DoD 5000 Process

Depending on the “System” it can take 1, 5, 10, or 20 years.
To Architect and Engineer the Naval Force...

Mission System Components

CONOPS

Operational Needs

Mission Operational Requirements

Operations & Maintenance

Deployment

Validation

TESTING (DT / OT)
- Platform Operation Testing (OT)
- Platform Training
- Platform & SoS Developmental Test

System Verification
- ICD / CCD / CPD

SETR Process
- Interface Management Analysis Process

Implementation

Platform

System Functional Behavior

Sub-System

Sub-System

Sub-System

MISSION

PLATFORM

SYSTEM

COMPONENTS

...What’s Missing?

ASN RDA CHSENG, 2010
Engineering at the Mission Level

CONOPS
Operational Needs

Mission Operations Requirements

Operations & Maintenance
Deployment

Validation

Mission Operations Requirements

Derived

Platform Operation Testing (OT)
Platform Training
Platform & SoS Developmental Test

System Verification
ICD / CCD / CPD

SETR Process
Interface Management
Analysis Process
Implementation

Development & Assessment

Implementation

Aggregating

Operations & Maintenance
Deployment

Validation

platform

MISSION

PLATFORM

SYSTEM

COMPONENTS

Derived

Conops

Operational Needs

Deployment

Validation

Development & Assessment

Implementation

Aggregating

Operations & Maintenance
Deployment

Validation

Development & Assessment

Implementation

Aggregating

Operations & Maintenance
Deployment

Validation

Development & Assessment

Implementation

Aggregating

Operations & Maintenance
Deployment

Validation

Development & Assessment

Implementation

Aggregating

Operations & Maintenance
Deployment

Validation

Development & Assessment

Implementation

Aggregating
Despite our torturous acquisition governance process, there is not a country in the world that produces high-performance, high-quality and high-volume defense systems like the United States.

Our acquisition governance process has worked particularly well when developing individual platforms, systems, and some systems of systems.

Developing complex systems of the future will require a governance process that affords mission-level capabilities considerations throughout the entire acquisition life cycle.