



**A Roundtable on the Future of the
Modeling and Simulation
Profession, Industry,
and Marketplace**

**Thursday, April 15, 2010
9:00 - 12:00
Legacy South 2 Room**



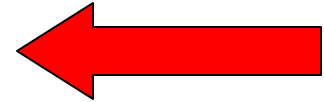
Observers welcome capacity permitting





Meeting Agenda

I. Introduction



A. Welcome and Introductions

B. *SimSummit* CONOPS Review

II. Meeting Discussion Topics

A. U.S. Congressional M&S Caucus

“Simulation Leadership Summit” Meeting

B. Topical-Agenda Discussion

C. M&S Community-of-Practice Influence

‘Campaign’

III. ACTION



Welcome from the Executive Committee

- National Training and Simulation Association (NTSA)
- Modeling and Simulation Society International (SCS)
- Simulation Interoperability Standards Organization (SISO)



Self-Introductions of Member and Observer Organizations

- Individual Name
- Organization Represented



SimSummit Concept

- What? - Round-table of preeminent M&S 'organizations'
- Who? – Interested organizations from Industry, Government and Academia ... facilitated by non-profit Societies
- When / Where? – Opportunistic overload of organized events
- Why? – Influence the future of the M&S Discipline, Profession, Industry, and Market
- How? – Collective, consensus-based discussion decision, and action



SimSummit Membership

EDUCATION

Arizona Center for Integrative Modeling and Simulation (ACIMS)

Auburn Modeling & Simulation Group (AMSG)

Georgia Tech – Modeling and Simulation Research & Education Center
(MSREC)

John Hopkins University – Applied Physics Laboratory (JHU/APL)

McLeod Institute of Simulation Sciences (MISS)

Old Dominion – Virginia Modeling, Analysis and Simulation Center (VMASC)

Naval Postgraduate School Monterey (NPS Monterey)

University of Alabama in Huntsville – Center for Modeling, Simulation and
Analysis (UAH CMSA)

University of Central Florida – Institute for Simulation and Training (IST)



SimSummit Membership

GOVERNMENT

DND Future Forces Synthetic Environment (FFSE)

DND Synthetic Environment Coordination Office (SECO)

Defence & Science Technology Laboratories Synthetic Environment Efforts

National Aeronautics & Space Administration (NASA)

NATO Modelling & Simulation Group (NATO-MSG)

National Institute of Standards & Technology (NIST)

UK Directorate of Analysis, Experimentation and Simulation (DAES)

U.S. Air Force Agency for Modeling and Simulation (AFAMS)

U.S. Army / Battle Command, Simulation & Experimentation Directorate

U.S. DoD / Modeling and Simulation Coordination Office (M&S CO)

U.S. Marine Corps Technology Division

U.S. Navy / Navy Modeling and Simulation Office (NMSO)



SimSummit Membership

PROFESSIONAL/INDUSTRIAL SOCIETIES

ACM Special Interest Group on Simulation (SIGSIM)

Alabama Modeling and Simulation Council (AMSC)

McLeod Modeling and Simulation Network (M&SNet)

National Center for Simulation (NCS)

National Modeling Analysis Simulation and Training Coalition (NMASTC)

National Training and Simulation Association (NTSA)

New England Modeling & Simulation Consortium (NEMSC)

Simulation Interoperability Standards Organization (SISO)

The Society for Modeling and Simulation International (SCS)



***SimSummit* Membership**

COMMERCIAL

The AEGIS Technologies Group, Inc.
The Boeing Company – Phantom Works
CACI, Inc.

CAE Professional Services

Computer Sciences Corporation (CSC)

Northrop Grumman

RAM Laboratories, Inc.

