



**Interim Report on:
“*SimSummit* Survey on
US DoD M&S Management / Leadership”**

**to the Modeling and Simulation Committee of the
National Defense Industrial Association (NDIA)
Systems Engineering Division**

7 February 2007

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Circumstance / Context

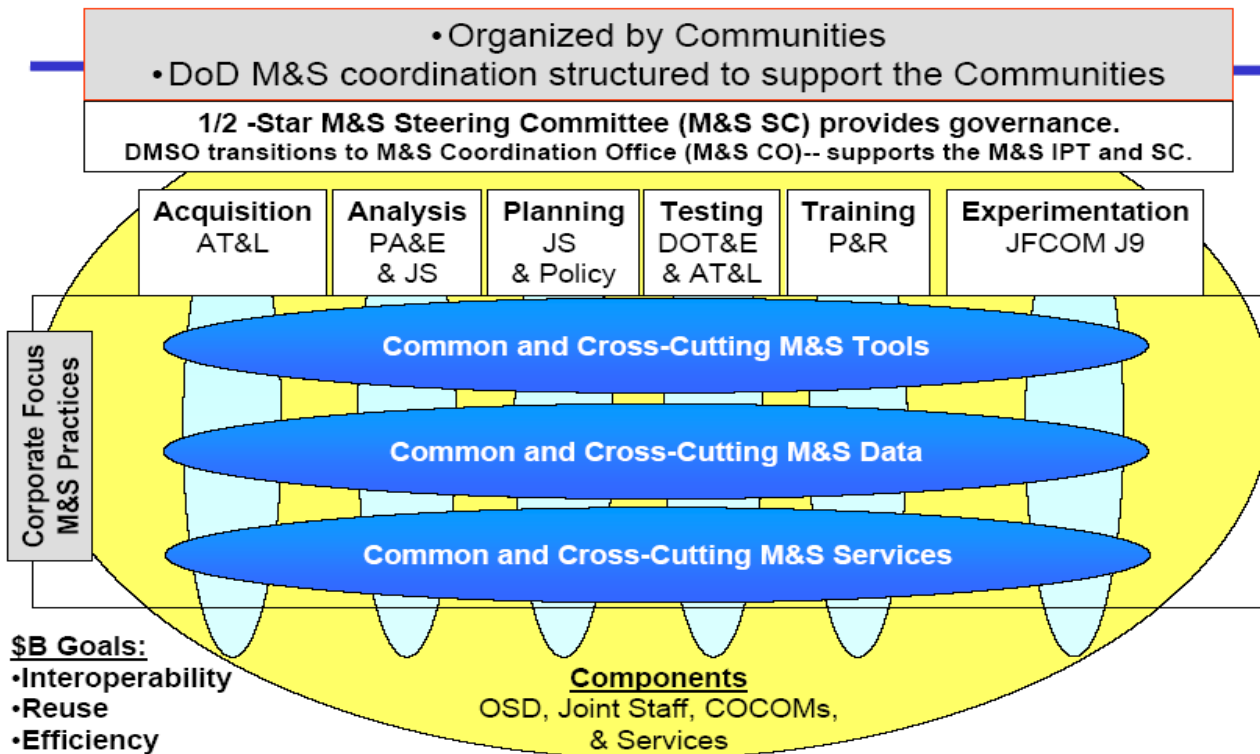
- Intentional, abrupt re-organization of M&S Management / Leadership in US DoD
 - Revelation at DMSC 2 May '06
 - Structure and process evolution ensued
- Continuing Investment Planning
 - E.g. Community workshops, consolidated plan(s)
- Responsive discussion / White papers* - cautionary-to-critical
- Enquiries by Industry groups (AMSC, SimSummit, others) about intention, process, implications
 - Meeting 29 October with Tri Chairs

* Public and Private correspondence



DMSC Briefing

The New M&S Framework





Motivation / Opportunity

- Tri Chair (and Steering Committee) interest to be informed of industrial perceptions expressed
- *SimSummit* capability to survey 'industry' considered
- *SimSummit* proposal submitted to Tri-Chairs (November 06)
- Approval to proceed (December 06)



Survey Intention

- SimSummit to act as impartial information-solicitation agent
- Support DoD
- Give voice to 'Industry'
- Provide mechanism for constructive criticism / advice
- Generate concrete input to stimulate and inform debate among participating stakeholder constituencies



Survey Concept / Protocol

- Open solicitation, liberal circulation
- Elective attribution
- Tri-Chairs as client – *SimSummit* as server
- Structured questionnaire
- Finite duration (31 March 07)
- Results used to inform diverse constituencies:
 - DoD Tri-Chairs and Steering Committee
 - Respondent-participants
 - *SimSummit* and other participating organizations
 - US M&S Congressional Caucus



