



Using the C4ISR Architectural Framework as a Tool for Assigning Management and Technical Responsibilities

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Outline



- Problem
- Premise
- Approach
- Conclusion



Problem



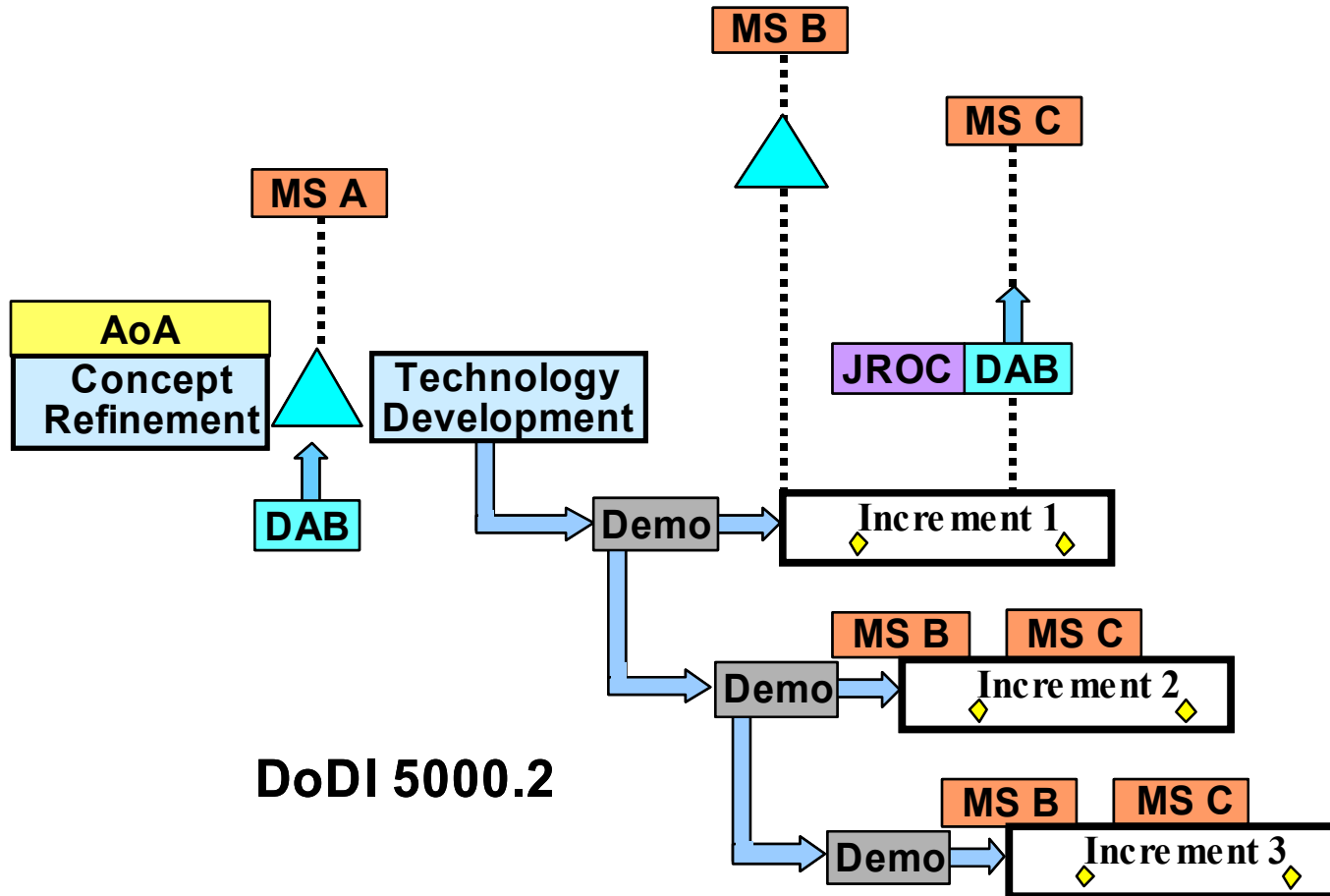
- How best to implement an evolutionary acquisition system across multiple programs in a system of systems architecture that supports capabilities based operational concepts.
- This paper provides a way of looking at the acquisition of a product from a systems approach.



