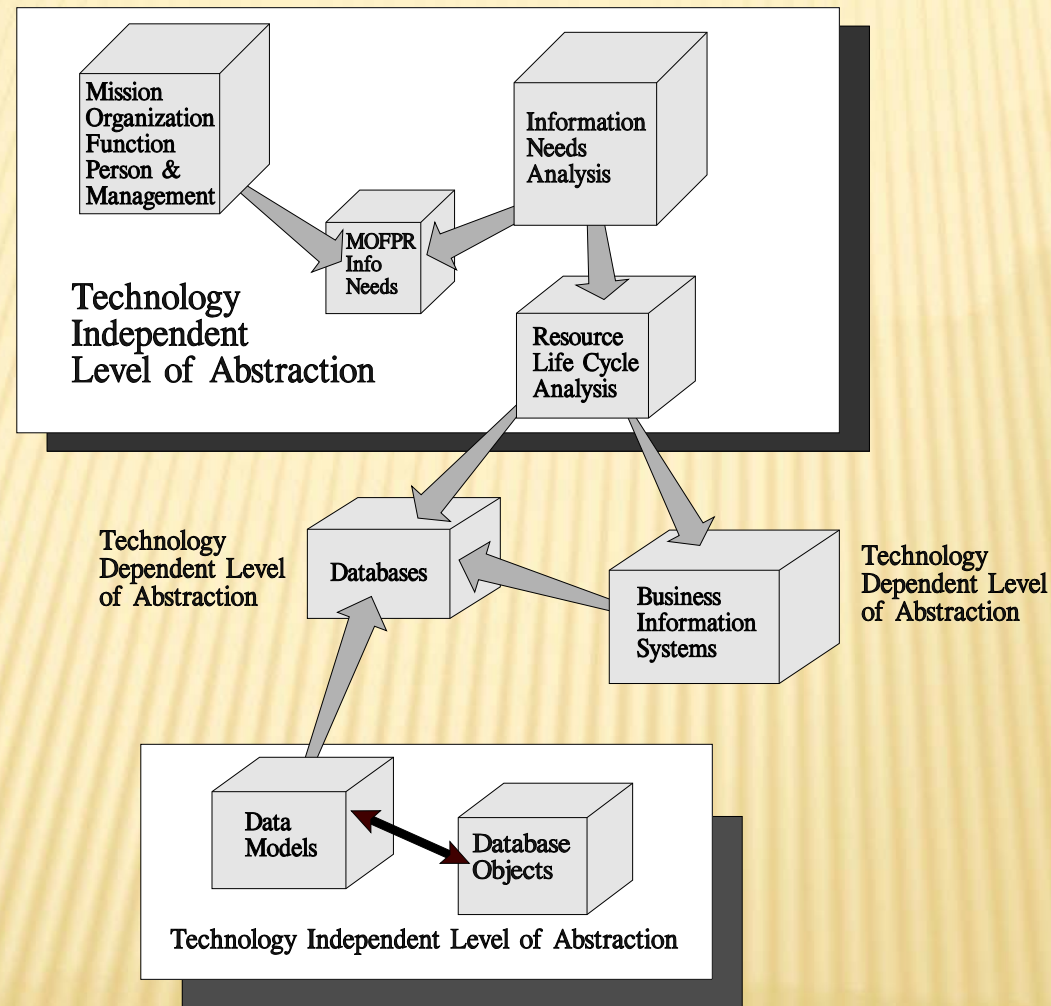
- + Stove-piped Business Information Systems
- + Little data model reuse across business information systems.
- + Complex, expensive & conflicting ETL environments for business information system development
- + Redundant and conflicting same-functional-area developments across the enterprise



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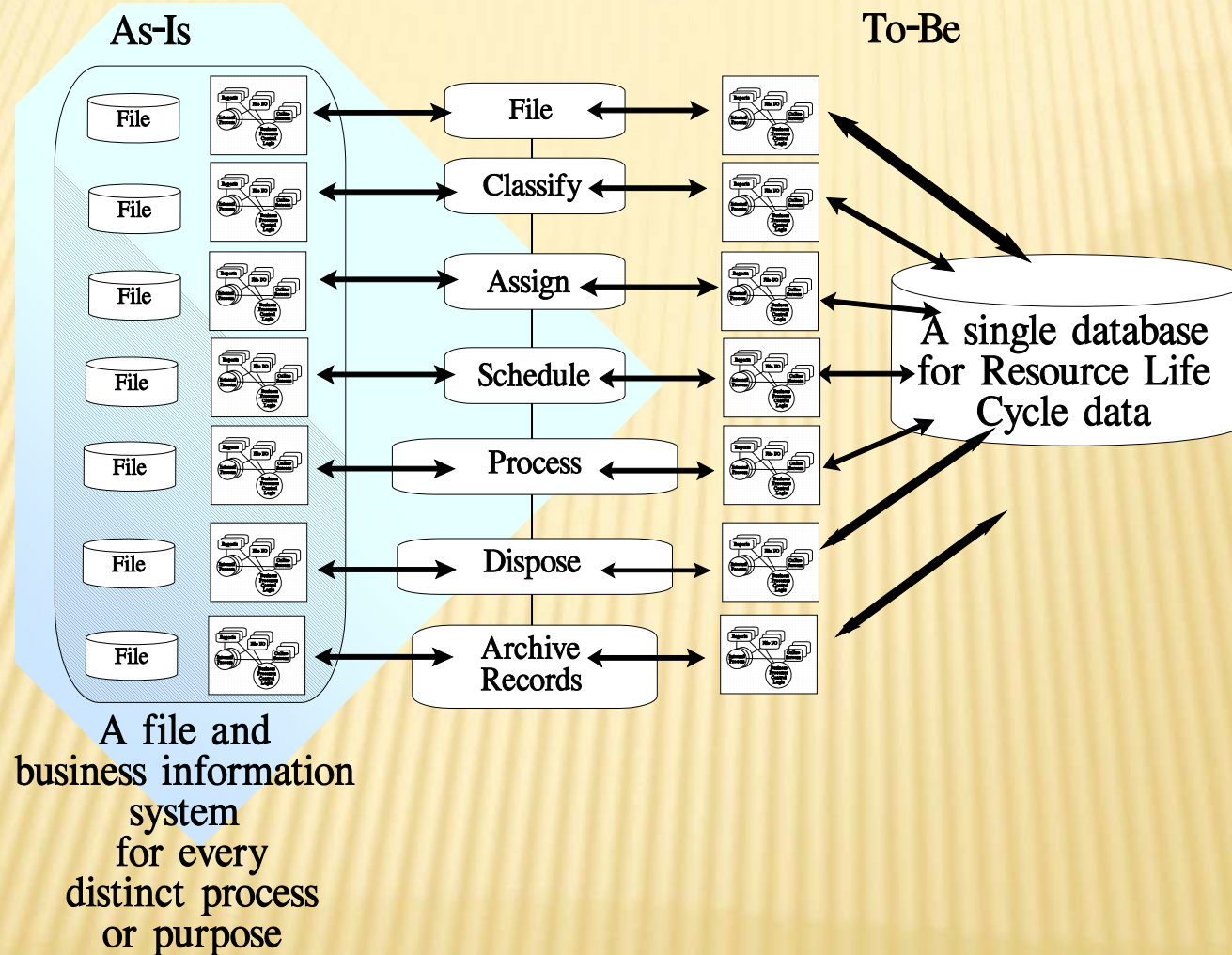
SOLUTION ENGINEERING: BUSINESS INFORMATION SYSTEMS ENVIRONMENTS



