

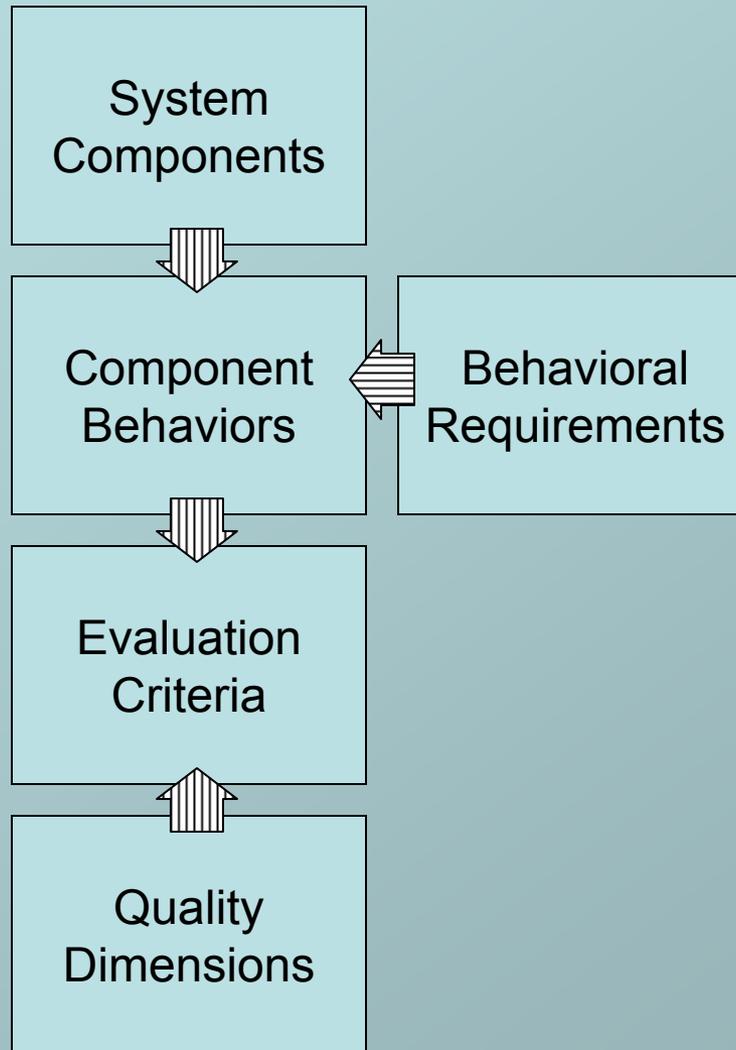
Functional Decomposition and Synthesis

Undersea Warfare
COMOPTEVFOR

Overview

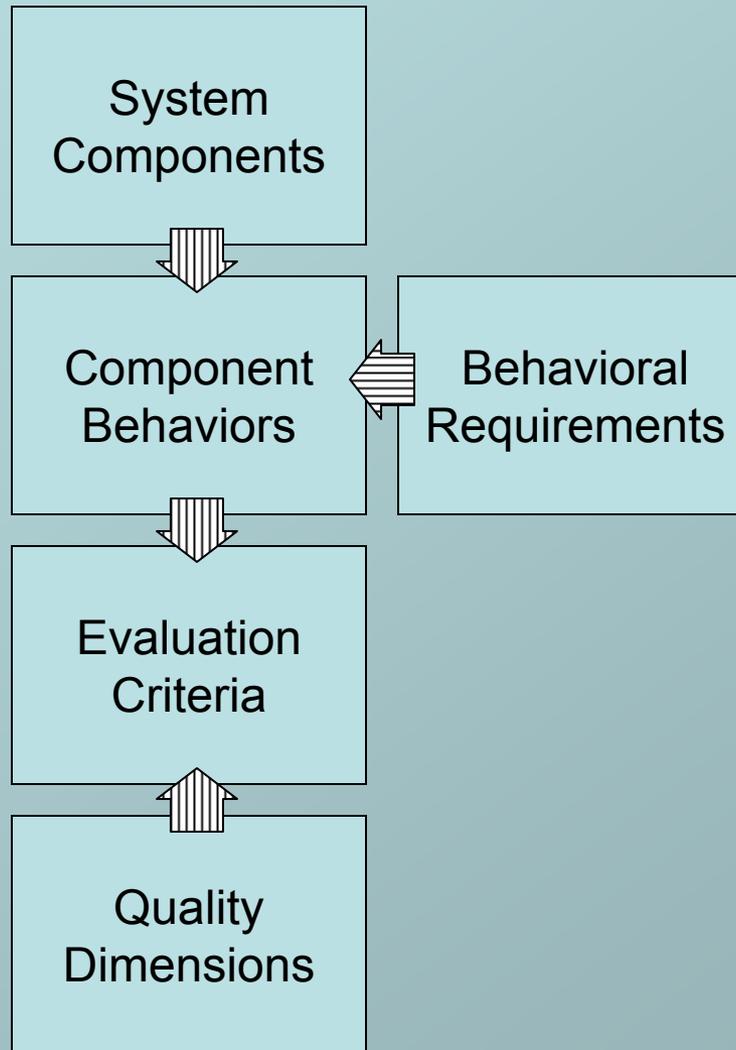
- Decompose the system into:
 - System Components
 - Behavioral Requirements
 - Quality Dimensions
- Synthesize Indicators to obtain Criteria
- Use Hierarchy for Aggregation and Analysis