Survey Implementation / Execution

- Web based front-end
- Hosted on *SimSummit* site at www.sim-summit.org, but accessible through any willing agent
- MS Access database back-end
- Positive-definite confirmation



[Organization](#) [Topical Agenda](#) [Program](#) [Participation](#) [Information](#)

Roundtable on the Future of: Modeling and Simulation

Technology, Profession, Industry, Marketplace

ORGANIZATION

- ★ [Overview](#)
- ★ [Process](#)

Topical Agenda

- ★ [Technology](#)
- ★ [Workforce Development](#)
- ★ [Industrial Development](#)
- ★ [Business Practice](#)

PROGRAM

- ★ [Plans](#)
- ★ [Activities](#)
- ★ [Actions](#)
- ★ [Events](#)
- ★ [Schedule](#)
- ★ [Calendar](#)
- ★ [Products](#)

PARTICIPATION

- ★ [Membership](#)
- ★ [Members](#)
- ★ [Join](#)
- ★ [Forum Discussion](#)

INFORMATION

- ★ [Related Links](#)
- ★ [References](#)
- ★ [News](#)
- ★ [Contact](#)

Welcome to the **SimSummit** Website



Members of the M&S Industrial Community-of-Practice:

The *SimSummit* round table, through its member organizations is soliciting, by prior agreement, on behalf of the **DoD Tri-Chair Committee on Modeling and Simulation**, input from Industry on Issues and Ameliorative Strategies for improving the Leadership and Management of DoD M&S Investment and Application

ENTER HERE TO PARTICIPATE IN THIS IMPORTANT SURVEY

Modeling and Simulation Profession, Industry, and Marketplace



CONTEXT, CIRCUMSTANCES and INSTRUCTIONS FOR SURVEY PARTICIPATION

- 1. Status** – Modeling and simulation (M&S) is a significant enabling technical capability for the United States Department of Defense (DoD). M&S is successfully applied to such domains as acquisition, analysis, planning, testing, training, experimentation, and operations
- 2. Intention** – The DoD is resolved to effect a “DoD M&S Management Reorganization”, seeking particularly to establish DoD M&S coordination structures and processes to support the M&S user-communities in creating common and cross-cutting M&S capabilities within and across the communities. To this end, information is being sought from industry regarding opportunities to improve simulation technology, workforce, and business practice within the DoD.
- 3. Conditions of solicitation** – This survey is being conducted pro-bono by the *SimSummit* round table (www.Sim-Summit.org), through its industry members as a service to the U.S. DoD Modeling and Simulation Steering Committee (DoD M&S SC). Information collected in response to this survey will be provided to the M&S SC for their information, analysis and deliberation. No limit has been placed on the period over which survey inputs will be accepted, but earlier responses are encouraged on grounds that the survey is not intended to persist indefinitely and inputs will be accorded visibility and due consideration roughly in the order of their receipt.
- 4. Terms of participation** – Participation in the survey is open to any individual or organization within the M&S industry. However, input to the M&S SC from DoD organizations or service components, and input related to special-interests of any organization, program, or system should be provided through other more appropriate channels.
- 5. Expected consequences** – The DoD M&S SC has agreed to receive the results of this survey and to accord to the information contained therein due consideration in the course of conceiving, implementing and executing the prospective DoD M&S Management structure and process. In addition, a summary report of the survey results will be prepared and provided to all participants who have provided sufficient personal identification (name, e-mail, and telephone number).
- 6. Procedure** – To participate in the survey, proceed to the next page and provide information on any or all of the questions. Respondents are welcome to provide multiple inputs, although only one input per database entry is supported. Multiple successive entries are invited.
- 7. User support** – Please report any difficulty in using this survey instrument, or forward any questions about the survey, its intention, operation, products, or consequences to: help@sim-summit.org.
- 8. Disclaimer** – This survey is not an activity of the United States Government or any of its departments agencies or subordinate components. The conduct of this survey neither imposes nor implies any responsibility on the part of the U. S. Government to act on submissions and the survey should not be construed as a solicitation or offering to buy or contract with any participant.

