

# Perspectives on the Analysis M&S Business Plan

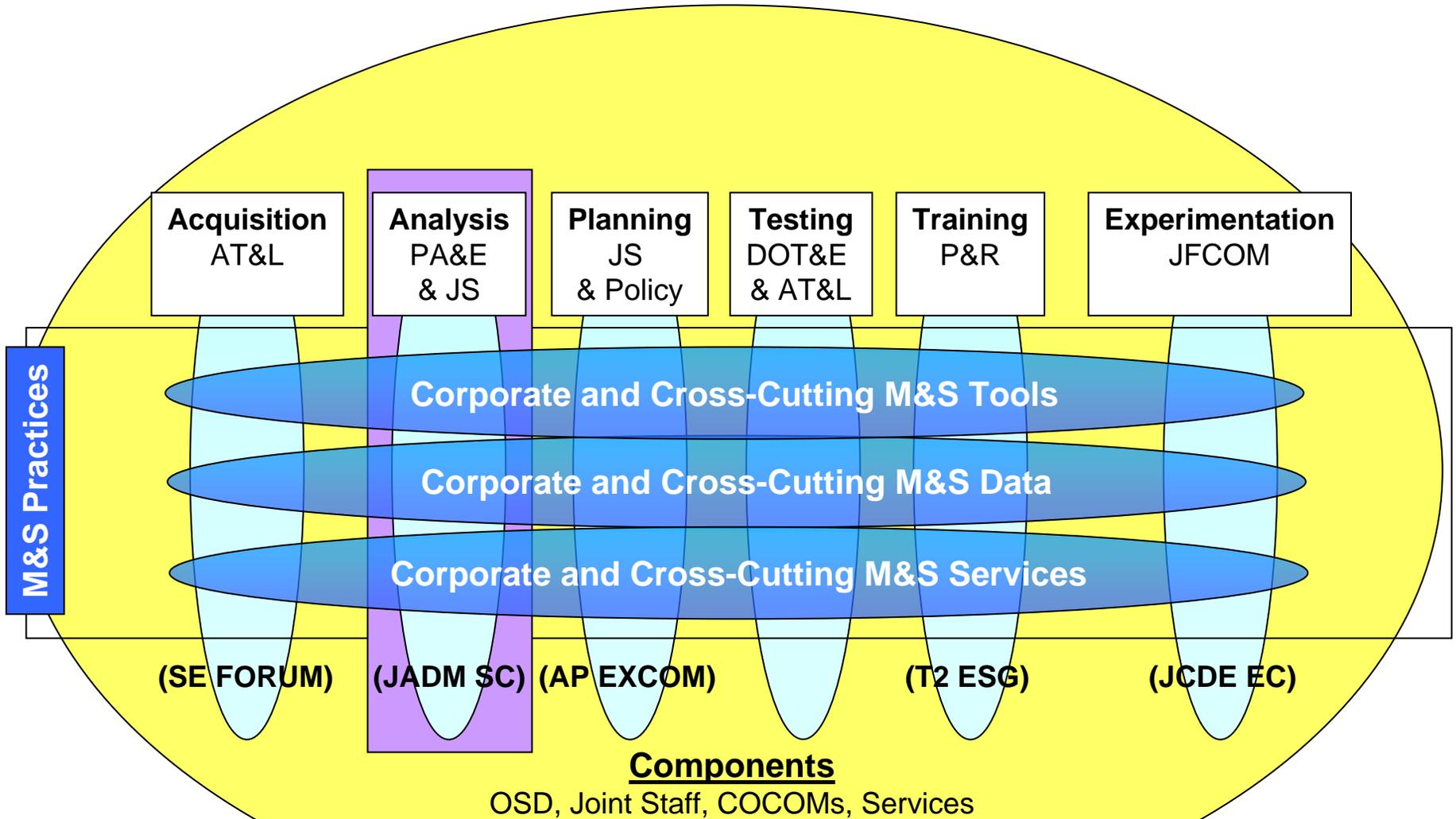
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June 19, 2008