- System Attributes
 - Evolutionary Approach (Long Term)
 - Shorter Term Incremental Builds
 - Tied to Effects Based Operational Concepts
 - Systems of Systems (Joint & Interdependent)
- Management Attributes
 - Program Based
 - Rooted in Linear Approach
 - Portfolio Management Not Implemented Well

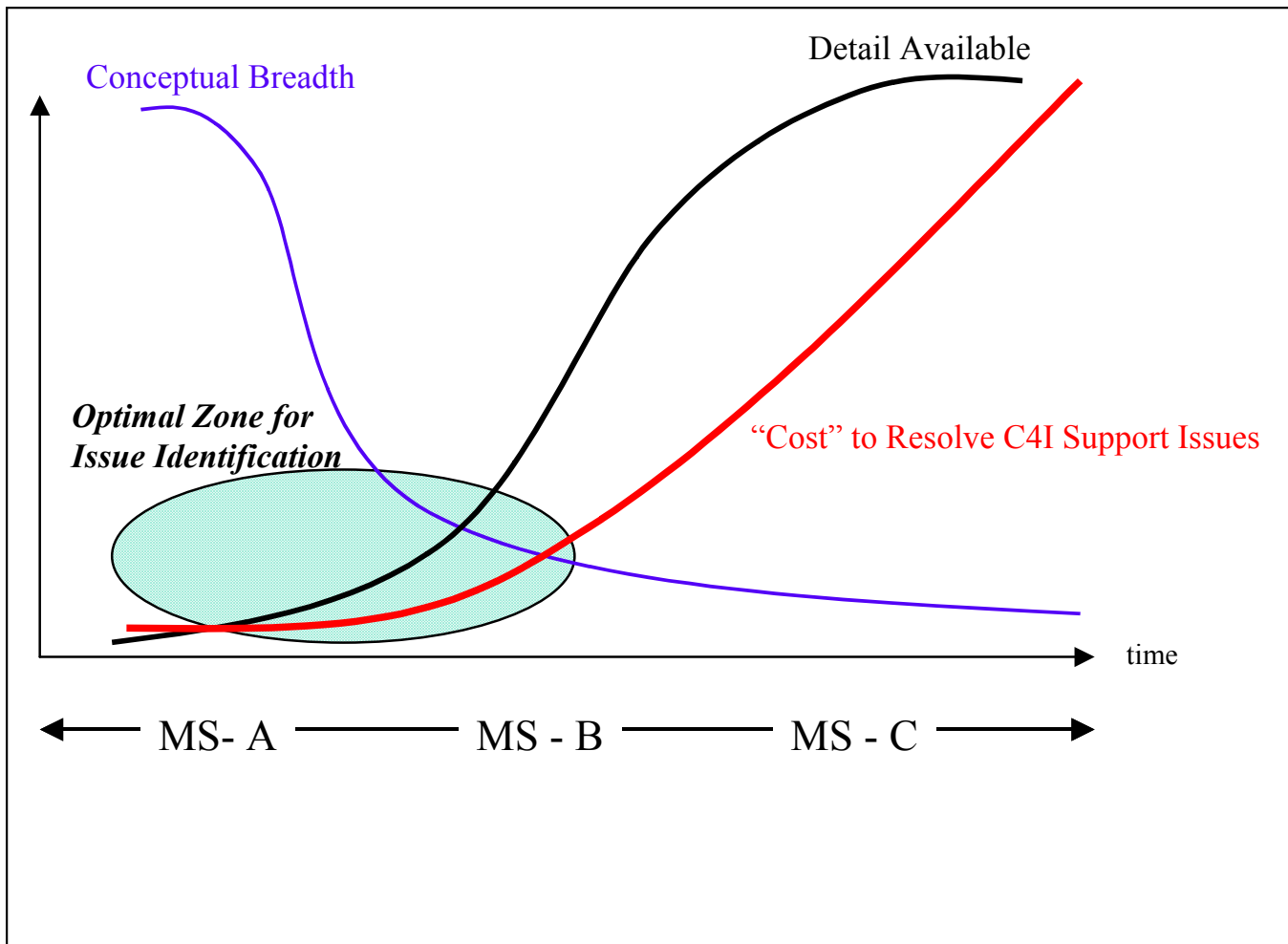


Evolutionary Acquisition Process



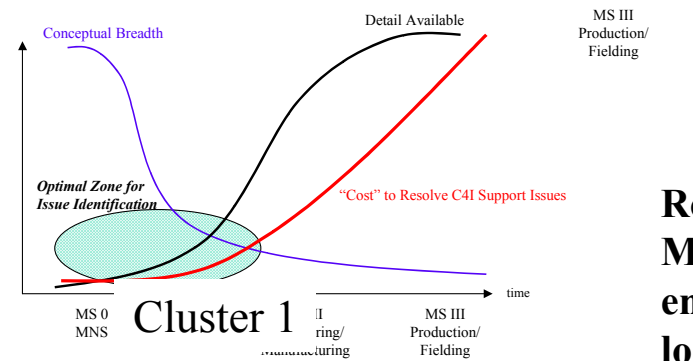
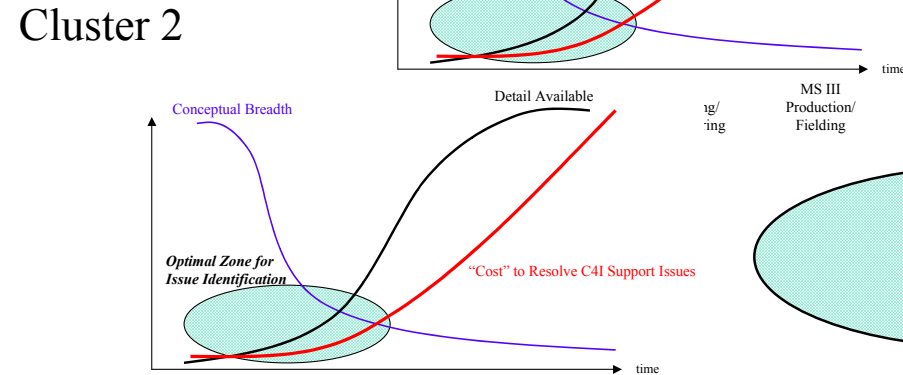
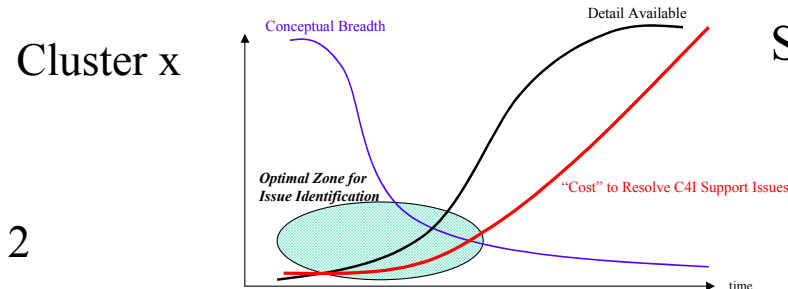


