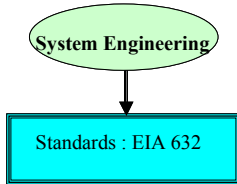
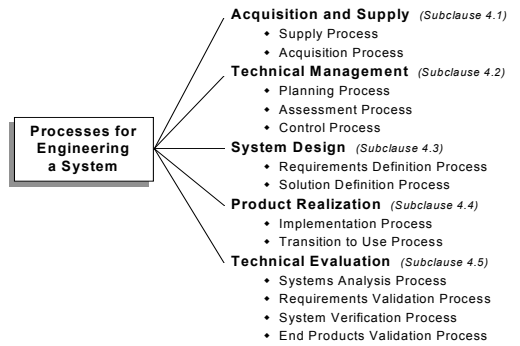


# Systems Engineering Standards

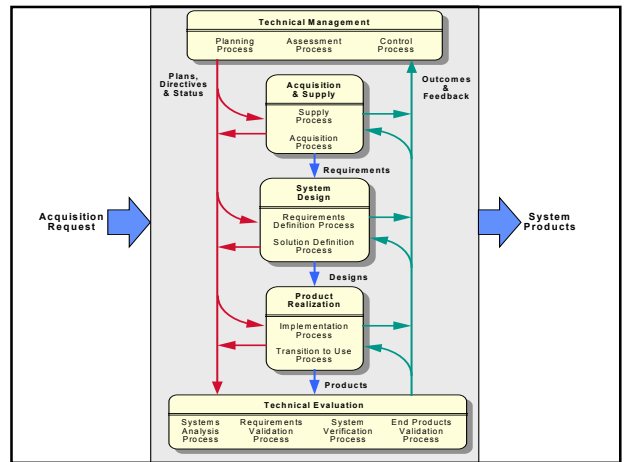
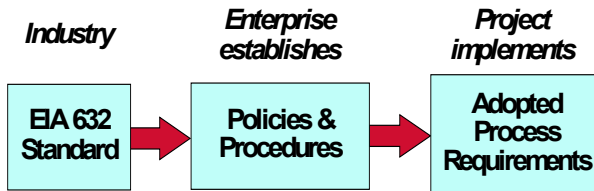
## Example : EIA 632