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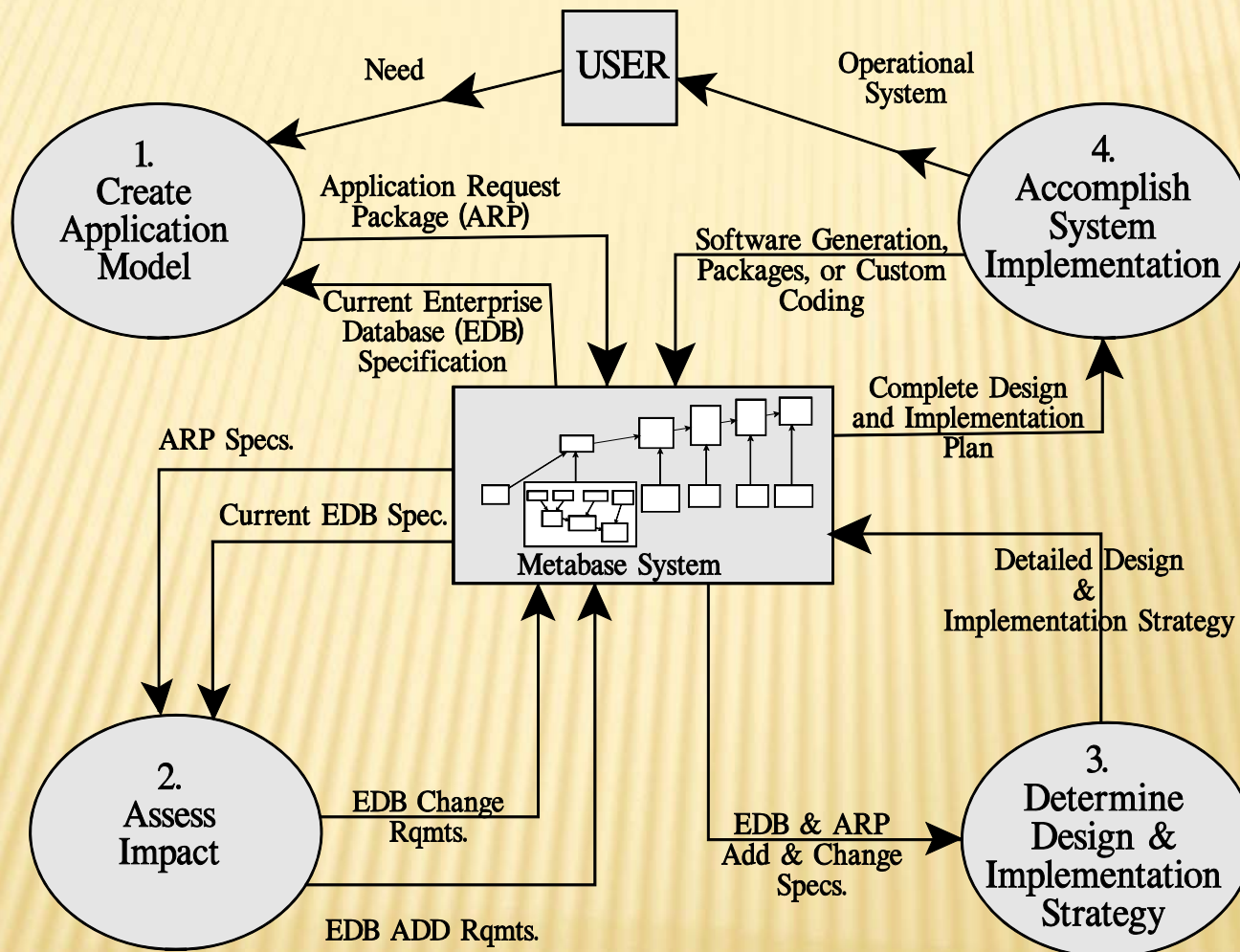
SOLUTION ENGINEERING: BUSINESS INFORMATION SYSTEMS ENVIRONMENTS



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SOLUTION ENGINEERING: BUSINESS INFORMATION SYSTEMS ENVIRONMENTS



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#6 ROI (2.8:1) BUSINESS INFORMATION SYSTEMS MANUFACTURING

★ Link: http://www.wiscorp.com/roi_businessinformationsystemsmanufacturing.html

★ The Issues:

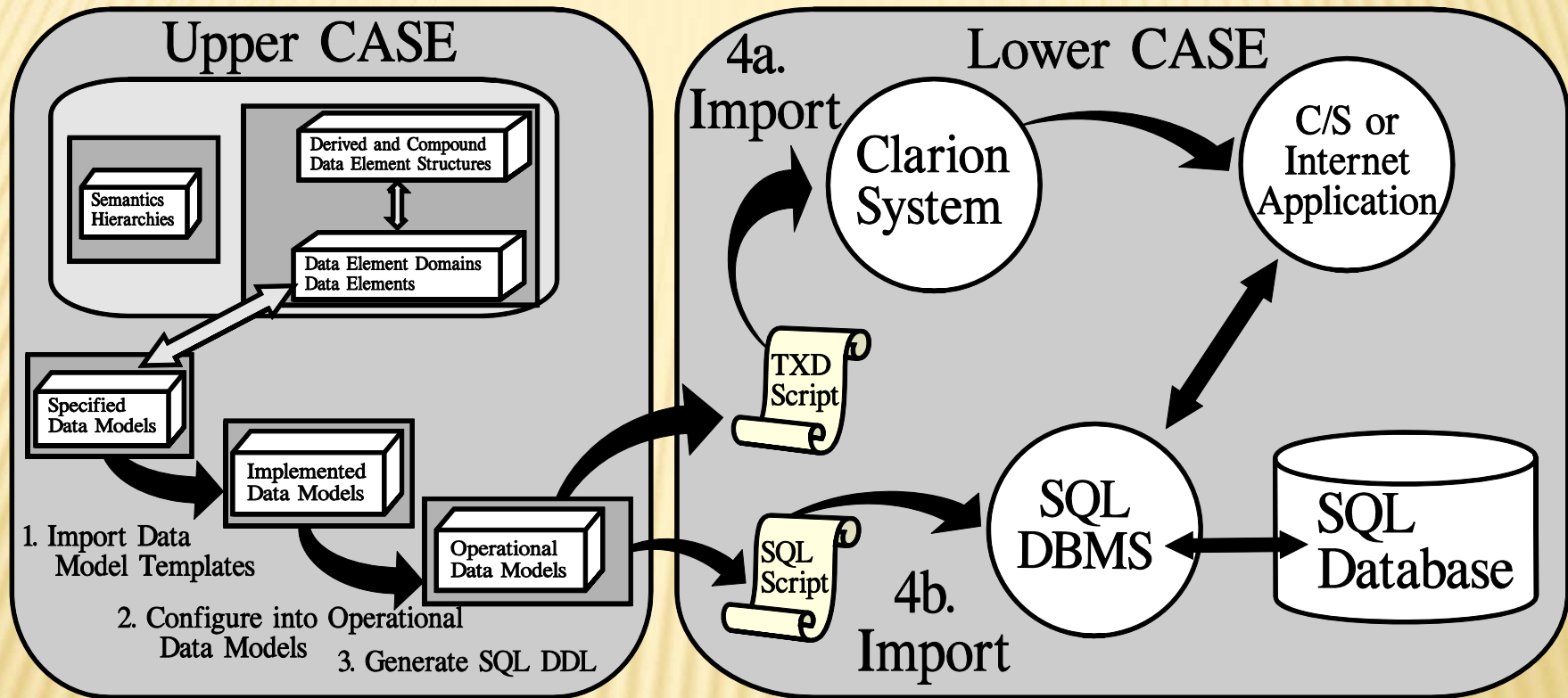
- + Custom designed and programmed business information system components.
- + Differently custom designed and programmed essentially similar business information system component components.
- + Evolved requirements cause significant custom-code rework.
- + Schedules and budgets that almost always fail.



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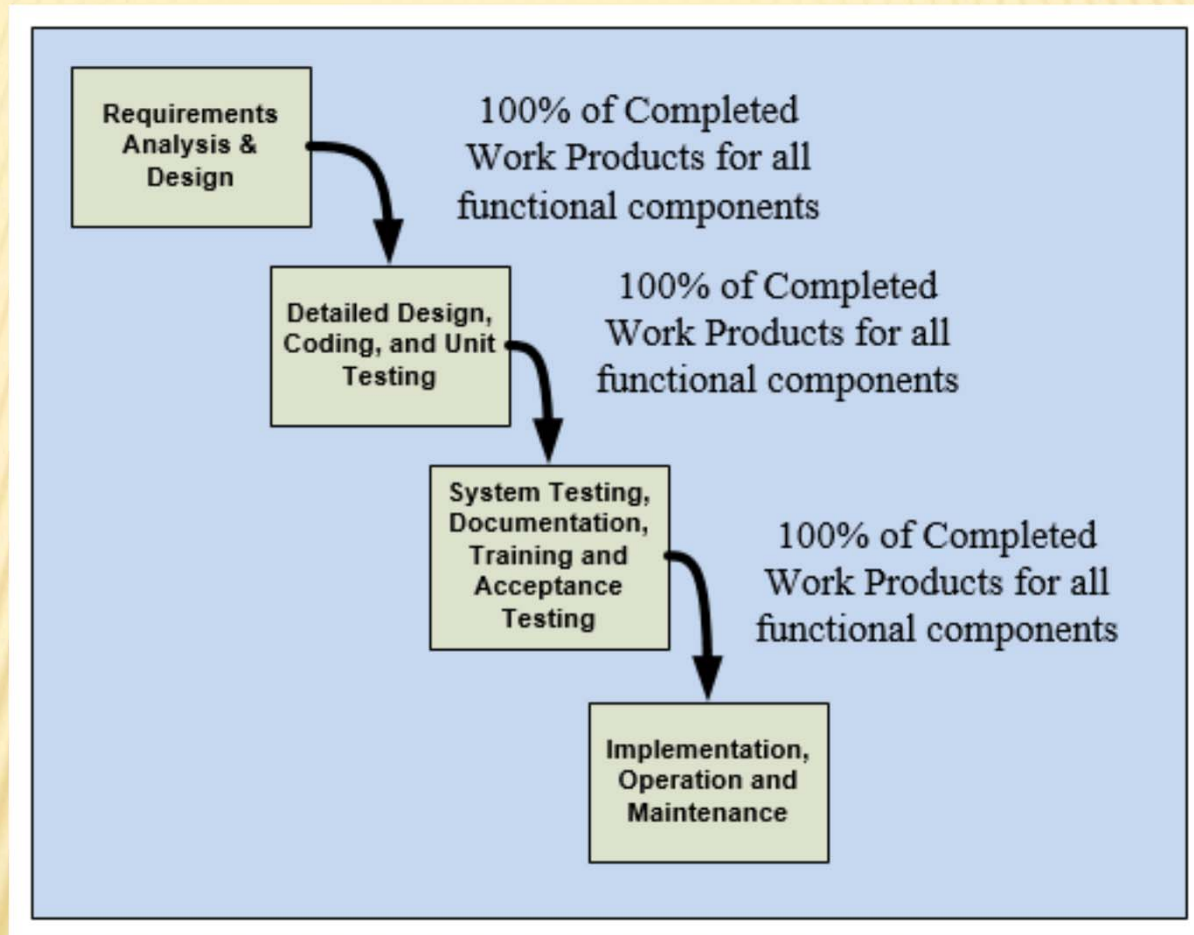
SOLUTION ENGINEERING: BUSINESS INFORMATION SYSTEMS MANUFACTURING