Traditional Acquisition Curve

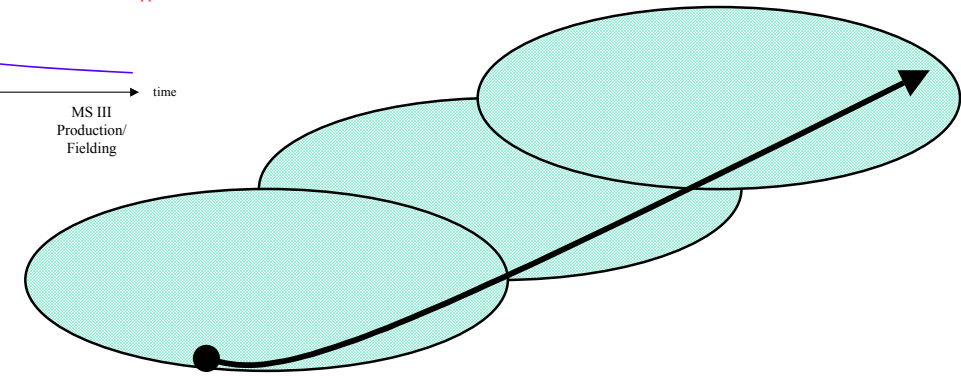




Evolutionary Acquisition Curves



Shape the JTRS Program
 Manage the Program
 Support JV 2020



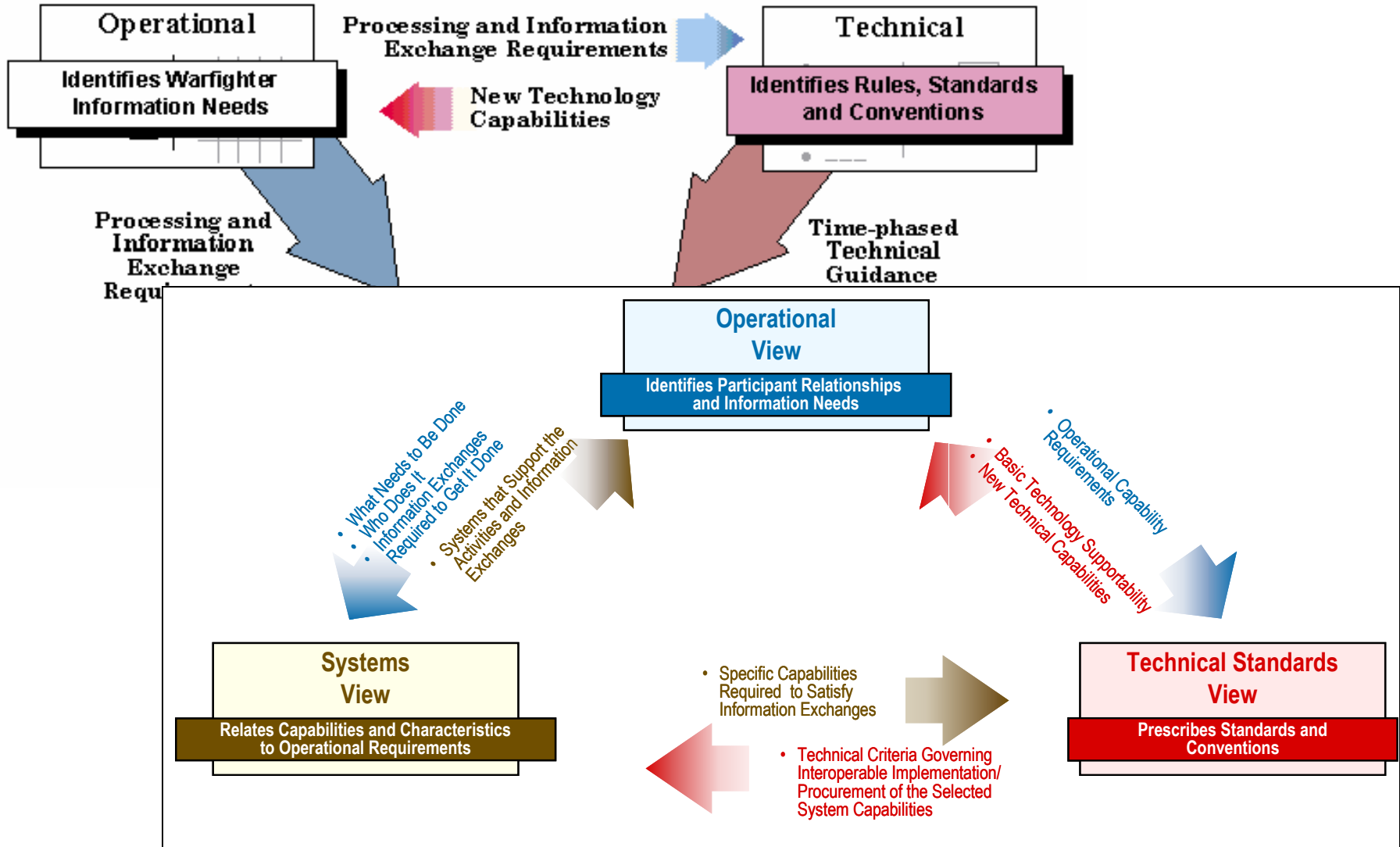
*Cross Cluster Optimal Zones for-
 Issue Identification
 Technology Insertion
 System Enhancements*

