

# Simulation Based Acquisition (SBA)

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presented to

**Defense Modeling and Simulation Office (DMSO)**

**DMSO Industry Days**

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# SBA Industry Steering Group

## AB Technologies

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## A&T Inc

Doug Clark

## Ball Aerospace & Tech.

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## Boeing

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## Dynetics

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## Innotiv Inc.

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## Lockheed Martin

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## Northrop Grumman

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## Optimetrics

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## Original Sim, INC.

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## Simulation Strategies Inc

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## SRI International

Greg Wilcox

## TASC

Hal Jones

## Trident Systems

Nick Karangelen

## United Defense

Gordon Sayre

Richard Staiert

## Vanguard Research

Gordon Evans

## Visicom Laboratories

Greg Wilcox

# “3 for 1” Industry Representation

- 1** Acquisition Division of the Modeling & Simulation Industry Steering Group (DMSO, DoD Acquisition Council)
- 2** Modeling and Simulation Committee of the NDIA System Engineering Committee (DTSE&E)
- 3** Modeling and Simulation Committee of the Affordability Task Force (Defense Systems Affordability Council (DSAC))

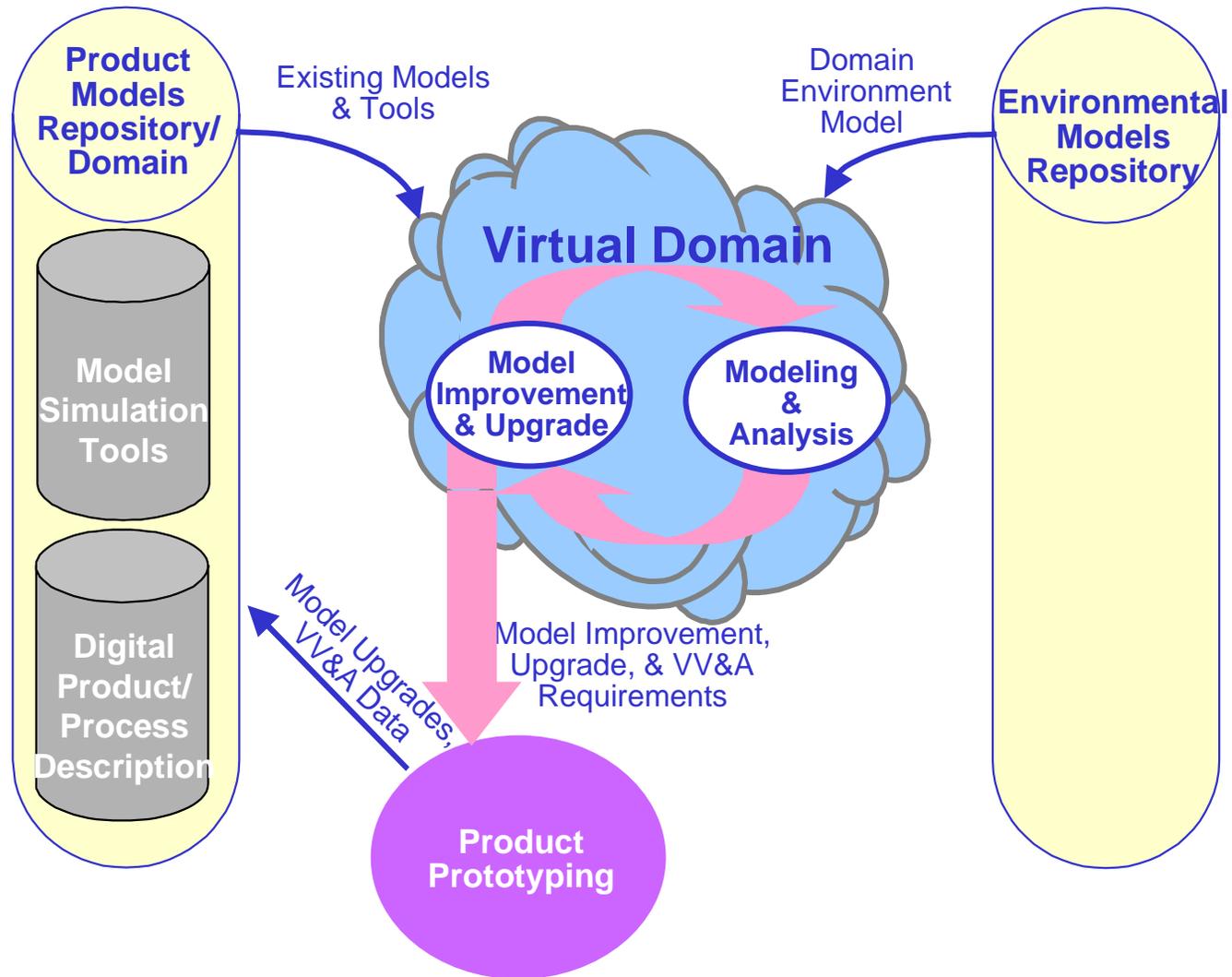
# SBA “Defined”

- Revolutionary Acquisition Initiative
  - Emphasizes Modeling & Simulation as a Primary Tool
  - M&S Applied and Sustained Throughout the Life Cycle
  - Virtual Life Cycle Product Validation Before Production
  - Facilitates Tool Re-use Across Programs & Phases
  - Enables Iterative Development and IPPDs
- Major Impact On T&E Culture and Purpose
  - Digital Representations are Tested
  - Physical Test Articles Are Primarily For Model Verification and Validation
- Major Paradigm Changes in Three Domains
  - Culture, Process, Environment

