

Supporting the Implementation of Joint Capability Areas (JCAs)

***Briefing to MORS Capability-based Planning Conference
April 4, 2006***

The Task

- From the SecDef's memo, dated May 6, 2005...

“OSD (PA&E) shall apply the capabilities lexicon to the program and budget databases as appropriate prior to the FY 08-18 POM cycle.”

What We Have Done So Far

— Program Analysis and Evaluation —

- ✓ Developed a method to assign JCA attributes to Program Elements (PEs)
 - Concurrence from Services, SOCOM, and Joint Staff
- ✓ Limited the structure to Tier 1 JCAs
 - Appropriate for strategic-level considerations
- ✓ Applied to “Forces” PEs only (roughly 50% of TOA)
 - Infrastructure codes are sufficient to describe the other 50%
- ✓ Allowed each “Forces” PE to have up to 5 families of JCA attributes
 - JCAs overlap and resources are counted multiple times
- ✓ Created a living data construct
 - Will require an attribute owner to manage the construct as JCAs and PEs change over time

Programming and Fiscal Economics Division = 2

Tier 1 Joint Capability Areas

— Program Analysis and Evaluation —

- Joint Battlespace Awareness
- Joint Command and Control
- Joint Network Operations
- Joint Interagency Coordination
- Joint Public Affairs Coordination
- Joint Information Operations
- Joint Protection
- Joint Logistics
- Joint Force Generation
- Joint Force Management
- Joint Homeland Defense
- Joint Strategic Deterrence
- Joint Shaping & Security Cooperation
- Joint Stability Operations
- Joint Civil Support
- Joint Non-Traditional Operations
- Joint Access & Access-denial Ops
- Joint Land Control Operations
- Joint Maritime/Littoral Control Ops
- Joint Air Control Operations
- Joint Space Control Operations

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Applying the JCAs to Programming Data

— Program Analysis and Evaluation —

- The JCAs pose some analytical problems—
 - They are highly overlapped (e.g. Battlespace Awareness contributes to Air Operations, Land Operations, and many other areas)
 - Many DoD capabilities can contribute to multiple JCAs (e.g. Attack Submarines can be used for Land Operations, Maritime/Littoral Operations, and Battlespace Awareness)
 - They address “forces” capabilities fairly well, but lump most “infrastructure” functions (roughly half the TOA) into two JCAs (Force Generation and Force Management)
- The JCAs describe capabilities--
 - Mapping PEs to JCAs requires judgments as to “how PEs will be used” by the Joint Force- this can change as concepts, doctrine and threats evolve
 - Unavoidable subjective component to the JCA mapping
- The Program Elements also have some issues—
 - Widely varying scope and content
 - Limited descriptive information

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Preliminary “Forces” Categories and Values

— Program Analysis and Evaluation —

<p>Role</p> <p>Operational Force-wide support</p> <div style="background-color: #800080; width: 100px; height: 100px; margin: 5px 0;"></div> <p>Other</p> <p>Primary Operating Environment</p> <p>Multiple Environments Air Air (Sea based) Land Sea Space</p>	<p>Function</p> <div style="background-color: #800080; width: 100px; height: 15px; margin-bottom: 5px;"></div> <div style="background-color: #800080; width: 100px; height: 15px; margin-bottom: 5px;"></div> <p>Civil affairs</p> <div style="background-color: #800080; width: 100px; height: 15px; margin-bottom: 5px;"></div> <p>Force/effects application</p> <p style="padding-left: 20px;">Lethal</p> <p style="padding-left: 20px;">Non-lethal</p> <div style="background-color: #800080; width: 100px; height: 100px; margin-top: 10px;"></div> <p>Force Resource Adjustment</p> <p>Other</p>	<p>Effects Target</p> <p>Multiple Effects Targets</p> <p>U.S./Coalition military forces and capabilities</p> <p>Adversary military forces and capabilities</p> <p>Non-military adversaries/capabilities</p> <p>Emerging threats and technologies</p> <p>WMD and WMD capabilities</p> <p>General populations</p> <p>Other</p> <p>Effects Environment</p> <p>Multiple Environments</p> <p>Air</p> <p>Cyberspace</p> <p>Land</p> <p>Sea</p> <p>Space</p> <p>Capability Date</p> <p>Current</p> <p>Future</p>
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- Joint Capability Area

Each Program Element can have five sets of roles, functions, effects targets/environments, and effectiveness values

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What We're Ready To Do

— Program Analysis and Evaluation —

- OSD will be able to do rudimentary analysis against the FY 2007-2011 FYDP as a baseline by May 2006
- Components will be able to use JCAs to *characterize* their FY 2008-2013 FYDP/BES submissions
- OSD will be able to use JCAs in support of analysis during the FY 2008-2013 Program and Budget Review

