

System-Wide Design Standards

Table of Figures

	<i>Page</i>
Figure 2-1 Framework Elements Overview	2-7
Figure 2-2 Framework Elements and Key Deliverables	2-17
Figure 2-3 Framework Processes Overview - Annual Budget Cycle	2-19
Figure 2-4 Framework Processes Overview - Emergency or Mandate Scenario	2-24
Figure 2-5 Framework Processes	2-28
Figure 2-6 Standard Tools for Information Approach	2-33
Figure 2-7 Standard Tools for Object-Oriented Approach	2-35
Figure 2-8 Standard Tools for Commercial Off-the-Shelf Approach	2-36
Figure 2-9 Standard Tools for Outsourcing Approach	2-38
Figure 2-10 Standard Tools for Component-Based Development Approach	2-39
Figure 3-1 SFA Security Road Map	3-10
Figure 3-2 School Account Creation	3-11
Figure 3-3 School Transaction	3-12
Figure 3-4 New Student Account and Transaction	3-13
Figure 4-1 Direct Loan Disbursement	4-10
Figure 4-2 Replication	4-11
Figure 5-1 Interface Strategy and Standards	5-1
Figure 5-2 Transmission Media and Standards	5-3
Figure 5-3 SGML, XML, and HTML	5-11
Figure 5-4 XML/EDI, The fusion of technologies	5-13
Figure 5-5 VoXML	5-17
Figure 5-6 Interface Strategy Overview	5-19
Figure 5-7 Synchronization Techniques	5-21

Figure 5-8 Synchronization Recommendations	5-27
Figure 6-1 The Gartner Group Model of Application Partitioning.....	6-3
Figure 6-2 SGML, XML and HTML	6-7
Figure 6-3 The Gartner Group Model of Application Partitioning.....	6-11
Figure 6-4 Example of IVR Application Architecture.....	6-16
Figure 6-5 The Gartner Group Fax Server Component Architecture	6-19
Figure 6-6 EASI/ED Standard Screen Layout.....	6-31
Figure 6-7 Example of a Primary Window	6-40
Figure 6-8 Example of a Secondary Window	6-41
Figure 6-9 Project EASI/ED User Interface Model.....	6-48