START SURVEY



Please provide POC information then respond to the **Survey Question** below by populating the associated database screens.

| | | |
|--|--|----------------------|
| *First Name: | Middle Initial: | *Last Name: |
| <input type="text"/> | <input type="text"/> | <input type="text"/> |
| *E-mail: | Phone: | |
| <input type="text"/> | <input type="text"/> | |
| Organizational Affiliation: | | |
| <input type="text"/> | | |
| “What is the most significant ‘remediable shortfall’ or ‘latent opportunity’ for improving leadership and management of Modeling and Simulation investment and utilization in support of the U.S. DoD Mission?” | | |
| Topic Name: | <i>How is your topic denoted – i.e. what is it called?</i> | |
| <input type="text"/> | | |
| Topic Explanation: | <i>Explain briefly what significance your topic has. What circumstances pertain? Differentiate it from other topics with similar names.</i> | |
| <input type="text"/> | | |
| Issue: | <i>What is at issue? What is wrong? What risk or potential harm may result from the circumstance you wish to see addressed?</i> | |
| <input type="text"/> | | |
| Opportunity: | <i>What warrants attention? What can be made better? How? What benefit do you see pursuant to successful Reduction of Risk or achievement of Opportunity?</i> | |
| <input type="text"/> | | |



| | |
|---------------------------|---|
| Topic Explanation: | <i>Explain briefly what significance your topic has. What circumstances pertain? Differentiate it from other topics with similar names.</i> |
| <input type="text"/> | |

| | |
|----------------------|---|
| Issue: | <i>What is at issue? What is wrong? What risk or potential harm may result from the circumstance you wish to see addressed?</i> |
| <input type="text"/> | |

| | |
|----------------------|---|
| Opportunity: | <i>What warrants attention? What can be made better? How? What benefit do you see pursuant to successful Reduction of Risk or achievement of Opportunity?</i> |
| <input type="text"/> | |

| | | | |
|---------------------------------------|---|------------------------------------|---------------------------------|
| Relevance: | <i>Select from choices below to indicate the potential scope of relevance of your suggestion. In which domains will benefit be derived?</i> | | |
| Acquisition: <input type="checkbox"/> | Testing: <input type="checkbox"/> | Tools: <input type="checkbox"/> | Other: <input type="checkbox"/> |
| Analysis: <input type="checkbox"/> | Training: <input type="checkbox"/> | Data: <input type="checkbox"/> | |
| Planning: <input type="checkbox"/> | Experimentation: <input type="checkbox"/> | Services: <input type="checkbox"/> | |

| | |
|----------------------|---|
| Action: | <i>What concrete action do you recommend? Who? What? When? Where? How? Why?</i> |
| <input type="text"/> | |

| | |
|----------------------|--|
| References: | <i>What documentation is relevant to your topic?</i> |
| <input type="text"/> | |

Submit



On behalf of the *SimSummit* round table, and the
DoD Modeling and Simulation Steering Committee (M&S SC)
We appreciate your participation in this important survey.

Please report any difficulty in using this survey instrument, or
forward any questions about the survey, its intention, operation, products, or
consequences to: help@sim-summit.org.

SUBMIT ANOTHER INPUT?

EXIT



Preliminary Results

- Response Characterization -

- Participation
 - Limitation - > 200, modest inhibition, finite interest (expectations?)
 - Diversity - fair
 - Characterization - Knowledgeable but particular
- Interests
 - Range - fair, though tempered by sensitivity to specific issues
 - Consistency - good to within strategic preferences
- Input
 - Concreteness - good
 - Diversity - commensurate with consistency of interests