Evaluation Criteria Diagram

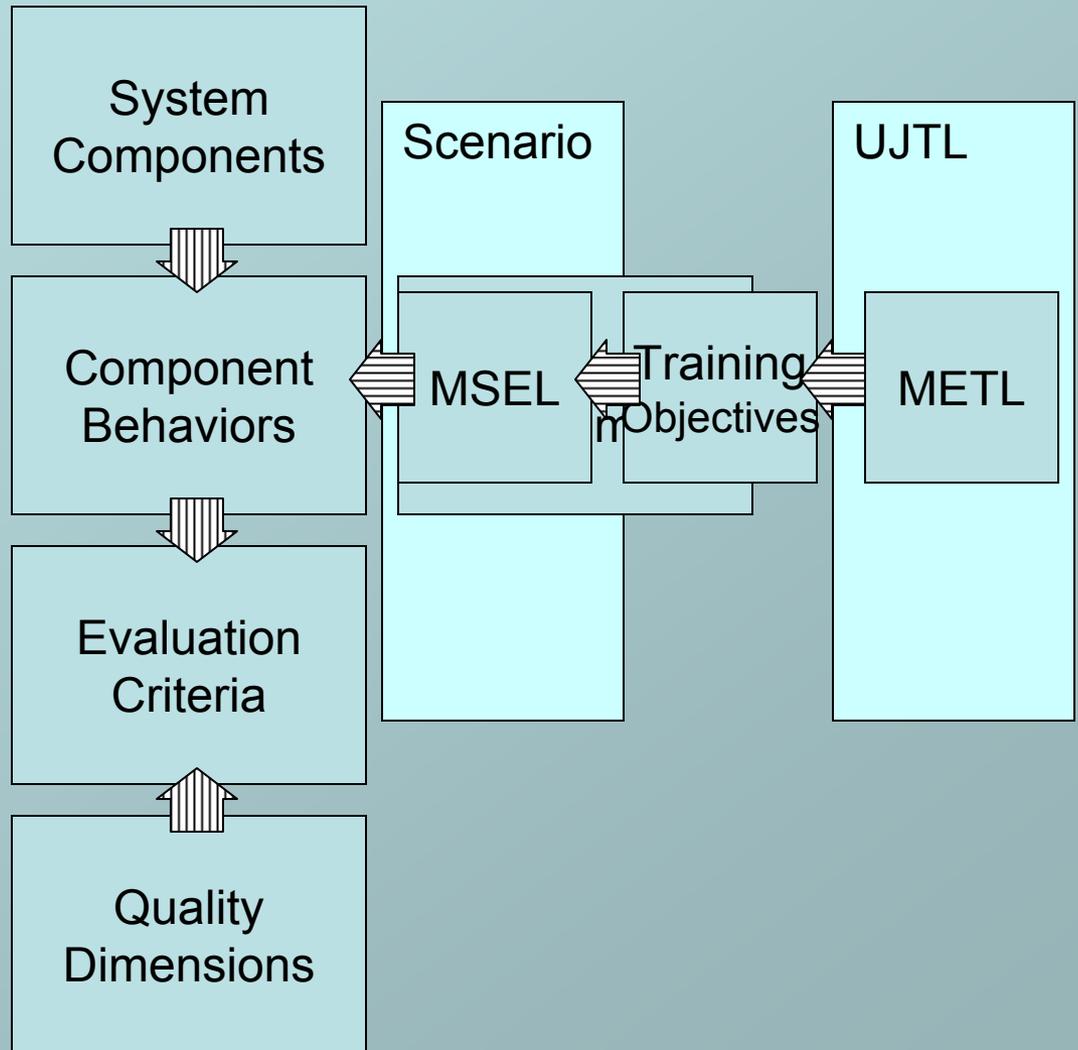


Joint Simulation System (JSIMS)