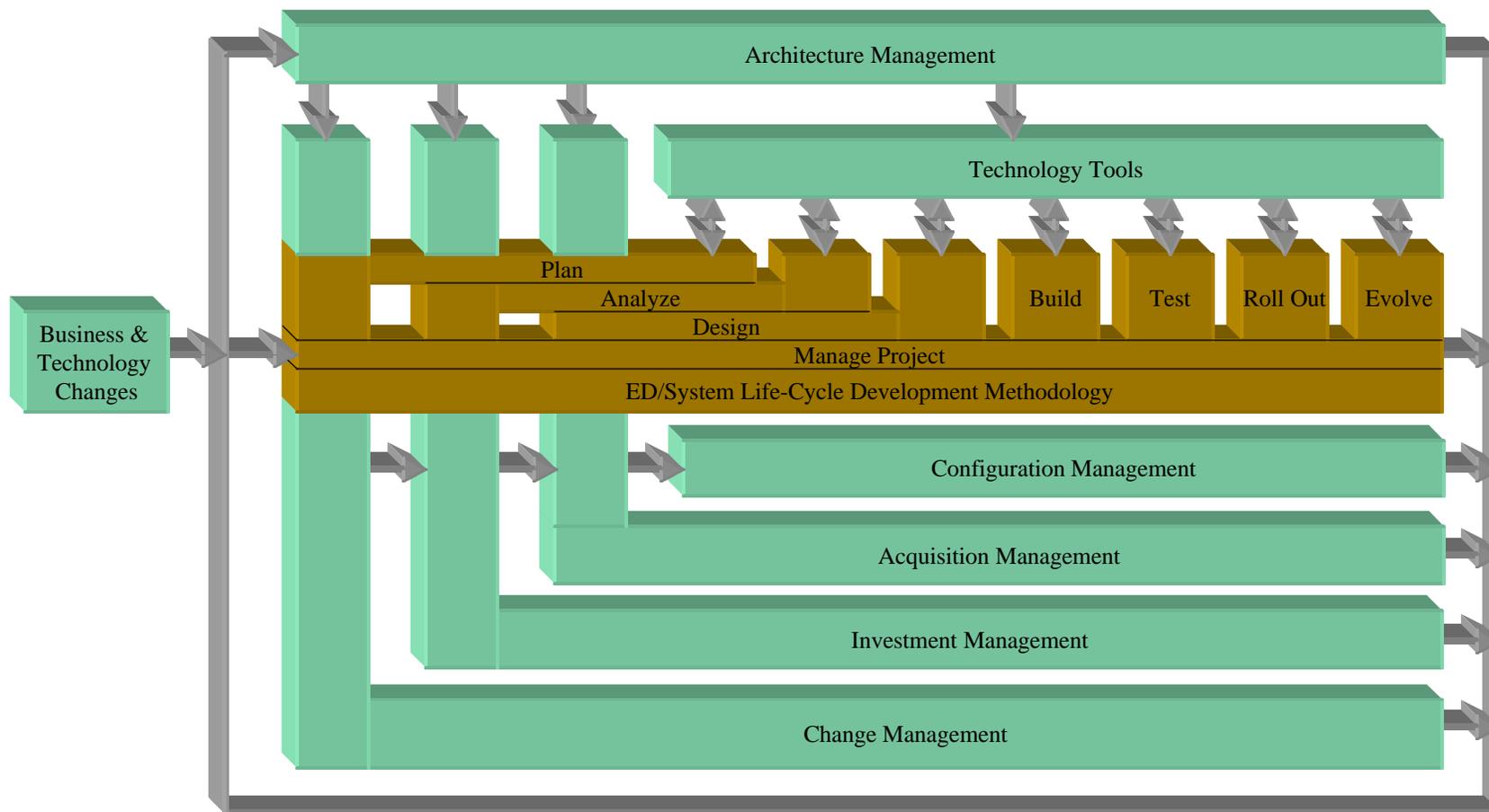


Figure 1: Framework Elements Overview

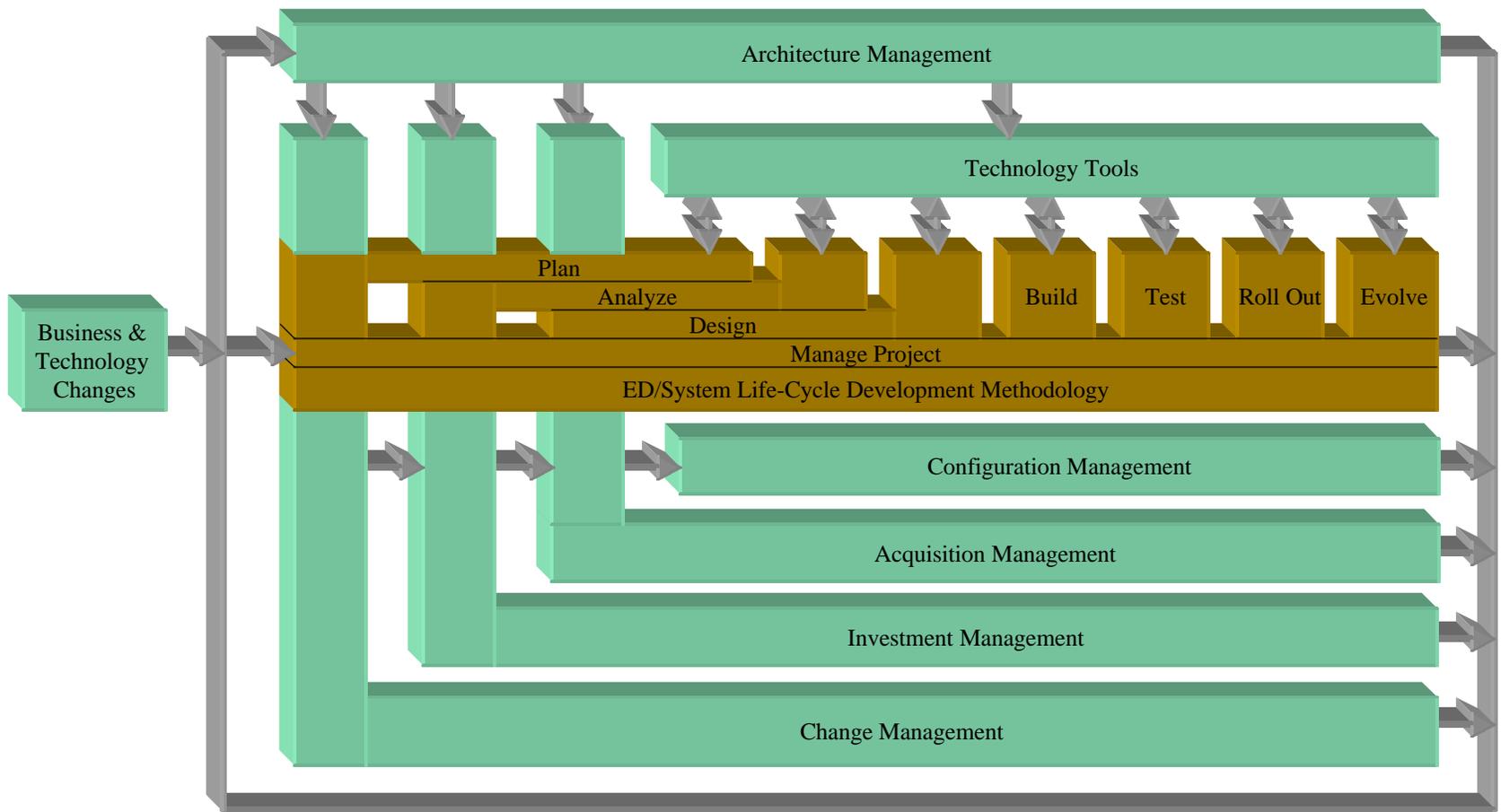


Figure 2-1: Framework Elements Overview

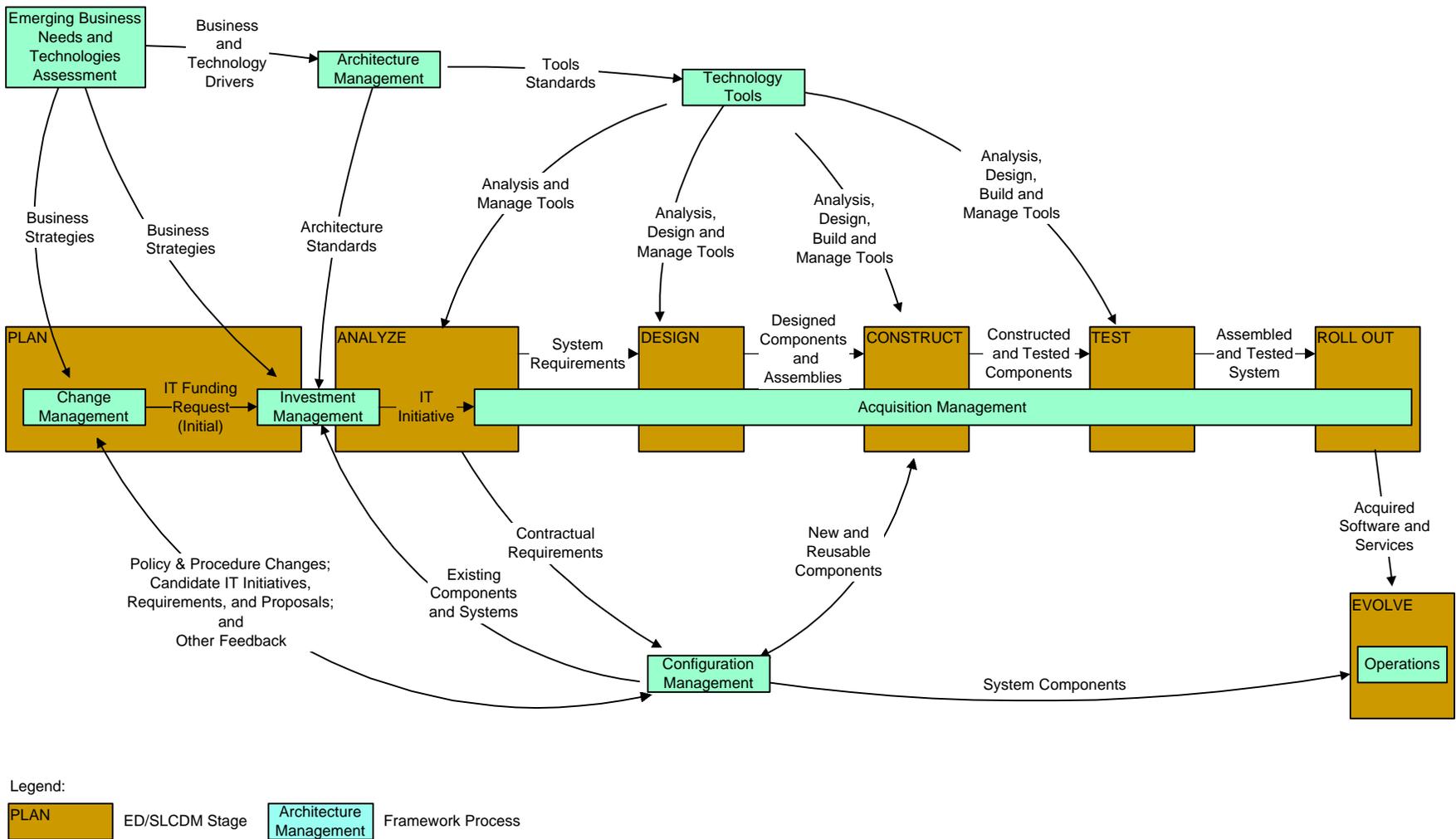