Microsoft Access

File Edit View Insert Format Records Tools Window Help

Type a question

MSIssues : Table

| index | LastName | FirstName | Organization | email | TopicName | TopicExplanatio | MSIssue | MSOpportunity |
|-------|--------------|-------------|------------------|------------------|---------------------------|----------------------|--------------------|-------------------|
| 32 | Weber | Ralph | SISO, AMSC, S | ralph.weber@d | Providing guidance fo | The organization | Lack of underst | M&S partners ir |
| 33 | Lacy | Lee | Dynamics Rese | llacy@drc.com | Lack of simulation tec | Investments mus | Missed opportur | Increase fundin |
| 34 | Williams | James | Simigon, Inc | jimw@simigon.c | "Technology Push Do | Technology is a | There is a mind- | Is DoD prepare |
| 35 | Konwin | Crash | Booz Allen Ham | konwin_kenneth | No visibility into signif | There is no pub | Lack of Central | Give someone th |
| 36 | Gray | Maston | Alion Science | mgray@alionsc | Efficient and effective | Urgent and warf | Prioritize what is | Allocation of res |
| 37 | Okraski | Henry | Henry C. Okras | okraskih@prodi | Establish National Ind | It is impossible t | The magnitude c | DoD should cha |
| 38 | okraski | Henry | Henry C. Okras | okraskih@prodi | M&S as a Critical Tec | M&S Technolog | The R&D budget | At the DOD Lev |
| 39 | Belanich | James | US Army Resea | james.belanich@ | Modeling and Simulat | The requiremen | When a new ski | Differentiation b |
| 40 | Metz | Michael | Innovative Mana | mmetz@imcva.c | Establishing and Trac | Significance: M | The issue is ide | A methodology t |
| 41 | LEWIS | E TERRY | BINGHAMTON S | TLEWIS@BSC | The "CORE" of M&S, | If anyone really | There are many | Review the direc |
| 42 | Abbott | Jeff Abbott | OneSAF/SIMCI | jeff.abbott@us.e | Lack of focused leade | Lack of an IPT c | There is no clea | Every M&S syst |
| 43 | Hottenstein | Peter | Southwest Rese | phottenstein@sv | Commercialization of | The government | All COTS produ | Government tak |
| 46 | Harvey | Edward | | eharvey@alions | Market-based M&S m | The DoD has dc | The government | Spend time on c |
| 47 | Valle | Tony | SPARTA, Inc. | Tony.Valle@spa | Conceptual Modeling | Conceptual moc | DoD spends mu | Data and interfa |
| 48 | Waag | Gary | L-3 Communica | gwaag@cox.net | 1. Continued educatio | 1. DoD leaderst | What is at issue | First off, standa |
| 49 | Zimmerman | Philomena | US Army | philomena.zimm | I think the easiest way | In order to effec | There is no way | Attention must b |
| 50 | Ventro | Dr. Andrew | Consultant | aventro@workm | Use of Standards & P | Lack of utilizatio | Simulation softw | Make sure over |
| 51 | Valverde | Clinton | Northrop Grumm | clinton.valverde | From my vantage poi | | | Continue the sa |
| 52 | Pullen | John | George Mason U | mpullen@gmu.e | to achieve effective in | This goal is criti | Most of M&S ha | Systematic revie |
| 53 | Hartway | Bobby | AEgis Technolo | bhartway@aegi | Unified M&S Descript | In order to shar | At present, it is | Establishment o |
| 54 | Davis | Paul | RAND | pdavis@rand.or | Treatment of uncertai | M&S is typically | Analysis is supp | The solution is " |
| 55 | Truelove | Michael | SAIC | Michael.R.True | The recent restructuri | Only the names | The real change | Most M&S and t |
| 56 | Denton | Earle | Icon Systems | edenton@icons | Requirements Definiti | A complete syst | The issue here | The requiremen |
| 57 | Manchee | Dominic | SciSys Ltd | Dominic.Manch | International Collabor | The significance | SciSys has bee | The risks are tw |
| 58 | Stankiewicz | Stephen | Alion Science a | sstankiewicz@a | Government agency/l | Several governm | Issue 1. Govern | What warrants a |
| 59 | Hollenbach | James | Simulation Strat | jimh@simstrat.c | Requirements-based | There is no sha | Lacking a share | The current reo |
| 60 | Lindo | Wayne | AT&T Governme | wlindo@att.com | Analysis Data Model | The primary rea | The developmer | There are many |
| 61 | Hollenbach | James | | jimh@simstrat.c | DoD's M&S Business | By expecting the | If DoD wants cc | A requirements- |
| 62 | Cortes | Art | University of Ce | Cortes@ist.ucf. | Interoperability... | I think it is the th | Lack of tangible | Focus on a few |
| 63 | van Lier | Adrianus | Ministry of Defe | ac.v.lier@minde | Re-usability of Simula | Propriety issues | The issue with p | Reorganization |
| 64 | Schlesselman | Joseph | RTI (Contractor | joe.schlesselma | M&S data distribution | Applicable to vir | Lack of real-tim | Instead of using |
| 65 | Feldpausch | Francis | Rockwell Collins | ffeldpa@rockwe | High Level Direction | The M&S indust | The requiremen | Communication |
| 66 | Smith | Roddey | Northrop Grumm | roddey.smith@r | Common M&S Comp | Effective collab | Lack of availabi | Government as |
| 67 | Markley | Jonathan | Lockheed Marti | jonathan.d.mark | Visualization Enhance | Emphasis on vis | Current modelin | Improved fidelity |



Preliminary Results

- Determinations and Findings -

- TECHNOLOGY
 - Standards management
 - Tools
- WORKFORCE DEVELOPMENT
 - Cultivation of Community of practice
 - Outreach, training, sharing, commonality, ...
- INDUSTRIAL DEVELOPMENT
 - Codes and acquisition practice
- BUSINESS PRACTICE
 - Management – Stability, representativeness, technical currency, consistently authoritative advocacy
 - Investment – ‘needs’ vs. ‘requirements’ management; emphasis on: long-term, big issues, comprehensive import
 - COTS versus GOTS, versus Open source,... and standards
 - Asset sharing (re-use, interoperability, etc.)



Implications / Desiderata

- Unified, authoritative, accessible, informed leadership
- Efficient and participatory needs-solicitation and requirements-analysis
- Public, prompt, consensus-based investment-strategy specification and implementation
- Commitment to M&S as a critical enabling technology to achievement of military capability
- Effective collaboration with congress and other executive departments