

Simulation Based Acquisition (SBA)

Steve Olson, Raytheon

Chairman, SBA Industry Steering Group (ISG)

steve_olson@fallschurch.esys.com

presented to

Defense Modeling and Simulation Office (DMSO)

DMSO Industry Days

3 June 1999

SBA Industry Steering Group

AB Technologies

Jona McKee

A&T Inc

Doug Clark

Ball Aerospace & Tech.

Vance Saunders

Boeing

Michael Johnson

Reuben Jones

Jack Shelnut

CACI

Klaus Dannenberg

CTC

Frank Cooper

Draper Lab

Seamus Touhy

Dynetics

Jeff Fogle

Innotiv Inc.

Jim Augins

JTPA

Ted Parker

Lockheed Martin

Beau Beauregard

Margaret Herald

David Kellogg

Northrop Grumman

Jack Gaudet

Optimetrix

Frank Wysocki

Original Sim, INC.

Carl Byers

Pacific Sierra

Floyd Adagio

Pratt & Whitney

Paul Sheridan

Raytheon

Randy Boys

Steve Olson

RLEngwall Assoc.

Dick Engwall

SAIC

Heikki Joonsar

Dave Thomen

Simulation Strategies Inc

Jim Hollenbach

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

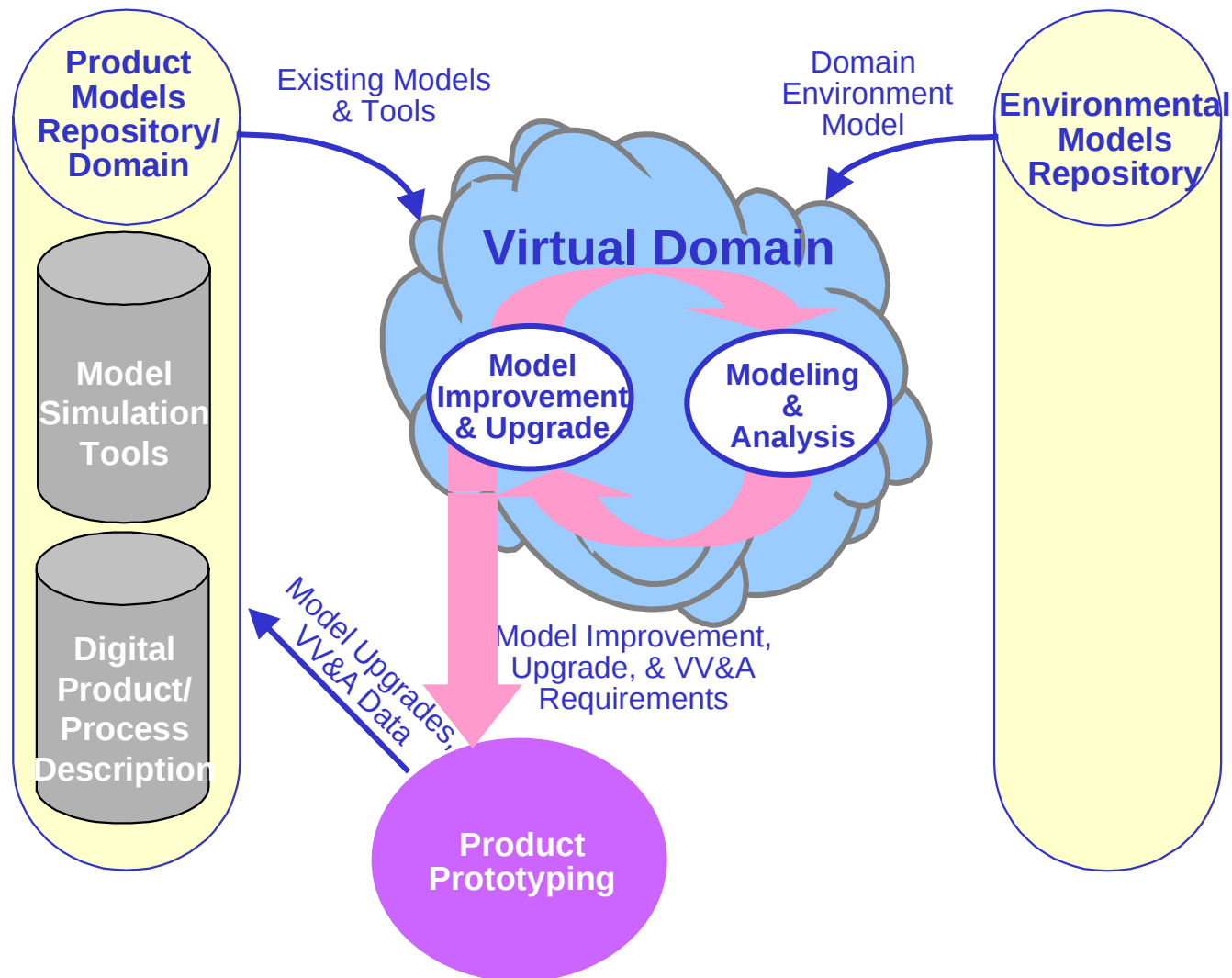
- Major Paradigm Changes in Three Domains