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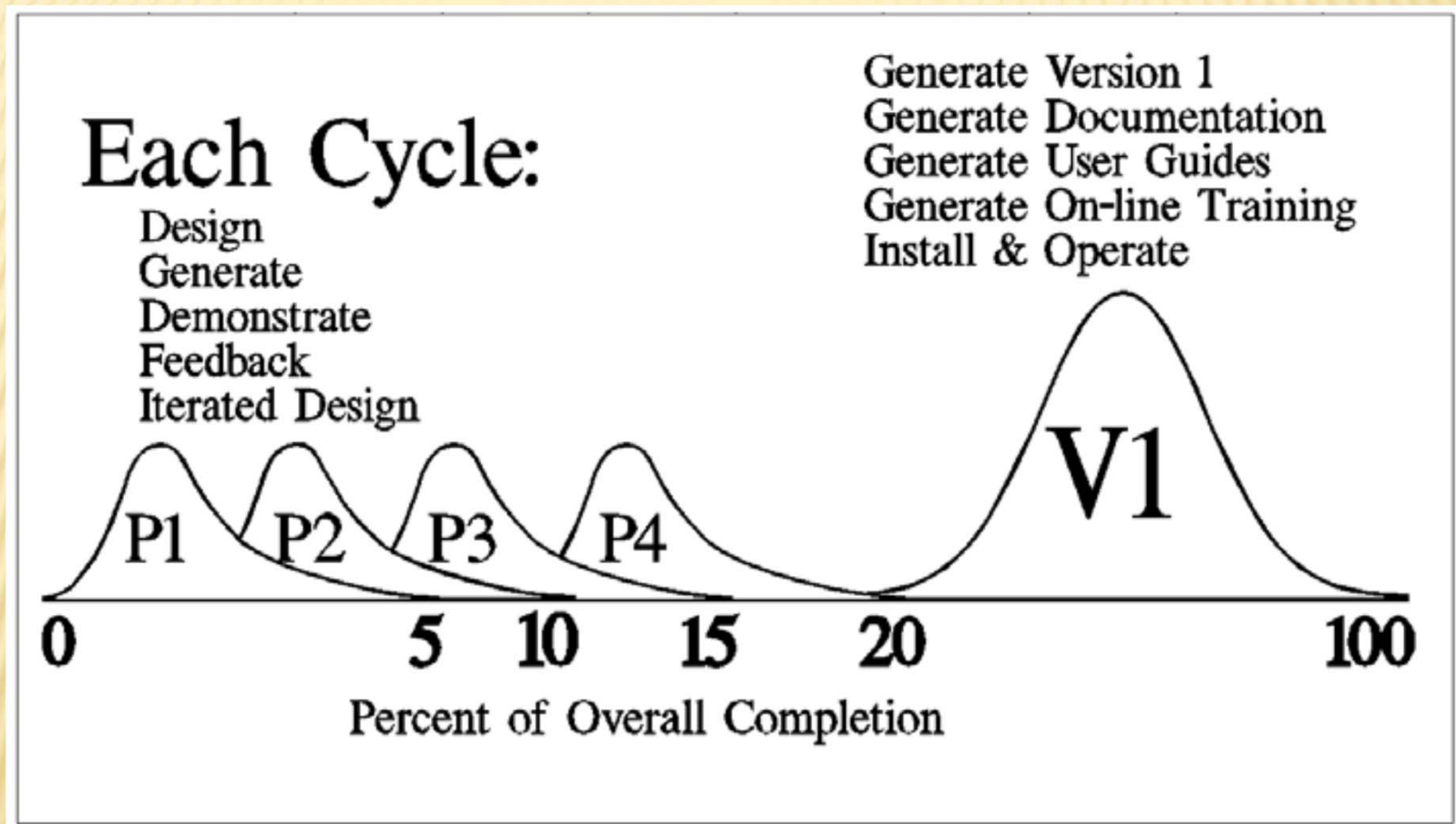
WATER-FALL SDLC: BUSINESS INFORMATION SYSTEMS MANUFACTURING



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PROTOTYPING & CODE GENERATION: BUSINESS INFORMATION SYSTEMS MANUFACTURING



