



Simulation Based Acquisition

Air Force Materiel Command View

DPAAS SBA Conference
7 Jun 00

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PURPOSE

DPAAS SBA Conference

Provide overview of AFMC SBA...

- Vision**
- Responsibilities**
- Management Approach**



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Provide overview of AFMC SBA...

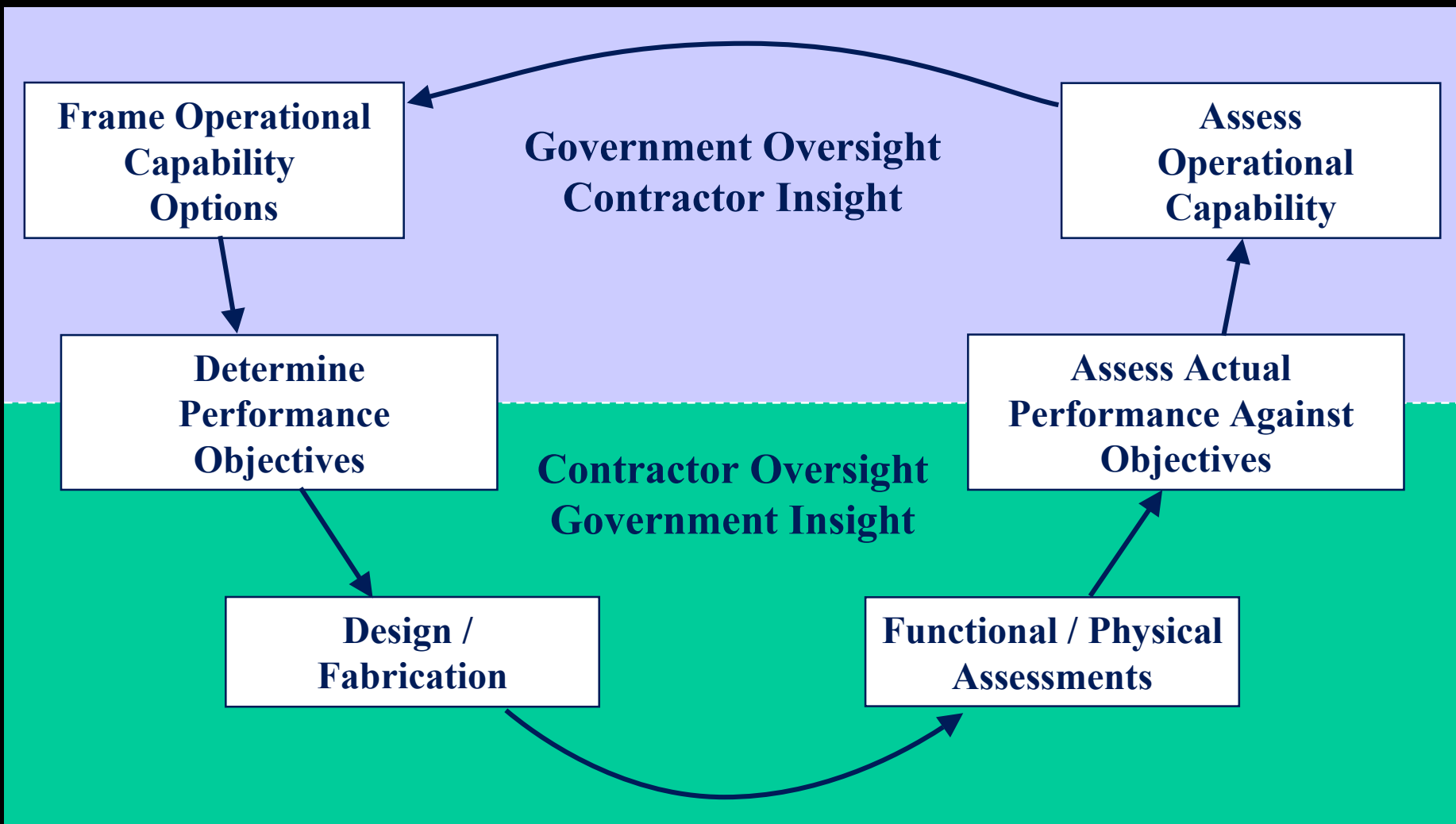
- **Vision**
- **Responsibilities**
- **Management Approach**