# EIA – 632 standards



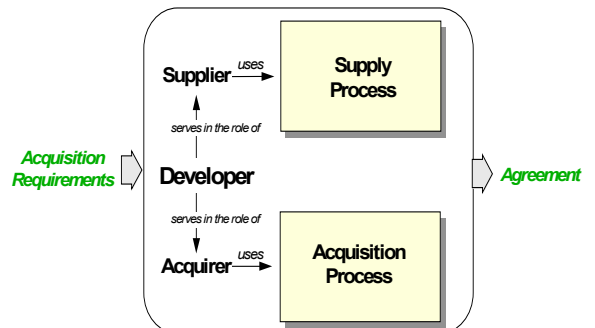
# Context



# 33 requirements for a standard

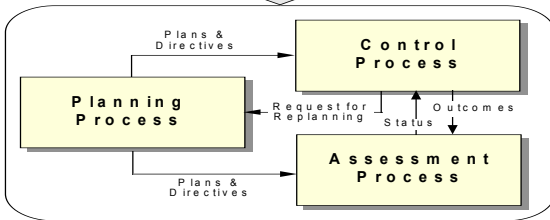
<b>SUPPLY PROCESS REQUIREMENTS</b> 1—Product Supply	<b>REQUIREMENTS DEFINITION PROCESS REQUIREMENTS</b> 14—Acquirer Requirements 15—Other Stakeholder Requirements 16—System Technical Requirements	<b>SYSTEMS ANALYSIS PROCESS REQUIREMENTS</b> 22—Effectiveness Analysis 23—Tradeoff Analysis 24—Risk Analysis
<b>ACQUISITION PROCESS REQUIREMENTS</b> 2—Product Acquisition 3—Supplier Performance	<b>SOLUTION DEFINITION PROCESS REQUIREMENTS</b> 17—Logical Solution Representations 18—Physical Solution Representations 19—Specified Requirements	<b>REQUIREMENTS VALIDATION PROCESS REQUIREMENTS</b> 25—Requirement Statements Validation 26—Acquirer Requirements Validation 27—Other Stakeholder Requirements Validation 28—System Technical Requirements Validation 29—Logical Solution Representations Validation
<b>PLANNING PROCESS REQUIREMENTS</b> 4—Process Implementation Strategy 5—Technical Effort Definition 6—Schedule and Organization 7—Technical Plans 8—Work Directives	<b>IMPLEMENTATION PROCESS REQUIREMENTS</b> 20—Implementation	<b>SYSTEM VERIFICATION PROCESS REQUIREMENTS</b> 30—Design Solution Verification 31—End Product Verification 32—Enabling Product Readiness
<b>ASSESSMENT PROCESS REQUIREMENTS</b> 9—Progress Against Plans and Schedules 10—Progress Against Requirements 11—Technical Reviews	<b>TRANSITION TO USE PROCESS REQUIREMENTS</b> 21—Transition to Use	<b>END PRODUCTS VALIDATION PROCESS REQUIREMENTS</b> 33—End Products Validation
<b>CONTROL PROCESS REQUIREMENTS</b> 12—Outcomes Management 13—Information Dissemination		

# Supplier-Acquirer



# Project Processes

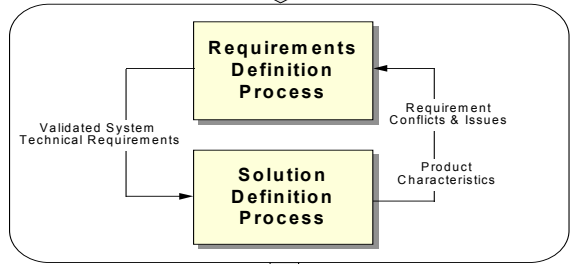
Acquisition Documents, Agreement, Outcomes, and Feedback



Plans, Directives, Status

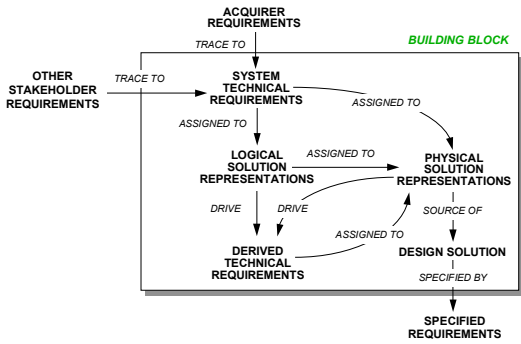
# Requirements-Design

Acquirer and Other Stakeholder Requirements



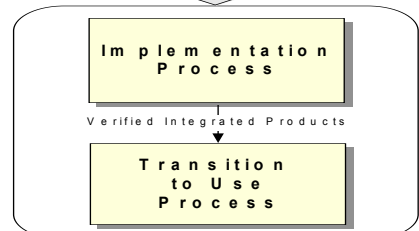
Specifications, Drawings, Models

# The refinement



# Assessment

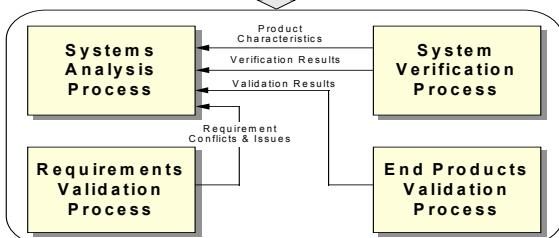
Specified Requirements  
Supplier- or Acquirer-Provided Products