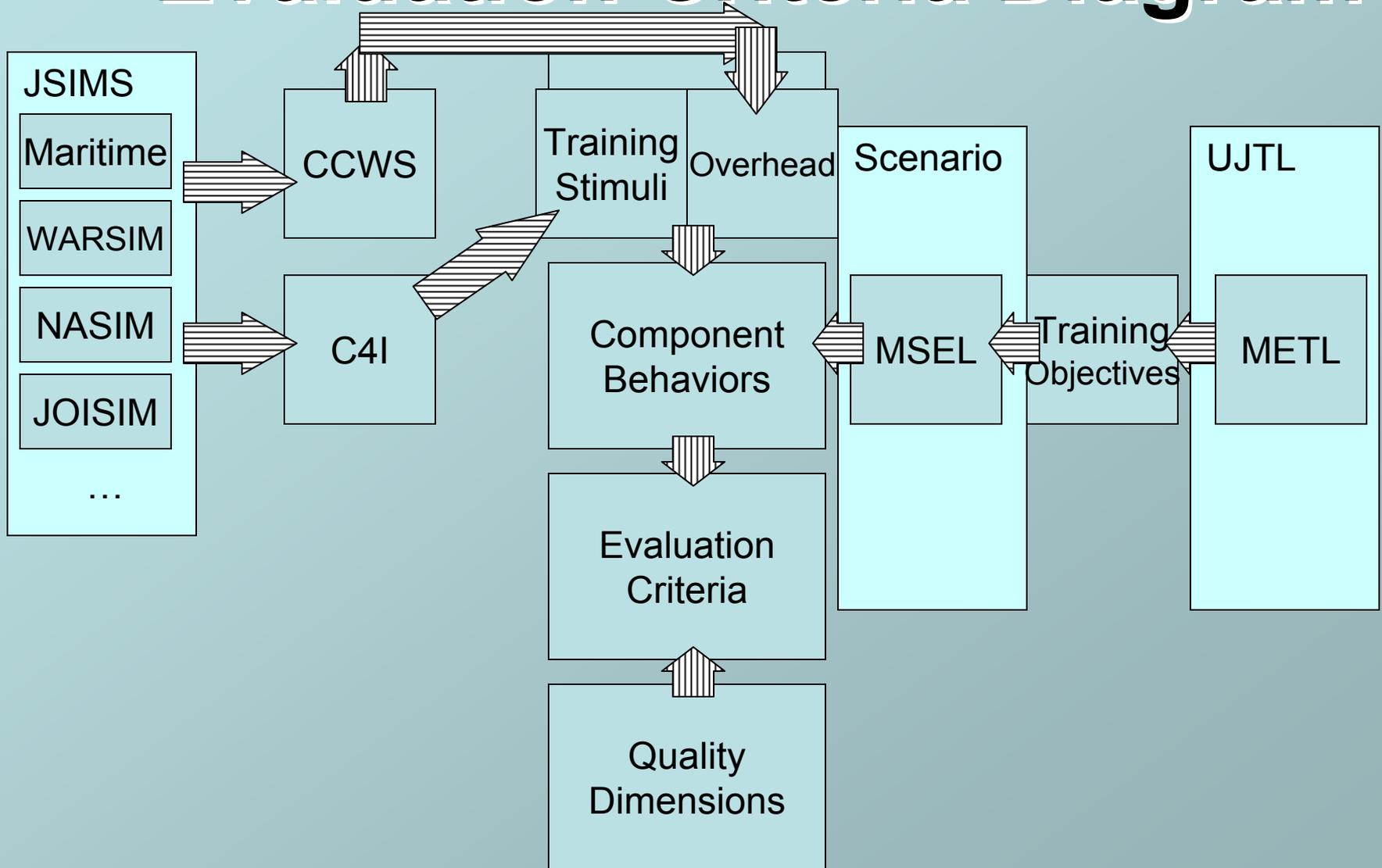
Evaluation Criteria Diagram



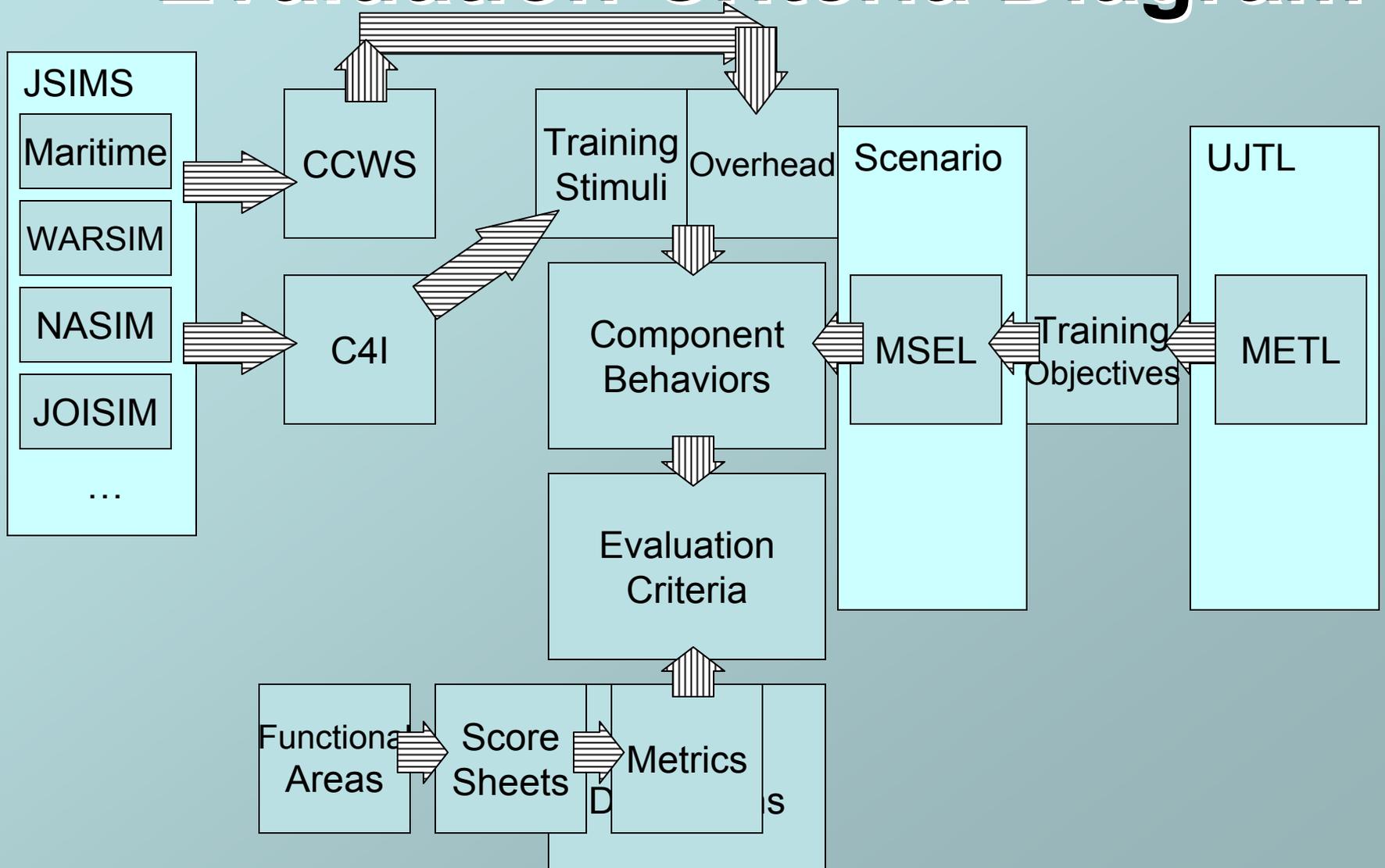
Evaluation Criteria Diagram