Vision

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Acquisition & Sustainment Construct





Vision

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Integrated collaborative use of M&S technology that improves our ability to acquire and sustain desired operational capabilities

- Integrate at multi-command, multi-center, multi-program**
- Develop tool set for decision makers**
- Support reduced acquisition cycle times**
- Support reduced total ownership costs**



Vision

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- **Integrate activities**
 - All AFMC centers in collaborative environment
 - Virtual, constructive and live integration
 - Interface with resource repositories
- **Develop decision tool set**
 - Include acquisition & sustainment models
 - Build on Standard Toolkit
 - Assess system and program performance



Vision

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- **Support reduced acquisition cycle times**
 - Focus on “capability definition”
 - Track contribution to acquisition cycle time reduction
- **Support reduced total ownership costs**
 - Incorporate Reduction in Total Ownership Cost (RTOC)
 - Track contribution to reduced total ownership costs



Vision

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SBA Building Blocks

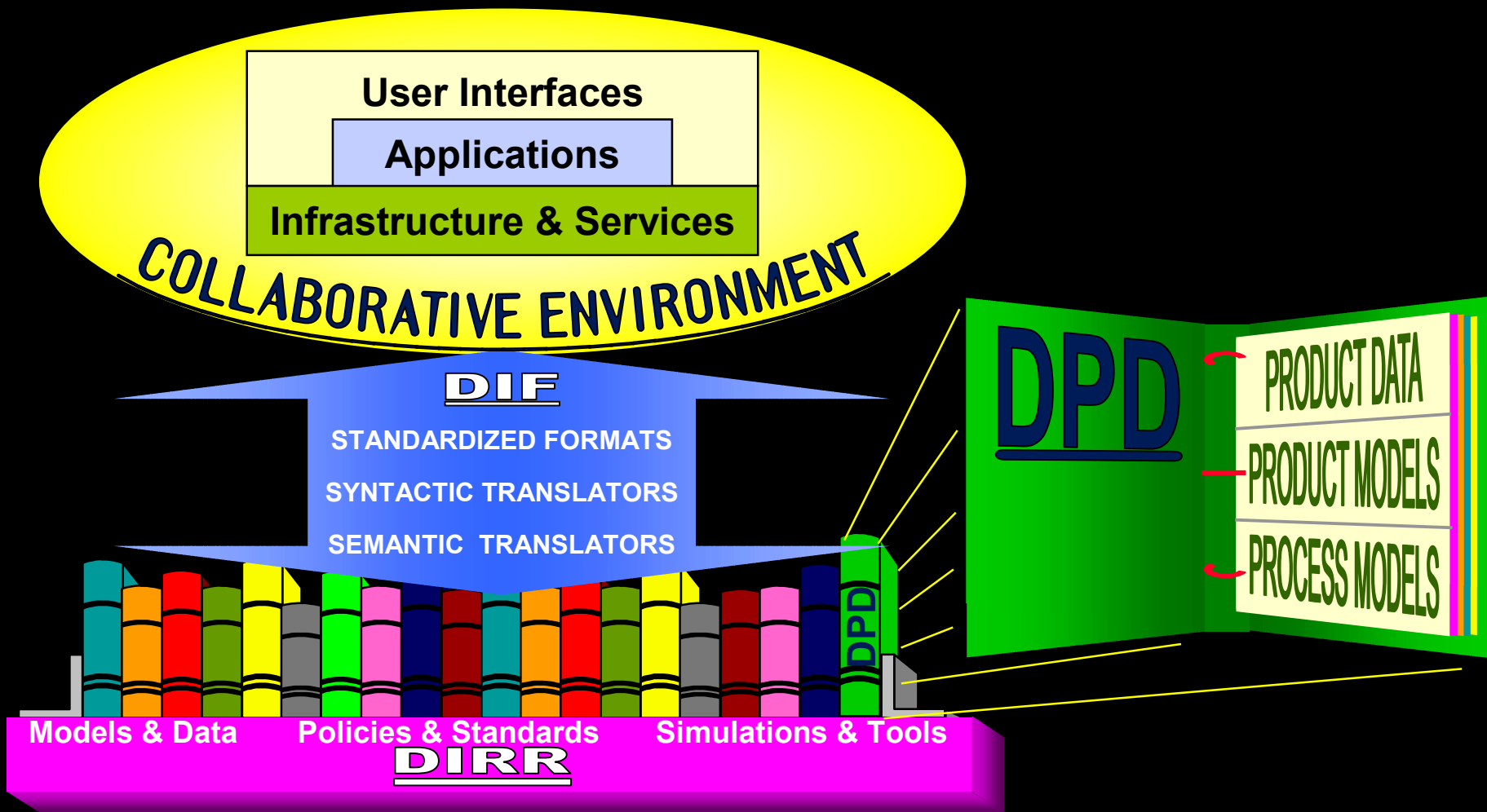




Vision

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SBA Building Blocks





Vision

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Match DPD growth to required CE tasks

Pre-Milestone 0	Concept Exploration	Prog Def & Risk Reduct	Engineering & Manufacturing Dev	Production Deployment Support
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Collaborative Environment Tasks:

<ul style="list-style-type: none"> • Capability Assessments • Capability Definition • Affordability Estimates 	<ul style="list-style-type: none"> • <u>All Preceding</u> • Acq Strategy • CAIV • System Threat Assessment 	<ul style="list-style-type: none"> • <u>All Preceding</u> • Prototyping • Virtual Testing • COPT • Design • CAIV • DT&E 	<ul style="list-style-type: none"> • <u>All Preceding</u> • Design Update • Virtual Manufacturing • Fabrication • Sustainment Planning 	<ul style="list-style-type: none"> • <u>All Preceding</u> • Production • OT&E • Training & Tactics • Sustainment • P3I Studies
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DPD Contents:

<ul style="list-style-type: none"> • Models: Analytical 	<ul style="list-style-type: none"> • Models: Analytical • STAR • Capability Documents 	<ul style="list-style-type: none"> • Models: Analytical Engineering • STAR • Design Data • Capability Documents 	<ul style="list-style-type: none"> • Models: Analytical Engineering Manufacturing Test • STAR • Design Data • Capability Documents 	<ul style="list-style-type: none"> • Models: Analytical Engineering Manufacturing Test Sustainment • STAR • Design Data • Capability Documents
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RESPONSIBILITIES

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AFI 16-1002 “M&S Support to Acquisition”

- Implements Air Force M&S policy as applied to acquisition
- Supercedes SAF/AQ Policy 97A-004 (“Money Memo”)
- Policy framework for implementing SBA
- Three basis tenets
 - » Master planning
 - » Corporate contributions
 - » Single manager contributions



RESPONSIBILITIES

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Master Planning & Corporate Contribution

- **AFMC will:**
 - Develop the AF Acquisition M&S Master Plan
 - Assist programs in developing strategies & support plans
 - Advocate for funding of acquisition-related M&S requirements
 - Support & fund M&S infrastructure development & support
- **Operating Commands will state M&S requirements**
- **SAF & HQ USAF will provide direction and funding**



RESPONSIBILITIES

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Single Manager Contribution

- **Develop, maintain and brief their M&S Strategy**
- **Develop and maintain M&S Support Plan**
- **Establish and maintain required product descriptions**
- **Reuse M&S resources**
- **Responsible for V&V of program-developed M&S**



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MANAGEMENT APPROACH

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- **AFMC/CV is AFMC principal on MS&A Caucus**
 - AFMC/CV provides AFMC-wide guidance to centers
- **AFMC/DR is AFMC principal on MS&A GOSG**
- **AFMC Centers/single managers**
 - Cooperate on DPD & SBA infrastructure implementation
 - Participate on MS&A GOSG (and its subgroups)



MANAGEMENT APPROACH

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- **AFMC/DR validates SBA Infrastructure Program requirements with Center CCs and SAF/HQ USAF**
 - ESC is command lead for SBA Infrastructure Program

- **AFMC/DR maintains command MSIO (AFMC/DRX-MSIO)**
 - AF Acquisition M&S Master Plan lead
 - AFMC lead for AF M&S Master Plan inputs
 - M&S strategy development lead
 - M&S support plan template lead



