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THE JOINT DISTRIBUTION PROCESS ANALYSIS CENTER (JDPAC): BACKGROUND & CURRENT CAPABILITY

Military Operations Research Society Symposium

Working Group 18

12 June 2007

(Lt Col Dave Van Veldhuizen, AMC/AA9)





OUTLINE

- **JDPAC Background**
- **Current Status/Future Plans**
- **Current JDPAC Taskings**
- **Questions**





BROAD JDPAC BACKGROUND

- **Distribution Process Owner's (DPO's) Vision: "Create/Implement World-Class Global Deployment & Distribution Solutions"**
- **DPO's Role: "Improve Efficiency," "Develop DoD Distribution Process"**
- **Commander's Guidance for Joint Deployment & Distribution Enterprise (JDDE): "Increased JDDE Partners' Coordination/Synchronization"**
- **Commander's Guidance for JDPAC: "Enhance Ability to Make Fact-Based Decisions"**
- **JDPAC CONOPS: "Provide Analytical Capabilities & Joint Planning Support"**



JDPAC “101”

Purpose:

- ❑ “Serve as Analytic Engine for USTRANSCOM & Component Commanders”
- ❑ Integrate Analytic Capabilities of USTC J5/4, SDDC-TEA & AMC A9
- ❑ Improve Focus on Joint Operations & Provide Analytical Solutions
- ❑ Support USTRANSCOM Future Operations Center
- ❑ Leverage JDDE Partners’ Analytic Capabilities

Mission: To Provide Analysis and Engineering Support to Improve the Nation’s Ability to Move and Sustain the Joint Force and Operate the JDDE

Core Functions:

- ❑ Global Distribution Network and Engineering Assessments
- ❑ Analytically Driven Operational Courses of Action
- ❑ Joint Capability Analysis to Inform Programmatic Decisions
- ❑ Support Components’ Title 10 Programmatic Analysis Responsibilities
- ❑ Systems Integration and Data Management
- ❑ JDDE Analysis/Global Distribution Performance Assessment
- ❑ Futures/Transformation Analysis