# Agenda

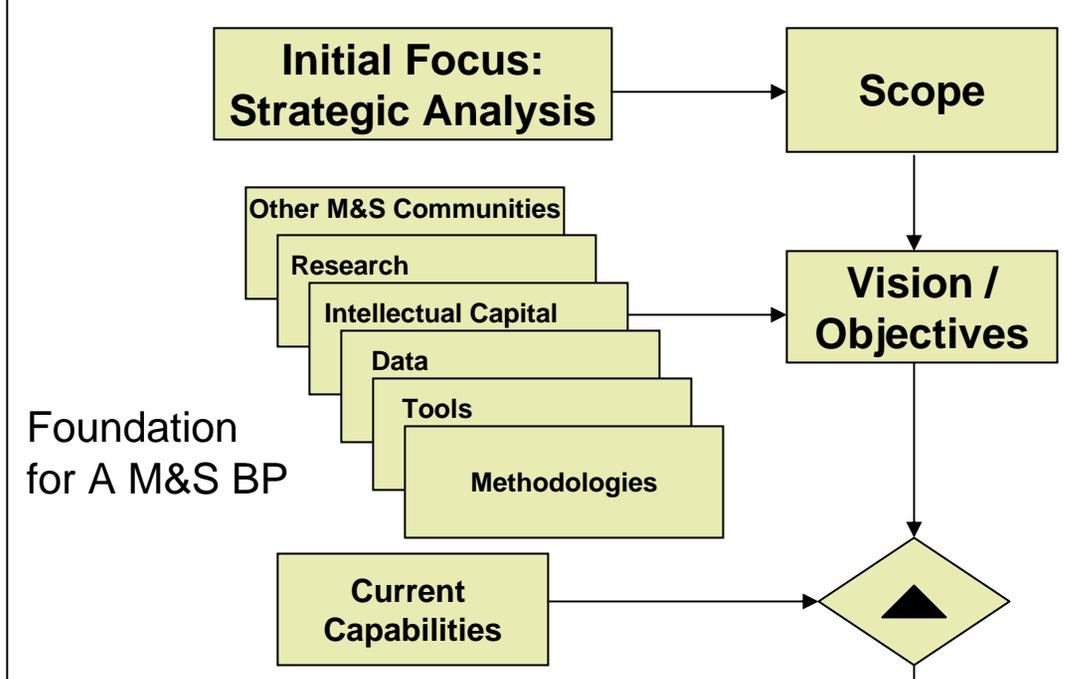
- Purpose, Scope, Focus
- Process, Gaps
- Next Steps

# New DoD M&S Management Approach

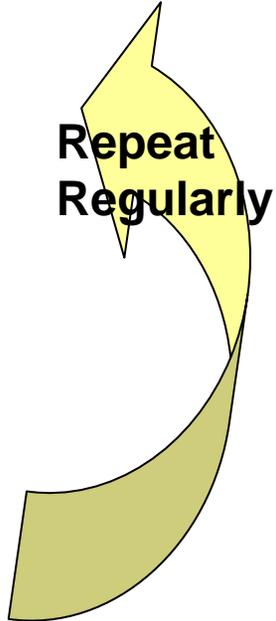
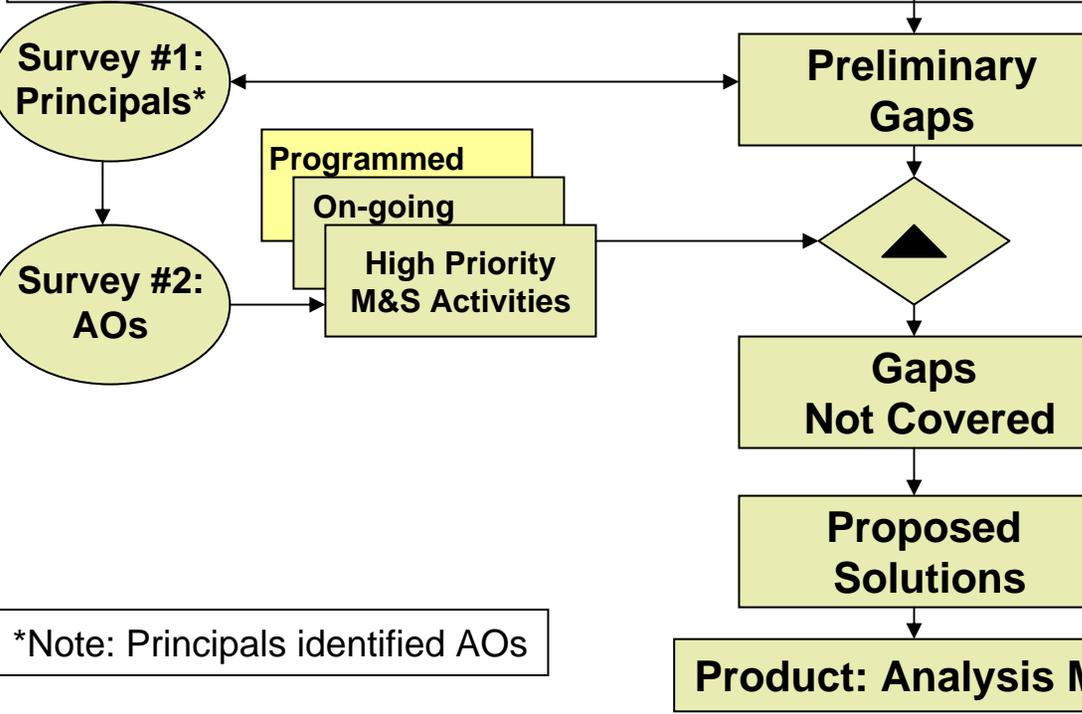