Evaluation Criteria Diagram

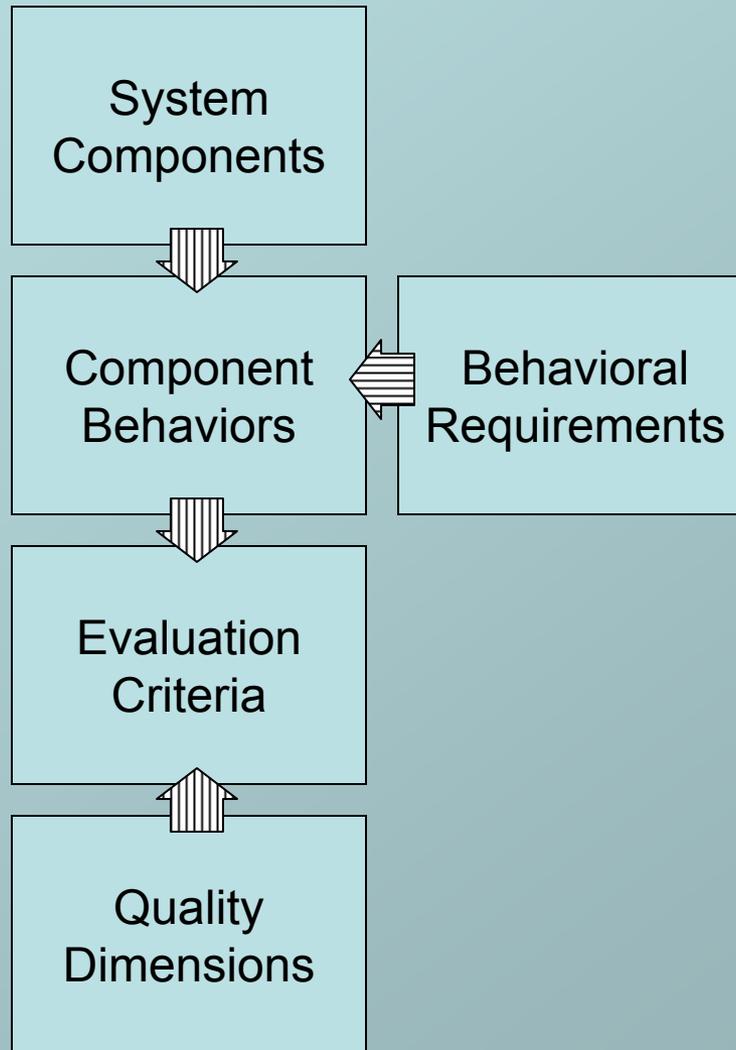


Evaluation Criteria Diagram

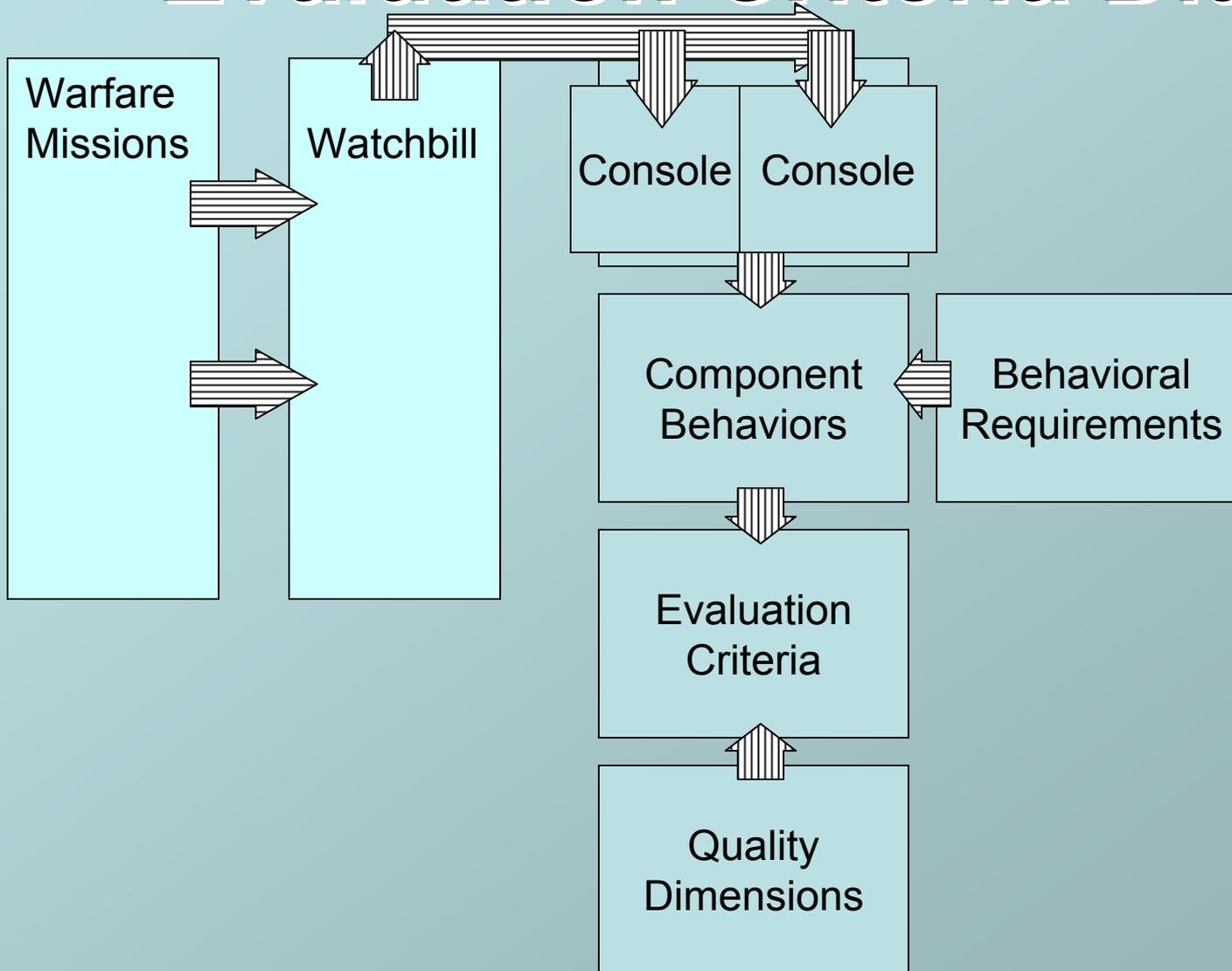