*Balancing
Operational
Art & Science*

JDPAC Provides Analytic & Engineering Support Across the Planning Continuum

Current
Ops

Adaptive
Planning

Budget

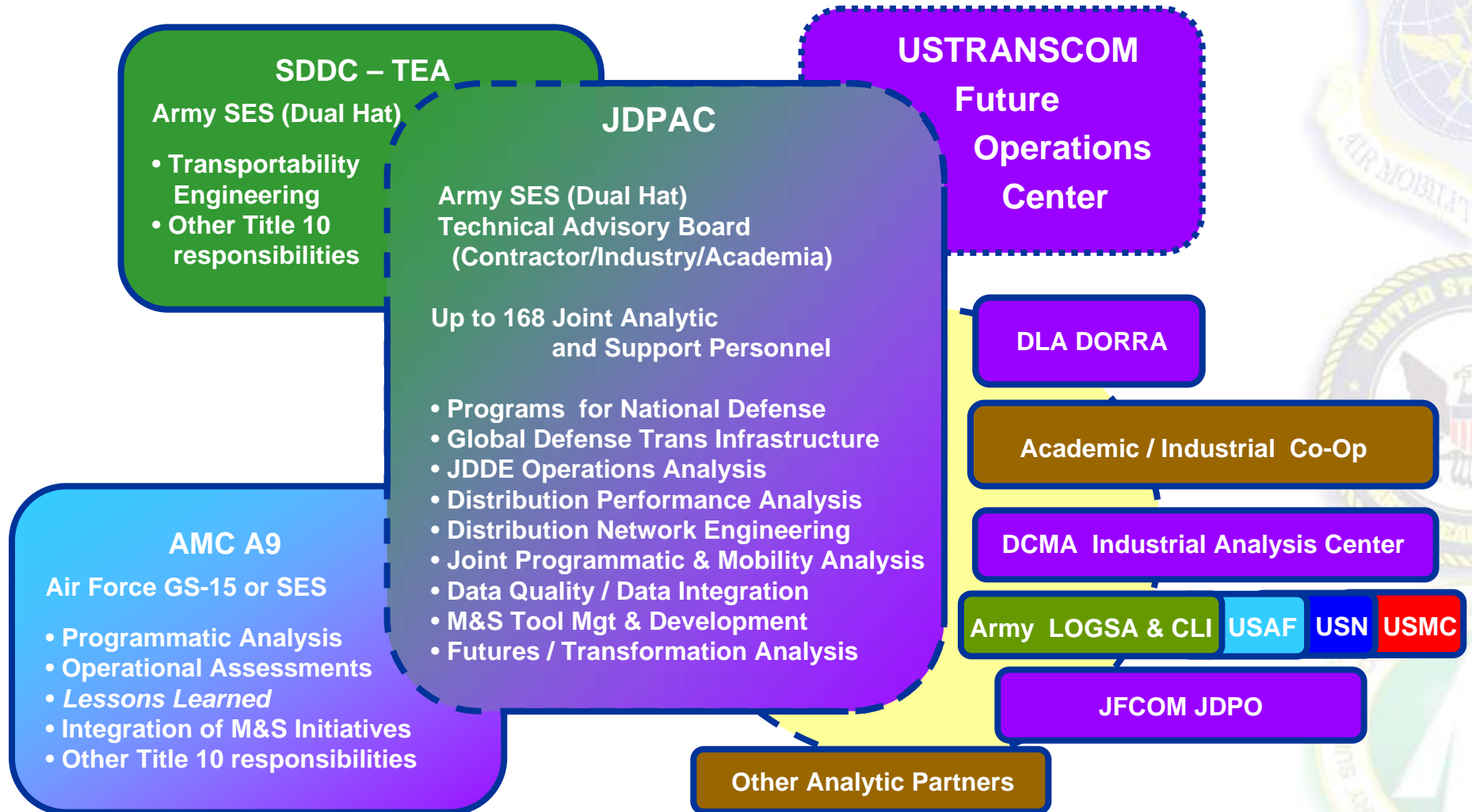
Joint & Service
Programmatics

Futures /
Transformation



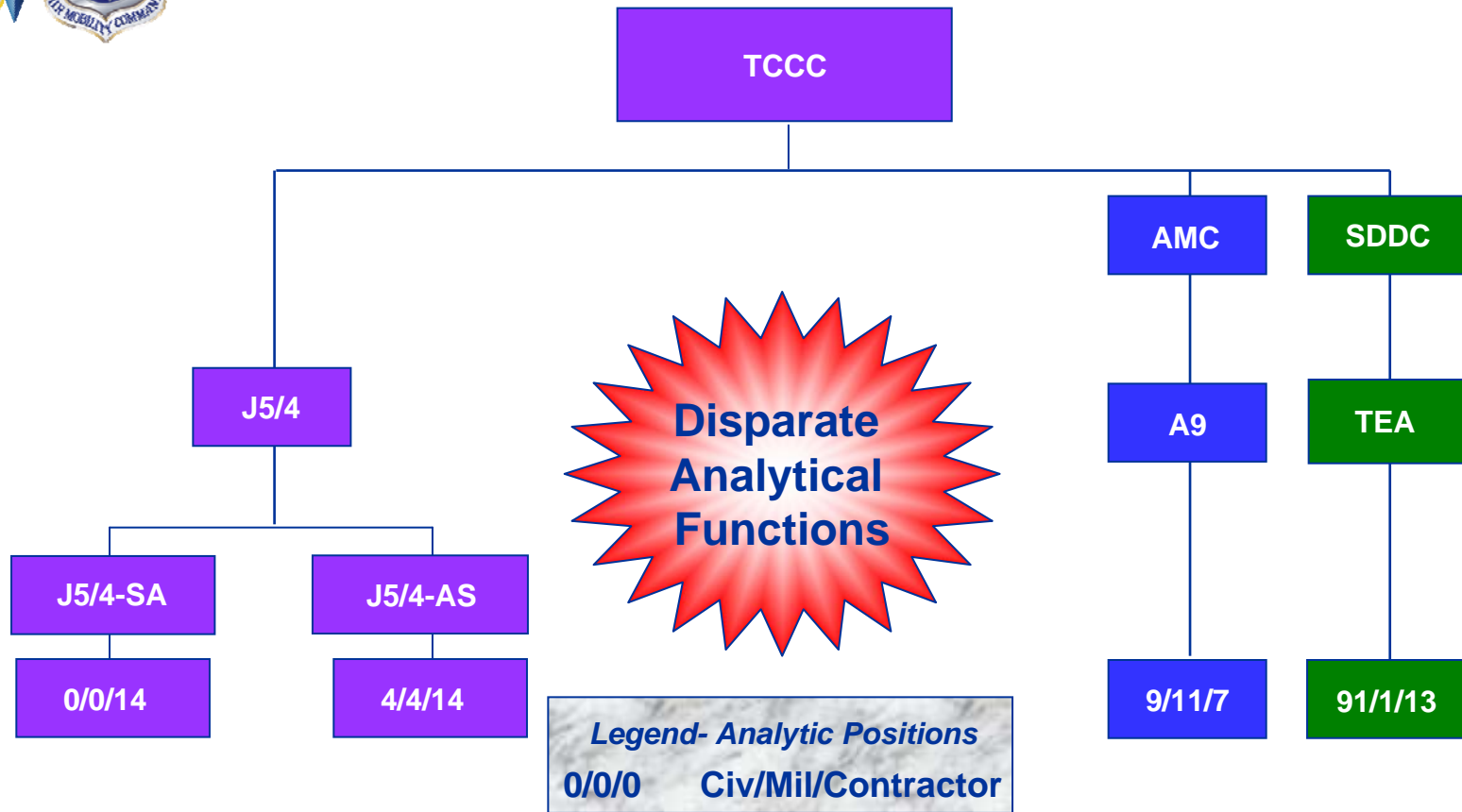
JDPAC CONSTRUCT

Internal and External Interfaces





PREVIOUS ORGANIZATIONAL PLAN

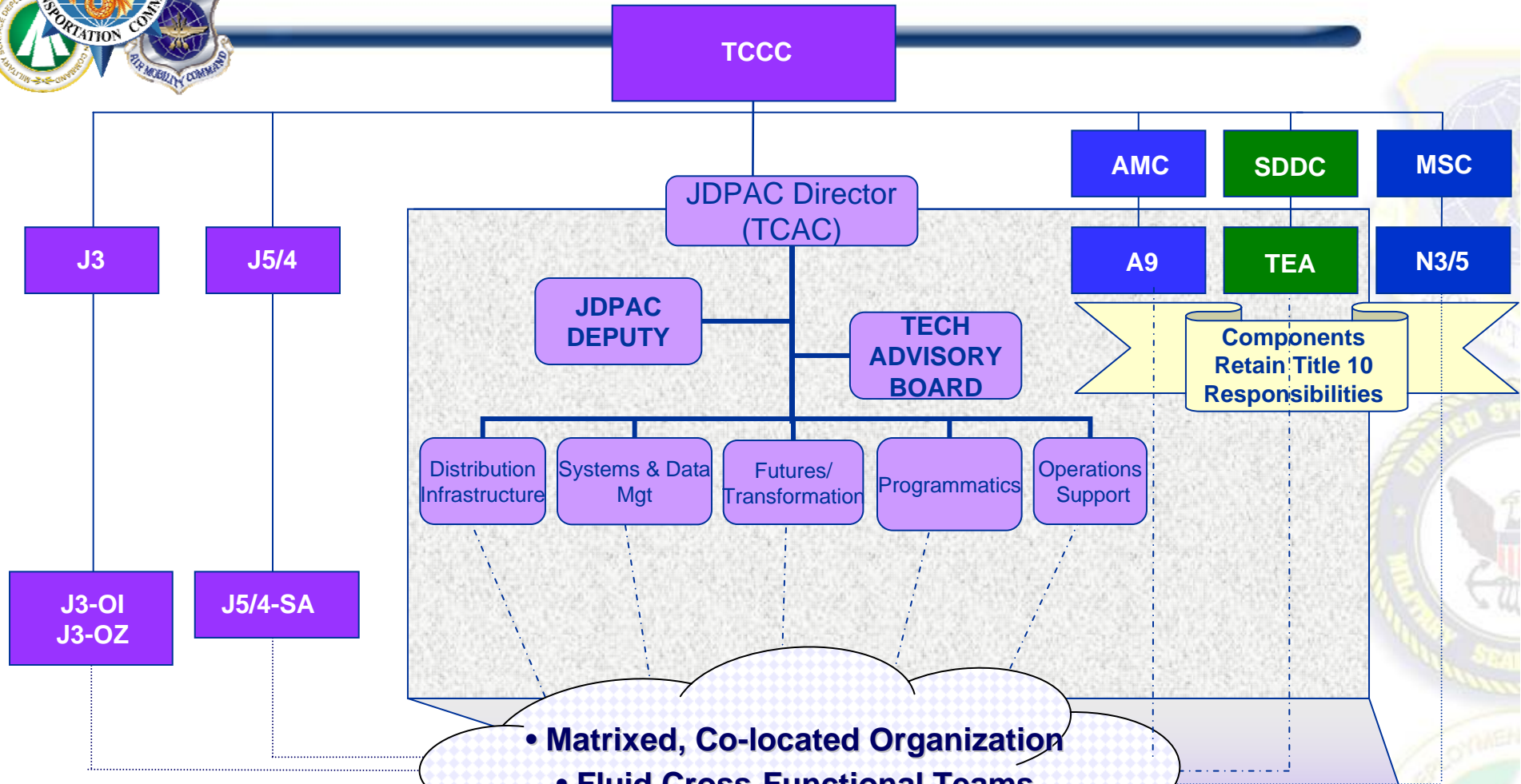


The distribution/transportation engineering, analysis, and planning functions will be consolidated in a transformational organization... The JDPAC will consolidate within a common facility and use analytical expertise from TRANSCOM, SDDC, and AMC to accomplish engineering and distribution analysis

- Excerpted from Air Force BRAC Business Plan



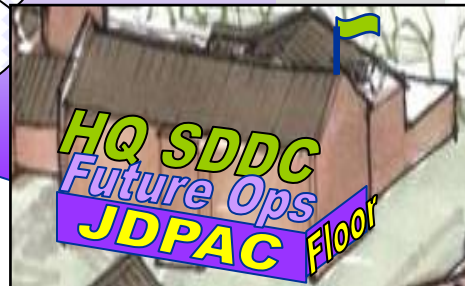
CURRENT ORGANIZATIONAL PLAN *



• Matrixed, Co-located Organization
 • Fluid Cross-Functional Teams