Agreement Satisfaction  
Other Stakeholder Satisfaction

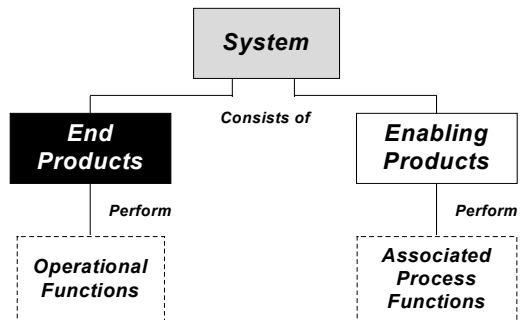
# V & V

Analysis Requests, Requirements, Implemented Products

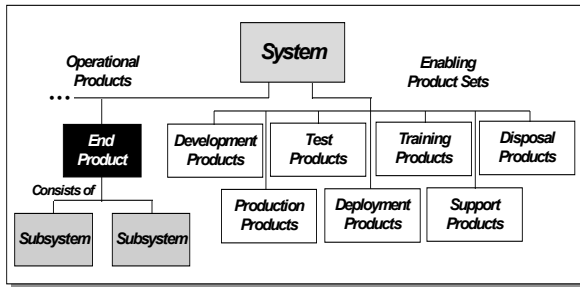


Analytical Models & Assessments, Validated Requirements, Verified System Products, Validated End Products