Figure 2-2: Framework Elements and Key Deliverables

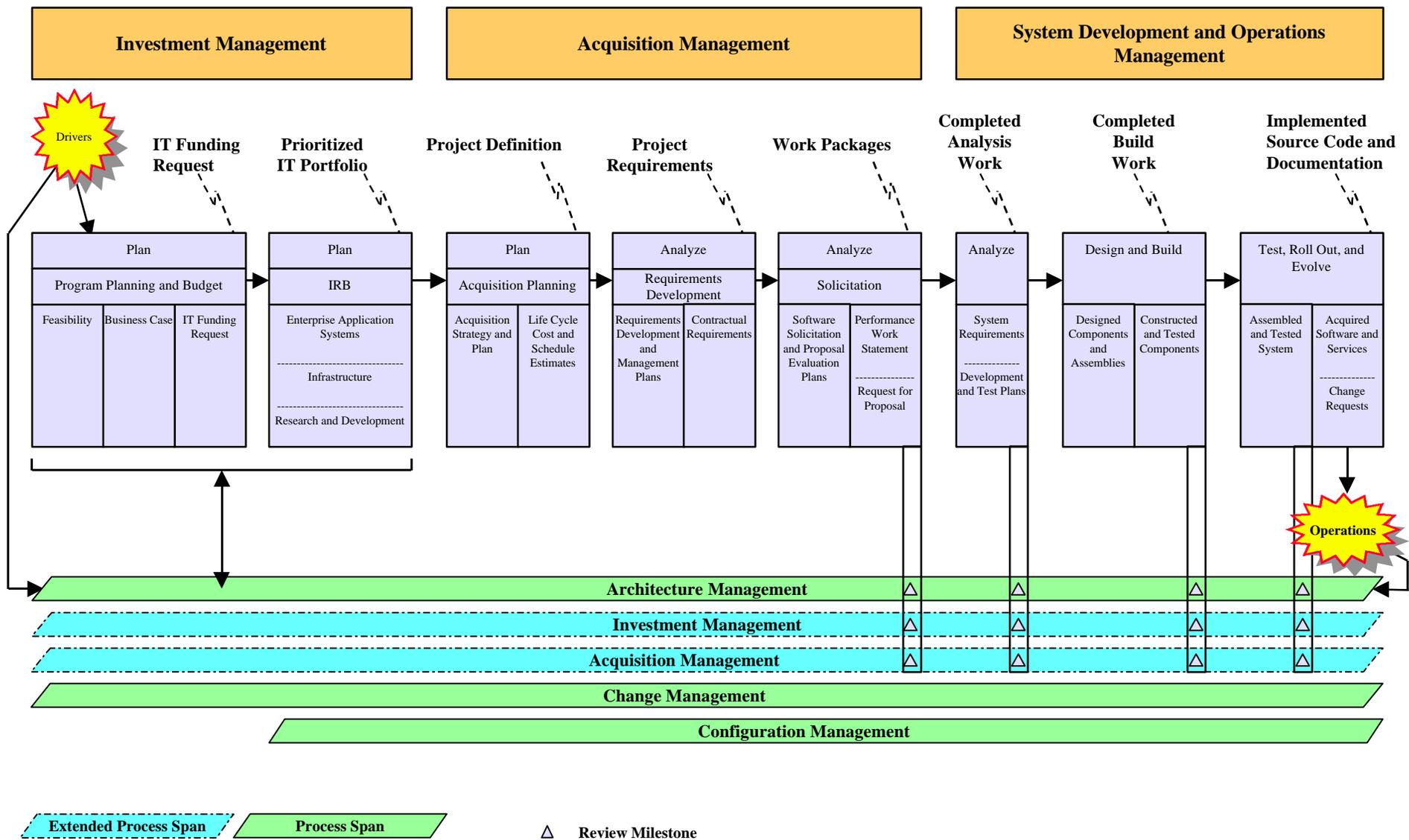


Figure 2 - 3: Framework Processes Overview - Annual Budget Cycle

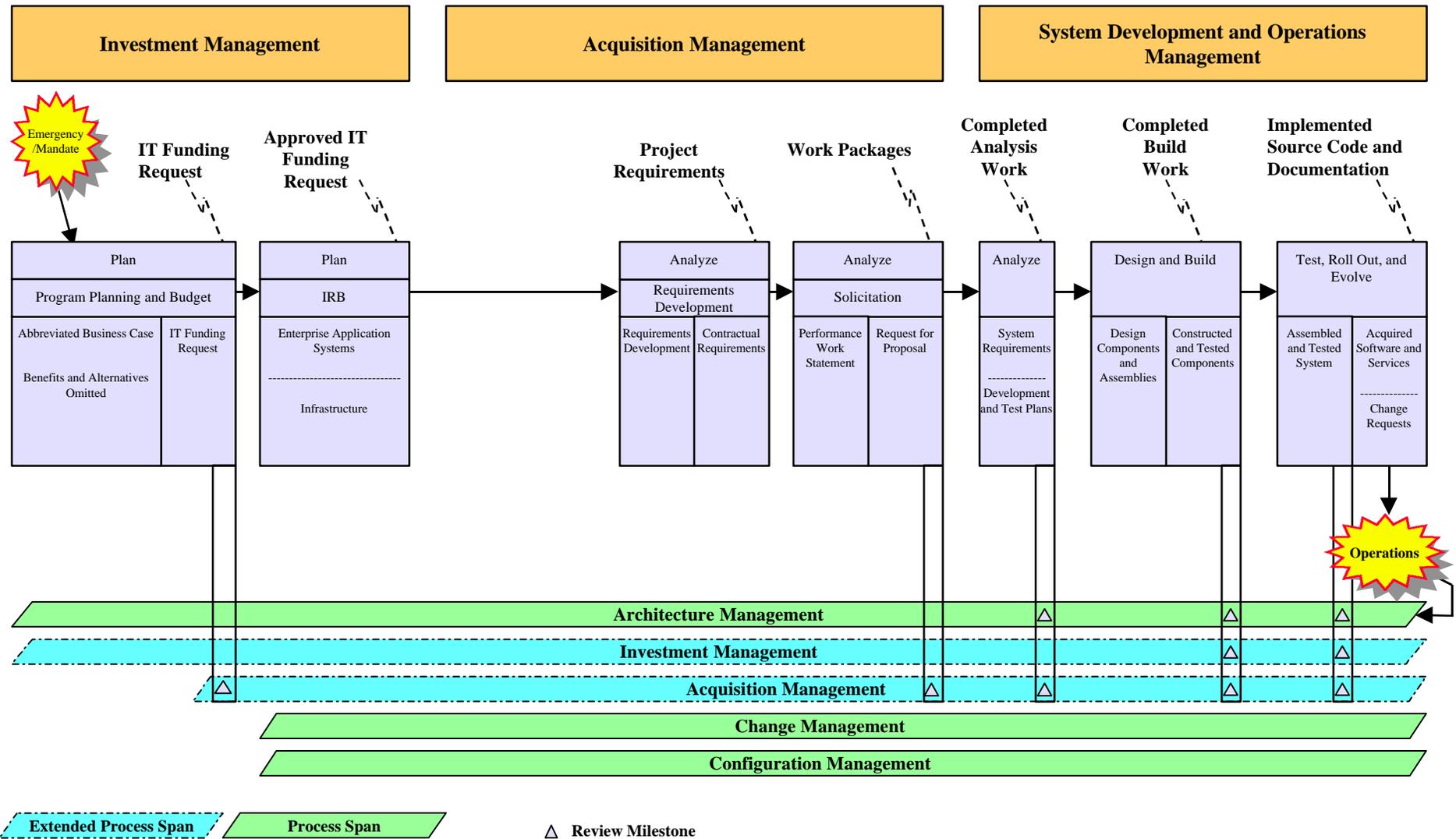


Figure 2-4: Framework Processes Overview - Emergency or Mandate Scenario

ED/SLCDM

Analyze Stage

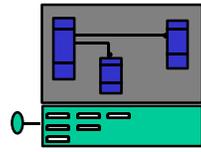
- Application Conceptual Plan

Design Stage

- Application Flow
- Database Design
- Program Specification
- User Interface Diagram