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#7 ROI (14.6:1) ENTERPRISE ARCHITECTURE DEVELOPMENT

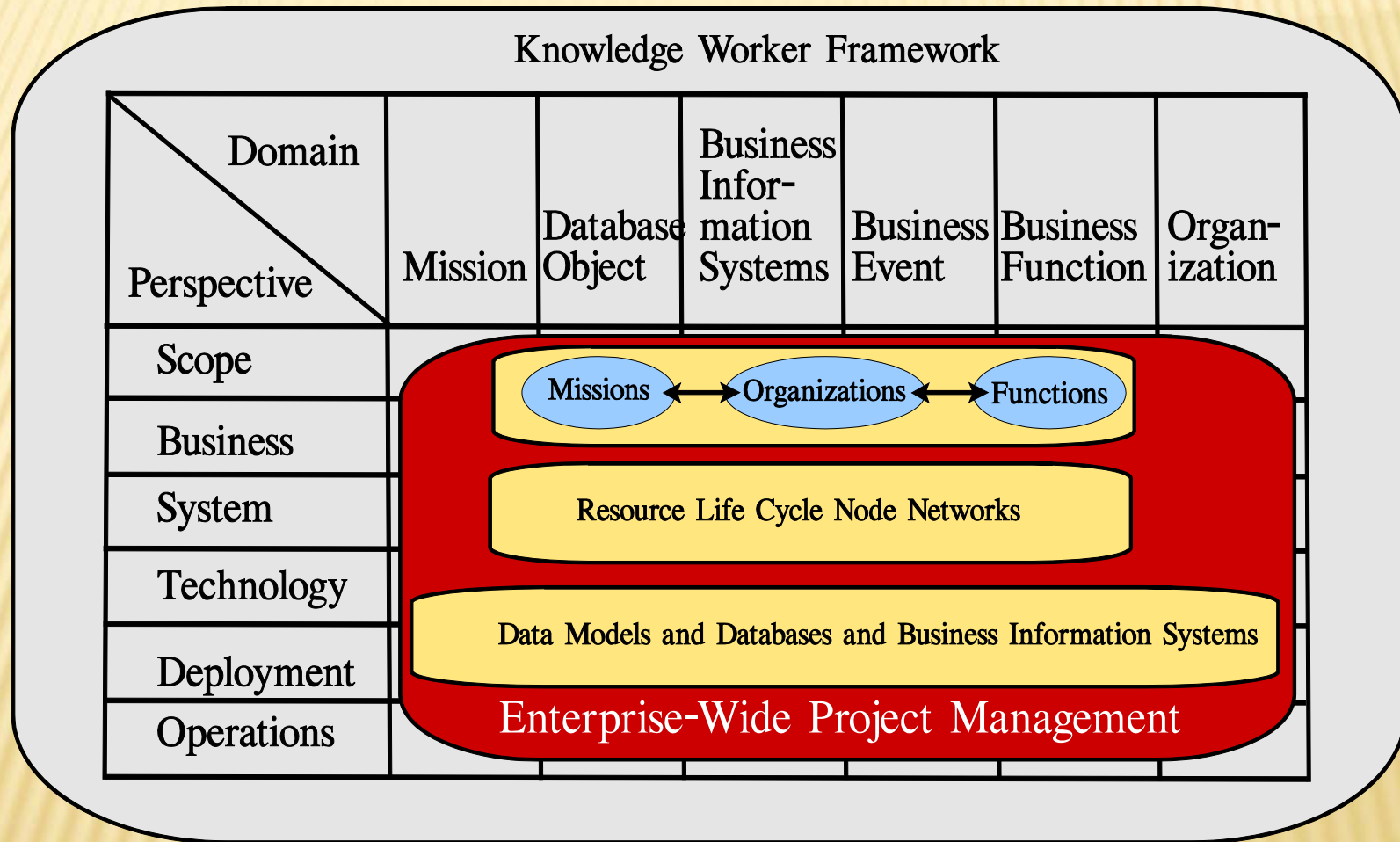
★ Link: http://www.wiscorp.com/roi_enterprisearchitecturedevelopment.html

★ The Issues:

- + Top-down Enterprise Architectures mismatch with existing databases and business information systems.
- + Enterprise Architectures are too generalized to be integrated with existing databases and business information systems.
- + Stove-piped Enterprise Architectures are not integrated, interoperable or maintainable with existing databases and business information systems.