Raytheon Company

Science Applications International Corporation (SAIC)

Teledyne Brown Engineering

UK SeBA Forum



Power of a 'Topical Agenda'

TOPICAL AGENDAS:

- Sensitize communities to significant shared issues and opportunities
- Frame the domain of debate, decision, and action
- Provide 'hooks' to which organizations and constituencies can subscribe (common) interest
- Provide loci for programmatic commitment and coordination of cooperative effort

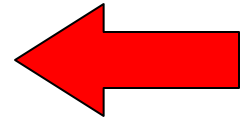


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“Leadership Summit” Meeting CONOPS, Consequences





Leadership Summit Meeting Prescriptive Guidance



National Modeling and Simulation Action Plan
Detailed Plan for 2010 Leadership Summit

Overview and Statement of Need

The Leadership Summits have built on the successes of the first with the passage of HR 187. Since that time, the Summits have increasingly addressed the national issues across domain areas, and across regions of the nation. Our nation now faces critical issues going forward to include education, healthcare, and energy. We know in this community of practice that modeling and simulation technologies can be effective tools in identifying, designing, and implementing solutions to these critical national problems. It is therefore time for a broad-based, national approach to the use and integration of modeling and simulation technologies into a national plan and initiative. It is time to bring together the diverse resources of this community of practice into a consolidated focused, national plan. Therefore, it is proposed that the next M&S Caucus Leadership Summit, to be held on 1 February 2010, establish an action plan for the nation.

Summit and Event Specific Objectives

Realizing the Promise of HR 187: A Call to Action

Keynote Speech Objectives

- Focus on outcome of national plan
- Lay the ground work for the four key areas: workforce development, technology, R&D, business practice, and industrial development
- Identify the key issues (see working group areas below) that should be addressed in a specific action plan (campaign)

Panel Focus and Objectives

A panel of experts representing the four domains identified above will speak to the critical needs to be addressed at a national level in these areas and will lay the groundwork for the working groups to lay out a specific action plan. The panelists will each be prepared to address the following:

- The specific actions that should be considered in the four content areas of the plan (the panelists will represent at least one of the content areas and address the specific considerations within that area)
- Suggestions on what could be accomplished the action/campaign plan

Working Group Objectives



National Modeling and Simulation Action Plan
Detailed Plan for 2010 Leadership Summit

The conference participants and speakers will be divided into four working groups. Each group will be assigned one of the major areas: workforce development, technology, R&D, industrial development and business practice.

Participants in each of the working groups will include the following:

1. A facilitator or two facilitators (e.g. committee members or other designated persons)
2. The panel speaker who addressed the particular topical issue the group was assigned
3. Invited working group members who have experience in addressing the issues of the group's topic; these will be persons who our committee has pre-invited and pre-assigned to the working group; this group may have some preliminary discussion prior to the event
4. Other participants in the conference who have chosen the particular topic of the working group

The group will discuss an action/campaign plan to address the top issues associated with the specifics of these four areas. The outcome of the working group will be:

- A specific set of actions
- Preliminary assigned for action (by organization of responsibility)
- Timeline or schedule for accomplishment

Potential specific actions for discussion can include:

- TECHNOLOGY
 - Body of Knowledge Index
 - Research Agenda
 - STEM
- WORKFORCE DEVELOPMENT
 - Certification (CMSP)
 - Curricular Development
- INDUSTRIAL DEVELOPMENT (Organizational Relations)
 - National Organization (Government Executive presence, Private Sector, National Charitable Foundation)
 - Regional/Society organizational roles
- BUSINESS PRACTICE
 - NAICS



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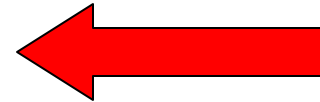
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B. Topical Agenda Discussion