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Beginning a Notional JCA Excursion

— Program Analysis and Evaluation —

- Step 1: Identify the capability area(s) of interest

Total PB 07 \$B (Notional)	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12
Joint Stability Operations	50.2	55.2	60.7	66.8	73.5	80.8
Joint Land Operations	65.7	69.0	72.4	76.1	79.9	83.9

- Step 2: Identify the program elements in each capability area

Joint Stability Operations PE Detail (Notional)

Total PB 07 \$B	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12
220101	2.5	2.8	3.0	3.3	3.7	4.0
220102	9.5	10.5	11.5	12.7	14.0	15.4
220103	11.5	12.7	14.0	15.4	16.9	18.6
220104	3.5	3.9	4.3	4.7	5.1	5.7
220108	7.5	8.3	9.1	10.0	11.0	12.1
220109	8.5	9.4	10.3	11.4	12.5	13.7
220300	7.0	7.7	8.5	9.4	10.3	11.3
	50.2	55.2	60.7	66.8	73.5	80.8

Joint Land Operations PE Detail (Notional)

Total PB 07 \$B	FY 07	FY 08	FY 09	FY 10	FY 11	FY 12
220108	7.5	8.3	9.1	10.0	11.0	12.1
220109	8.5	9.4	10.3	11.4	12.5	13.7
220300	7.0	7.7	8.5	9.4	10.3	11.3
220600	2.1	2.2	2.2	2.3	2.3	2.3
220601	8.1	8.3	8.5	8.6	8.7	8.9
220602	9.8	10.0	10.2	10.4	10.6	10.7
220603	3.0	3.1	3.1	3.2	3.2	3.3
220604	6.4	6.5	6.7	6.8	6.9	7.0
220605	7.2	7.4	7.6	7.7	7.8	7.9
220606	6.0	6.1	6.2	6.3	6.4	6.5
	65.7	69.0	72.4	76.1	79.9	83.9

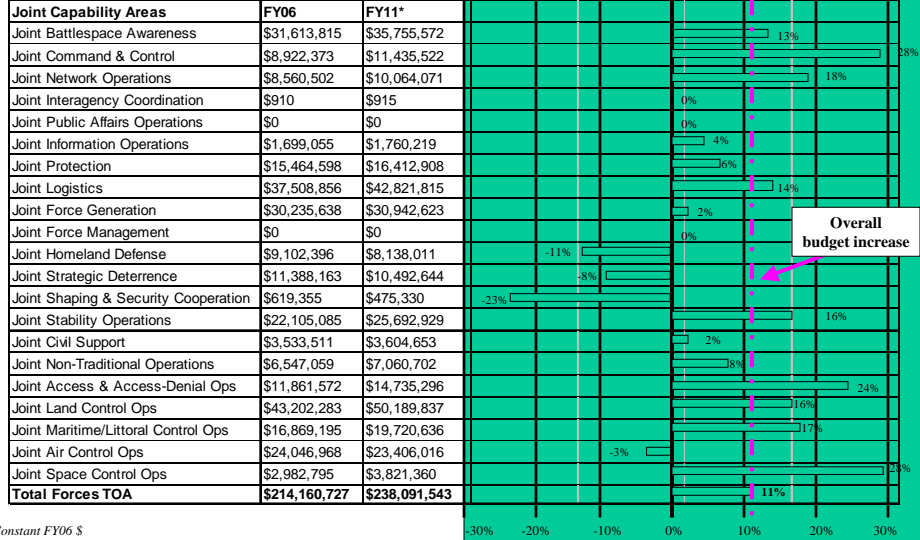
- Step 3: Proceed to detailed evaluation of program elements

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Notional Joint Capability Areas – FY06 vs. FY11

— Program Analysis and Evaluation —

(\$ in Thousands)



*Constant FY06 \$

With This JCA Application, You Can...

— Program Analysis and Evaluation —

- Identify the portfolio of PEs that contribute to each JCA, and the resources required to field that portfolio
- Identify PEs that contribute to multiple JCAs
- Consider the impact of changes to a program across multiple JCAs
- Tee up program and resource trades within and across JCAs
- Change JCA definitions and assignments over time

But you can not...

- Use it to account for or report DoD's budget/program
 - Only applied to 50 % of TOA, and counts portions of TOA multiple times
- Assess the sufficiency of DoD's capabilities in any area
 - Requires operational modeling to determine "how much is enough?"

How You Can Help...

— *Program Analysis and Evaluation* —

- Request access to the DPD-DW
URL: <https://dpd.pae.osd.smil.mil>
- Use this JCA-to-resources paradigm!
- Tell us...
 - What works and what doesn't
 - What you think of the mappings
 - How this helps you
 - How we can improve the construct

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