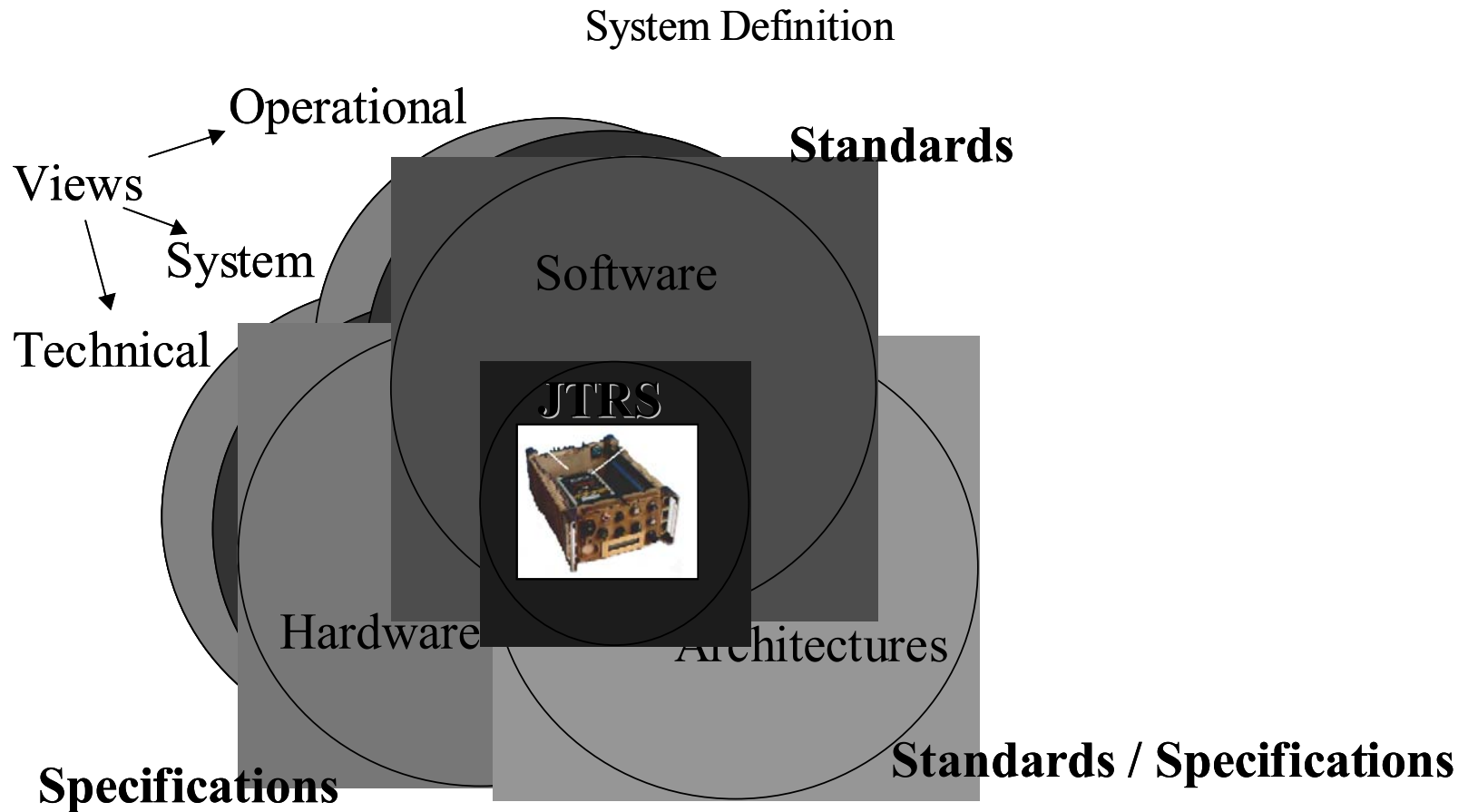
Role of the JPO

Manage across clusters and over time to smoothly enhance system capabilities in support of near, mid and long term program objectives and requirements