 • Synergistic Effort Producing Joint and Service Solutions

Legend
 ——— OPCON
 - - - - TECHCON
 Coordination

* C2 Relationships Under Revision





SUPPORTING RELATIONSHIPS

Future Operations Center:
Deployment & Distribution Solutions

DoD Analytical Agenda:
Model Warfare's Changing Nature



JDPAC:
Integrates USTC/SDDC/AMC Analyses





IMPLEMENTATION PHASES

BRAC Timeline

Jan 06 ✓

Focus Warfighter II

- Internal Realignment
- Stage-Setter for Future Ops Center

Jul 07

SDDC Temp Facility

- SDDC Alexandria Relocates
- Transportation Engineering Agency Relocates

Jun 10

MILCON

- SDDC Ops Center Relocates

Sep 10

Focus Warfighter III

- Future Ops Center FOC

Oct 10

JDPAC

- Joint Distribution Process Analysis Center

Phase III - FY 09 - FY 10

- Recognized as a DoD Center of Excellence
- Consolidation of analysis functions of TEA, AMC/A9, and TCJ5/4-AS & SA into Permanent Facilities @ Scott AFB

FOC

Phase II - FY 07 to FY 08

- Analytic Product & Process Improvement
- SDDC relocates to Temporary Facilities at Scott AFB
- Dual- Hat Army SES Designation: Director of JDPAC & TEA
- Local Area Virtual Ops between TEA, AMC/A9, TCJ5/4-AS & SA

IOC

Phase I - FY 06

- SDDC assumes lead role for standing up JDPAC
- Refine Campaign Plan
- Define desired products, processes, & skill sets
- Approve Campaign Plan at TCCC Conference- Jun 06
- Virtual Ops between TEA, AMC/A9, TCJ5/4-AS & SA begins 31 Aug 06

Virtual

**In Formation
With
BRAC Timeline**



CURRENT JDPAC TASKINGS

- **Chief of Staff Inquiry: Mobility Impact of Army and Marine Increase (CSI: MIAMI)**
 - **Mobility Impacts of 92K Army/Marine Troop Increase**
- **Joint Future Theater Airlift Capability Assessment (JFTACA)**
 - **Assess Joint Force Theater Airlift Rqmts (~2015-2024)**
- **Joint Intra-Theater Distribution Assessment (JITDA)**
 - **Assess Intra-Theater Sustainment/Distribution**





CSI: MIAMI

Current Baseline:

■ Army

- 42 BCTs
- 482.4K Soldiers

■ Marines

- 2.5 MEFs
- 175K Marines

Additional Forces:

■ Army

- 6 BCTs
- 65K Soldiers
- Army Reserve Component (RC)
9.2K Soldiers

■ Marines

- 0.5 MEFs
- 27K Marines

FY 2012 Goal:

■ Army

- 48 BCTs
- 547.4K Soldiers
- Army RC
- 28 BCTs

■ Marines

- 3 MEFs
- 202K Marines



JFTACA



How Much
(# STons/Pax)

CJCSM
3170.01B
JCIDS
Process

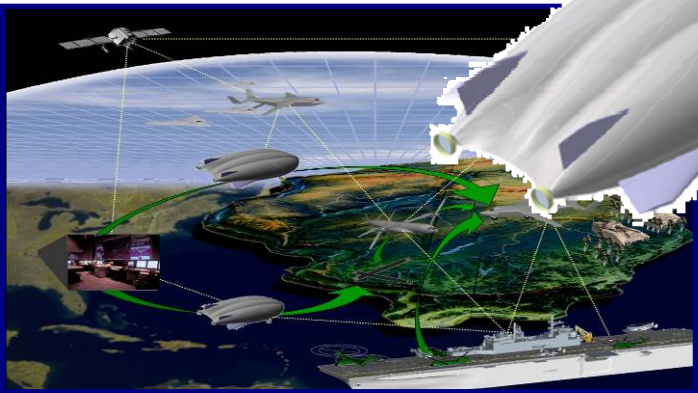
2012
Defense
Planning
Scenario

How Far
(Strat/Oper/Tac)



How Fast
(Days/Hours)

- Qualitative Analysis – Apr 07
- Quantitative Analysis – Jan 08



How Close
(Point of Need)



JITDA

BLUF: Starting point to develop understanding of distribution concepts from the Brigade (Bde) Rear to the point of effect in varied conditions. It will not quantify the required capabilities or “right mix” of transportation assets.

- **@ Tactical Level, Develop Intra-theater CONOPS And Assess Requirements To The Point Of Effect**
 - Three LCO Scenarios
- **Assess Sustainment/Distribution Capabilities And Determine Required Joint Distribution Capabilities**
 - Focusing On The “Last Tactical Mile”
- **Develop Methodology For Force Projection, Sustainment Planning, And Analysis Of Theater Distribution Networks**
- **Analysis**
 - SOUTHCOM and EUCOM Scenarios Completed Mar 07; PACOM LCO Initiated Apr 07; Expected Study Completion Jun 07



QUESTIONS?



