

DEFENSE TECHNICAL INFORMATION CENTER

2012 DTIC Conference

Connecting Lab Research with the Warfighter

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COCOM Support 2012

27 March 2012

Moderator: Ms. Christine Barrett



COCOM Support 2012

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Associate Director,

Joint S&T Support/OUSD(AT&L)



Technology in Demand by Joint Warfighters

Part I

Mike Knollmann
*Director, Joint Operations Support
Office of the Secretary of Defense
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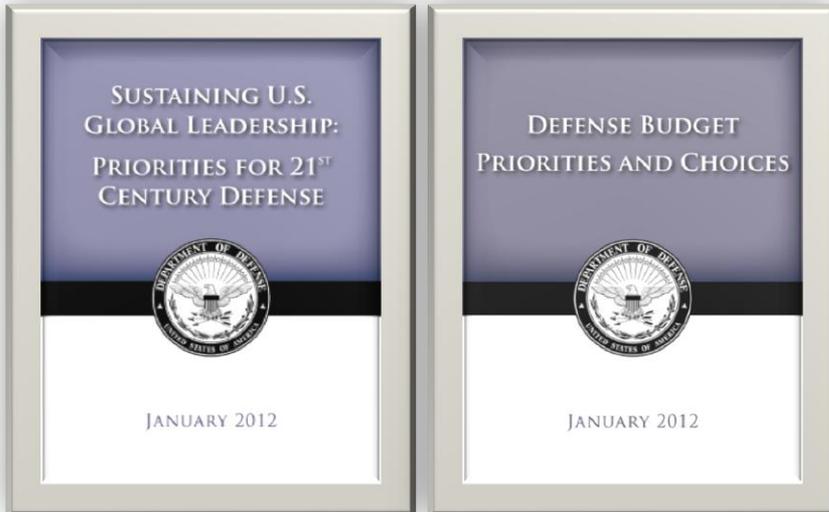
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Key Elements of Defense Strategic Guidance



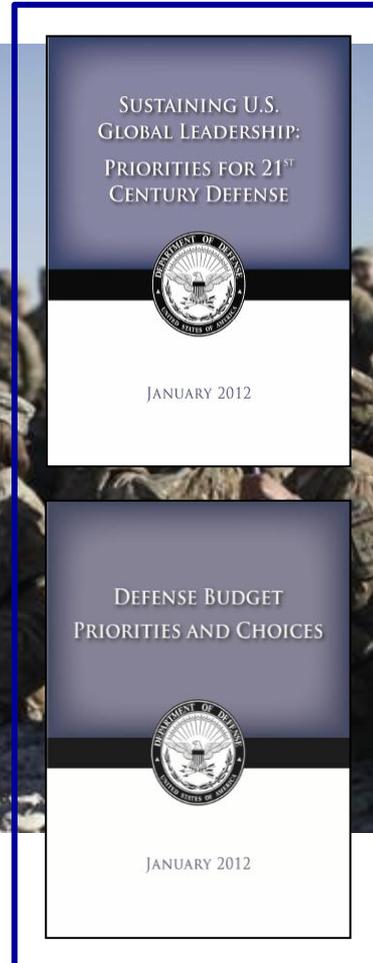
- The military will be smaller and leaner, but it will be agile, flexible, ready and technologically advanced.
- Rebalance our global posture and presence to emphasize Asia-Pacific and the Middle East.
- Build innovative partnerships and strengthen key alliances and partnerships elsewhere in the world.
- Ensure that we can quickly confront and defeat aggression from any adversary – anytime, anywhere.
- Protect and prioritize key investments in technology and new capabilities, as well as our capacity to grow, adapt and mobilize as needed.





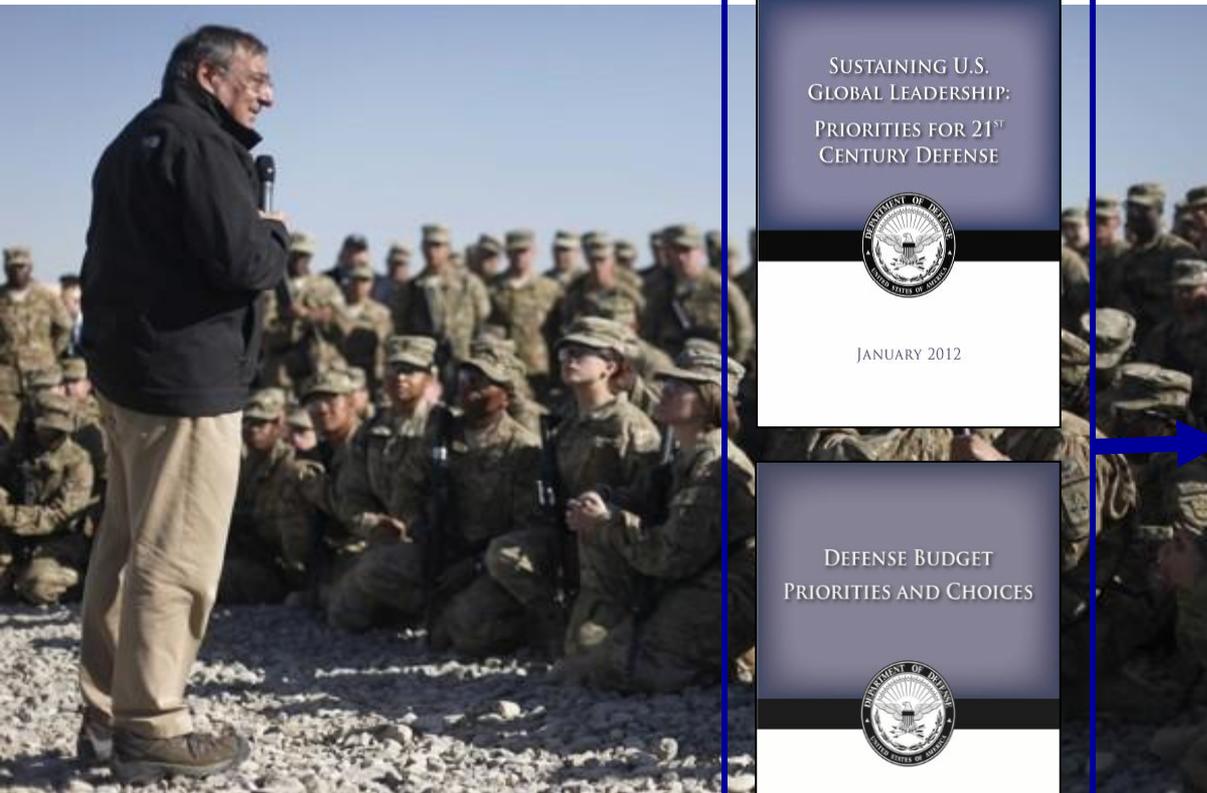
Missions from Defense Strategic Guidance

