

**BRAC 2005**  
**Technical Joint Cross-Service Group (TJCSG)**  
**Meeting Minutes of 2 March 2005**

Dr. Segal chaired the meeting. The agenda is enclosed in attachment 1. The list of attendees is enclosed in attachment 2. Read ahead materials for the meeting are enclosed in attachment 3. The primary objective for the meeting was to review the 4 March 2005 TJCSG briefing to the ISG, and the consolidation of MDA and Chemical Biological Defense. The agenda topics are listed below in the order in which they were covered. The key points, decisions and action items from the meeting are as follows:

4 Mar 05 ISG Briefing Review – Mr. Shaffer

**Key Points:**

- The TJCSG reviewed the 4 March 2005 ISG Briefing and made various changes.
- Time did not permit discussion beyond chart #6 and time only permitted discussion of a portion of chart #6.

**Decisions:**

- The TJCSG directed Ms. Felix to update the briefing by COB today, 2 March 2005. The TJCSG decided to continue this review at tomorrow's, 3 March 2005, TJCSG Meeting.

MDA Consolidation – Mr. Shaffer

**Key Points:**

- The main issue is whether or not to move the Schriever piece of MDA to Redstone.
- The Schriever workload has 115 Government personnel and 1200 on-site contractors.

**Decisions:**

- The TJCSG decided to exclude moving Schriever from the consolidation of MDA at Redstone.

Chemical Biological Defense – Mr. Shaffer

**Key Points:**

- The TJCSG reviewed the rationale for TECH-0032.

March 2, 2005

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**Decisions:**

- TECH-0032 will remain as approved previously by the TJCSG.

**Other Information:**

- The next TJCSG Meeting will take place on Thursday, 3 March 2005, from 1400-1600 hrs EST, in the Pentagon, Rm 4E987.

**Action Items:**

1. Ms. Felix will update the 4 March 2005 ISG briefing by COB today, 2 March 2005.

Approved: \_\_\_\_\_



Mr. Al Shaffer  
Executive Director  
Technical Joint Cross Service Group

**Attachments:**

1. Outline -Agenda
2. List of Attendees
3. Read Ahead Materials

**Attachment 2**  
**Technical JCSG Meeting**  
**March 2, 2005**  
**Attendees**

**Members:**

Dr. Segal, Chairman  
Mr. Matt Mleziva, Air Force Alternate for Mr. Blaise Durante  
Mr. Brian Simmons, Army  
Dr. Barry Dillon, Marines  
Mr. Don DeYoung, Navy Alternate for RADM Jay Cohen

**Other:**

Mr. Al Shaffer, CIT Chairman  
BG Fred Castle, OSD  
Mr. Gary Strack, OSD  
Mr. Andy Porth, OSD BRAC  
Mr. Jerry Schiefer, OSD BRAC  
Ms. Marie Felix, OSD  
COL Bob Buckstad, OSD  
Dr. Jim Short, OSD

# **TJCSG Agenda**

**2 Mar 05, 1330-1500 hrs EST**  
**Pentagon, Rm 3E1014**

- 4 Mar 05 ISG Briefing Review – Mr. Shaffer
- MDA Consolidation – Mr. Shaffer
- Chemical Biological Defense – Mr. Shaffer



# Technical Joint Cross Service Group Candidate Recommendations

March 4, 2005

Mr. Al Shaffer

Chairman, Technical Joint Cross Service Group

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## RDAT&E Facilities\*

- 3 Functions
  - Research
  - Development & Acquisition
  - Test & Evaluation
- 157,315 FTEs
- ~ \$130B Annual Funding
- 144 Installations



\*With greater than 30 Full time Equivalent personnel



# TJCSG "Principles & Strategies"

## Principles:

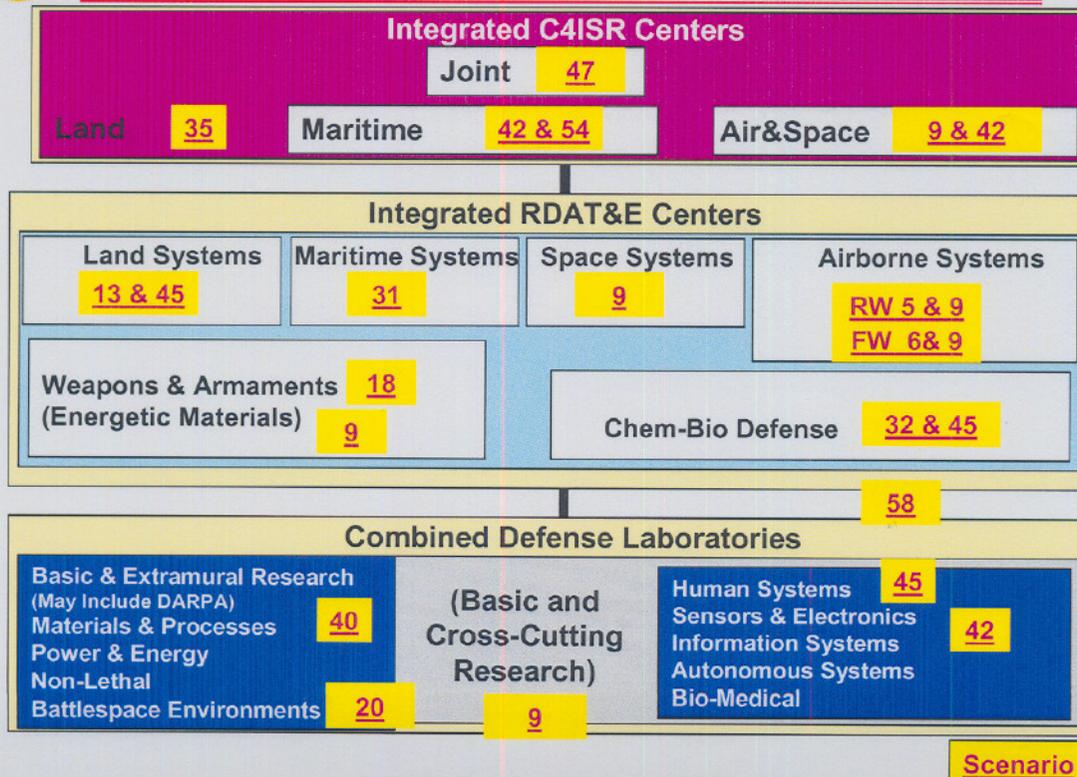
- 1) Ensure Efficiency--Consolidate to a few RDAT&E "Mega Centers"
- 2) Competition of Ideas--Maintain Complementary Sites