Build Stage

- Technical Solution

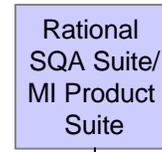


COOL:Gen

ED/SLCDM

Test Stage

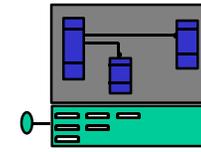
- Integrated System
- Product Test Results



ED/SLCDM

Plan Stage

- Business Case
- Analyze Stage**
- Functional Requirements
- Application Conceptual Plan



COOL:Biz

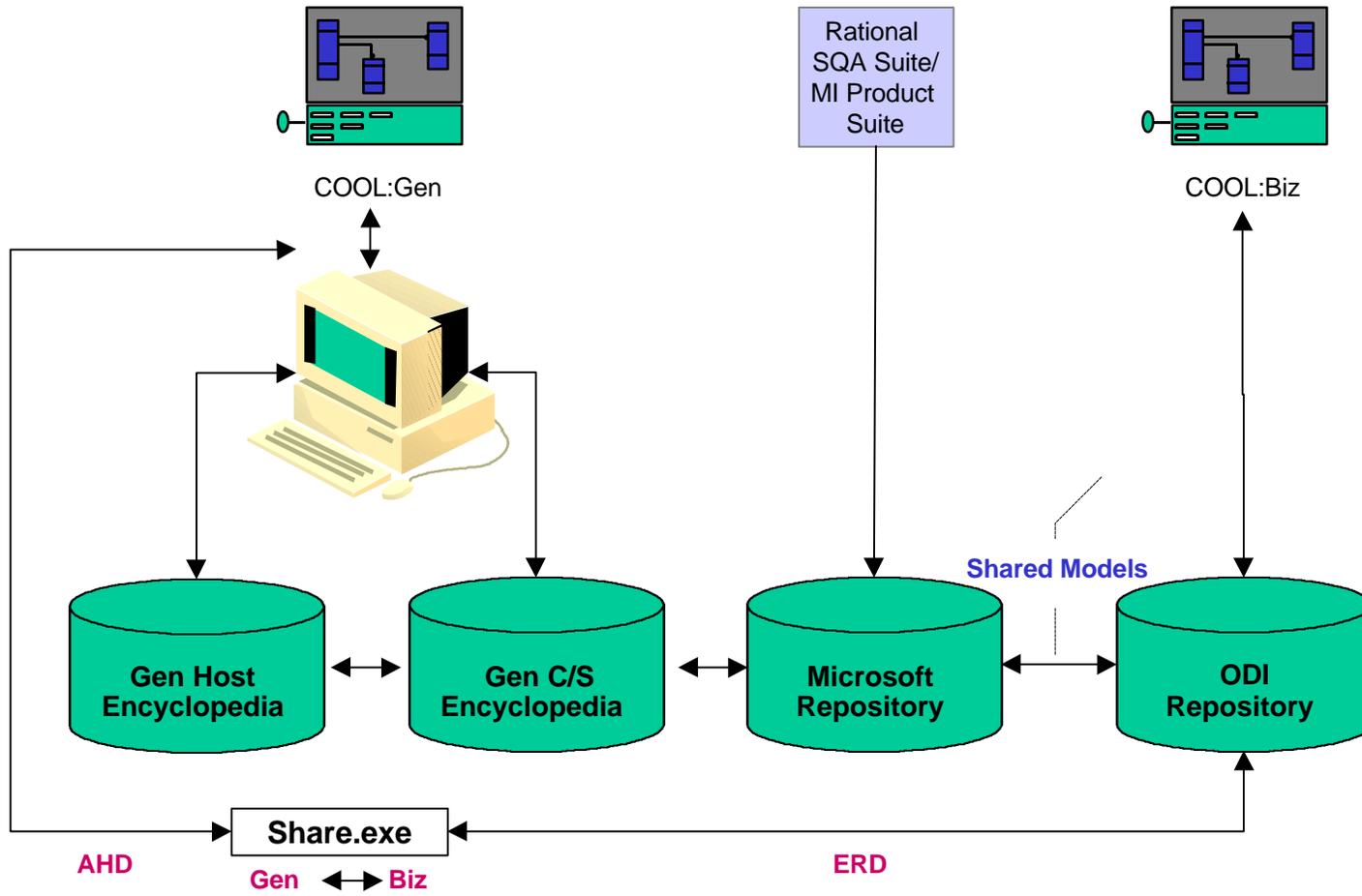


Figure 2-6: Standard Tools for Information Engineering Approach