# Community Business Plans

- End State
  - Robust M&S capability to more effectively meet operational and support objectives across the Services, COCOMs, and agencies.
- Purpose
  - Mature and institutionalize community-specific M&S capabilities, plans, and organization
  - Provide source documents for identifying validated needs
  - Guide implementation and promulgation of common and cross-cutting tools, data, services, and practices
- Content
  - Background (Scope, Vision, Current Capabilities)
  - Management (Membership, Governance, Communication)
  - Needs and Initiatives
    - Gaps in tools, data, and services
    - Prioritized list of community-specific projects (funded and un-funded)



**Analysis M&S  
Business Plan  
Methodology/Process**



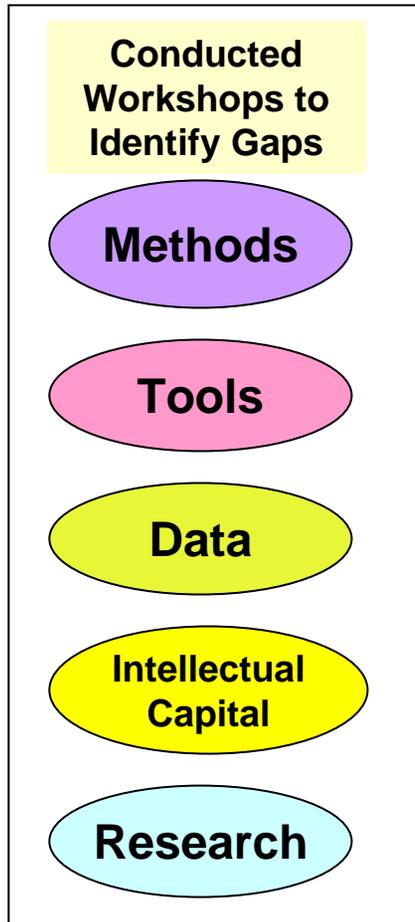
\*Note: Principals identified AOs

**Product: Analysis M&S BP**

# Analysis Vision and Selected Objectives

- Vision
  - A robust and inter-connected analytical community which supports the formulation, discussion, and assessment of National Security options across DoD through the use of M&S in an environment of evolving strategic issues
- Selected Objectives
  - Methodology
    - Develop and employ flexible, adaptable, and robust methodologies that are well suited to key strategic issues
    - Illuminate
      - Risks, uncertainties
      - Effects and capabilities
  - Tools
    - Develop and employ a core set of M&S that enhance Joint, Interagency, Multinational (JIM) analyses
    - Support methods developed to address QDR challenge areas, innovative DOTMLPF options
    - Develop capability to rapidly create needed M&S
    - Ensure that tools can be employed credibly, consistently, usefully

