New Modeling and Simulation Coordination and Management Structure

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**New Modeling and Simulation Coordination and Management Structure**

**Office of the Secretary of Defense, Readiness and Training, Washington, DC, 20301**

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Why DoD Needs a New Management Structure for M&S

• The Original Vision for Implementing M&S (5000.59)
  – A coordinated DoD M&S Investment Plan (Never completed)

• If we’d truly implemented the DoD 5000.59 starting in 1994...
  – Would we have common technical development frameworks?
  – Would we have legacy systems with models ready for test and maintained across the life-cycle?
  – Would we be able to help systems interface and exchange data during System Engineering?
  – Would we be able to help create common threat systems and environments for System Engineering?
  – Would we have joint environments today implemented with credible M&S?
  – Would we be able to pull together a Live, Virtual, and Constructive joint capability environment using credible M&S?
Why DoD Needs a New Management Structure for M&S (con’t)

• **The Promise: Lower Costs**
  – The Reality: JMASS, JSIMS and JWARS
    • Credible M&S is not necessarily simple or cheap

• **The Promise: Reuse**
  – The Reality: Re-use across programs & across acquisition phases within a program is low

• **The Promise: Commonality**
  – The Reality: Little standardization, little commonality. Programs build their own models for their own purposes.
    • VV&A processes not enforced – lots of strategies but expensive
    • How much standardization do we need?
    • DOD standards / considerations are unique
Step 1: Reforming DoD Management

- Centralized coordination and management for M&S still required in DoD
- The Program Decision Memorandum directed GO / SES Steering Committee and the Interim Executive Committee have now merged into the M&S Steering Committee
- DoD to revise DoDD 5000.59, DoD M&S Management.
  - In formal coordination
- M&S funding remains fixed at current levels until business plans and outreach is completed
Step 2: Devise a New M&S Management Structure

New M&S Management Structure Organized by Communities; Designed to Support Communities

1-2 Star M&S Steering Committee (M&S SC) provides governance (formerly EXCIMS)
M&S SC and IPT supported by the & M&S CO (formerly DMSO)

Corporate Focus
M&S Practices

Acquisition
AT&L

Analysis
PA&E & JS

Planning
JS & Policy

Testing
DOT&E & AT&L

Training
P&R

Experimentation
JFCOM

Common and Cross-Cutting M&S Tools

Common and Cross-Cutting M&S Data

Common and Cross-Cutting M&S Services

$B Goals:
• Reuse
• Interoperability
• Efficiencies

Components
OSD, Joint Staff, COCOMs, Services

$B Goals:
• Commonality
• Effectiveness
• Visibility/Accessibility
Step 3: Establish Plans and Processes for the M&S Steering Committee

- **New DoD Instruction 5000.XX**
  - Provides Specifics on Responsibilities, Processes, and Procedures

- **Community Business Plans**
  - Current Capabilities
  - Needs and Initiatives.
  - Captures M&S Tools, M&S Data, and M&S Services

- **Common and Cross-Cutting Business Plan**
  - Consolidates M&S Tools, M&S Data, and M&S Services

- **Vision and Processes Still Emerging**
  - To affect change within the $Billions spent on M&S investments across the M&S enabled Communities
  - To allocate the $Millions in the Joint Warfighting Simulation Program Element as one tool to affect that change
Step 4: Continually Evaluate Progress Against Original Goals

• The Goal: Effective, Efficient M&S support of Joint Operations
  – Need M&S to be more credible and affordable

• The Goal: Reuse
  – Re-use across programs & communities must increase

• The Goal: Commonality
  – Standardization and commonality consideration as needed
Summary

- DoD M&S management continuing to evolve toward integrating and leveraging of the capabilities in support of the Joint Operations
- We need help from our industry, academia, and interagency partners!