



Modeling & Simulation Standards: Should You Care?

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What is Modeling & Simulation?

Represent the Real World:

- Environments
- People
- Equipment
- Activities
- Processes





Why Modeling and Simulation?

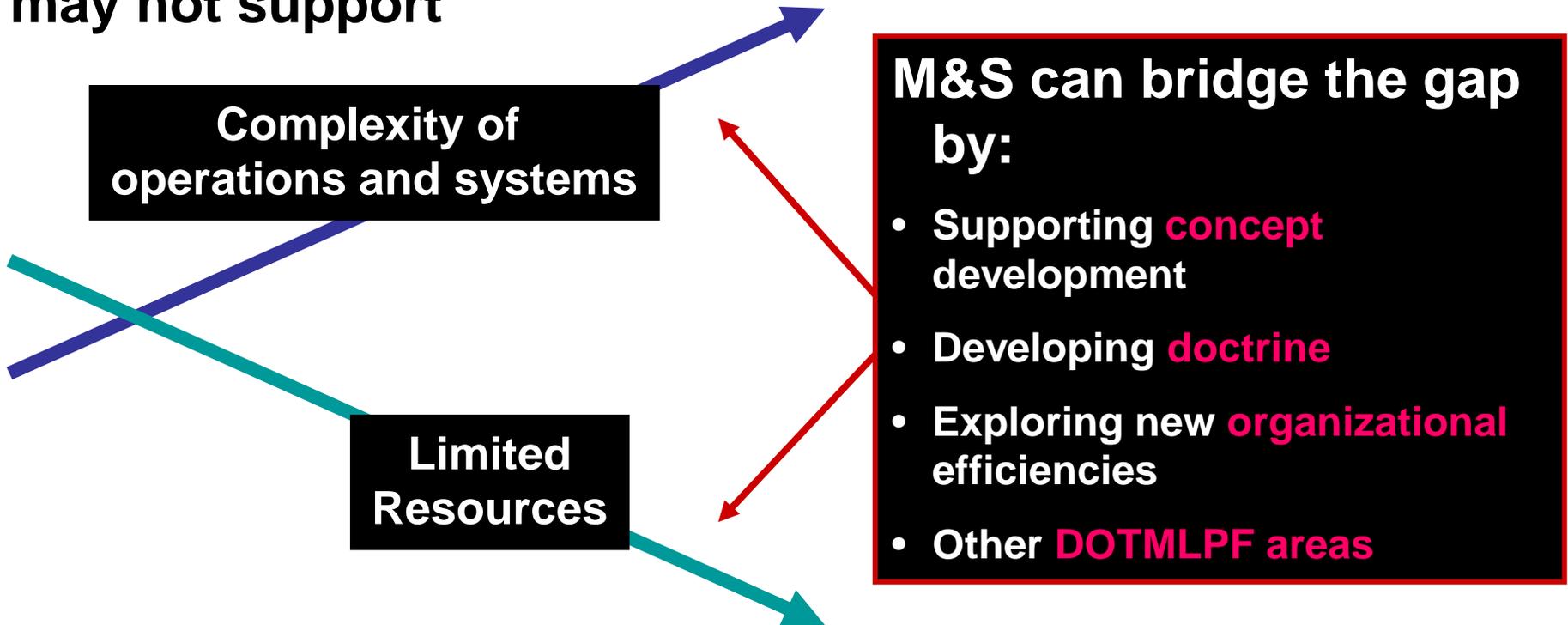
- **M&S is a key enabler of Transformation**
 - (DoD Transformation Planning Guidance)
- **Too Dangerous...Model it. Simulate it.**
- **Too Expensive...Model it. Simulate it.**
- **Don't Understand it...Model it. Simulate it.**
- **Ubiquitous...**
 - Analysis (Programming Resources, Planning Ops)
 - Acquisition (Systems Engineering, Alternatives)
 - Test & Evaluation (Large Scale Joint Environments)
 - Training & Education (Simulators to Campaigns)



Why should you care?