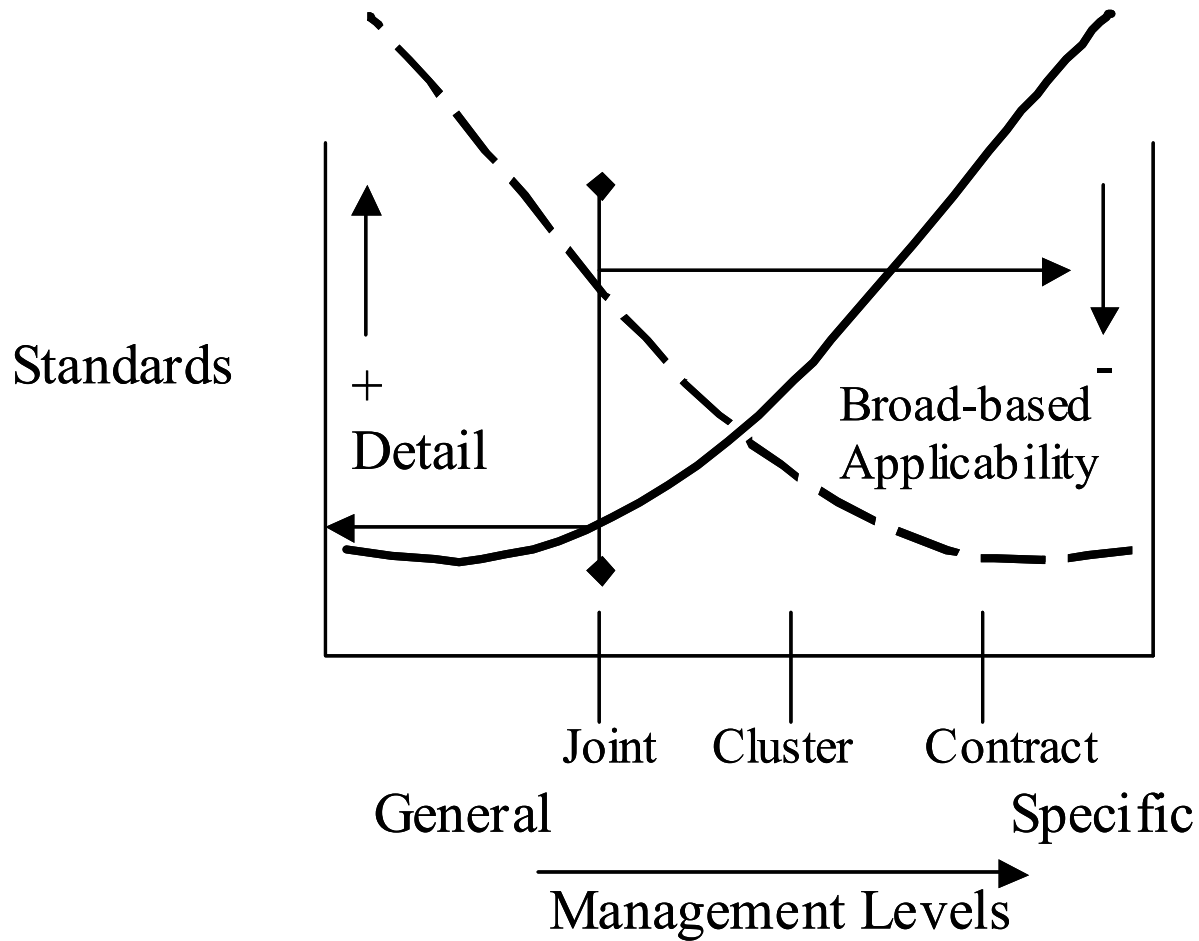
DoD & C4ISR Frameworks





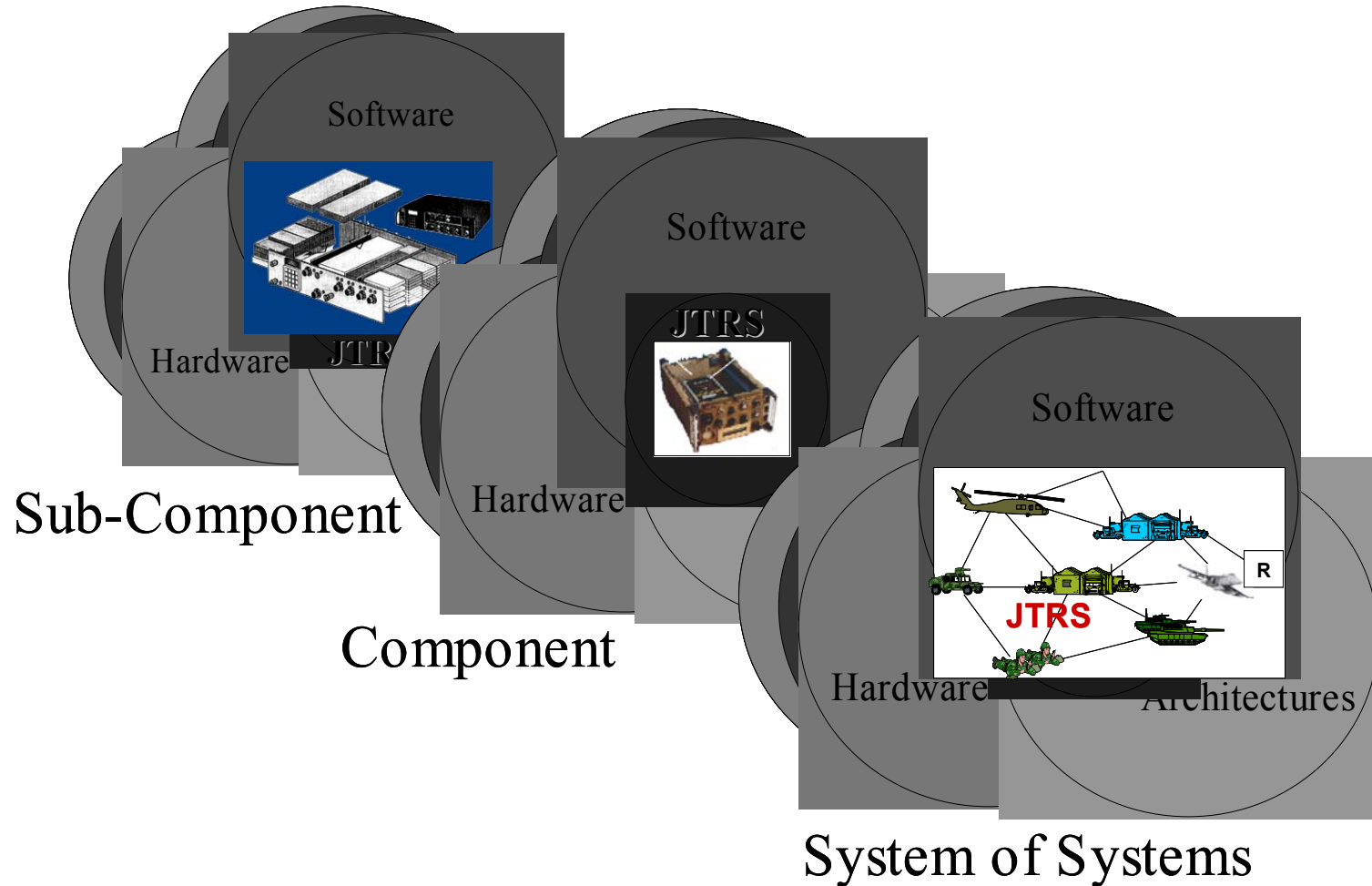


JTRS Management Levels





JTRS Architecture Spectrum





Management Matrix



C4ISR View Based Focus Matrix

Program Relationships		C4ISR Views			
Management Level	Organizational Level	Operational	System	Technical	
↑ Widening Interest	Joint & Cluster	X	X		
	Joint	X			
	Joint Contract	Joint PO Oversight Execution	X	X	
			+	X	X
	Cluster	Cluster PO	+	X	X
	Contract	Contract Efforts	+		X