1. M&S Technology

2. M&S Ed. and Workforce Development

3. M&S Industrial Development

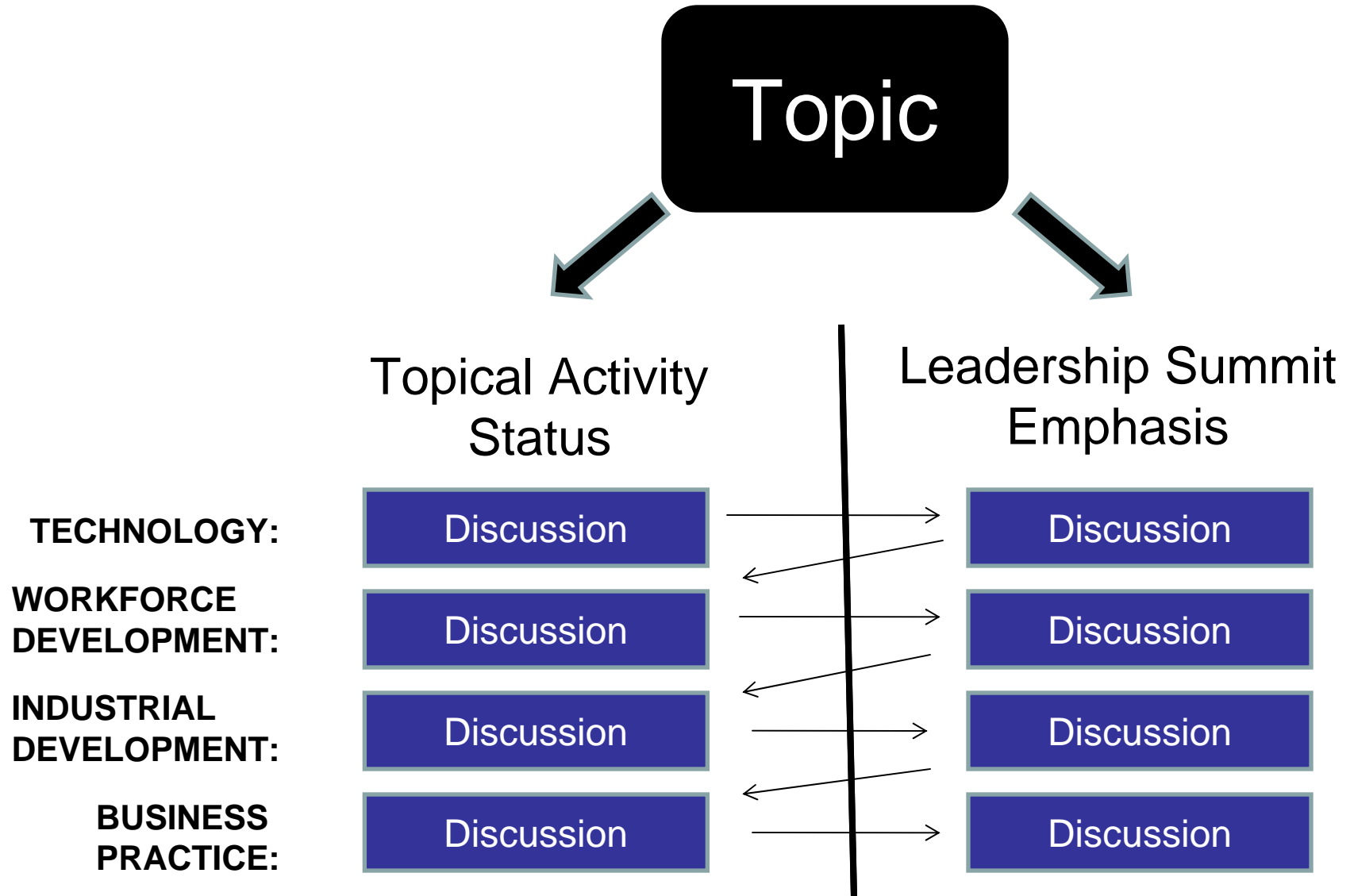
4. Economics and Business Practice

C. M&S Community-of-Practice Influence

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Discussion Sequence





(META) TECHNOLOGY Topics

- Research Agenda
- Body-of-Knowledge Index
- ...