## Strategies:

- 1) Establish Defense Research Laboratories
  - A. Consolidate Program Managers
  - B. Reduce Number of In-House Laboratories
- 2) Establish "Integrated" Platform Centers (RDAT&E) for Major Technical Areas
- 3) Establish Air, Land, Maritime and Joint C4ISR Centers
- 4) Position Technical Sites for Jointness



# Candidate Recommendations and TJCSG Transformational Framework





# Scenario Families

	FAMILY	SCENARIOS
Combined Research Lab	1. Extramural Research	40
	2. Defense Research Lab	9A&B
	3. Human Systems	45, 58
	4. Joint Battlespace "Lab"	20
Combined Mission Centers	5. Joint Chem-Bio Defense	32, 45
	6. Land Systems	13, 45
	7. Air Systems (Fixed)	6, 9A
	8. Air Systems (Rotary)	5, 9A
	9. Maritime Systems	31
	10. Space Systems	9A
	11. Weapons & Armaments Systems	18A,B,C,D & E
	12. Energetic Materials	18D
	13. Combined C4ISR	35, 42A&C, 47, 54



# Combined Research Laboratories

- Research End State:
  - **Co-location of Research Program Managers**
    - Seven Sites to Anacostia or Bethesda
  - Consolidation of Research Labs
    - Army—Aberdeen MD and Adelphi
    - Navy—Washington DC and **Stennis Space Center MS**
    - AF—Wright Patterson and Kirtland AFB
  - Retention / Alignment of Product Centered Research for Major Acquisition (Major Defense Acquisition Program) Areas
    - E.G. C4ISR—Adelphi, San Diego, and Hanscom AFB



## Tech 0009A: Defense Research Service Led Laboratories (Air Force Locations)

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**Candidate Recommendation (summary):** Realign AFRL, Brooks City Base by relocating HED to Wright Patterson AFB. Close AFRL Mesa City, AZ and relocate all functions to Wright Patterson AFB. Close Rome Laboratory, NY. Relocate the Sensor Directorate to Wright Patterson AFB and the Information Directorate to Hanscom AFB. Realign AFRL Hanscom by relocating the Sensors Directorate to Wright Patterson AFB and the Space Vehicles Directorate to Kirtland AFB. Realign AFRL Wright Patterson AFB by relocating the Information Systems Directorate to Hanscom AFB.

<p align="center"><b><u>Justification</u></b></p> <ul style="list-style-type: none"> <li>• Reduces number of Air Force Research Laboratory operating locations</li> <li>• Eliminates overlapping infrastructure</li> <li>• Increase efficiency of operations</li> <li>• Closes Rome, Mesa</li> <li>• Facilitates the closure of Brooks City Base</li> </ul>	<p align="center"><b><u>Military Value</u></b></p> <ul style="list-style-type: none"> <li>• Realigning/Closing locations with lower military value to locations with higher military value.</li> <li>• Increases Capability at WPAFB, Kirtland, Hanscom</li> </ul>
<p align="center"><b><u>Payback</u></b></p> <ul style="list-style-type: none"> <li>• One-time cost: \$393M</li> <li>• Net implementation cost: \$204M</li> <li>• Annual recurring savings: \$ 58M</li> <li>• Payback time: 7 years</li> <li>• NPV (savings): \$349M</li> </ul>	<p align="center"><b><u>Impacts</u></b></p> <ul style="list-style-type: none"> <li>• Criterion 6: -457 to -2536 jobs; &lt;0.1 to 1.6%</li> <li>• Criterion 7: No issues</li> <li>• Criterion 8: No impediments</li> </ul>

Strategy   
  Capacity Analysis / Data Verification   
  JCSG/MilDep Recommended   
  De-conflicted w/JCSGs  
 COBRA   
  Military Value Analysis / Data Verification   
  Criteria 6-8 Analysis   
  De-conflicted w/MilDepts

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## #TECH 0058: Realign Human Systems D&A

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**Candidate Recommendation:** Realign Brooks-City Base, TX by relocating the Human Systems Development and Acquisition function to Wright Patterson Air Force Base, OH.

<p align="center"><b><u>Justification</u></b></p> <ul style="list-style-type: none"> <li>• Enhances technical synergy in Human Systems RD&amp;A and Air Platforms RD&amp;A</li> <li>• Reduce infrastructure and lease space</li> <li>• Simplifies organizational structure and concentrates acquisition expertise at one site</li> <li>• Facilitates full closure of Brooks City Base</li> <li>• Supports Tech-0009 realignment of Human Systems Research to WPAFB OH</li> <li>• Supports Med-0025 realignment of 311 HSW, USAF School of Aeromedicine &amp; Operational Health to WPAFB OH</li> </ul>	<p align="center"><b><u>Military Value</u></b></p> <ul style="list-style-type: none"> <li>• WPAFB military value in D&amp;A is essentially the same as Brooks.</li> <li>• WPAFB military value in Research is higher than Brooks.</li> <li>• Military judgment favored WPAFB as location for RD&amp;A because of increased synergy in that area and with Air Platform RD&amp;A at WPAFB</li> </ul>
<p align="center"><b><u>Payback</u></b></p> <ul style="list-style-type: none"> <li>• One-time cost: \$14.2M</li> <li>• Net implementation cost: \$1.8M</li> <li>• Annual recurring savings: \$3.9M</li> <li>• Payback time: 4 years</li> <li>• NPV (savings): \$33.9M</li> </ul>	<p align="center"><b><u>Impacts</u></b></p> <ul style="list-style-type: none"> <li>• Criterion 6: -408 jobs (210 direct, 198 indirect); &lt;0.1%</li> <li>• Criterion 7: No issues</li> <li>• Criterion 8: No impediments</li> </ul>