Guidance



Primary Missions

- Defend the Homeland and Provide Support to Civil Authorities
- Counter Terrorism and Irregular Warfare
- Conduct Stability and Counterinsurgency Operations
- Provide a Stabilizing Presence
- Deter and Defeat Aggression
- Project Power Despite Anti-Access / Area Denial Challenges
- Counter Weapons of Mass Destruction
- Operate Effectively in Cyberspace and Space
- Conduct Humanitarian, Disaster, Relief and Other Operations
- Maintain a Safe, Secure and Effective Nuclear Deterrent





Secretary Panetta's Priorities



Leon E. Panetta
23rd Secretary of Defense

“The United States faces a series of tough choices ahead on the budget as we seek to balance the need for fiscal solvency with the need to protect our security. We can – and must – address the budget and protect the country. As we do, we will be guided by the principle that we will do what’s right for our nation now and for its future. By better aligning our resources with our priorities, this Department can lead the way in moving towards a more disciplined defense budget. Only in that way can we ensure that we fulfill the fundamental duty for those of us in public service – which is to do everything we can to give future generations of Americans a better and safer life.”

Meeting Our Fiscal and National Security Responsibilities
Secretary of Defense Leon E. Panetta
The Pentagon, Wednesday, August 03, 2011

<http://www.defense.gov/speeches/speech.aspx?speechid=1597>



AT&L Priorities



- ✓ Support Forces in Overseas Contingency Operations
- ✓ Achieve Affordable Programs
- ✓ Improve Efficiency
- ✓ Strengthen the Industrial Base
- ✓ Strengthen the Acquisition Workforce
- ✓ Protect the Future



Defense Capabilities Enterprise: Diversified Force Generation Roles, Diversified Force Employment Needs

Organize, Train & Equip



Operationally Employ



...and increasingly, complex operational partners: NGB, inter-agency, coalition, NGO



Combatant Commander Science & Technology Staff: Diversified Roles, Diversified Needs

Roles/titles Vary By Command HQ Structure

- Science & Technology (S&T) Advisor
- Research, Development, Test & Evaluation (RDT&E) Programs Liaison
- Concept Development Lead
- Capability Development Lead

Variety of organizational constructs

- Reporting to Deputy Commander, Chief of Staff, J8/Resources, J9/Experimentation
- Single/multiple science advisors on HQ staff

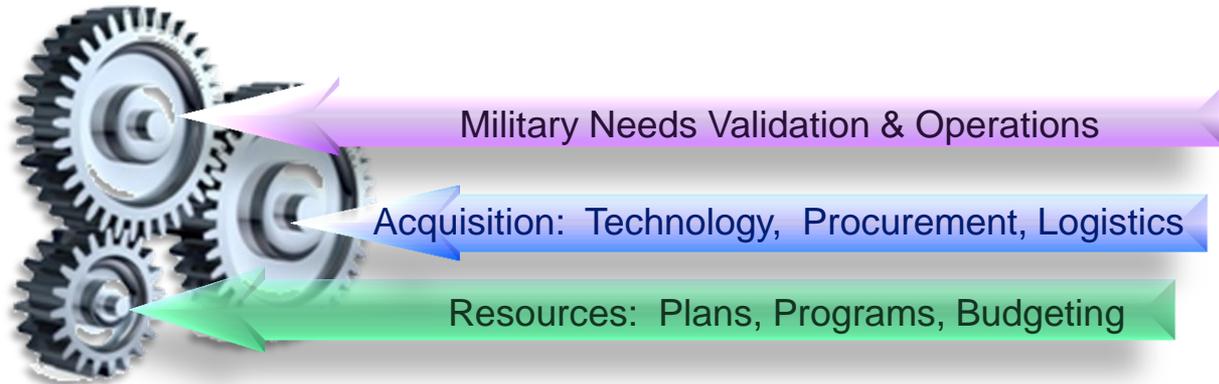
Variety of resource support

- Executive agency Service / parent service support
- Experimentation support
- Working capital fund support
- Rapid reaction acquisition programs support
- Operational needs processes



Aligning the Domains: Defense Engine for Capabilities

All three domains must be aligned & engaged to deliver capabilities



The challenge for Combatant Commanders:

- They exist in the authority domain of **Military Needs & Operations**
 - Joint force needs are predominantly expressed through CJCS
 - Only US Special Operations Command and US Transportation Command have force development **acquisition authorities**
- They rely on Services for preponderance of force capabilities
 - “Force Integration” / “Force Provider” services performed by USJFCOM
 - USJFCOM translates joint force needs into force fill requirements for Services
- They rely on Services for HQ resources through legacy Executive Agency provisions
- They have limited manpower to participate in **needs, acquisition & funding** processes



Needs to Solutions: Processes & Roles

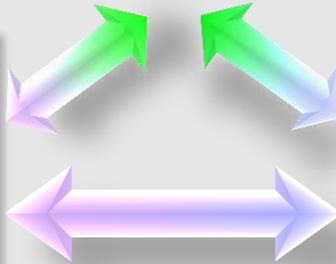
PPBES: Program – Budget Process

Needs Process

1. Develop & specify needs
2. Review & comment on budget-based programming and acquisition solutions
3. Allocate resources to joint/combatant commanders

Needs Roles

CJCS/VCJCS/JCS
CoComs
Joint Staff
Military Staffs
CoCom/Component Cdr Staffs



Acquisition Solutions Process

1. Consult with needs authorities in development of acquisition solutions
2. Acquire material solutions based on validated needs and budget-based programming
3. Deliver resources (acquisition products) for allocation to joint/combatant commanders