- Management Matrix is one Technique
- There Are Others
 - Use the Architecture to Help Define Business and Organizational Processes (OV1, SVs ...)
 - Combine Architecture Approach to Link the Management (Process) and Organizational with the Program



- The Use of the C4ISR Architecture (DoD Architecture Framework Provides a Unique Perspective for Program & System Portfolio Management.
 - Break the One – To – One Correspondence Between Programs and Management Reviews
 - The Deliverable is the System of Systems Architecture

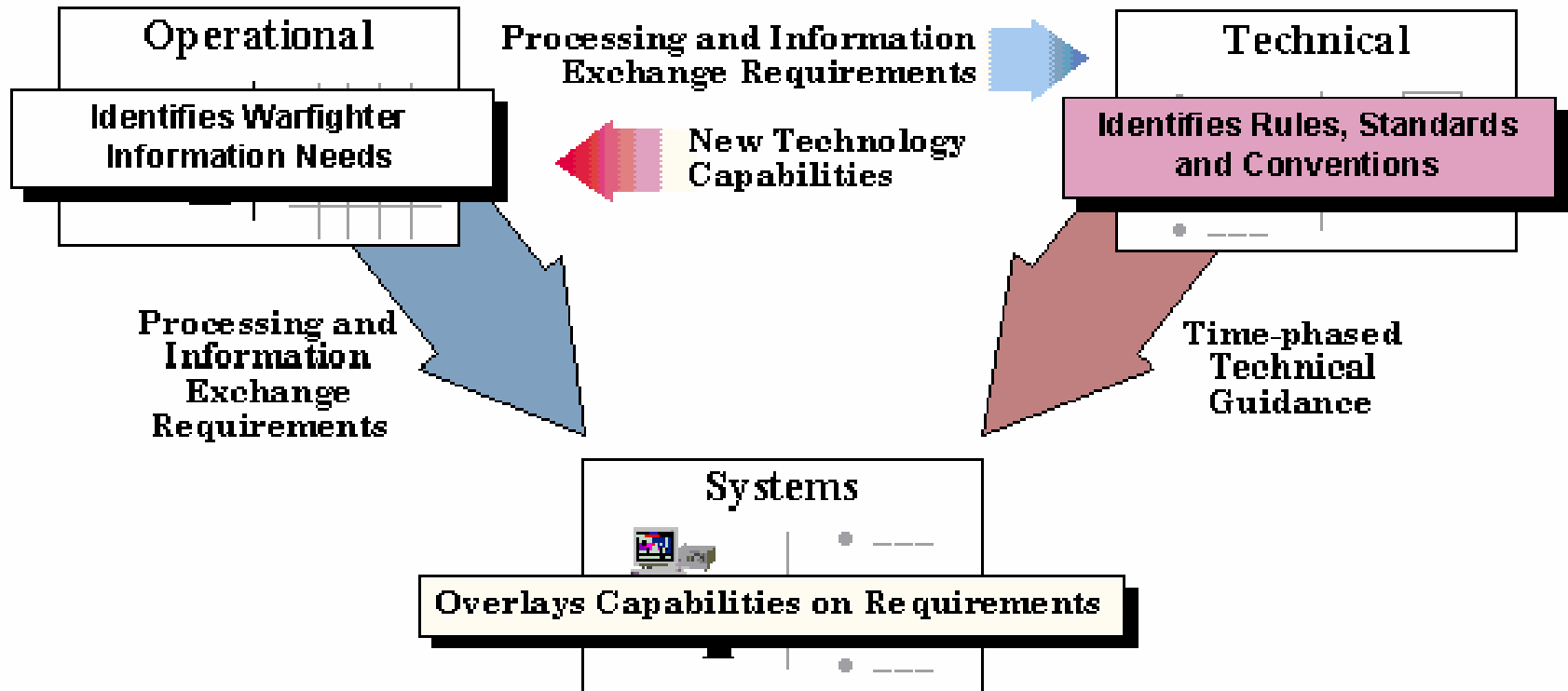


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C4ISR Framework





DoD Architecture Framework