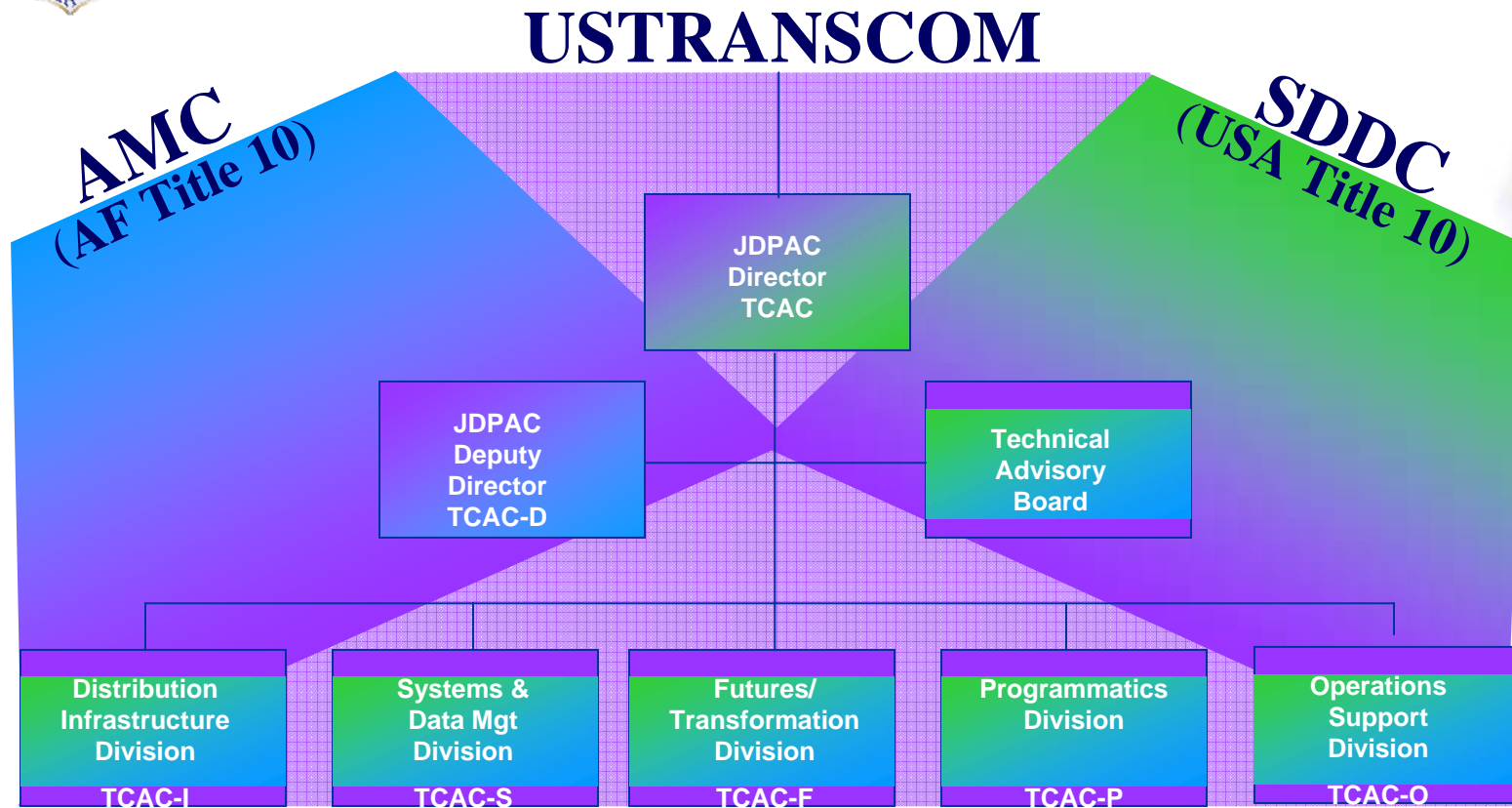


BONUS SLIDES



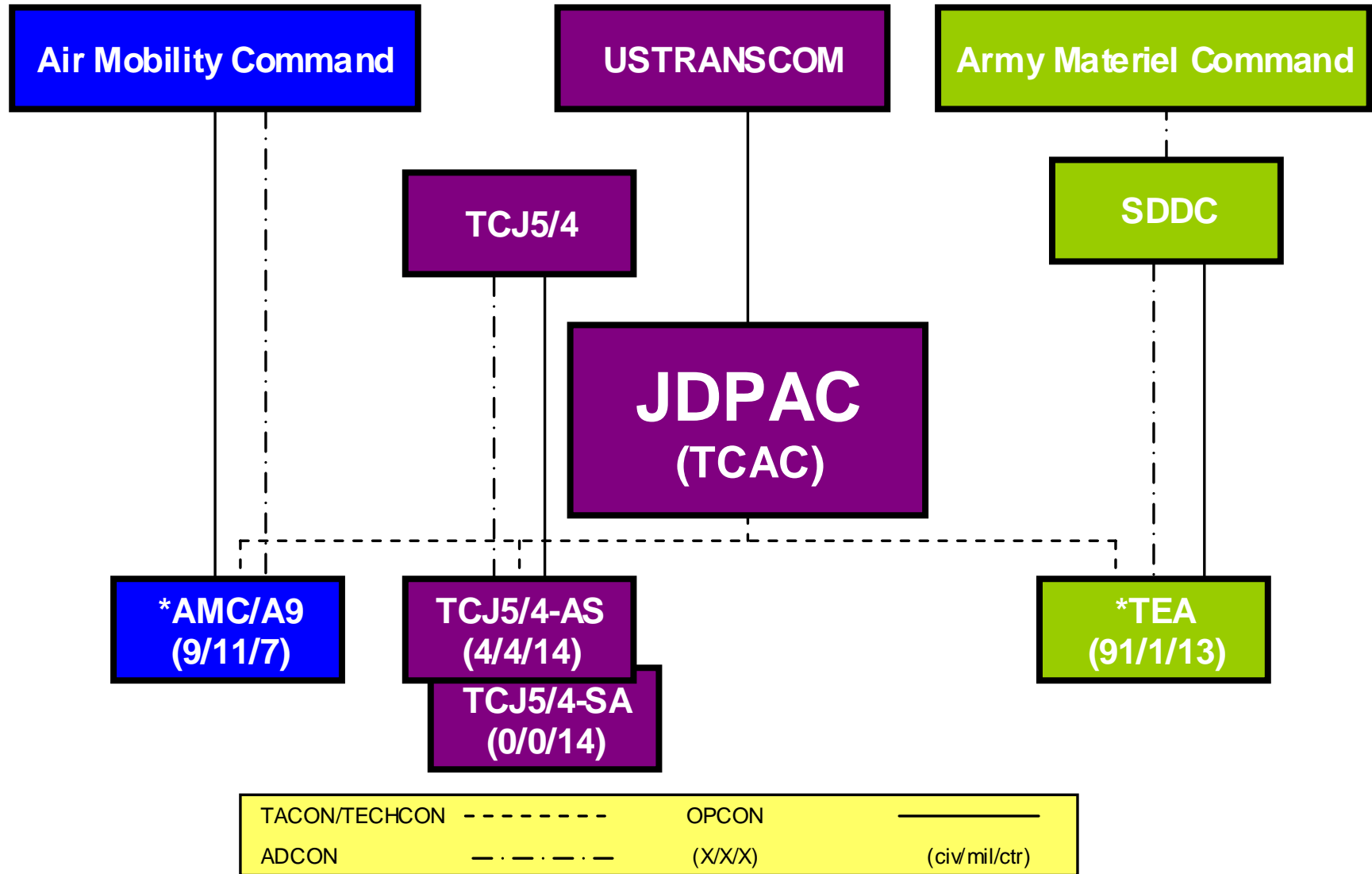


CURRENT ORGANIZATIONAL PLAN*



- SDDCTEA, AMC/A9, and TCJ5/4-AS Reps Are Matrixed To Fulfill Staffing Requirements
 - JDPAC supports TEA's/A9's Title 10 Requirements
- * C2 Relationships Under Revision

JDPAC Command and Control – Virtual Operations



•Title 10 Functions are TACON/TECHCON to the Component Commands and their associated Services. Technical control (TECHCON), while not an official DoD term, is more reflective of the command relationship resulting from the consolidation of analytical functions under the JDPAC.



JFTACA CHARTER

- **Analyze Potential Joint Force Theater Airlift Required Capabilities Facing Future (2015-2024) Joint Warfighters**
- **Examine Potential Gaps and Solutions Associated with Joint Future Theater Airlift From the DPO's Distribution Process and the Regional Combatant Commander's Full Range of Military Operations Perspectives**
- **Assess Theater Airlift Across the Spectrum of Deployment, Employment, Sustainment, and Retrograde in response to emerging/future adversarial challenges**
- **Address Current and Future Materiel Technologies (Fixed Wing – AJACS, Rotor Wing/Tilt Rotor – JHL, Lighter Than Air – HULA, Airdrop – JPADS) That Could Address Capability Gaps**
- **Culminate with Two Distinct Deliverables:**
 - **Qualitative Analysis:** Functional Area Analysis and Initial Gap Analysis which Provides Tasks, Conditions, & Standards and a List of Critical Capability Gaps
 - **INSIGHTS:** Limited Access, Payload, Range, Protection, Short/Rough Landing Capability
Limited/Nonexistent Ability to Conduct Forcible Entry and Vertical Maneuver with Mounted Forces or Operational Maneuver/Sustain from Seabases
 - **Quantitative Analysis:** Initial Capabilities Document (ICD) which Adds a Prioritized *Operationally Based Assessment* of Potential Approaches to Solving 1 or More of the Capability Gaps Identified