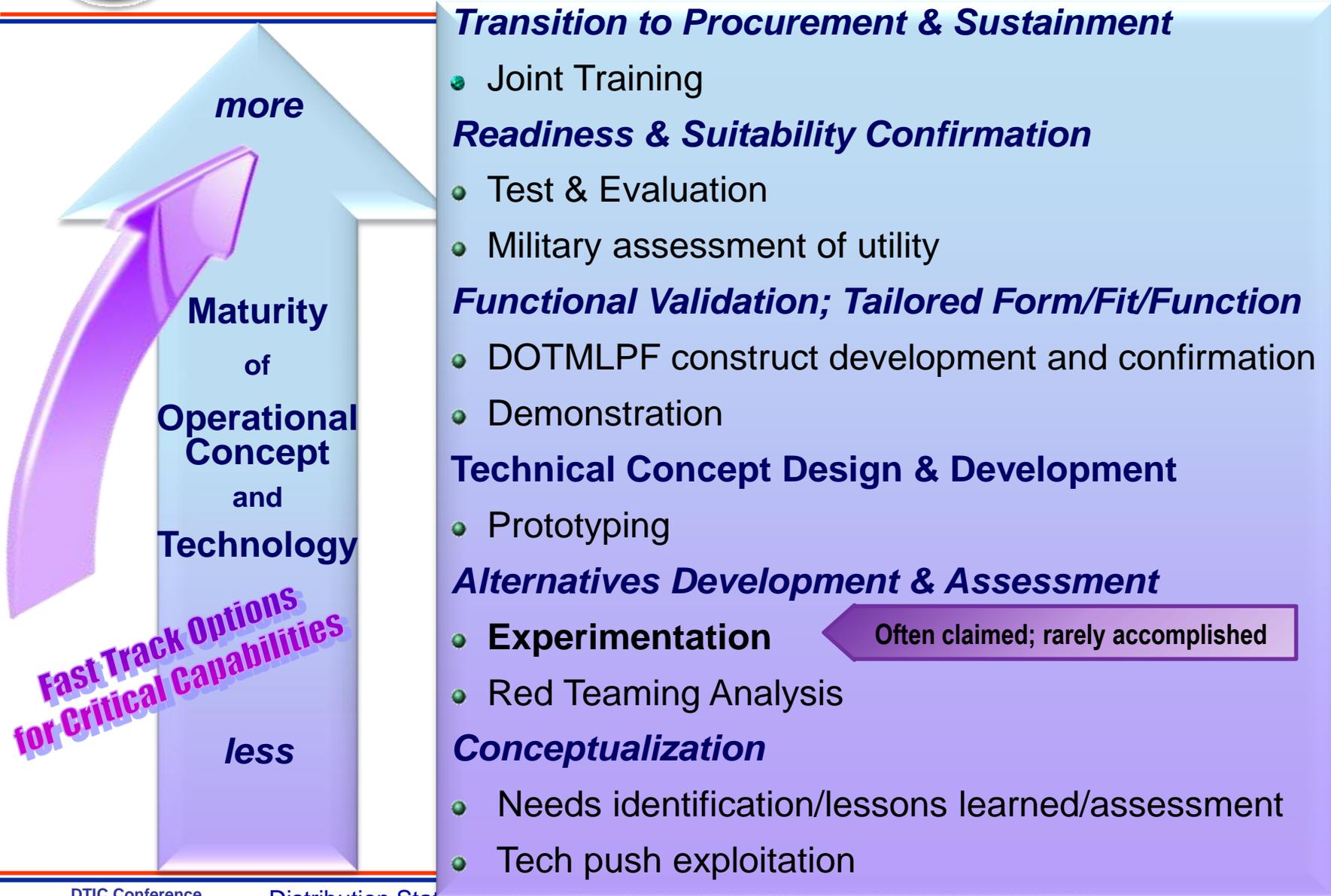
Solution Roles

USD (AT&L)/DAE
Service Secretaries/SAEs
OSD (AT&L) Staff
Service Secretariat Staffs
Systems/Materiel Commands
Military Agencies
USSOCOM [special authorities]
USTRANSCOM [limited authorities]

**National,
Security,
and Military
Policies
Framework**



Development Model for Technology Solutions





Joint Capability Development Strategy: Framing Remedies

Identifying Military Requirements

Analyze capability gaps

- Lessons Learned / Warfighting Analyses

Characterize improvements: What is really required?

- Experiment...what DOTMLPF elements are needed?

Define in actionable terms

- Specify DOTMLPF elements or options

Understand DoD roles

Respect & leverage authorities

Needs⇒Requirements⇒Solutions



Framing the Solution Set

Headquarters enhancement

- Engage Executive Agency (military Service)?

Specific Component Force Development

- Specify Service partnership / component roles

Joint Force Capability Gap

- Pursue Functional CoCom partnerships

Use diversity of tools

Employ gapfillers

Remain flexible



Developing Specific Strategies

Address key gap-closing capability segments

Forge partnerships with strategy development

- Key element of resourcing & transition

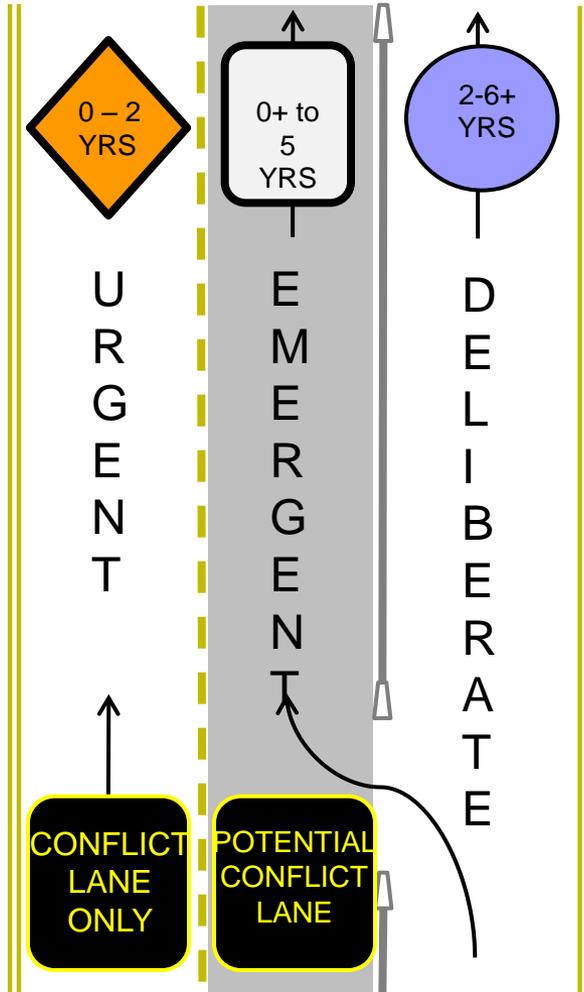
Stipulate timeline and phasing of deliverables

- Cite operational imperative for timelines



Three Requirements “Lanes”

“Keep right, except to pass” •



Deliberate Requirements

- Driven by Service or Defense Agency
- Traditional route for capabilities that require significant tech development and/or are not urgent or compelling in nature

Emergent Requirements

- Driven by senior joint combatant commanders
- Supports accelerated acquisition of capabilities needed for an anticipated or pending contingency operation
- Vice Chairman, Joint Chiefs of Staff (VCJCS) verifies, Joint Capability Board or JROC validates

Urgent Requirements

- Driven by senior joint combatant commanders
- Urgent and compelling to prevent loss of life and/or mission failure during current operations
- Require little tech development and can be resolved in less than two years
- J-8 Deputy Director for Requirements (DDR) validates