Strategy   
  Capacity Analysis / Data Verification   
  JCSG/MilDep Recommended   
  De-conflicted w/JCSGs  
 COBRA   
  Military Value Analysis / Data Verification   
  Criteria 6-8 Analysis   
  De-conflicted w/MilDepts

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# TECHS: 09A & 58 – Defense Research Service Led Laboratories (AF Locations)/Realign Human Systems D&A

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# Techs: 9A & 58 (Air Force Locations)

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Scenario	One-Time Cost (M)	Payback (Year)	NPV (M)	Impacts
Tech 0009A Defense Research Labs (AF)	\$393	7	\$349 (savings)	Assist closure of Brooks City Base, Rome & Mesa
Tech 58 Human Systems (AF)	\$14.2	4	\$33.9 (savings)	Assist closure of Brooks City Base

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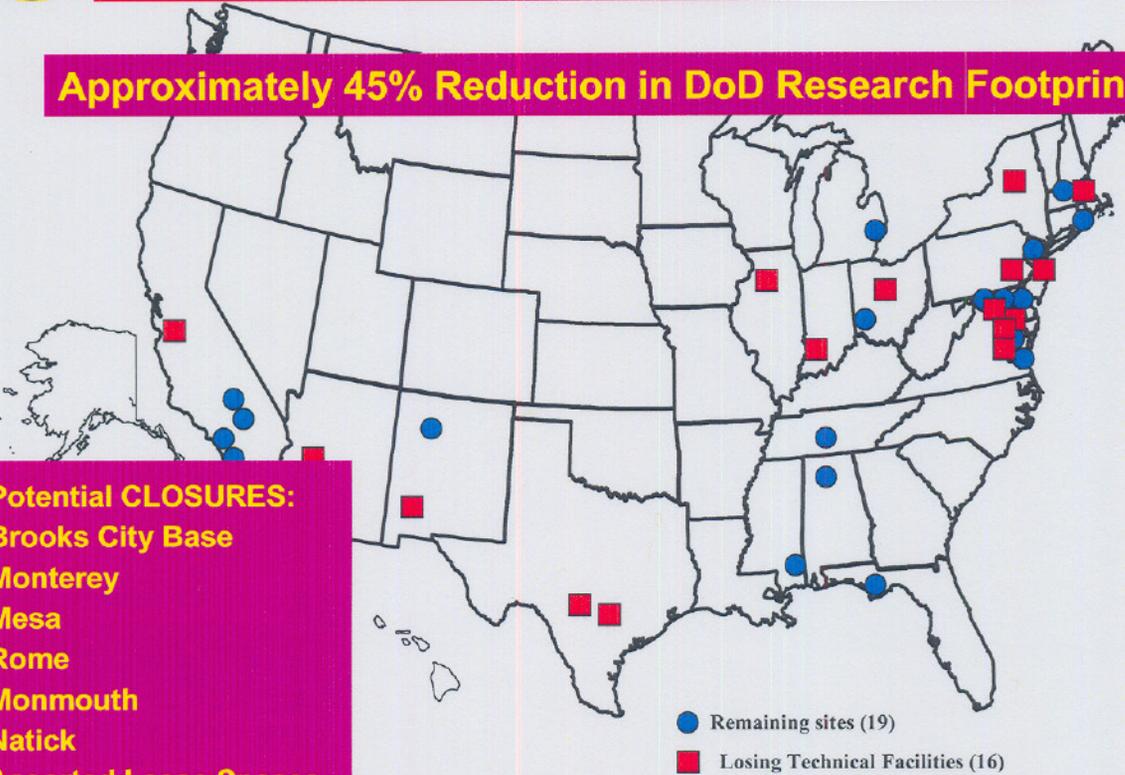
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# TJCSG Research End State

Approximately 45% Reduction in DoD Research Footprint

**Potential CLOSURES:**  
 Brooks City Base  
 Monterey  
 Mesa  
 Rome  
 Monmouth  
 Natick  
 Assorted Lease Spaces



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# Integrated RDAT&E Centers

## Mission Research Center End State

- Co-location, consolidation around larger centers
- Land Systems - Detroit Arsenal & Aberdeen Proving Grounds
- Maritime Systems - Naval Surface Weapons Center Carderock Division & Naval Sea Systems Command Washington Navy Yard
- Space Systems - Kirtland AFB & Los Angeles AFB
- Airborne Systems:
  - Fixed Wing – Wright-Patterson AFB & Patuxent River NAS
  - Rotary Wing – focus around Redstone Arsenal & Patuxent River NAS
- Weapons - focus around “three mega centers”:
  - “Mega Centers”
    - China Lake, Eglin AFB, & Redstone Arsenal
  - Retain Specialty sites:
    - Guns - Picatinny & Dahlgren
    - Surface Ship Combat Systems Integration – Dahlgren
  - Retain Energetic Materials work at 4 sites:
    - China Lake, Eglin, Indian Head, Redstone