- Culture, Process, Environment

SBA ISG Accomplishments

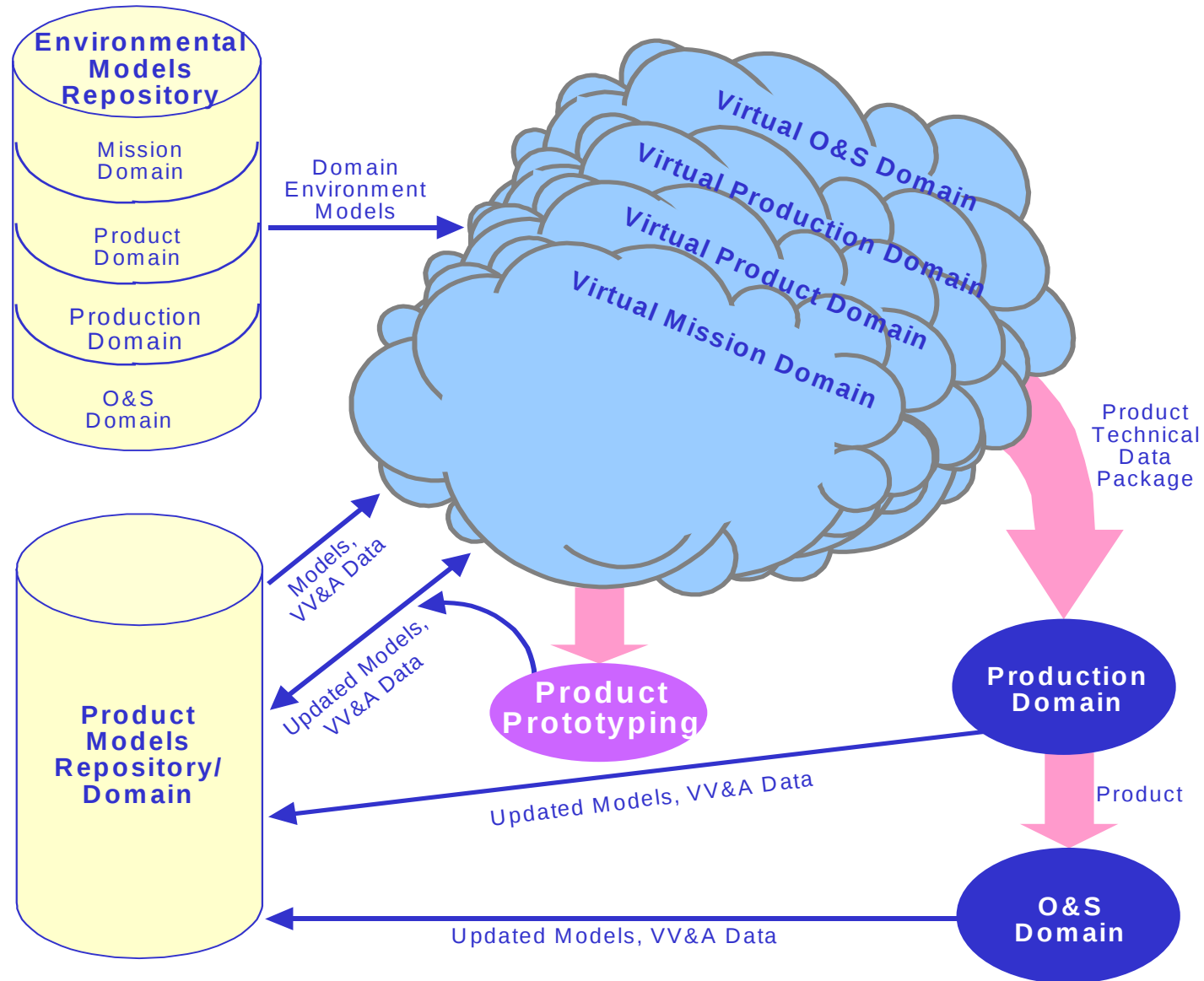
- Hosted 3-day Conference on SBA in Dallas, November '98
- Supported Dod Policy Initiative Requiring Release of M&S Used in Source Selections
- Critiqued the Proposed Roadmap of the SBA Task Force
- Briefed Recommendations to the Acquisition Council and NDIA
- Released the SBA Functional Description Document (FDD), February 1999
- Supported Plans to Form the SBA AD SG
- 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/>

- Steve Olson

steve_olson@fallschurch.esys.com

- Dave Thomen (reflector)

thomend@mail.etas.com