JCIDS and Acquisition

- key acquisition activities/documents -

President, SECDEF & Chairman:
 • Strategic Guidance

OSD/Joint Staff
 • Support to Strategic Analysis (SSA) Products
 • Joint Operations Concepts (JOpsC) family activity

Identification of Capability Requirements

- Operational Planning
- CBAs & Other Studies
- Exercises/Lessons Learned
- JCTDs/JUON/JEON/ Experiments
- JIEDDO Initiatives
- Defense Business Sys

Outputs

- Mission & Problem
- Capability Gaps
- Tasks
- Performance
- Conditions
- Operational Risk
- Non-Materiel Approaches
- Materiel Approaches
- Recommendations

- Analysis of Alternatives (AoA)
- Technology Development Strategy (TDS)
- Test & Evaluation (T&E) Strategy (TES)
- System Engineering Plan (SEP)

Materiel Development Decision

- Technology Demonstrated
- Initial Key Performance Parameters/Key System Attributes (KPPs/KSAs)
- Acquisition Strategy
- T&E Master Plan (TEMP)
- SEP

- Final Design
- Developmental T&E (DT&E)
- Operational Assessments
- Revise KPPs/KSAs
- Acquisition Strategy
- Acquisition Program Baseline (APB)
- TEMP
- SEP

- Low Rate Initial Production (LRIP)
- Initial Operational T&E (IOT&E)
- Acquisition Strategy
- APB
- TEMP
- SEP



CCMD



Analysis of Alternatives (AoA) Competitive Prototyping Evolutionary Acquisition

Military Services



SECDEF Joint Staff / Joint Requirements Oversight Council / OSD OSD (AT&L, CAPE), Services and OSD (DOT&E) -- Joint Staff (JROC)

Policy Identify Capability Requirements Select Materiel Solution Develop, Test, Produce & Field



JCIDS and Acquisition – Simplified

**Military Identifies &
Validates Needs**

-
**Acquisition Offers
Cost/Technology
Constrained
Material Solutions**

**Through
development,
prototyping,
demonstration and
testing, military and
acquisition
communities
examine viable
solutions**

**Military and
Acquisition
Enterprises agree,
initiate production**

**New capability
fielded...then come
the big life cycle
sustainment costs!**

**Office of the Secretary of Defense
Acquisition, Technology & Logistics**



**Technology in Demand
by
Joint Warfighters**

Part 1



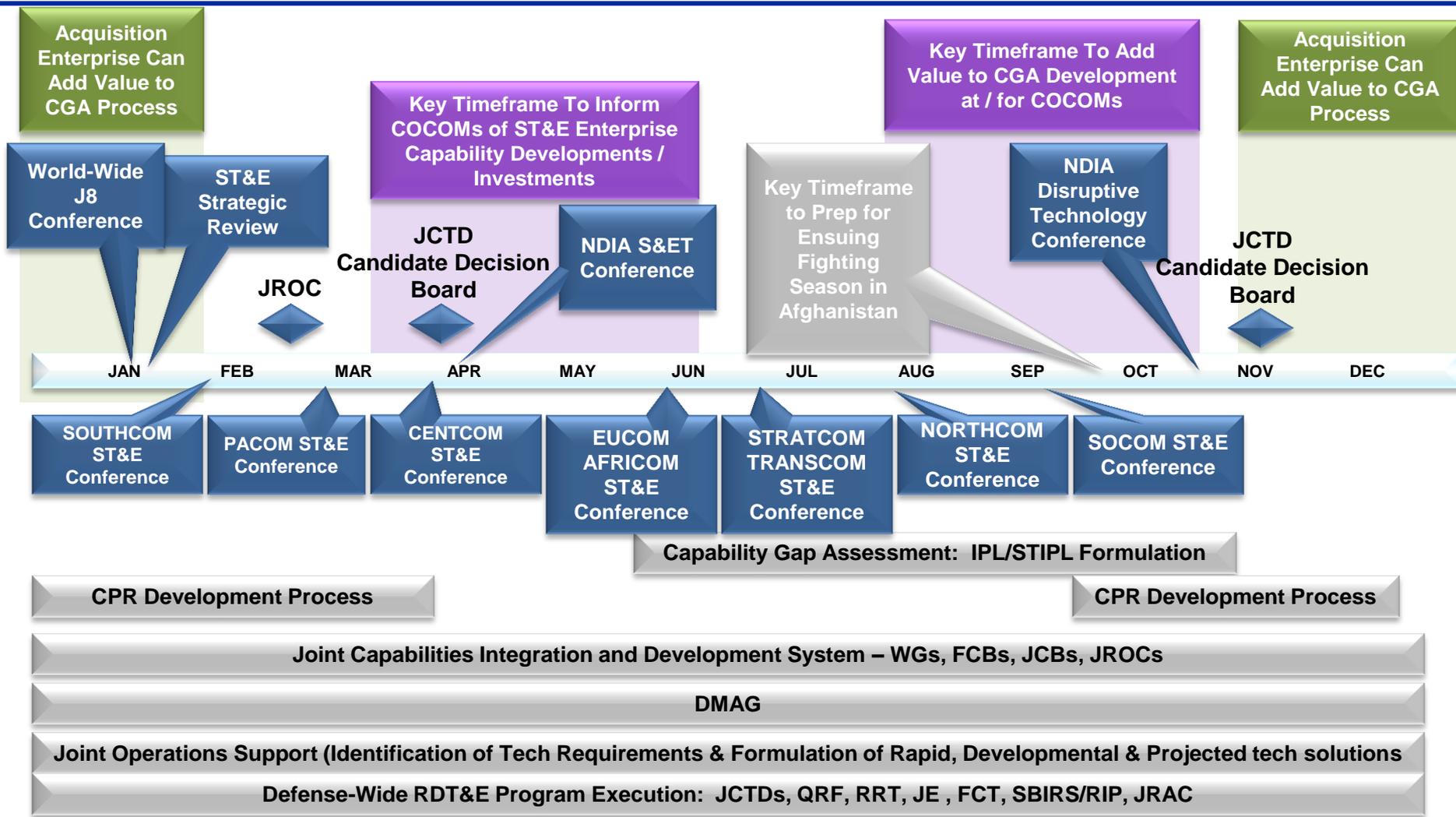
Technology in Demand by the Warfighters Part II

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Interaction – the Real Story