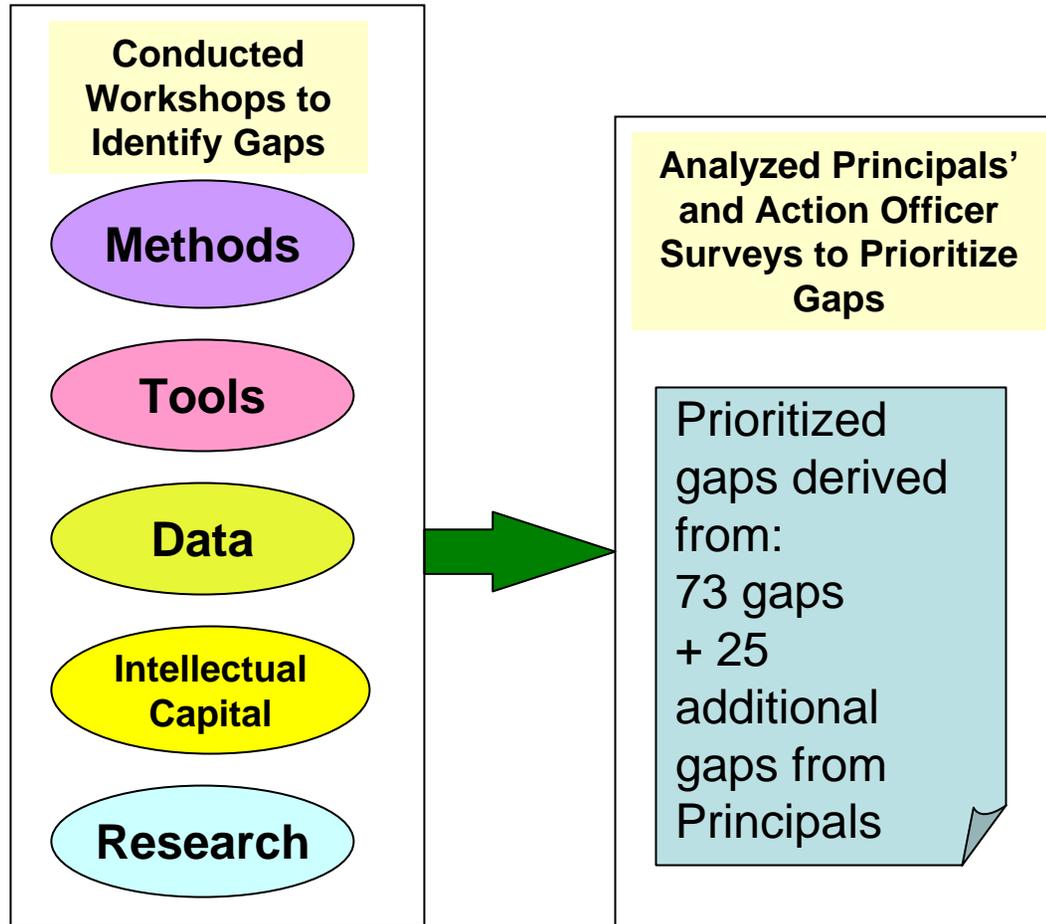
# Gap Identification



# Current Gaps: Overview

Area	Traditional Challenges	Irregular, Catastrophic, & Disruptive (ICD) Challenges
Methodologies	<b>Green-Amber</b>	<b>Red</b>
Tools	<b>Green-Amber</b>	<b>Red</b>
Data	<b>Green-Amber</b>	<b>Red</b>
Intellectual Capital	<b>Green-Amber</b>	<b>Red</b>
Research	<b>Amber</b>	<b>Red</b>
Cross-community Activities	<b>Amber</b>	<b>Red</b>