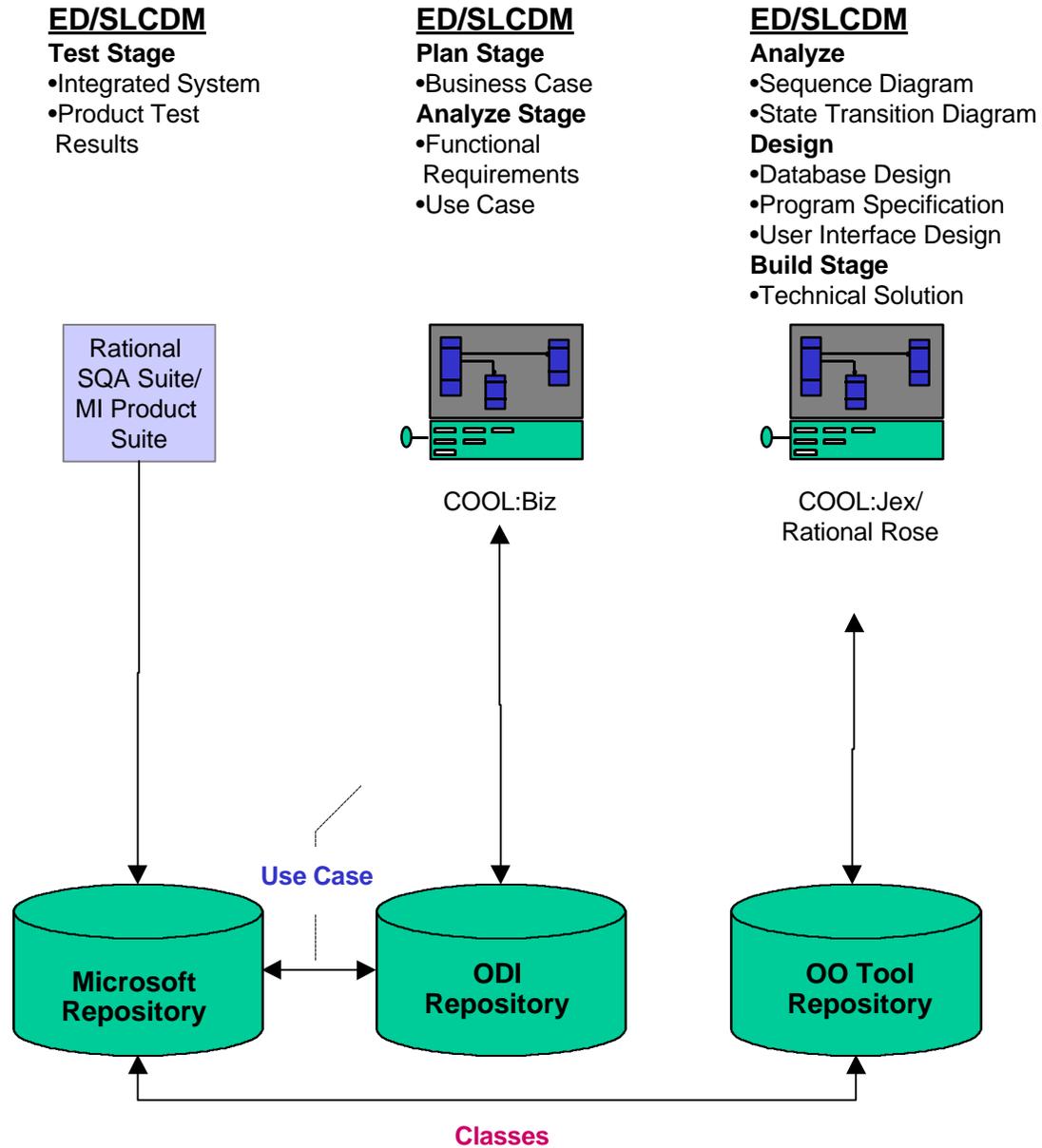


Figure 2-7: Standard Tools for Object-Oriented Approach

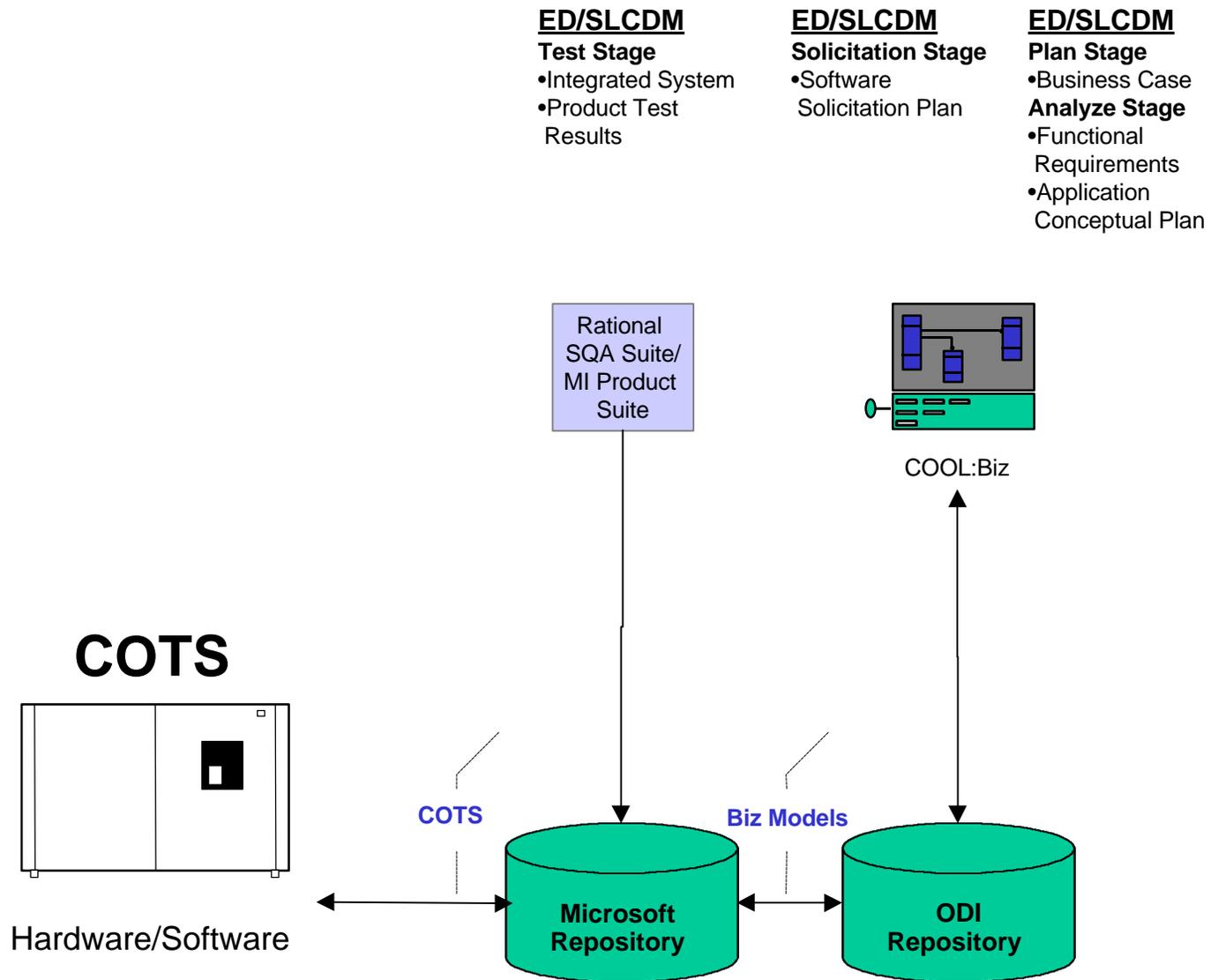


Figure 2-8: Standard Tools for Commercial Off-the-Shelf Approach

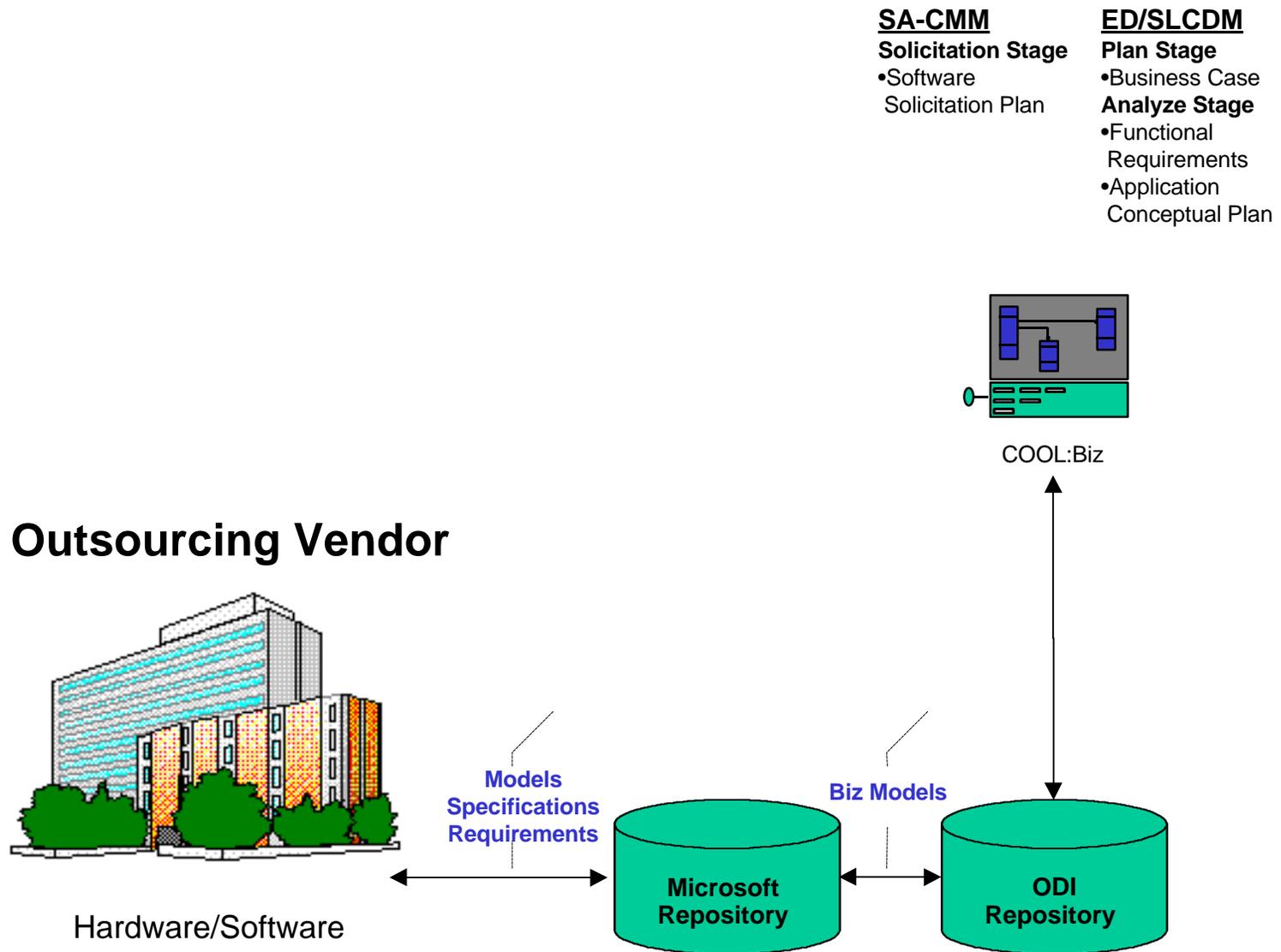


Figure 2-9: Standard Tools for Outsourcing Approach

ED/SLCDM

Analyze Stage

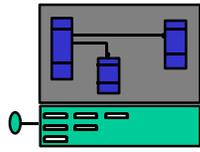
- Domain Model

Design Stage

- Component Models
- Specification Diagrams
- Interface Diagrams