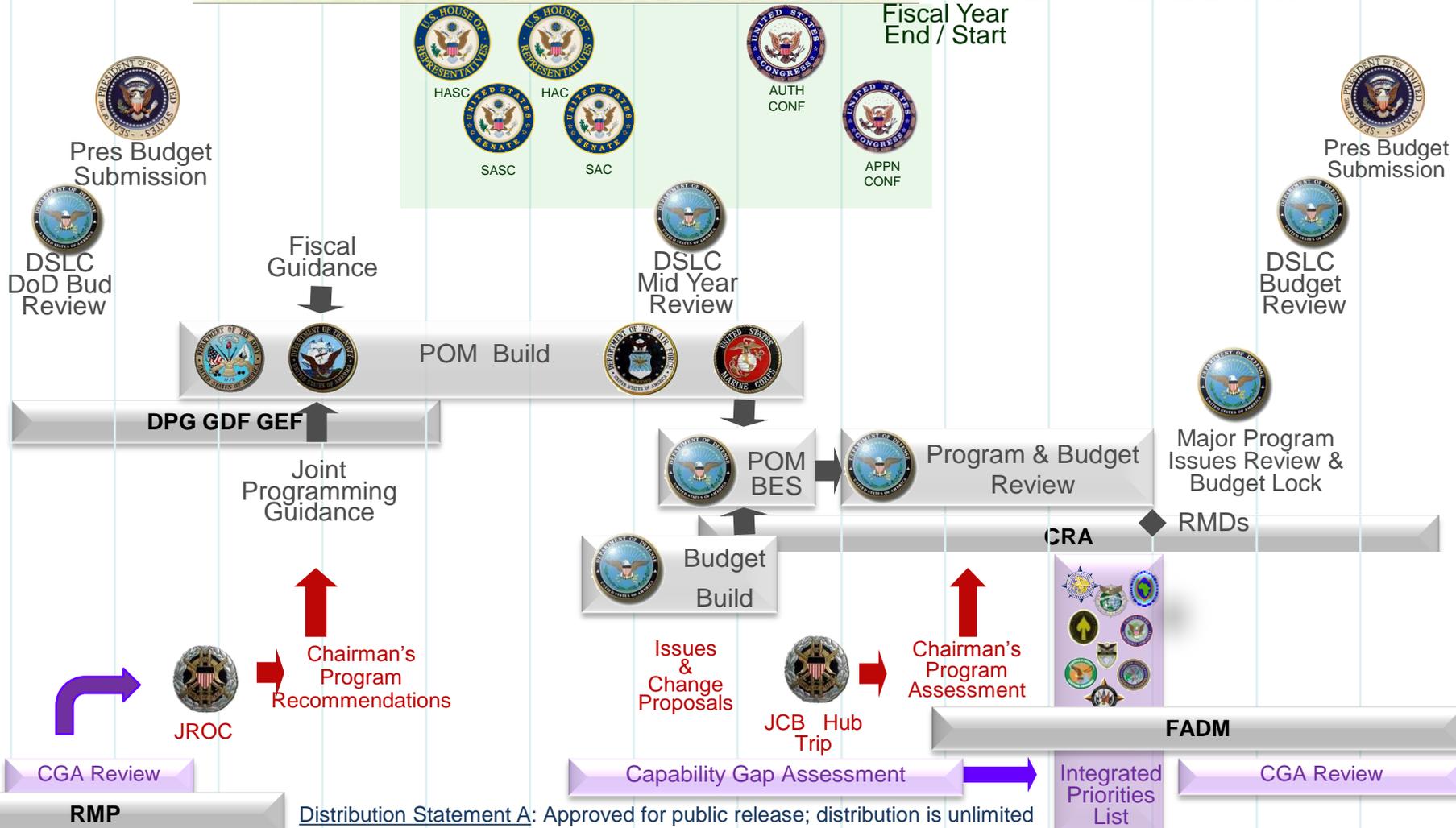


Planning, Programming, Budget & Execution Environment

DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB
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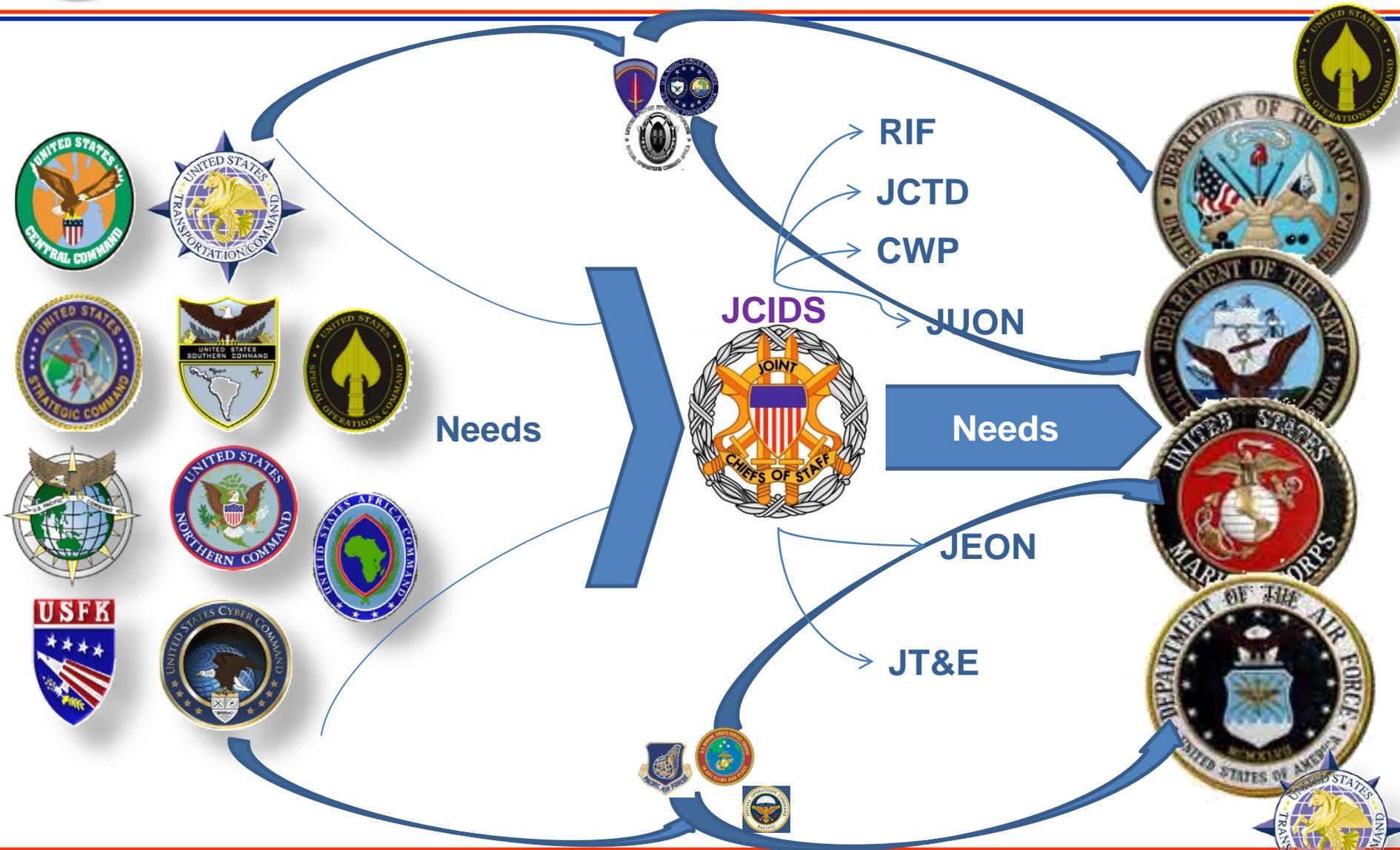


\$ Continuing Resolutions?.....