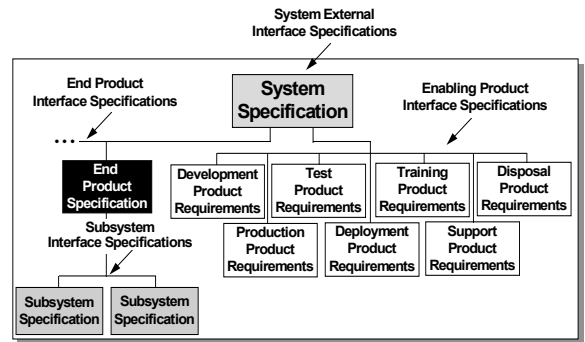
# Products



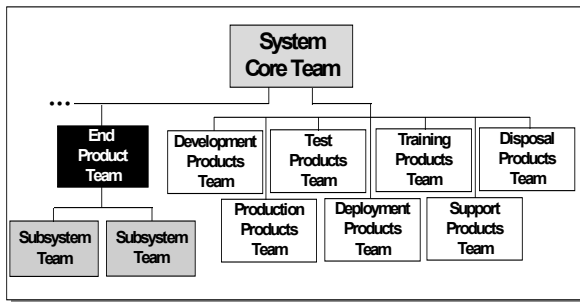
# End product is **not** the only issue



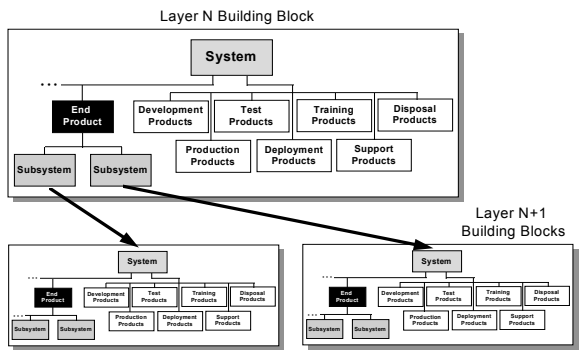
# Specification Decomposition



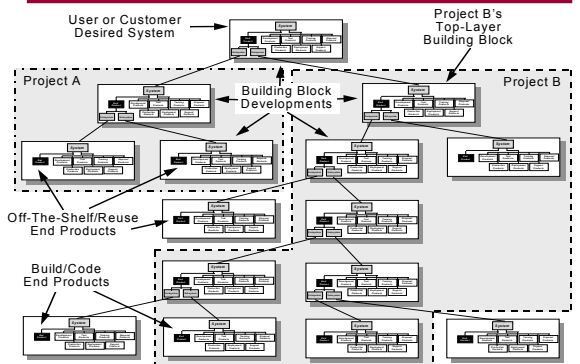
# Resources : TeamWork



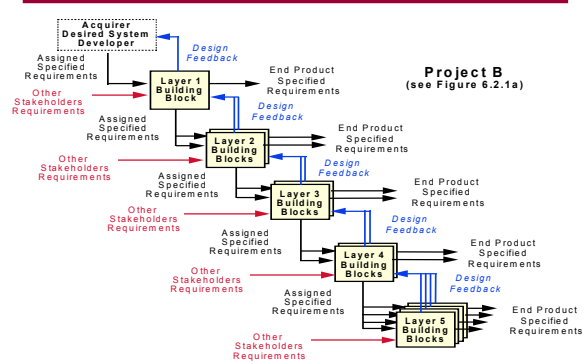
# System layering



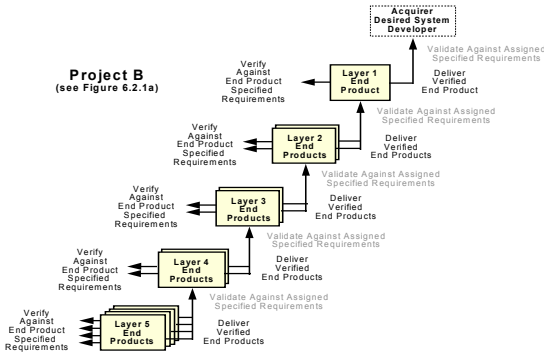
# System Layering



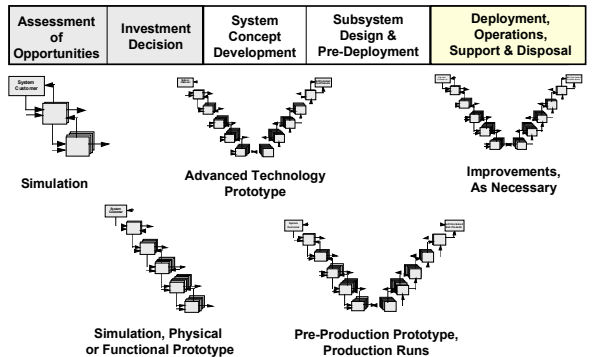
# Stakeholders at all levels



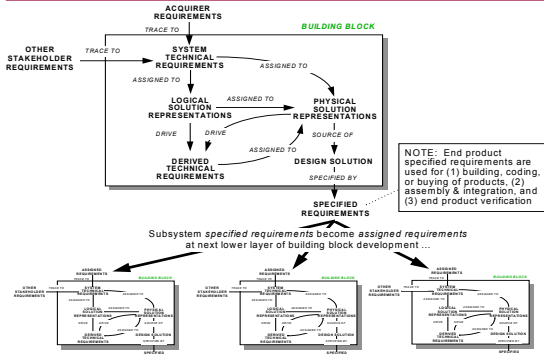
# V & V layering



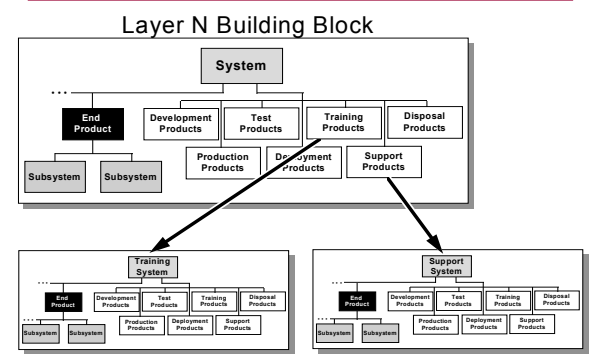
# Lifecycle – development and deployment



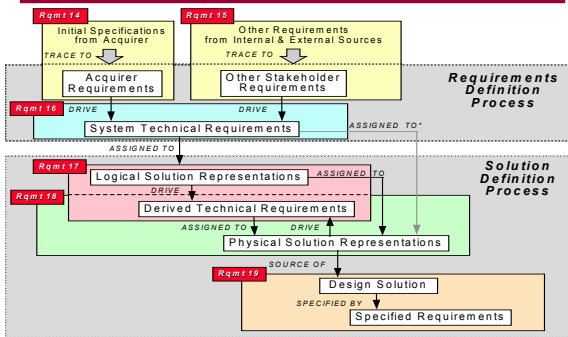
# Refinement process



# Decomposition



# Standard requirement processes



# Next lecture : RE Management