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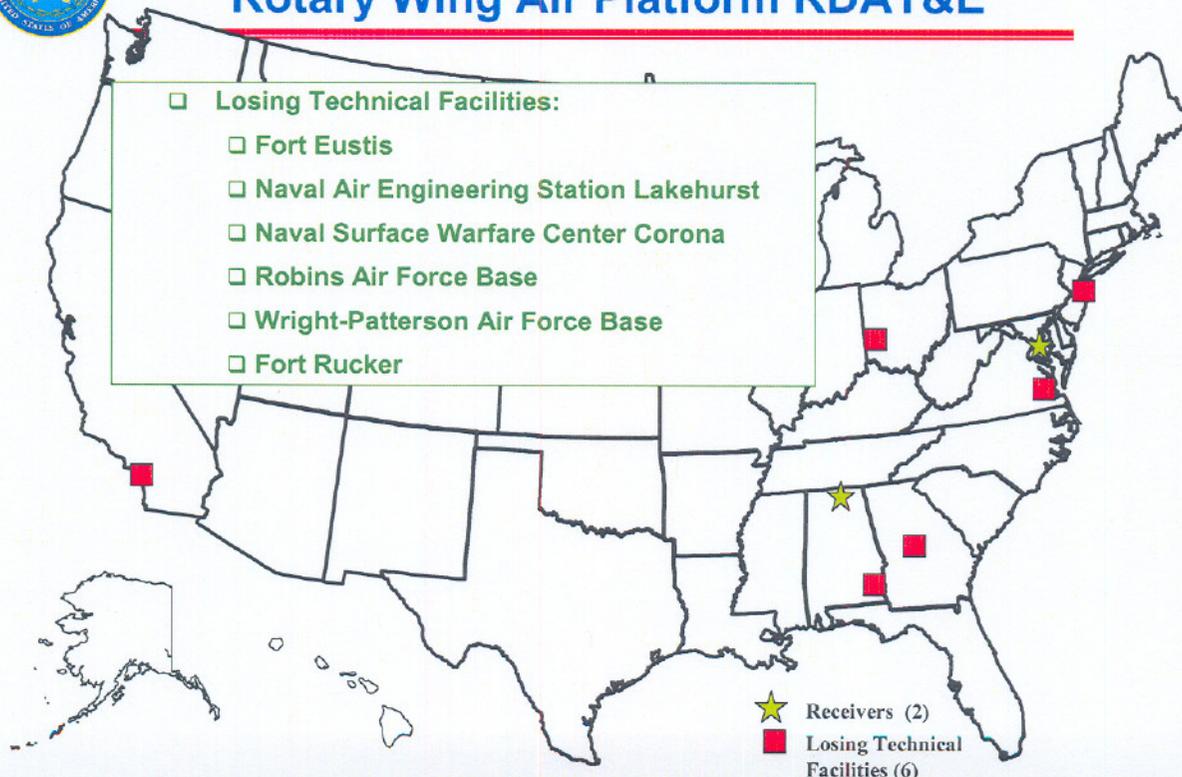
# #Tech-0005: Establish Joint Centers for Rotary Wing Air Platform RDAT&E

**Candidate Recommendation (summary):** Realigns Naval Air Warfare Center Aircraft Division, Lakehurst, NJ, Naval Surface Warfare Center Division, Corona, CA, Air Force Material Command Wright Patterson AFB, OH, Fort Eustis, VA, Fort Rucker, AL, and Warner Robins AFB. Consolidates all rotary wing air platform RDAT&E at Patuxent River, MD and Redstone Arsenal, while retaining specialty sites.

<p align="center"><b>Justification</b></p> <ul style="list-style-type: none"> <li>•Enhances synergy</li> <li>•Preserves healthy competition</li> <li>•Leverages climatic/geographic conditions and existing infrastructure</li> <li>•Minimizes environmental impact</li> <li>•Distributes demand on the telemetry spectrum</li> <li>•Reasonable homeland security risk dispersal</li> </ul>	<p align="center"><b>Military Value</b></p> <ul style="list-style-type: none"> <li>•All moves to Patuxent River go from low to higher military value</li> <li>•Although Redstone Arsenal not highest military value for all functions, military judgment supports Redstone because it reflect an Army strategy to develop a full life-cycle support activity for aviation.</li> </ul>
<p align="center"><b>Payback</b></p> <ul style="list-style-type: none"> <li>• One-time cost: \$101,254K</li> <li>• Net implementation cost: \$74,428K</li> <li>• Annual recurring savings: \$7,863K</li> <li>• Payback time: 17 years</li> <li>• NPV (savings): \$2,028K</li> </ul>	<p align="center"><b>Impacts</b></p> <ul style="list-style-type: none"> <li>• Criterion 6: -56 to -605 jobs; &lt;0.1% to 1.23%</li> <li>•Criterion 7: No issues</li> <li>•Criterion 8: No impediments</li> </ul>

- ✓ Strategy
- ✓ Capacity Analysis / Data Verification
- ✓ JCSG/MilDep Recommended
- ✓ De-conflicted w/JCSGs
- ✓ COBRA
- ✓ Military Value Analysis (Data Verification)
- ✓ Criteria Analysis
- ✓ De-conflicted w/MilDeps

# TECH 05 – Establish Joint Centers for Rotary Wing Air Platform RDAT&E





# #Tech-0006: Centers for Fixed Wing Air Platform RDAT&E

**Candidate Recommendation (abbreviated):** Realign Naval Air Engineering Station Lakehurst, NJ, by relocating fixed wing related Air Platform RDAT&E to NAS Patuxent River. Realign Naval Surface Warfare Center Corona, CA, by relocating fixed wing related Air Platform T&E to NAS Patuxent River. Realign Tinker, Robins, & Hill AFBs by relocating fixed wing related Air Platform D&A Wright Patterson AFB. Realign Wright Patterson AFB by relocating fixed wing related Live Fire T&E to Naval Air Weapons Station China Lake, CA.