Connection



Needs

Needs

JCIDS

RIF

JCTD

CWP

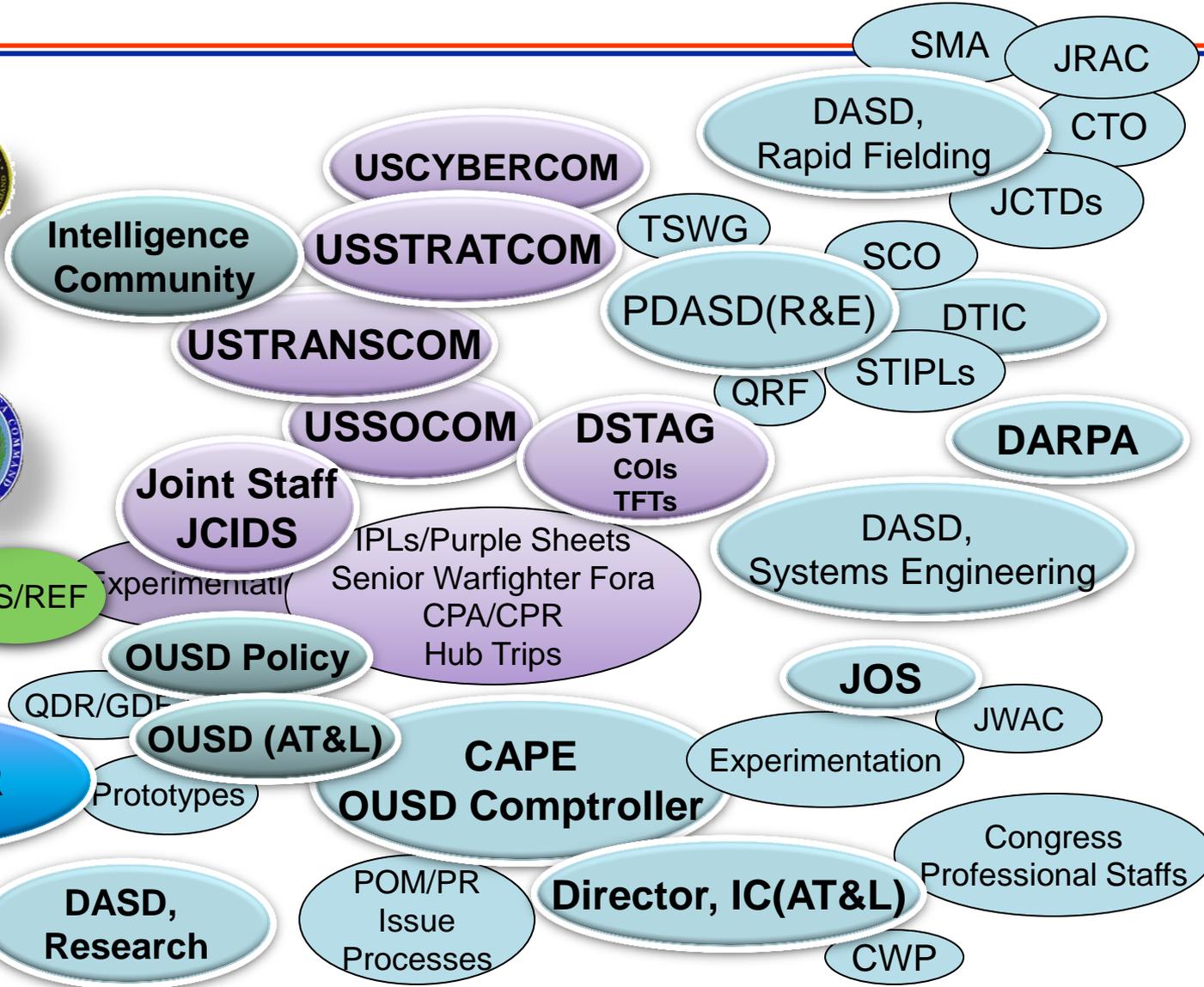
JUON

JEON

JT&E

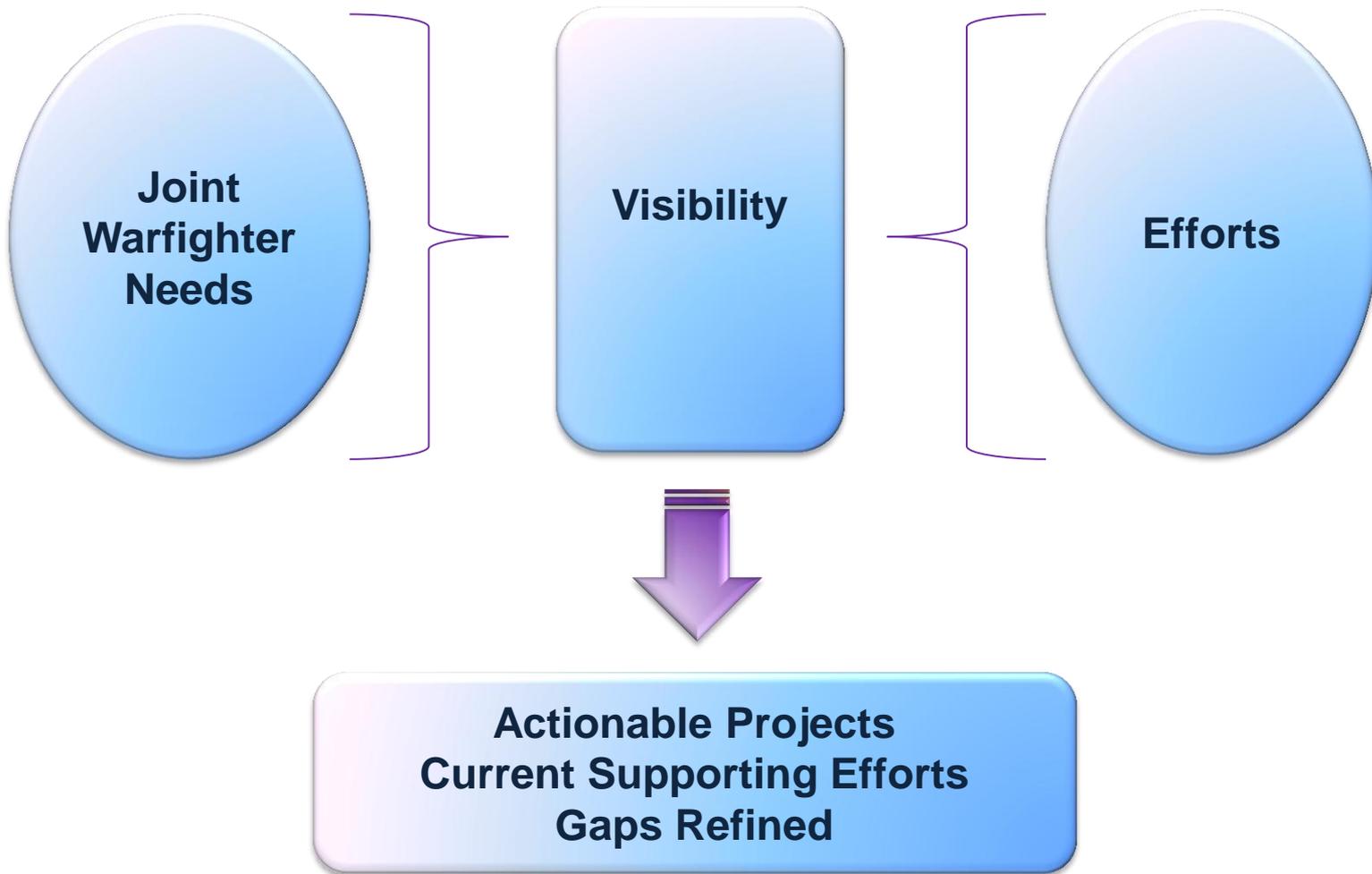


What it Really Looks Like





Goal



Inform and Enable the Solution Enterprise



Capture the Needs, Advertise, Display, and Engage



Search
Go

- Navigation
- Home
 - Technology Discovery
 - Technology Challenges
 - Organizations
 - Countries
 - Community Spaces
 - News & Events
 - Blogs
 - Acronyms
 - Terminology
 - My Favorites

- General Information
- Community Information
 - Help
 - FAQ
 - Tutorials
 - Sandbox

People Finder

UNCLASSIFIED ONLY

CSTC Home

Article Edit Attachments (18) History Rate Admin Doc Import

Added by Nga Paluszay, last edited by Maria Wong on Jul 26, 2010 (view change)
TinyLink (useful for email): https://www.dodtechipedia.mil/dodwiki/x/IQA7AQ
Article Quality: ★★★★★ (0 ratings)
Labels: cocom EDIT

Welcome to the limited-access Combatant Command Science & Technology Community (CSTC). This space, a part of the DoDTechipedia wiki, is intended for S&T collaboration within and among the COCOMs

Community Pages

- AFRICOM - U.S. Afric
CENTCOM - U.S. Cen
EUCOM - U.S. Europ
JFCCOM - U.S. Joint F
NORAD - North Ameri
NORTHCOM - U.S. N
PACOM - U.S. Pacific
SOCOM - U.S. Specie