SOLUTION ENGINEERING: ENTERPRISE ARCHITECTURE DEVELOPMENT

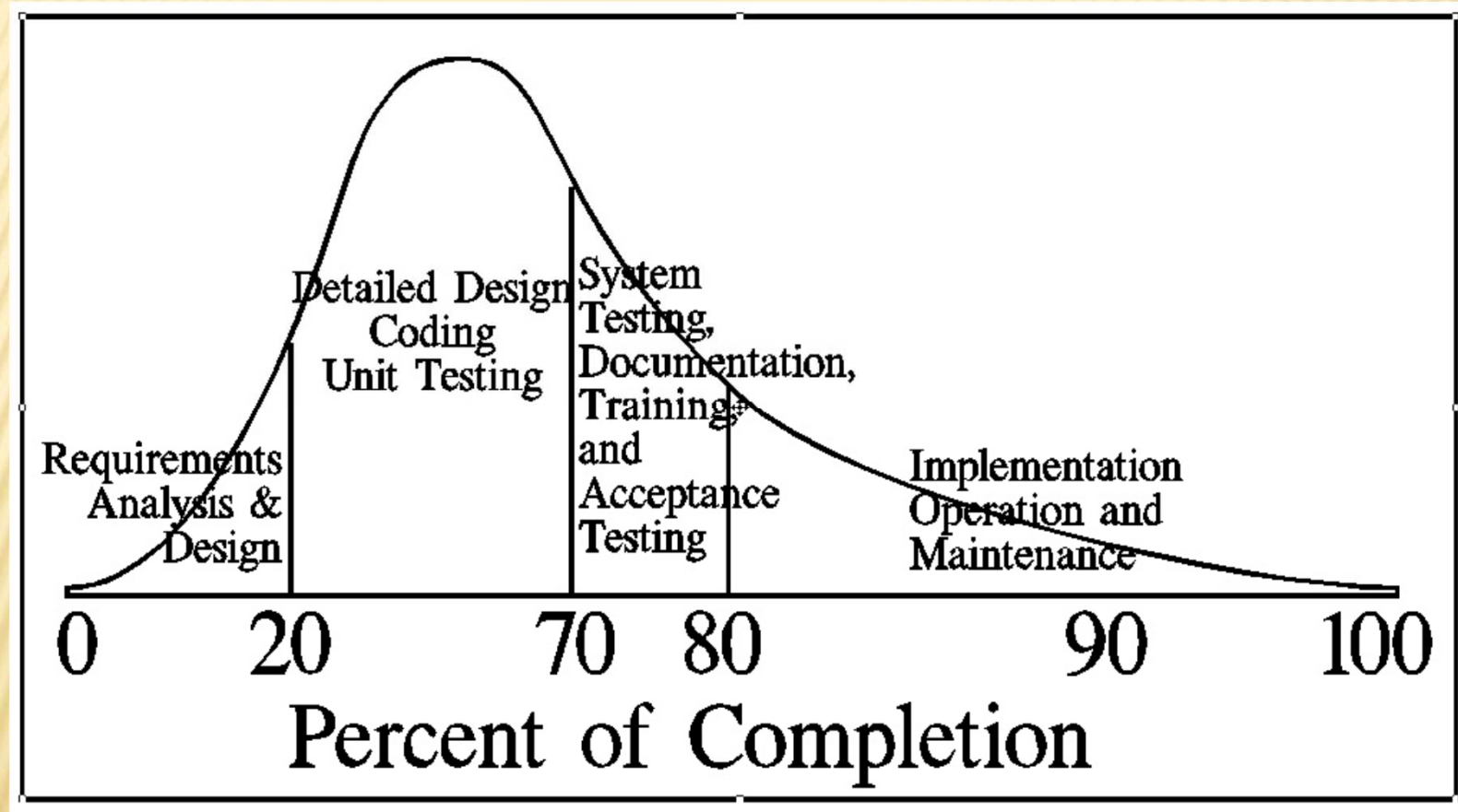


PAYOFF SCENARIO

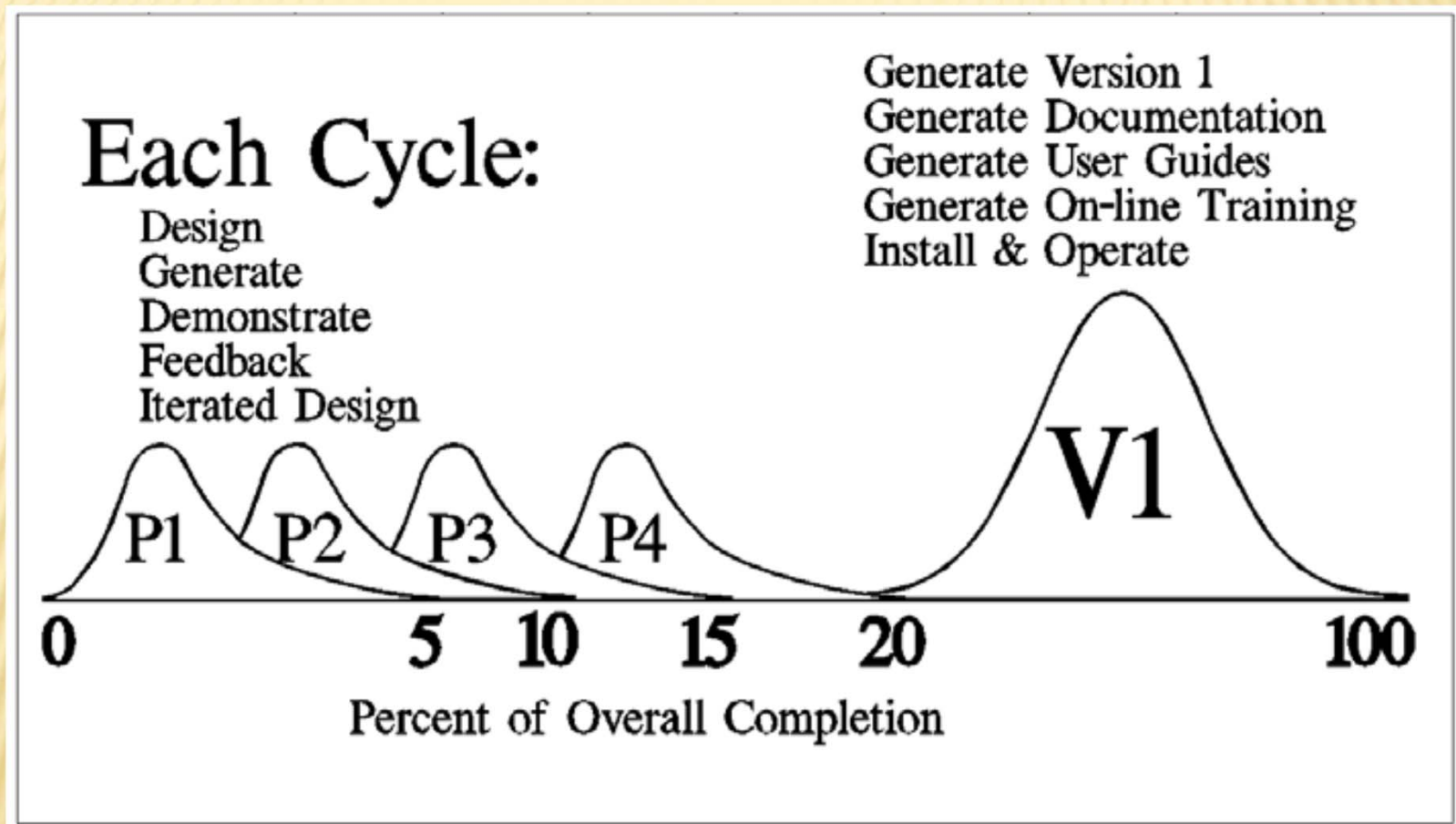
- ★ Waterfall Approach
- ★ Prototyping & Code Generation Approach
 - + Development
 - + Development and Maintenance
- ★ Life Cycle Costs
 - + Waterfall
 - + Prototyping and Code Generation