# SBA ISG Accomplishments

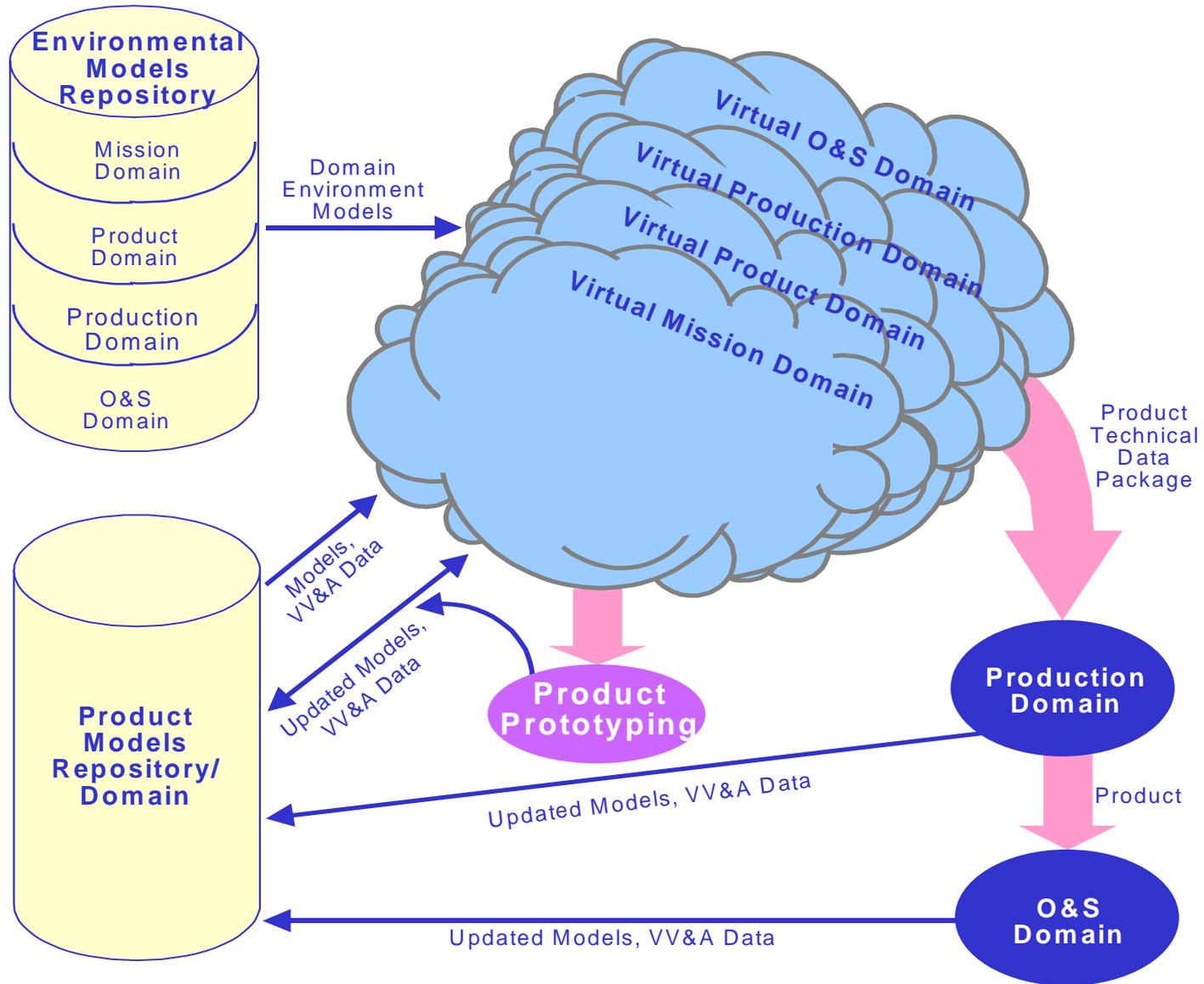
- Hosted 3-day Conference on SBA in Dallas, November '98
- Supported Dod Policy Initiative Requiring Release of M&S Used in Source Selections
- Critiqued the Proposed Roadmap of the SBA Task Force
- Briefed Recommendations to the Acquisition Council and NDIA
- Released the SBA Functional Description Document (FDD), February 1999
- Supported Plans to Form the SBA ADSEG
- Initiated Action Supporting the JSF SBA Initiative
- Discussing Plans to Support the Navy's SBA Initiative

# Product Development in the Virtual Domain



Source: SBA Functional Description Document version 1.1, SBA Industry Steering Group, 24 February 1999

# A View of the SBA Process



Source: SBA Functional Description Document version 1.1, SBA Industry Steering Group, 24 February 1999

# SBA ISG 1999 Status & Plans

- ▶ ISG/NDIA Deferred Scheduling a 1999 SBA Conference Pending Resolution of OSD Re-organization and SBA Action Assignments
  - Will Revisit in July
  
- ▶ Consulting/Advice to the JSF Program Office (Contingent on JSF Funding to Accomplish Necessary Supporting Work Internal to the JSF Program)
  - Digital Product Description Definition/Development
  - Operational Architecture Development
  
- ▶ Support to the Navy's SBA Initiative
  - Tasks TBD

# SBA ISG Contact Info

- SBA Web Site

<http://www.msosa.dmsso.mil/sba/>

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