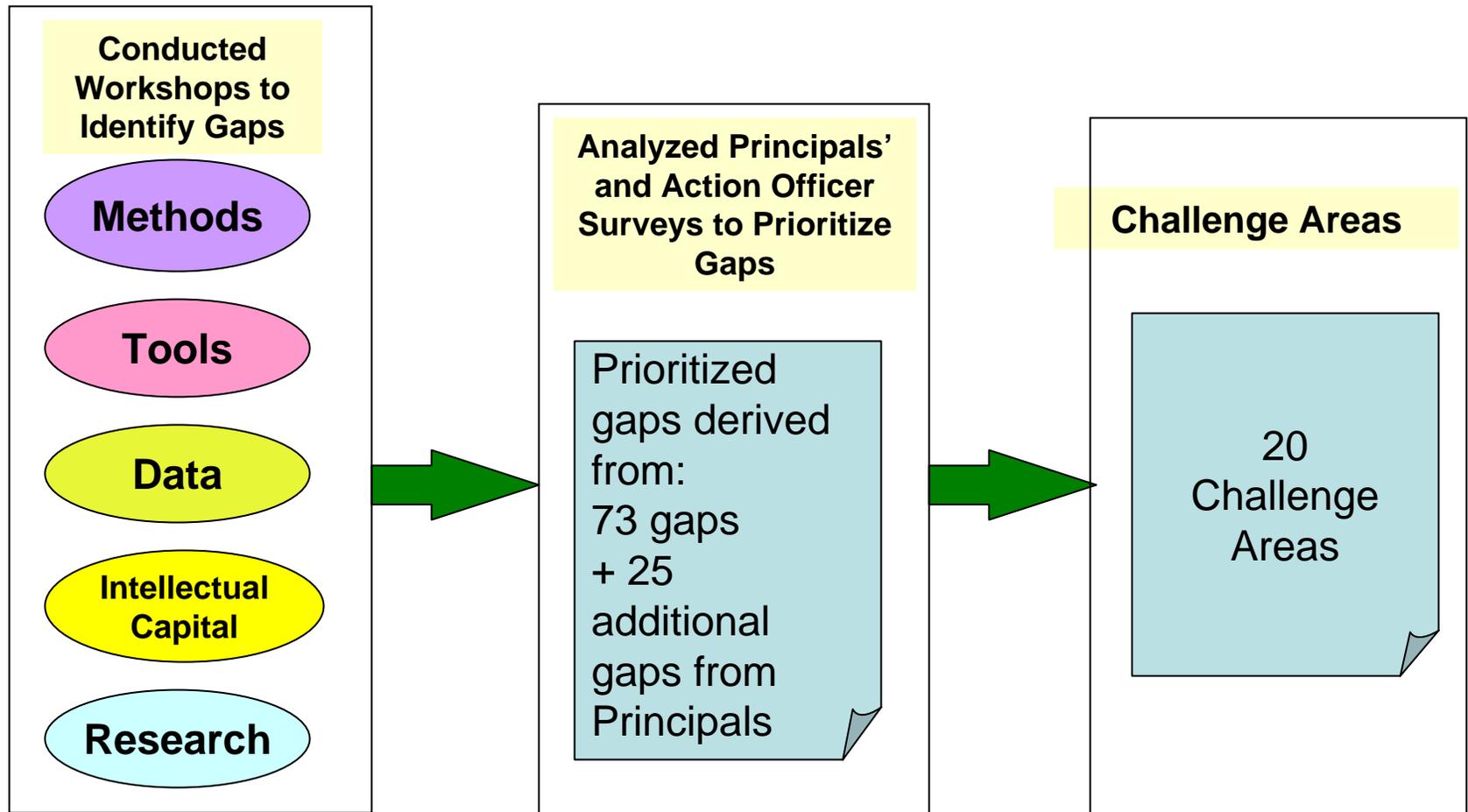
# Gap Prioritization



# Survey Results: Highest Priority Analysis M&S Gaps

- Operational Focus Areas
  - Irregular Warfare (IW)
  - Stability, Security, Transition, & Reconstruction (SSTR)
- Cross-cutting Missions/Functions
  - Human Social, Cultural Behavior (HSCB) modeling
  - Information Operations, including cyberwar
- Management Issues
  - M&S Governance (e.g., M&S responsibilities for Joint analysis leadership; metrics for measuring progress)
  - Management of key resources (e.g., data, tools)
  - Outreach to professional societies
  - Education and Training (analysts, decision makers)
- Hot Topics
  - Research on Complex Adaptive Systems

# Identification of Challenge Areas



# Twenty Challenge Areas

<b>Topic</b>	<b>Key Elements</b>
Operational focus areas	<ul style="list-style-type: none"><li>• Irregular Warfare (e.g., COIN, Counter-terrorism)</li><li>• Stability, Security, Transition and Reconstruction (e.g., HA/DR)</li><li>• Homeland Defense/Defense Support for Civil Authorities</li><li>• Conventional Operations (e.g., Joint campaign analysis)</li></ul>
Cross-cutting missions / functions	<ul style="list-style-type: none"><li>• Deterrence</li><li>• Representation of C4ISR</li><li>• Modeling Net-Centric Operations</li><li>• Human social, cultural, behavior (HSCB) aspects</li><li>• Information operations including cyber warfare</li><li>• CBRNE activities</li><li>• Space operations</li><li>• Logistics</li><li>• Joint, interagency, multinational (JIM) operations</li></ul>
Management issues	<ul style="list-style-type: none"><li>• Education &amp; Training (analysts, decision makers)</li><li>• Ensuring credibility of M&amp;S (e.g., VV&amp;A)</li><li>• M&amp;S governance</li><li>• Outreach</li><li>• Management of key resources (e.g., data, tools)</li></ul>
Hot topics	<ul style="list-style-type: none"><li>• Representation of Complex Adaptive Systems</li><li>• Portfolio management</li></ul>

# Manage the Business Plan

- The initial Analysis M&S Business Plan has been uploaded on the Joint Data System (JDS) Forum site (<http://jdsforums.pae.osd.smil.mil>)
  - Comments and suggested changes are encouraged
  - Innovative tools are being employed (e.g., wikis)
- We plan to “vet” significant suggestions with the Joint Analytic Data Management (JADM) Integrated Process Team (IPT) and Steering Committee (SC), as appropriate
- We are undertaking research in areas that were not explored adequately in the initial version of the plan; e.g.,
  - Portfolio Management
  - Deterrence (e.g., tailored deterrence, cyber deterrence)
  - War games, particularly in JIM operations
  - Additional aspects of IW
- We plan to conduct formal reviews periodically
  - Progress made during year (e.g., identify project activity)
  - Suggested changes/additions/deletions