SOUTHCOM - U.S. S
STRATCOM - U.S. Str
TRANSCOM - U.S. Tr

DDR&E Phone List

ITEMS OF INTER

Call for S&T Efforts

Call for FY11 STIPL

OUSD(AT&L) Involv

STIPL - Related Efforts

Article Attachments (105) History

Added by Maria Wong, last edited by Maria Wong on Jul 26, 2010 (view change)
TinyLink (useful for email): https://www.dodtechipedia.mil/dodwiki/x/IQA7AQ
Labels: sti

COCOM S&T Home

STIPL Coordination

Science & Technology Focus Team | Information

AFRICOM | CENTCOM

2010 INPUT

RELATED (Tasking) Opportunities For sit areas, upon pre



DoDTechipedia is the entry point into community collaboration. It is the tool for enduring information, a user built S&T encyclopedia.



DoDTechSpace is the networking tool for increasing project coordination across the S&T enterprise.

DoD TechSpace

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- AFRICOM
- CENTCOM
- EUCOM

Projects

- STIPL Development

Recent Activity

ROWPU Scalability

Unanswered Questions

Requests for Information

Popular Content

There is no popular content available.

Defense-Wide Acquisition Enterprise Clearinghouse

Space Overview

several areas to include power, energy, and water. Check out the NIPR DoDTechipedia site for additional details at https://...