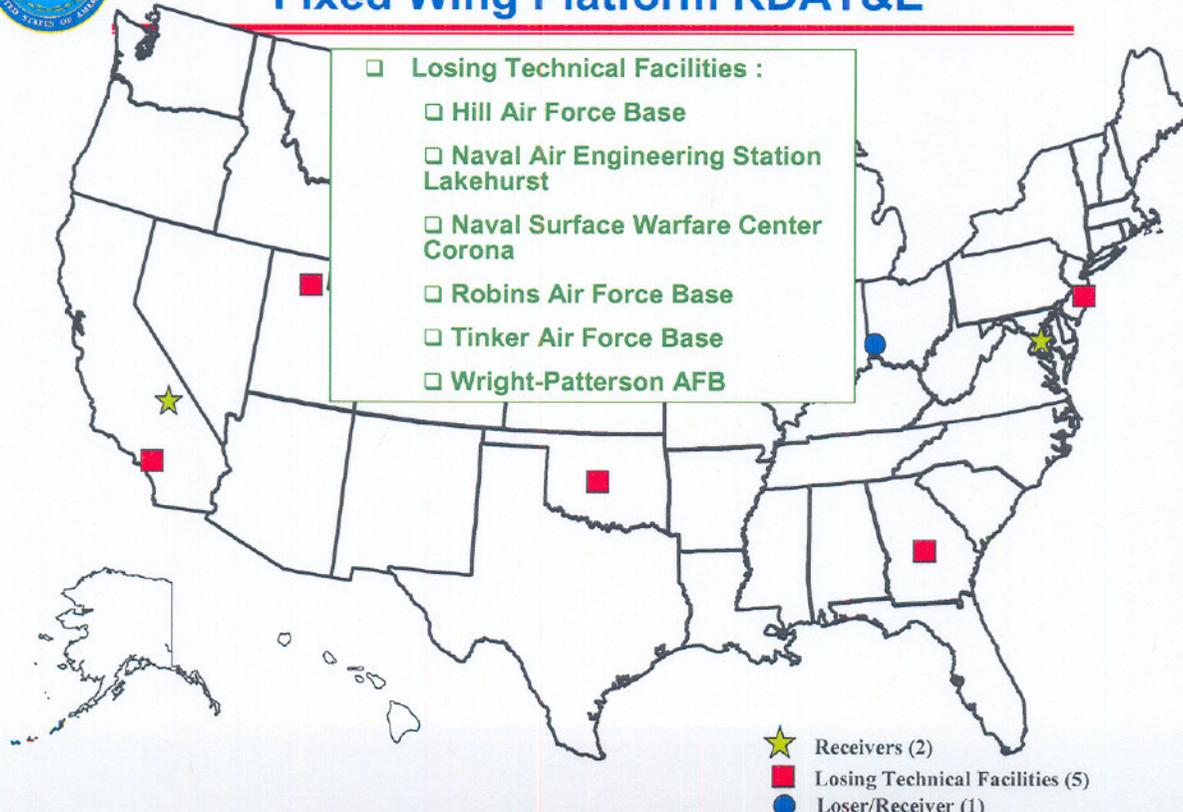
<p align="center"><b>Justification</b></p> <ul style="list-style-type: none"> <li>•Enhances synergy by consolidating fixed wing work to major sites</li> <li>•Preserves healthy competition</li> <li>•Leverages climate/geographic conditions and existing infrastructure</li> <li>•Minimizes environmental impact</li> <li>•Provides reasonable home security risk dispersal</li> </ul>	<p align="center"><b>Military Value</b></p> <ul style="list-style-type: none"> <li>•All functions move to locations with a higher military value score for that function.</li> </ul>
<p align="center"><b>Payback</b></p> <ul style="list-style-type: none"> <li>• One-time cost: \$68.692M</li> <li>• Net implementation cost: \$ 47.234M</li> <li>• Annual recurring savings: \$ 6.496M</li> <li>• Payback time: 13 yrs</li> <li>• NPV (savings): \$15.261M</li> </ul>	<p align="center"><b>Impacts</b></p> <ul style="list-style-type: none"> <li>•Criterion 6: -31 to -873 jobs; &lt;0.1% to 0.1%</li> <li>•Criterion 7: No issues</li> <li>•Criterion 8: No impediments</li> </ul>

- ✓ Strategy
- ✓ Capacity Analysis / Data Verification
- ✓ JCSG/MilDep Recommended
- ✓ De-conflicted w/JCSGs
- ✓ COBRA
- ✓ Military Value Analysis (Data Verification)
- ✓ Criteria 6-8 Analysis
- ✓ De-conflicted w/MilDeps

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# TECH 06 Establish Joint Centers for Fixed Wing Platform RDAT&E



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### Tech-0018A: W&A RDAT&E Integrated Center at Eglin

**Candidate Recommendation:** Realign Hill Air Force Base, UT by relocating Weapons/Armaments In-Service Engineering Research, Development & Acquisition, and Test and Evaluation to Eglin Air Force Base, FL. Realign Fort Belvoir, VA by relocating Defense Threat Reduction Agency National Command Region conventional armament Research to Eglin Air Force Base, FL.

<p><b>Justification</b></p> <ul style="list-style-type: none"> <li>• Enhance W&amp;A life cycle / mission-related synergies</li> <li>• Multiple use of equipment/ facilities/ ranges/ people</li> <li>• Has one of the required ranges for W&amp;A</li> <li>• Facilitates 1 closure (savings not in payback)</li> </ul>	<p><b>Military Value</b></p> <ul style="list-style-type: none"> <li>• Eglin has a higher military value in RDAT&amp;E than Hill &amp; DTRA</li> </ul>
<p><b>Payback</b></p> <ul style="list-style-type: none"> <li>• One-time cost: \$2.8M</li> <li>• Net implementation savings: \$3.0M</li> <li>• Annual recurring savings: \$1.5M</li> <li>• Payback time: 2 years</li> <li>• NPV (Savings) \$16.2M</li> </ul>	<p><b>Impacts</b></p> <ul style="list-style-type: none"> <li>• Criteria 6: -68 jobs (35 direct, 33 indirect); &lt;0.1%</li> <li>• Criteria 7: No issues</li> <li>• Criteria 8: Several issues but no impediments</li> </ul>

- ✓ Strategy
- ✓ Capacity Analysis / Data Verification
- ✓ JCSG/MilDep Recommended
- ✓ De-conflicted w/JCSGs
- ✓ COBRA
- ✓ Military Value Analysis / Data Verification
- ✓ Criteria 6 Analysis
- ✓ De-conflicted w/MilDeps

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### Tech-0018B: W&A RD&A Guns and Ammunition Specialty Site at Picatinny Arsenal

**Candidate Recommendation (summary):** Realign Guns & Ammo RD&A from Adelphi, MD; Indian Head, MD; Crane, IN; Dahlgren, VA; Louisville, KY; Fallbrook, CA; & China Lake, CA to Picatinny Arsenal, NJ; realign weapons packaging from Earle, NJ to Picatinny Arsenal, NJ. Retain Over Water Gun Range at Dahlgren, VA.