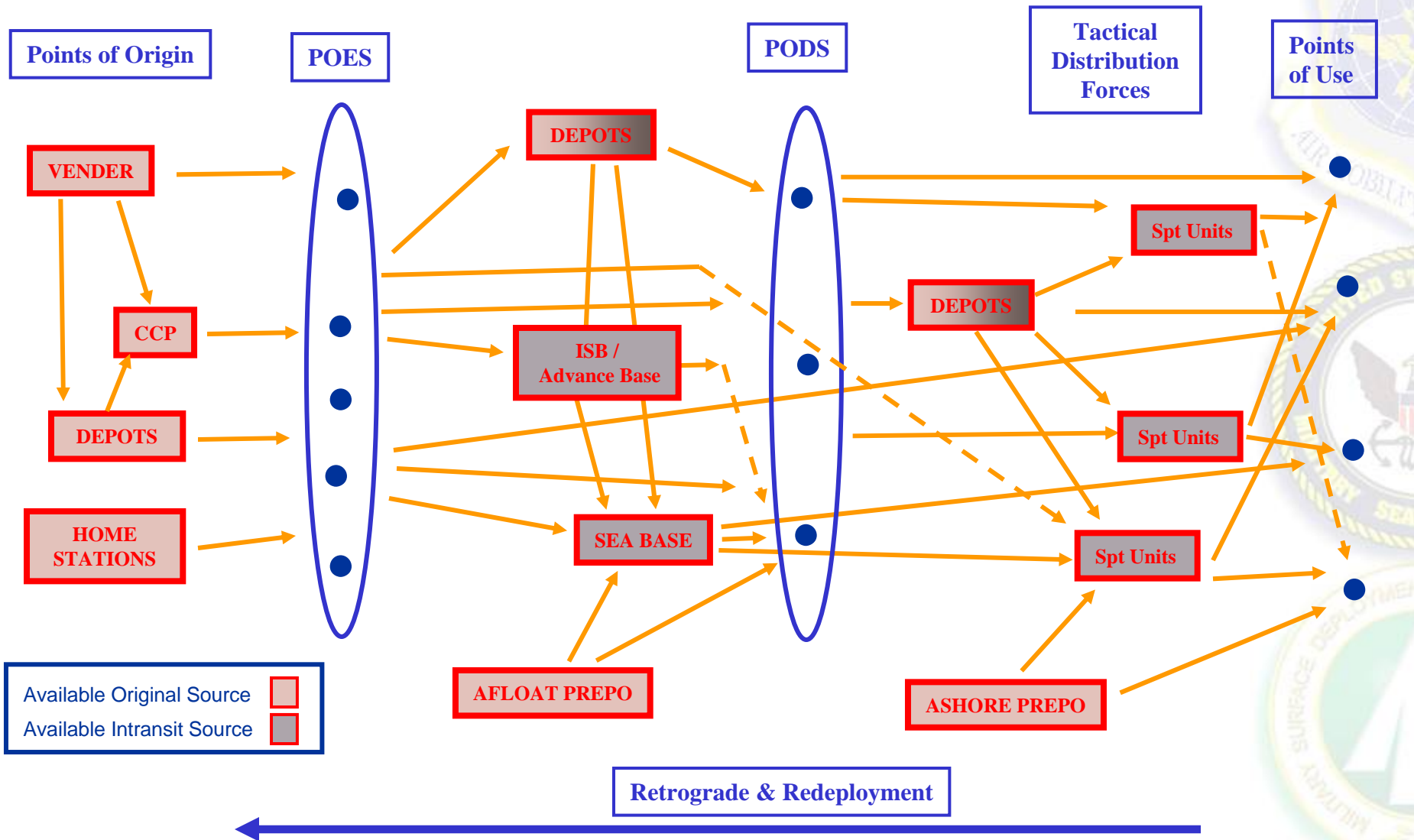
JITDA

- **Joint Staff J4 led follow-on study to the Intra-Theater Lift Capabilities Study (ITLCS)**
 - ITLCS did not address delivery over the “last tactical mile”
 - JITDA launched to cover the deficiency
- **Scenarios**
 - Three Lesser Contingencies (SOUTHCOM, EUCOM and PACOM)
 - Scenarios set in the 2012 time span
 - Detailed brigade by brigade study underway
- **AMC/A9 in a support role providing data for:**
 - Airfield suitability/capacity
 - Enablers required
- **Study participants include Services, USTRANSCOM, OSD/PA&E and applicable COCOM**
- **Study direction remains at Joint Staff J4, analytic lead transitioned to USTRANSCOM TCJ5/4-AS (for JDPAC)**
- **Study started May 2006; Expected completion June 07**





DPO PROCESS OVERVIEW





JDPAC DISTRIBUTION MODELING

PREDEPLOY ORIGIN POE POD DESTINATION TAA/TDC POINT OF EFFECT