Build Stage

- Software Components
- Assembly Test Results

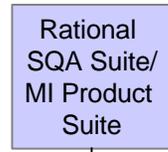


COOL:Gen

ED/SLCDM

Test Stage

- Integrated System
- Product Test Results

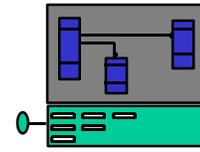


Rational SQA Suite/ MI Product Suite

ED/SLCDM

Plan Stage

- Business Case
- Analyze Stage**
- Functional Requirements

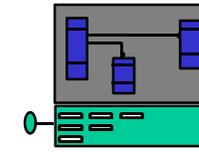


COOL:Biz

ED/SLCDM

Analyze Stage

- Domain Model
- Design Stage**
- Component Models
- Specification Diagrams
- Interface Diagrams

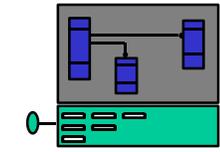


COOL:Spex/
Rational Rose/
Paradigm Plus

ED/SLCDM

Build Stage

- Software Components
- Assembly Test Results
- Test Stage**
- Integrated Systems
- Product Test Results



Visual Age/
Symantic Café/
Visual Studio

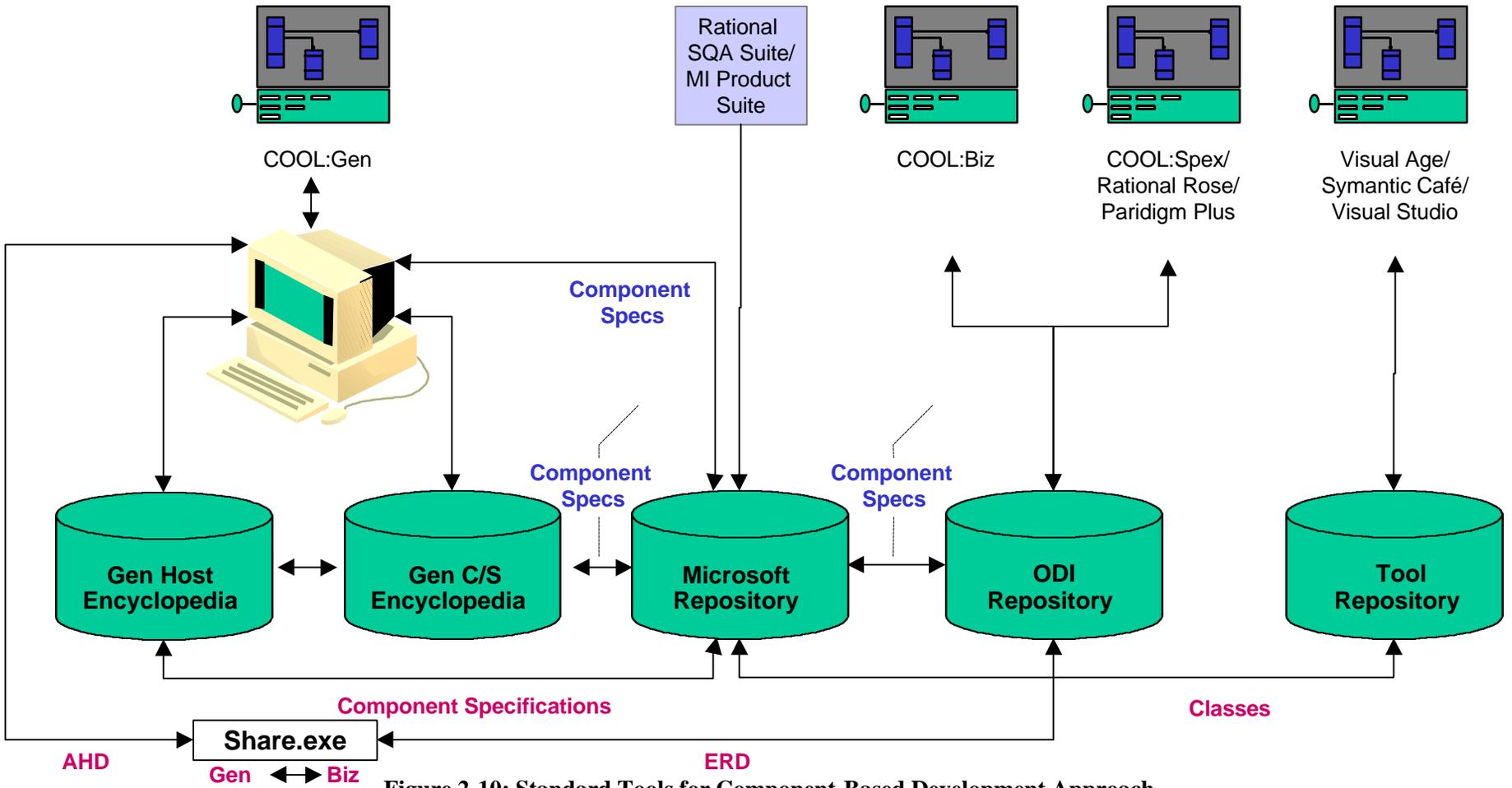


Figure 2-10: Standard Tools for Component-Based Development Approach