<p><b>Justification</b></p> <ul style="list-style-type: none"> <li>• Enhance Guns &amp; Ammo jointness and synergy</li> <li>• Combine weapons packaging in Army &amp; Navy</li> <li>• Ensure synergy with gun production capability</li> <li>• Maintain Navy unique capability for large caliber gun T&amp;E; Retain existing Army test sites and major research site</li> <li>• Facilitates 5 closures (savings not in COBRA)</li> </ul>	<p><b>Military Value</b></p> <ul style="list-style-type: none"> <li>• Picatinny has highest MV for guns/ammo in both Research and D&amp;A</li> </ul>
<p><b>Payback</b></p> <ul style="list-style-type: none"> <li>• One-time cost: \$120M</li> <li>• Net implementation cost: \$83.9M</li> <li>• Annual recurring savings: \$11.6M</li> <li>• Payback time: 13 years</li> <li>• NPV(Savings) \$28.4M</li> </ul>	<p><b>Impacts</b></p> <ul style="list-style-type: none"> <li>• Criteria 6: -11 to 506 jobs; &lt;0.1% to 4.9%</li> <li>• Criteria 7: No issues</li> <li>• Criteria 8: No impediments</li> </ul>

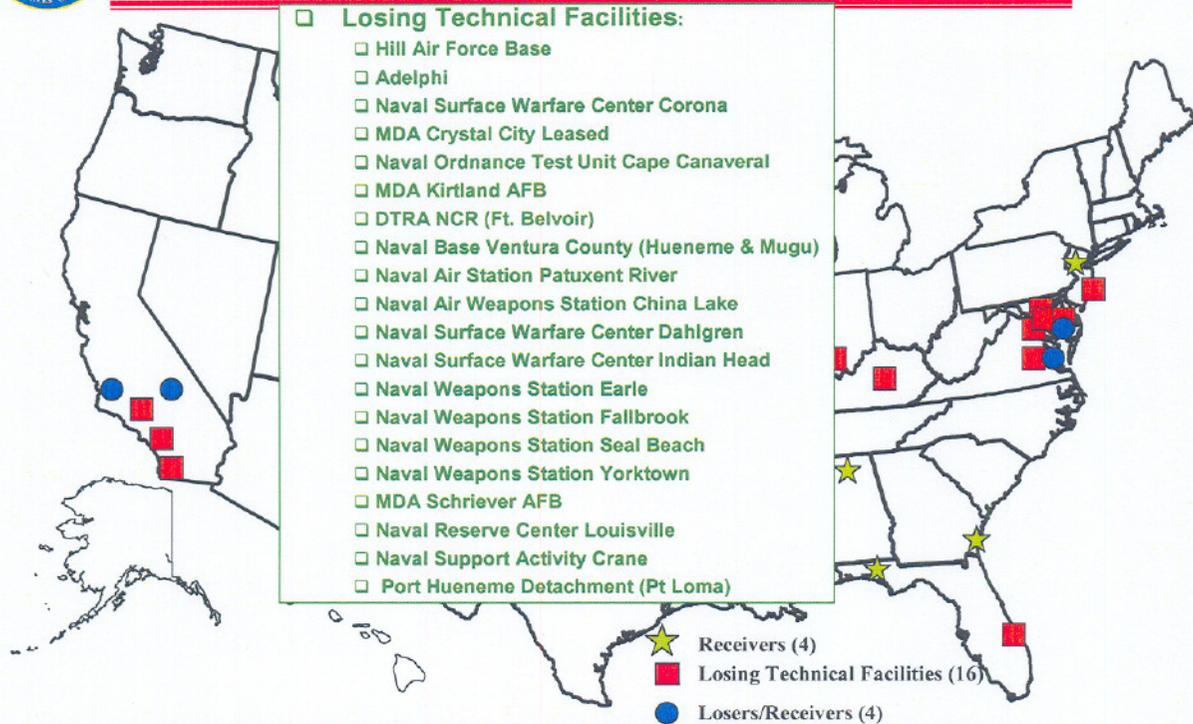
- ✓ Strategy
- ✓ Capacity Analysis / Data Verification
- ✓ JCSG/MilDep Recommended
- ✓ De-conflicted w/JCSGs
- ✓ COBRA
- ✓ Military Value Analysis / Data Verification
- ✓ Criteria 6 Analysis
- ✓ De-conflicted w/MilDeps

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# Tech 18 W&A RDAT&E Integrated Mega Centers

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**ESTABLISHED 3 W&A MEGA CENTERS AND 2 W&A SPECIALTY CENTERS**

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As of 01/07/05



# Integrated RDAT&E Centers

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Candidates	One Time Cost (M)	Payback Time (years)	NPV (M)	Impacts
Tech 0005 Rotary Wing	\$101.2	17	\$2.02 (savings)	Retain Aircraft Launch & recovery Equip @ Lakehurst
Tech 0006 Fixed wing	\$68.69	13	\$15.26 (savings)	Consolidates WPAFB Live Fire T&E @ China Lake
Tech 0018A Integrated Eglin Weapon Center	\$2.8	2	\$16.2 (savings)	Creates a "Mega Center" @ Eglin
Tech 0018B Guns/ammo @ Picatinny	\$120	13	\$28.4 (savings)	Facilitates 5 potential closures

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# Combined C4ISR Centers

- Create Domain Specific C4ISR Centers with an Overarching Joint Management Center
  - Joint Management Center at Peterson AFB
  - Land Centers at Ft. Belvoir and Adelphi MD
  - Maritime Centers at San Diego and Dahlgren
  - Air Centers at Hanscom and Wright Patterson AFB
  - Specialty Center (underwater) at Newport RI
  - Specialty Test Center at Edwards AFB



## #Tech-0042A: MARITIME C4ISR RDAT&E

**Candidate Recommendation (Summary):** Relocate Surface Maritime Sensors, Electronic Warfare, and Electronics RDAT&E to Naval Surface Warfare Center Division, Dahlgren, VA. Relocate Sub-surface Maritime Sensors, Electronic Warfare & Electronics RDAT&E to Naval Station Newport, RI. Relocate Maritime Information Systems RDAT&E to Space Warfare Center San Diego, CA.