WATERFALL APPROACH: 70% RESOURCES EXPENDED BEFORE VALIDATION



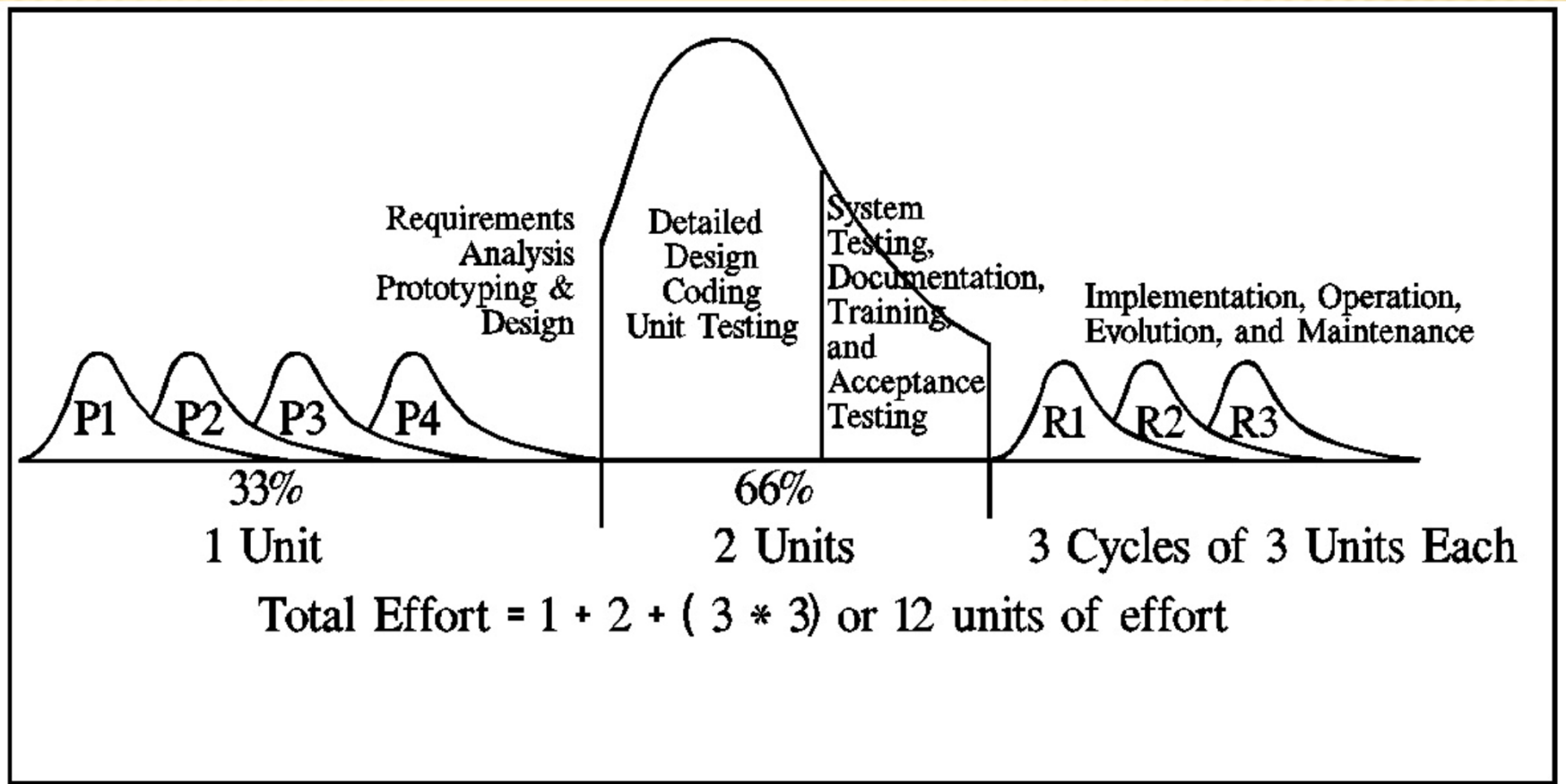
PROTOTYPING & CODE GENERATION APPROACH: DEVELOPMENT



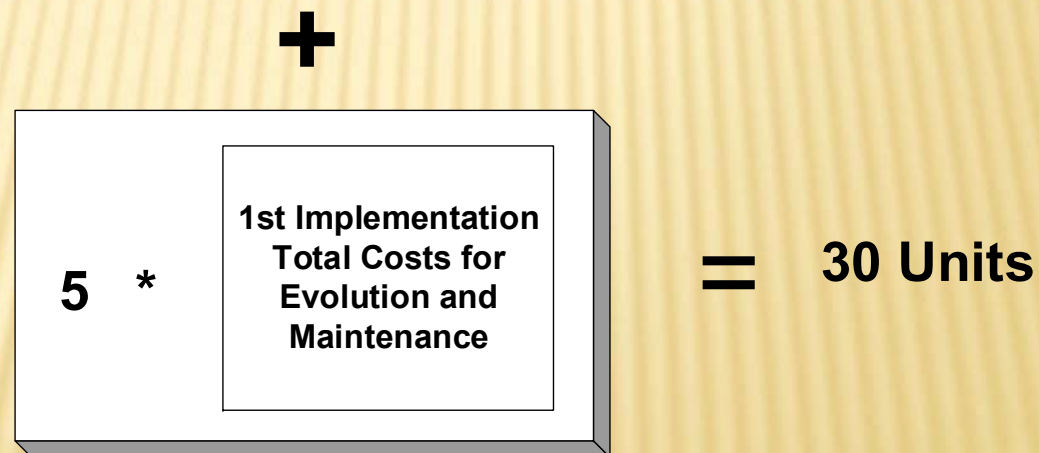
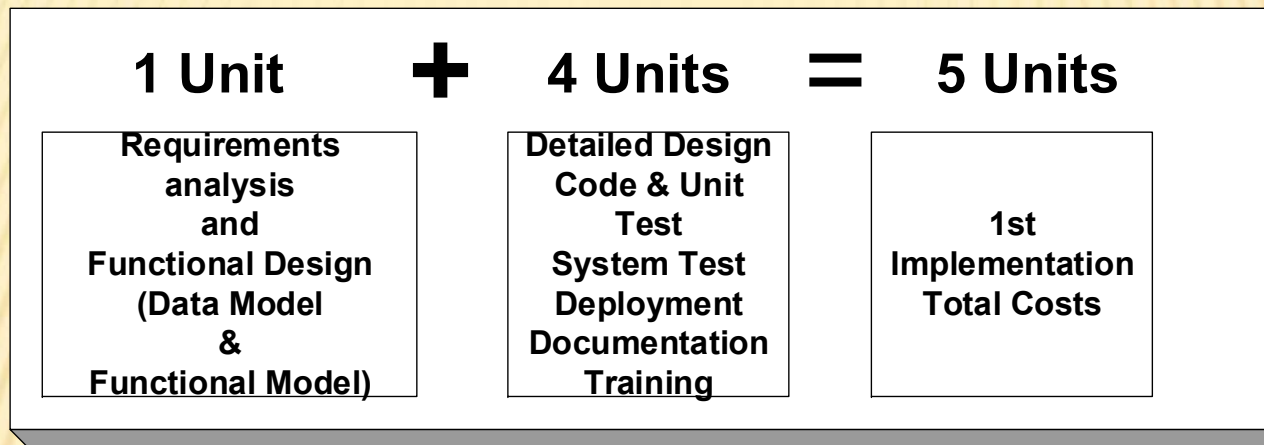
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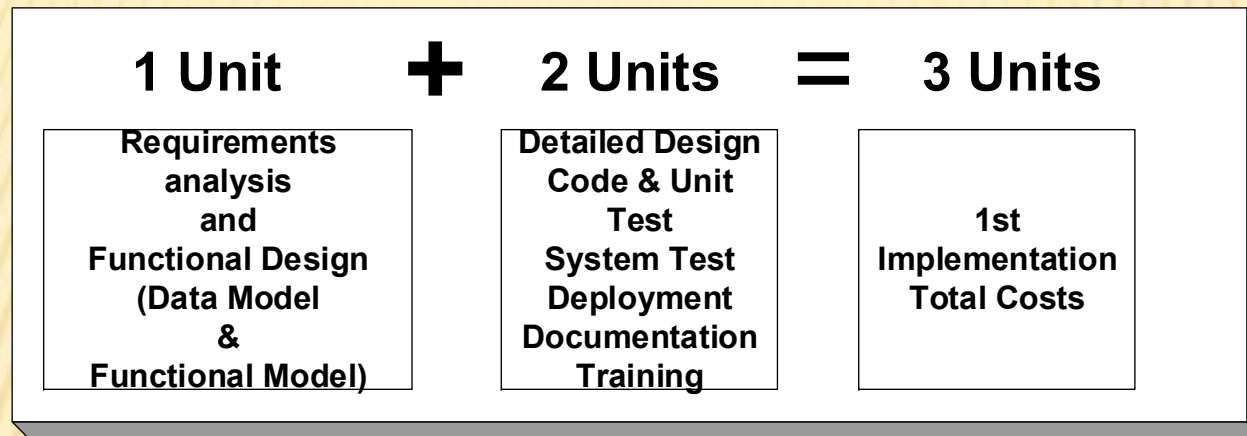
PROTOTYPING & CODE GENERATION: DEVELOPMENT & MAINTENANCE



