

NAVAIR Systems Engineering

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Presented to:

Systems Engineering Community

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SE Tactical/Strategic Focus Areas

Tactical

- Near term SE transformation; Agile, Architectures, linked multi-site platform Modeling
 & Simulation Environments, User friendly tools
- System Safety Integrity/Consistency in Implementation
- IT/IA Tech Authority and implementation

Strategic

- Articulating and decomposing cyber/system security requirements; implementing risk management framework in SoS context
- Enabling mission systems engineering with appropriate tools, views/architectures, insights, allocations, interfaces, SETR integrity
- Long term SE transformation; SE modeling, mission architectures, leading indicators, completion of effects chains
- Promulgation to SE practitioners across geographic and competency boundaries
- Leading/influencing SE policy/process development with OSD(AT&L)/SE, Component Acquisition Executives, industry
- Sustained, mission level M&S environments
- Applying specialty engineering at mission levels; A_O, Reliability & Maintainability, Risk Management, Spectrum, Anti Tamper



Tiers of Systems Engineering

<u>Systems</u> <u>Engineering</u> <u>Functions</u>

Mission Architectures

Mission Analysis/Decomposition

Capability Assessments

Functional Requirements

ICTB Certification

Alternative Concepts

Functional Architectures

Functional Allocations

Functional Interfaces

Configuration Items

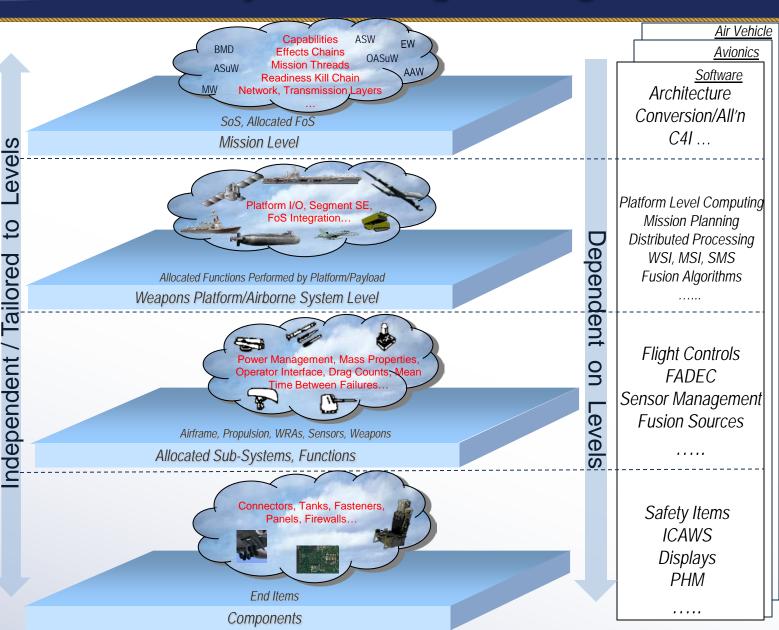
Trade Analysis

Risk Management

Regts Management

KPPs/KSAs/MoPs

Inform Acq'n Strategy





Transforming how we operate across the Systems Engineering "V"