**Virginia Class Submarine
Command and Control System Module
Off-Site Assembly and Test Site
(COATS)**

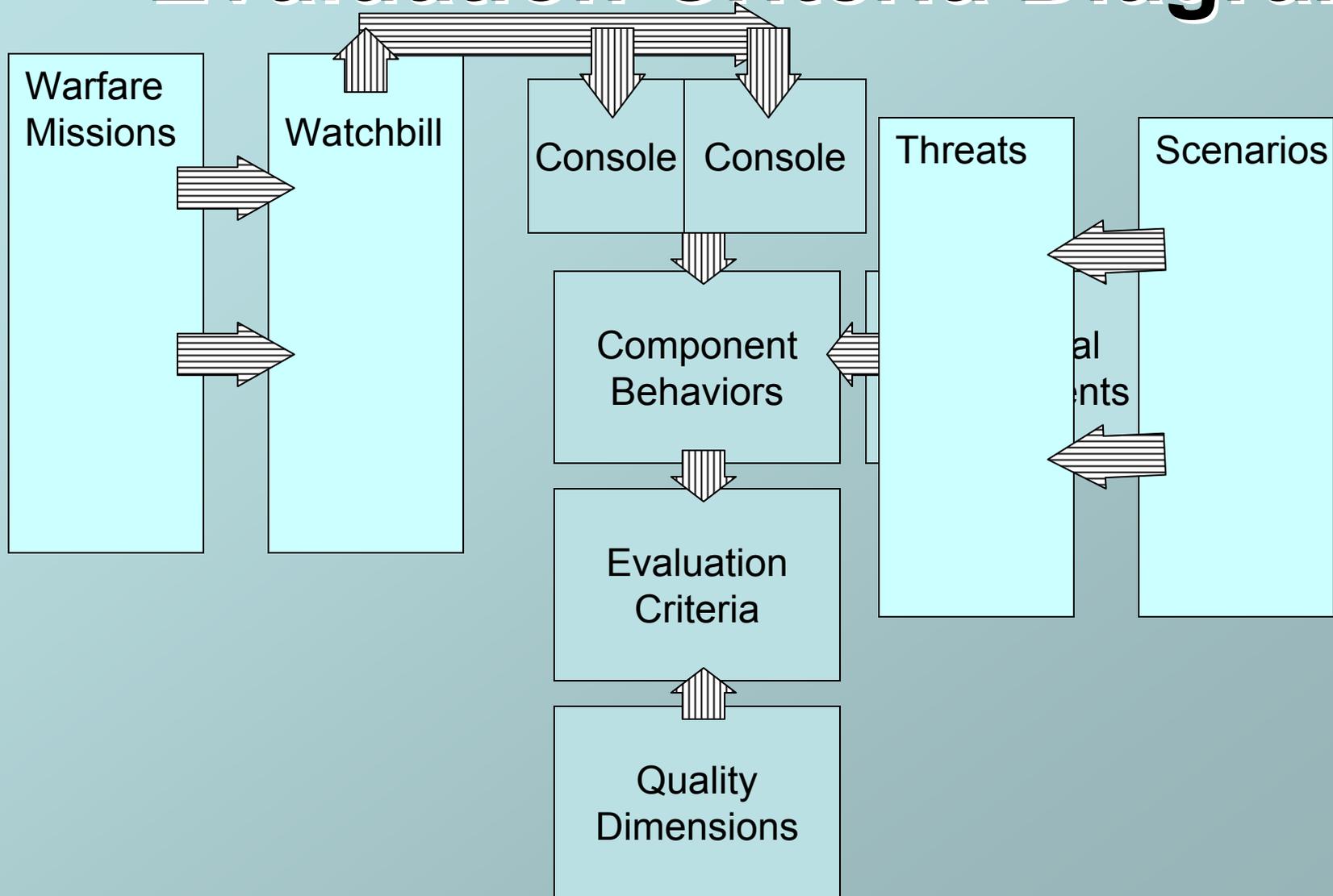