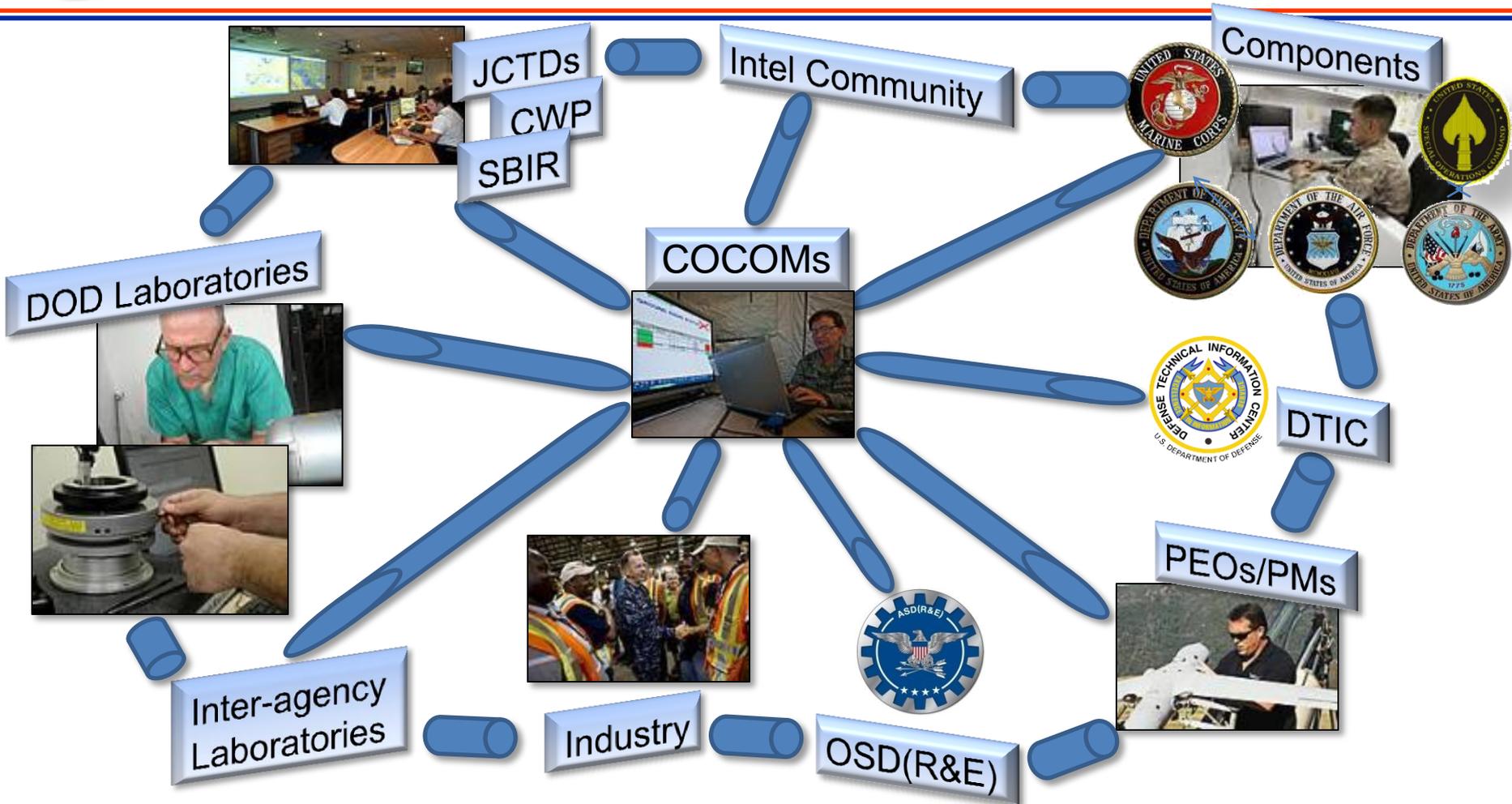
7 minutes ago

Maria Wong

Paul Simon



Enterprise Connections Simplified



Defense-Wide Acquisition Enterprise Clearinghouse



BACK-UP SLIDES



What Do We Do

- Direct support for COCOM Resource & Requirements Executives and S&T Advisors in formulating requirements for support and facilitating interaction with solution providers from the Defense Acquisition enterprise.
- Foster community of interest integrating COCOM customers with Defense acquisition enterprise for cooperative fielding of responsive materiel capabilities.

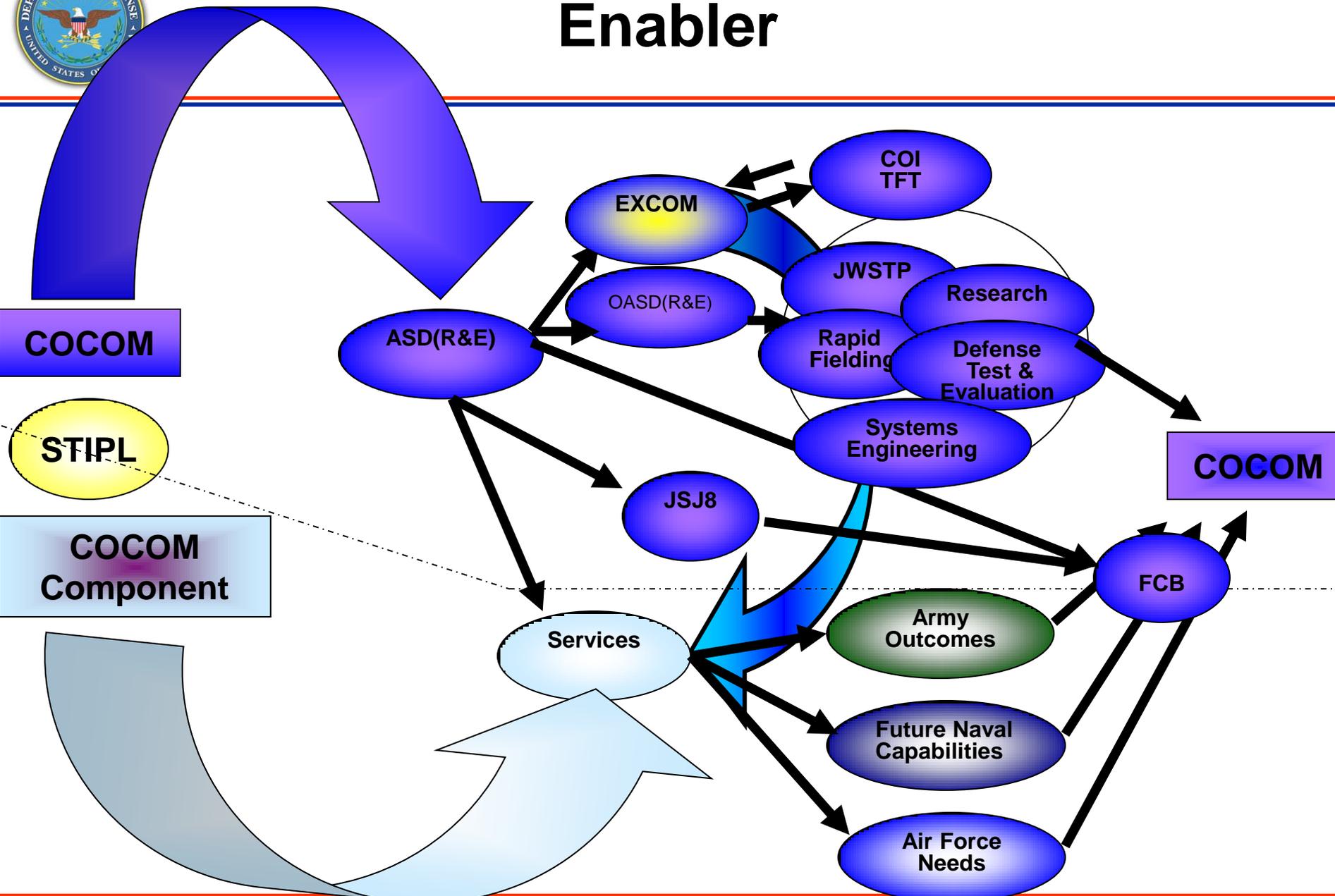


How Do We Do It

- Support COCOM staffs during generation and validation of military needs where critical mission gaps or capability enhancements are conducive to resolution with S&T efforts
- Compile and disseminate emergent and approved joint acquisition/S&T support needs to solution providers
- Assist with identification of actionable projects, current S&T efforts and potential gaps in research



Enabler





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