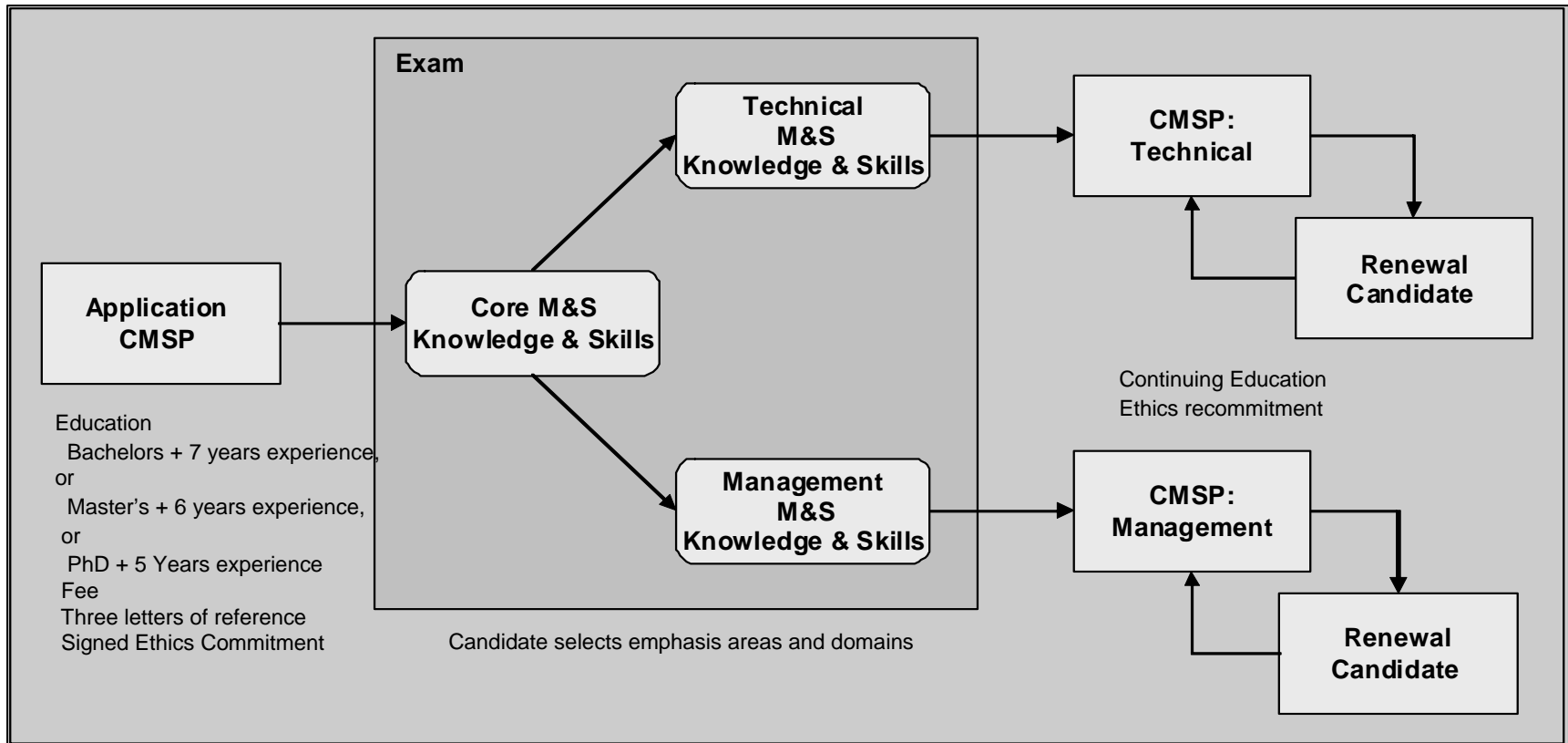


WORKFORCE DEVELOPMENT Topics

- Certified M&S Professional (CMSP) Program – Block 2
- STEM
- Curricular Development
- ...



Updated CMSP Process





INDUSTRIAL DEVELOPMENT Topics

- M&S Organizational Relations
 - Industry Groups
 - Academic Research Centers
 - Professional Societies
 - National or Geographic-Regional Groups
- Organization Development
 - New Organizations: e.g., “US National M&S Foundation”
- ...



BUSINESS PRACTICE Topics

- Industrial Classification
 - e.g., North American Industrial Classification System (NAICS)
 - E.g., EU?
- M&S Value Proposition
 - e.g., US OSD “ROI” Study, Investment management, etc.
 - ...
- ...



