JOINT ANALYSIS IN THE “DECISION AGE”

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EMERGENT THEMES IN DEFENSE ANALYSIS

1. **MANAGE** ANALYSES TO BETTER SERVE AND SHAPE THE “DEFENSE DEBATE”.
   (BECOME PROACTIVE, COLLABORATIVE, AND STEADY STATE)

2. **PROVIDE** ANALYSIS SUPPORT TO THE FULL NATIONAL MILITARY STRATEGY.
   (2/3 OF STRATEGY IS POORLY SUPPORTED BY ANALYSIS)

3. **IMPROVE** THE EFFECTIVENESS AND EFFICIENCY OF JOINT STUDIES.
   (USE AN ANALYSIS RECIPE)

4. **EXPLOIT** TECHNOLOGY TO IMPROVE ANALYSIS RESPONSIVENESS.
   (BECOME “DECISION AGE” ANALYSTS)
1. IMPROVING ANALYSIS MANAGEMENT

PROACTIVE

STRATEGIC LEVEL OF ANALYSIS MANAGEMENT

DEFENSE DEBATE

QDR

OPERATIONAL LEVEL OF ANALYSIS MANAGEMENT

ISSUES OBJECTIVES SCHEDULES MEASURES

ANALYSIS CAMPAIGNS

INSIGHT

TACTICAL LEVEL OF ANALYSIS MANAGEMENT

STUDIES & EXPERIMENTS
2. ANALYSIS SUPPORTING THE MILITARY STRATEGY

- OPERATIONS PLANNING & EXECUTION
- FORCE STRUCTURE & REQUIREMENTS

- ENGAGE
- RESPOND
- PREPARE

- CONGRESS
- SECDEF / CJCS
- CINCS

- MILITARY STRATEGY
- POSTURE OF ENGAGEMENT
- OOTW SSCs
- MRCs

- TEP
- RISK

- MRS-05
- DAWMS
- BURU
3. IMPROVING EFFICIENCY & EFFECTIVENESS

THE ANALYSIS RECIPE

- WHAT’S THE QUESTION?
- WHAT’S THE REAL QUESTION?
- WHAT DO THE FINAL SLIDES LOOK LIKE?
- WHAT DO WE ALREADY KNOW?
- HOW DO WE GET THE MISSING INFORMATION?
4. EXPLOITING TECHNOLOGY

ISSUES ARE EXTREMELY COMPLEX AND DYNAMIC.
-CANNOT HUSBAND IN ONE PLACE ALL THE EXPERTISE NEEDED TO BE COMPETENT.
(OUTREACH & COLLABORATION IS REQUIRED)

TRADITIONAL M&S CANNOT KEEP PACE WITH THE COMPLEXITY OR THE DYNAMICS (MODEL & WORLD)
(NEW, FAST, METHODS, TOOLS & SKILLS ARE NEEDED)

CHALLENGE !!

-WHAT DOES IT MEAN TO DO ANALYSIS IN THE “INFORMATION AGE”? IN THE “DECISION AGE”?
CHARACTERISTICS OF DECISION AGE ANALYSIS ORGANIZATIONS

• PRODUCE PROACTIVE ANALYSIS.
• APPLY CURRENT AND EVOLVING INFORMATION.
• FOCUS ON “TOTAL SYSTEM” BEHAVIOR.
  • POLITICAL, SOCIAL, ECONOMIC, MILITARY
  • “SYSTEM BEHAVIORS” INCLUDE:
    • HISTORY, TRENDS, EMERGENT BEHAVIOR
    • UNINTENDED/UNEXPECTED CONSEQUENCES
• EMPOWER AGILITY.
  • IN THINKING
  • IN METHODOLOGY
  • IN ORGANIZATION AND SKILLS.
NEW ANALYSIS
FUNCTIONS & MANNING

• CURRENT INFORMATION ACCESS
  • OPEN SOURCE - THE WEB
  • CLASSIFIED - INTEL
  • INFORMATION RESEARCH SUPPORT
• DATA MINING CAPABILITY
• FAST QUANTITATIVE ANALYSIS TECHNIQUES
• COGNITIVE AND SUBJECTIVE ANALYSIS METHODS.
• KNOWLEDGE MANAGEMENT PROCESSES

OPERATED BY:
• WEB TECHNICIANS / SURFERS
• LIBRARY SCIENTISTS
• GRAPHICS ANALYSTS
• SOCIO SYSTEMS ANALYSTS
• KNOWLEDGE MANAGERS
• ORSAs
JOINT ANALYSIS ACTIVITIES

CATEGORY I  (RECURRING HIGH PAYOFF TO J8)
A. STUDIES MANAGEMENT (VALUE, FOLLOW UP)
B. STUDIES DESIGN SUPPORT (COLLABORATION)
   --”ICON” STUDIES DATA BASE
   -- “GAME/ANALYZE/GAME” METHODOLOGY

CATEGORY II  (CLEAR PAYOFF FOR JOINT ANALYSIS)
C. DATA MINING
   --ENGAGEMENT, RESPONSE
D. VIRTUAL INFORMATION CENTERS
   --COLLABORATIVE EXPERTISE / ACCESS
E. INFLUENCE DIAGRAMMING
   --RATIONALE FOR PREPARATION OF OPEN SOURCE
   --ENGAGEMENT & RESPONSE ANALYSIS.
F. FAST TOOLS (SUBJECTIVE & VISUALIZATION & SIMULATION)

CATEGORY III (POTENTIAL FOR HIGH PAYOFF-INVESTIGATE)
G. DOCUMENT ANALYSIS
   --ISSUES IDENTIFICATION
H. COMPLEX ADAPTIVE SYSTEMS ANALYSIS METHODOLOGY
I. LPs FOR FORCE; OPS CONCEPTS; C4ISR TRADEOFFS