In a word: **COMPLEXITY**

Increased warfare and system complexity demands more practice, prototypes, and experimentation—which budgets may not support





M&S Standards Strategy: An Analogy to City Planning



Common Technical Framework

- High Level Architecture
- SEDRIS Environment Standards
- Data Standards

Common Services

- Environmental databases
- Communication networks
- VV&A policy and procedures
- Help Desks and Education
- Resource repositories
- Supporting software/tools

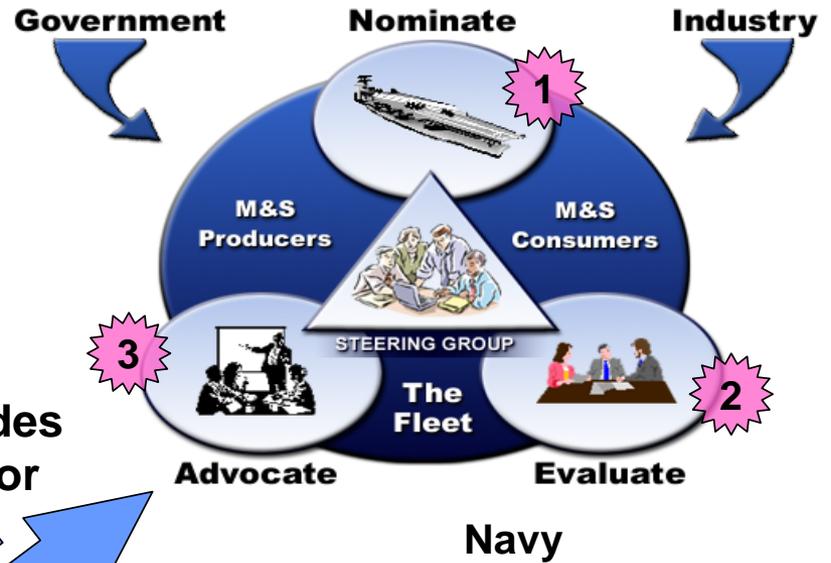
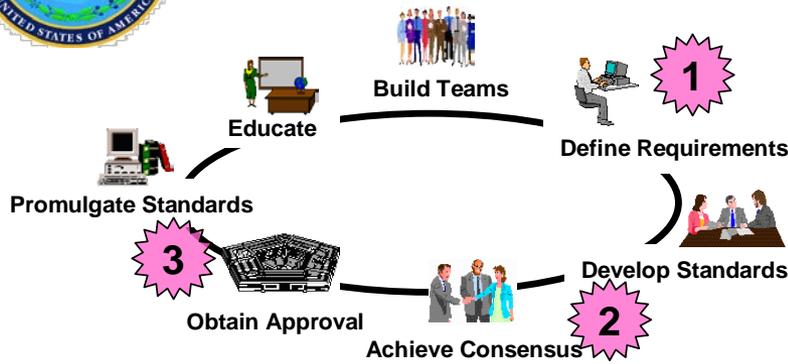


Payoffs: Interoperability and Re-use

Capability and Cost-Effectiveness



Standards Process Comparison



Army

DMSO Provides Focal Point for Initiatives

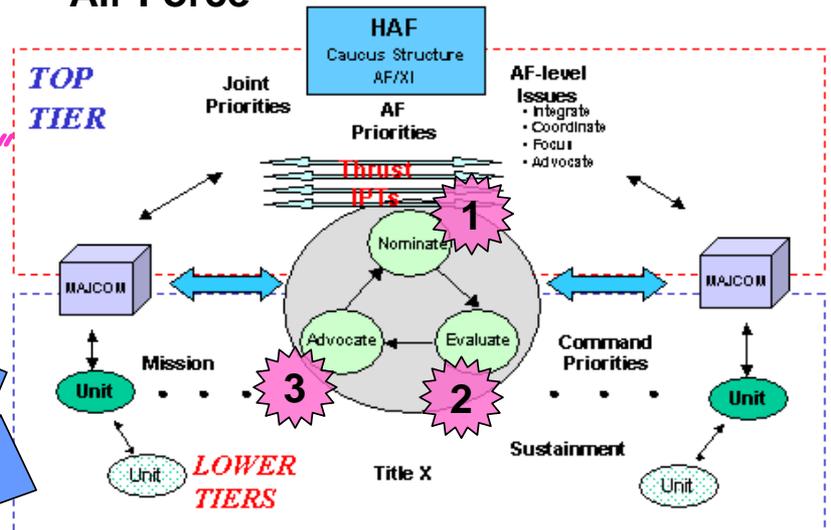
Air Force

"Advocate"

"Nominate"



"Evaluate"





Standards for M&S

➤ **M&S Specific**

- Simulation Interoperability
- Simulation Interfaces
- Environment Representation
- Verification, Validation & Accreditation

➤ **Community-wide Interest**

- C2 Interoperability
- Data Management/Standards
- Metadata
- Communications Protocols
- Web Services