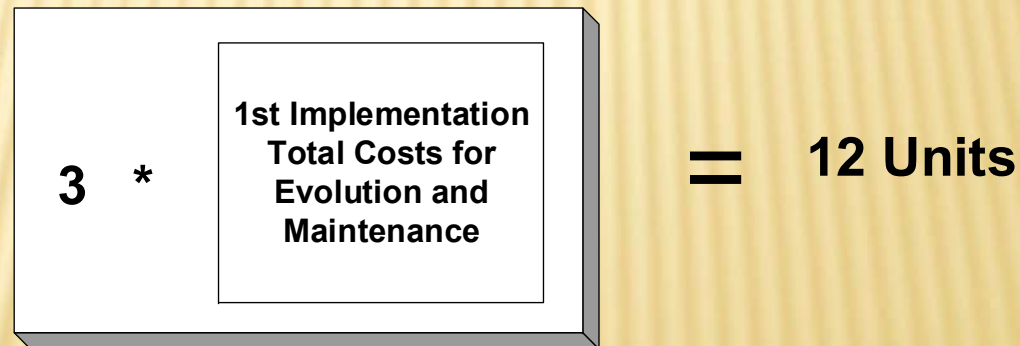
WATERFALL LIFE CYCLE COSTS



PROTOTYPE & CODE GENERATION LIFE CYCLE COSTS



+



ROAD AHEAD

- ★ Evaluate and adopt the Knowledge Worker Framework
- ★ Evaluate and adopt Data-Centered SDLC
- ★ Evaluate and adopt prototyping & code generation to implement version 5 DB & BIS designs versus custom code version 1 DB and BIS design implementations
- ★ Implement Metabase System (Metadata Management)
- ★ Require 100% of Contractor Work Products delivery, update, and management through Metabase System



WHY SHOULD “I” DO THIS?

- ★ Enterprise-Wide Project Management (16:1 ROI)
- ★ Information Systems Planning (5.9: 1 ROI)
- ★ Data-Centered Development and Management (28:1 ROI)
- ★ Data Model Manufacturing (8.6:1 ROI)
- ★ Business Information Systems Environments (7.7:1 ROI)
- ★ Business Information System Manufacturing (2.8:1 ROI)
- ★ Enterprise Architecture Development (14.6:1 ROI)

Simply put, you'll be more productive with
higher quality, lower costs with fewer risks.



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WHITEMARSH INFORMATION SYSTEMS CORPORATION

- ★ Founded in 1981
- ★ Website: www.wiscorp.com
- ★ Key Concentration Area: Data Management, Enterprise Architectures and Business Information Systems
- ★ Delivery Mechanisms
 - + Knowledge-Ware (books and papers)
 - + Software
 - + Consulting, Seminars and Workshops



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WHITEMARSH CLIENTS ([HTTP://WWW.WISCORP.COM/PAST_CLIENTS_PROJECT_DESCRIPTIONS.HTML](http://www.wiscorp.com/past_clients_project_descriptions.html))

- ✕ Bank of America, California
- ✕ Delaware Public Safety Database
- ✕ DOD Strategic Defense Initiative Office
- ✕ DuPont Corporation
- ✕ Federal Government of Canada
- ✕ Freddie Mac
- ✕ Grumman Data Corporation and BDM International
- ✕ Hershey Chocolate Company
- ✕ Mars Corporation
- ✕ International Committee for Information Technology Standards (INCITS)
- ✕ Ohio State Supreme Court
- ✕ Prince George's County Board of Education
- ✕ State of California
- ✕ The MITRE Corporation
- ✕ U.S. Army
- ✕ U.S. Navy
- ✕ U.S. Department of Commerce
- ✕ U.S. Department of Homeland Security
- ✕ U.S. Department of Veterans Affairs
- ✕ U.S. HHS: Social Security Administration
- ✕ U.S. Office of Trademarks
- ✕ U.S. Office of Personnel Management
- ✕ U.S. DoD, Defense Logistics Agency
- ✕ U.S. DoD Office of Assistant Inspector General for Audits



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Data Management Independent Verification and Validation	http://wiscorp.com/sp/sp24.pdf
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Managing the Meaning of Data	http://wiscorp.com/sp/sp01.pdf
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