<u>Justification</u>	<u>Military Value</u>
<ul style="list-style-type: none"> <li>•Reduce Technical Facilities from 11 to 4</li> <li>•Increase likelihood of fielding interoperable systems</li> <li>•Eliminate overlapping infrastructure</li> <li>•Increase efficiency of operations</li> <li>•Facilitate the closure of Corona &amp; Crane</li> </ul>	<ul style="list-style-type: none"> <li>•Dahlgren has the highest MV in Sensors, EW and Electronics Research and one of the highest in D&amp;A and T&amp;E.</li> <li>•San Diego has the highest MV in Information Systems D&amp;A.</li> <li>•Newport has the highest MV in Sensors, EW and Electronics RDAT&amp;E.</li> </ul>
<u>Payback</u>	<u>Impacts</u>
<ul style="list-style-type: none"> <li>• One-time cost: \$152.01M</li> <li>• Net implementation cost: \$104.67M</li> <li>• Annual recurring savings: \$10.4M</li> <li>• Payback time: 18 years</li> <li>• NPV (savings): \$2.9M</li> </ul>	<ul style="list-style-type: none"> <li>• Criterion 6: -63 to 1069 jobs; &lt;0.1 to 10.1%</li> <li>• Criterion 7: No issues</li> <li>• Criterion 8: No impediments</li> </ul>



# #Tech-0042C: Air & Space C4ISR DAT&E Consolidation

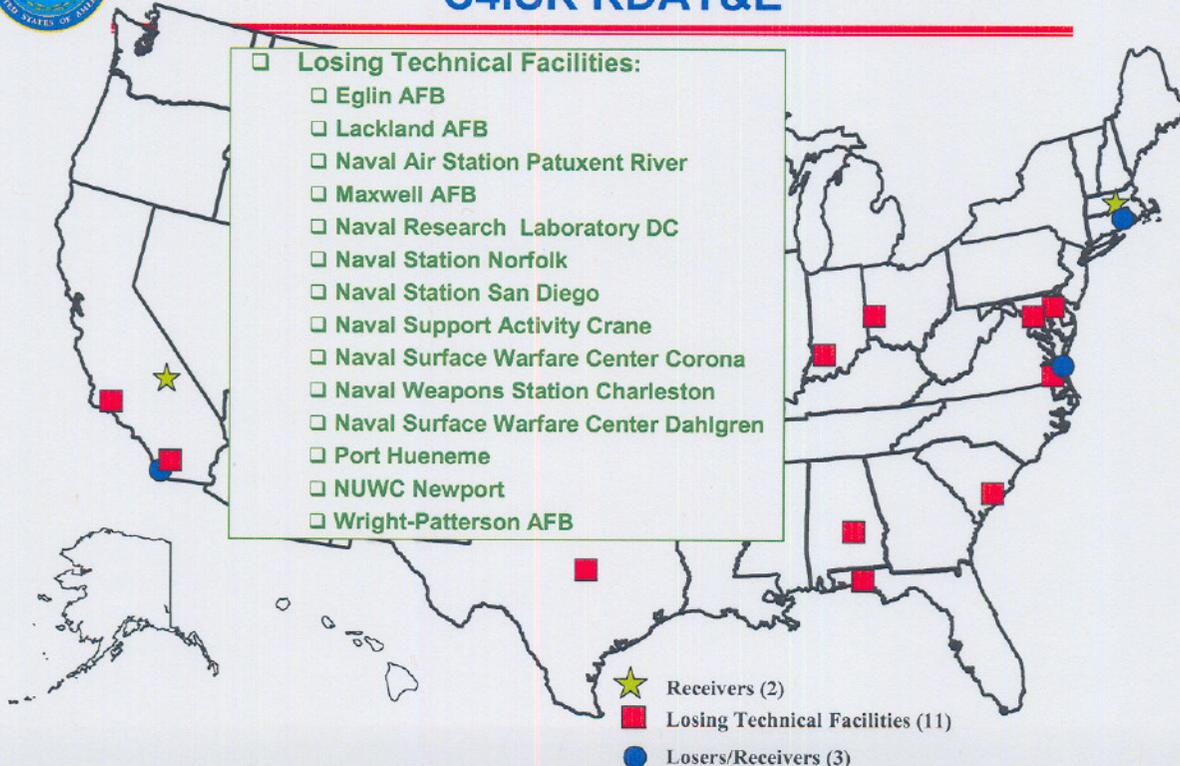
**Candidate Recommendation:** Realign Wright-Patterson Air Force Base, OH, Maxwell Air Force Base, AL, and Lackland Air Force Base, TX, by relocating Air & Space Information Systems Development & Acquisition to Hanscom Air Force Base, MA. Realign Eglin Air Force Base, FL, by relocating Air & Space Sensors, Electronic Warfare & Electronics and Information Systems Test & Evaluation to Edwards Air Force Base, CA.

<p align="center"><b>Justification</b></p> <ul style="list-style-type: none"> <li>•Reduce Technical Facilities from 6 to 2</li> <li>•Increase likelihood of fielding interoperable systems</li> <li>•Eliminate overlapping infrastructure</li> <li>•Increase efficiency of operations</li> </ul>	<p align="center"><b>Military Value</b></p> <ul style="list-style-type: none"> <li>•Hanscom AFB, MA has the highest MV in Air Information Systems D&amp;A. Military judgment indicated Information Systems RD&amp;A should be at location with highest MV in D&amp;A - the largest workload.</li> <li>•Edwards AFB, CA has the highest MV in Air Sensors, EW and Electronics T&amp;E and Air Information Systems T&amp;E among installations with suitable Open Air Ranges.</li> </ul>
<p align="center"><b>Payback</b></p> <ul style="list-style-type: none"> <li>• One-time cost: \$51.1M</li> <li>• Net implementation savings: \$19.3M</li> <li>• Annual recurring saving: \$13.12M</li> <li>• Payback time: 4 years</li> <li>• NPV (savings): \$137.03M</li> </ul>	<p align="center"><b>Impacts</b></p> <ul style="list-style-type: none"> <li>• Criterion 6: -212 to -2754; &lt; 0.1 to 1.33%</li> <li>•Criterion 7: No issues</li> <li>•Criterion 8: May have to build on constrained acres at Hanscom. No impediments</li> </ul>