Evaluation Criteria Diagram



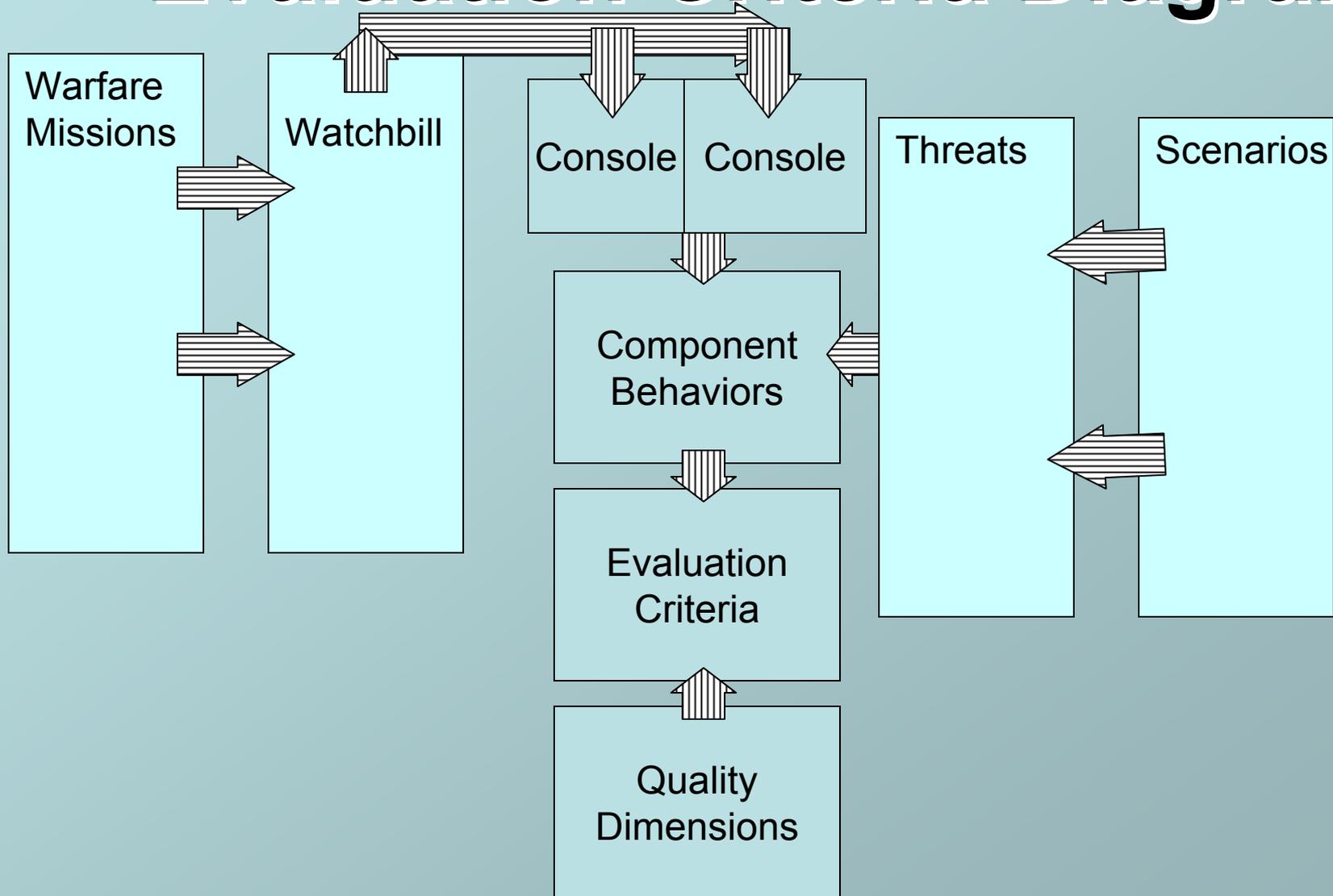
Evaluation Criteria Diagram



Evaluation Criteria Diagram



Evaluation Criteria Diagram



Benefits

- Flexibility
 - Adapts to M&S development process
 - Suitable for RAD, JAD, UP, Spiral
- Robustness
 - Correlates evaluation and decision criteria
 - Supports drill down and build up analysis
- Relevance
 - Provides early operational feedback
 - Evaluated in terms of program metrics