Federal Register

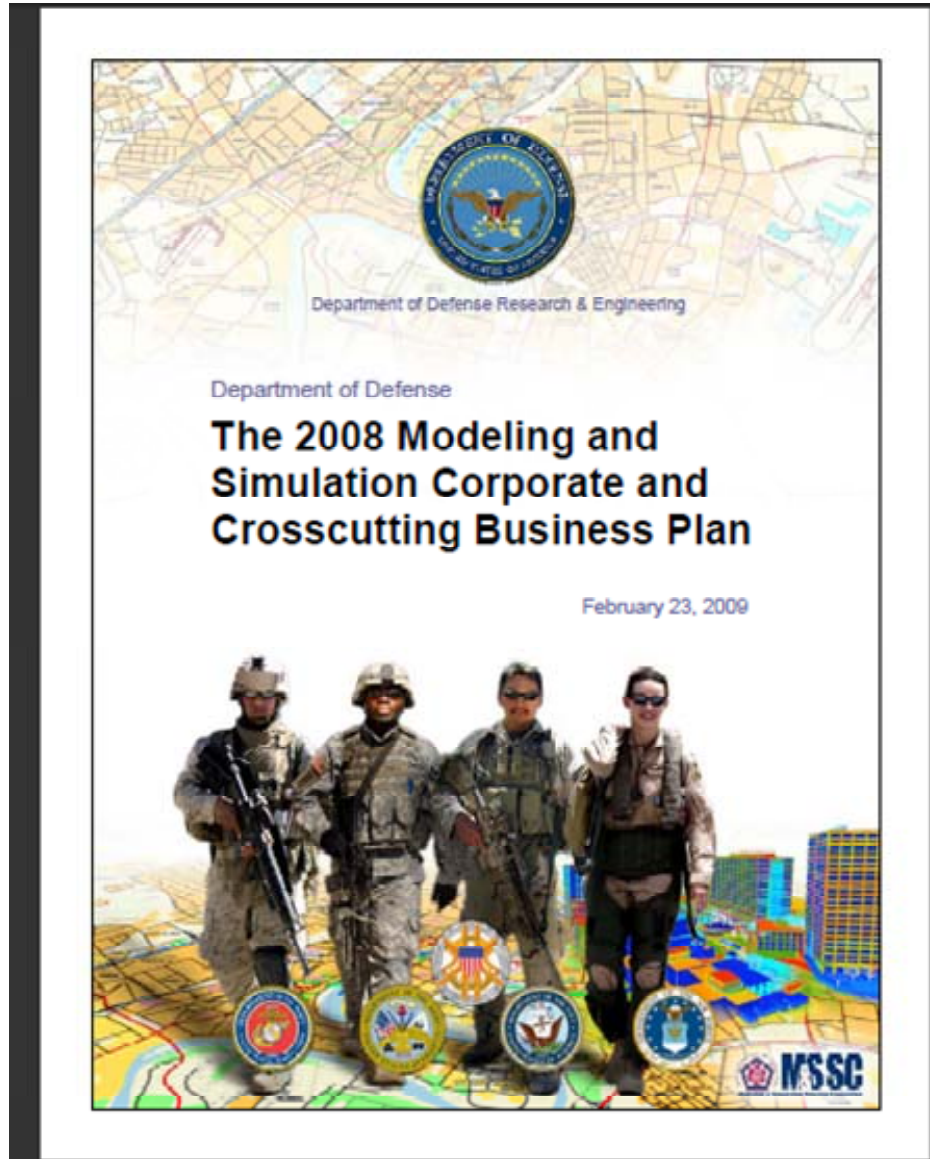
Wednesday,
January 7, 2009

Part II

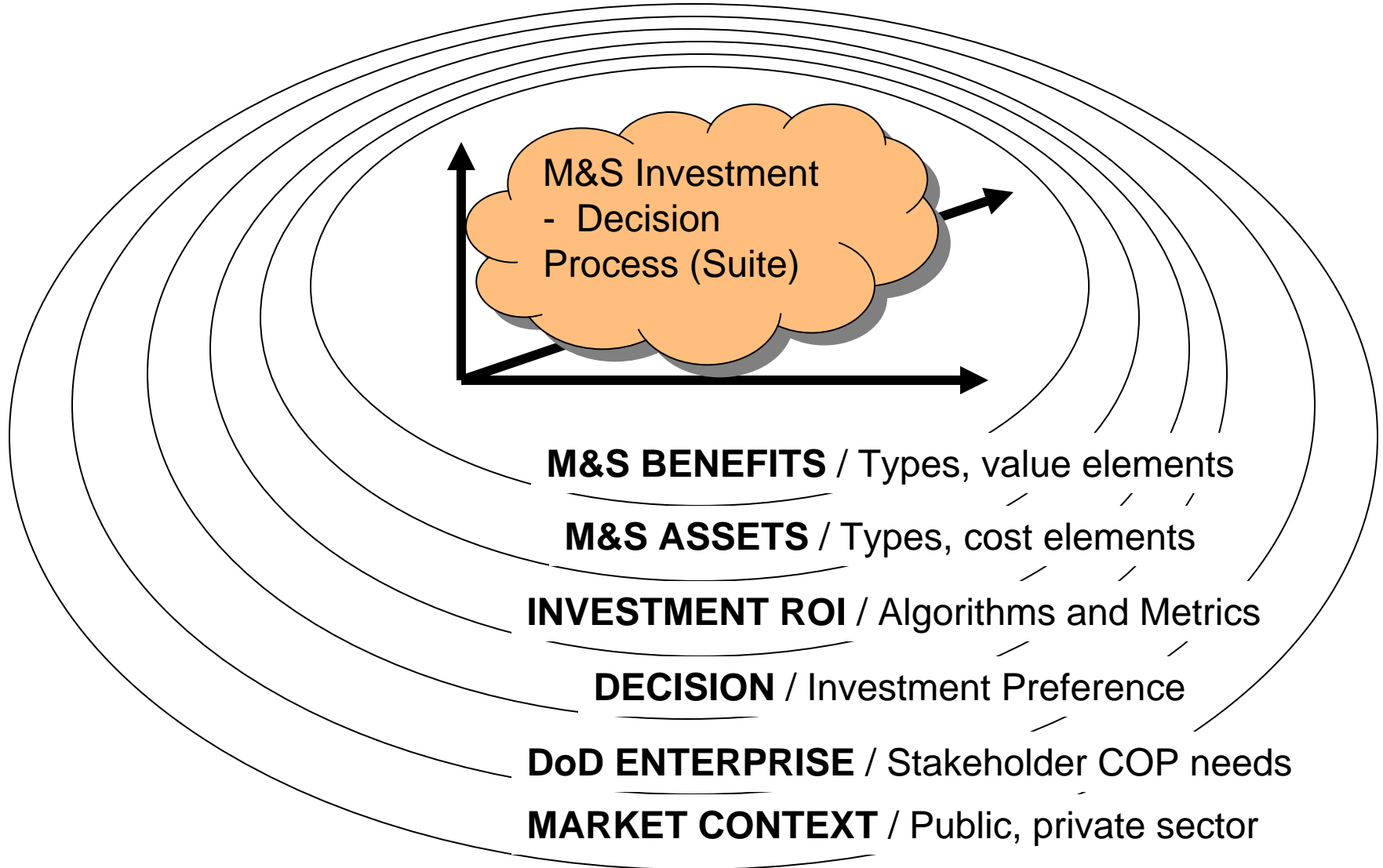
**Office of
Management and
Budget**

2007 North American Industry
Classification System (NAICS)—Updates
for 2012; Notice

DoD “Business Plan”



DoD M&S ROI Study Context





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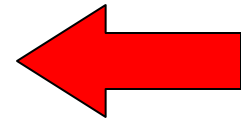
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III. ACTION



Leadership Summit Consequences → 'Campaign'

- Program Plan (1-3 years)
- Broad-based subscription
- Coordinated activities
- Collaborative effort
- Collective results



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