MANAGEMENT APPROACH

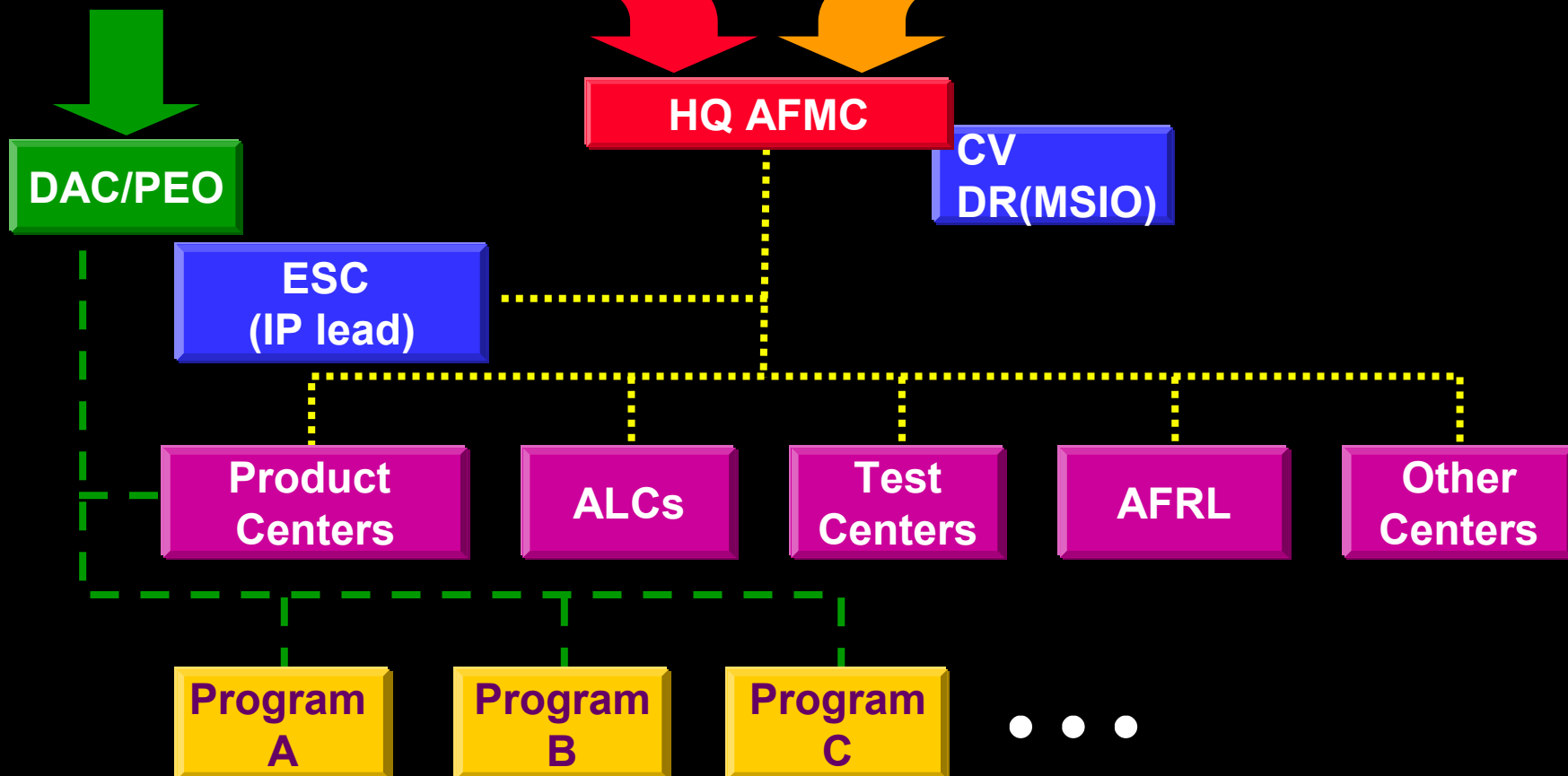
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MS&A Caucus & GOSG

Program Funding
and Direction

Corporate Direction

Corporate Funding





Way Ahead

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- **Continue to support MS&A Caucus and GOSG**
- **Develop/coordinate AF Acquisition M&S Master Plan**
- **Develop M&S Support Plan template**
- **Develop criteria for selecting initial DPDs and secure direction and funding for selected DPDs**
- **Continue to populate AF M&S Resource Repository**
- **Advocate SBA Infrastructure Program**
 - **AFMC Center Commanders' Conference--Aug 00**
 - **02 BES proposal**