✓ Strategy      ✓ Capacity Analysis / Data Verification      ✓ JCSG/MilDep Recommended      ✓ De-conflicted w/JCSGs      23  
 ✓ COBRA      ✓ Military Value Analysis / Data Verification      ✓ Criteria 6-8 Analysis      ✓ De-conflicted w/MilDeps  
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# TECH 42 Consolidate Domain-Centric C4ISR RDAT&E





# #Tech-0047: Combatant Commander C4ISR Development & Acquisition Consolidation

**Candidate Recommendation (abbreviated):** Realign DISA Leased Space in Bailey's Crossroads, VA, by relocating GIG-BE, GCCS, GCSS, NCES, and Teleport Program Offices to Peterson AFB, CO. Realign NAVSURFWARCEN, Panama City, FL, by relocating DJC2 Program Office to Peterson AFB, CO. Realign Ft. Monmouth, NJ, by relocating JNMS Program Office to Peterson AFB, CO. Close the JTRS Program Office leased space in Crystal City, VA. Relocate all functions to Peterson AFB, CO.

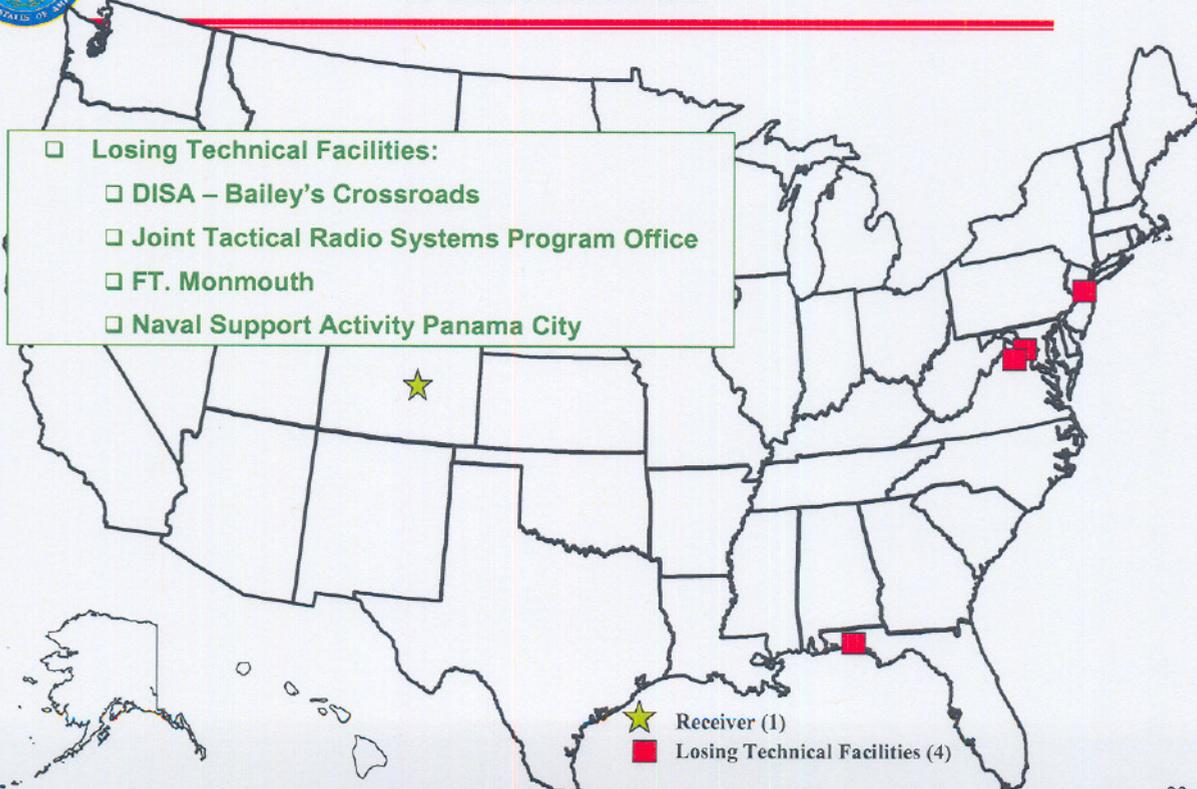
<p><b>Justification</b></p> <ul style="list-style-type: none"> <li>• Establish Joint C4ISR development &amp; acquisition capability co-located with a Combatant Commander</li> <li>• More efficient use of retained assets</li> </ul>	<p><b>Military Value</b></p> <ul style="list-style-type: none"> <li>• Military Judgment finds military value locating C4ISR D&amp;A with a Combatant Commander</li> <li>• Peterson Air Force Base, home of NORTHCOM, had the highest C4ISR technical military value among locations hosting combatant commanders</li> </ul>
<p><b>Payback</b></p> <ul style="list-style-type: none"> <li>• One-time cost: \$13.88M</li> <li>• Net implementation cost: \$1.68M</li> <li>• Annual recurring savings: \$2.08M</li> <li>• Payback time: 5 years</li> <li>• NPV (savings): \$17.28M</li> </ul>	<p><b>Impacts</b></p> <ul style="list-style-type: none"> <li>• Criteria 6: -6 to 881 jobs; &lt;0.1% in all ROIs</li> <li>• Criteria 7: No issues</li> <li>• Criteria 8: No impediments</li> </ul>

- ✓ Strategy
- ✓ Capacity Analysis / Data Verification
- ✓ JCSG/MilDep Recommended
- ✓ De-conflicted w/JCSGs
- ✓ COBRA
- ✓ Military Value Analysis / Data Verification
- ✓ Criteria 6-8 Analysis
- ✓ De-conflicted w/MilDeps

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# TECH 47 Consolidate Combatant Cmdr C4ISR DAT&E



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# Combined C4ISR Centers

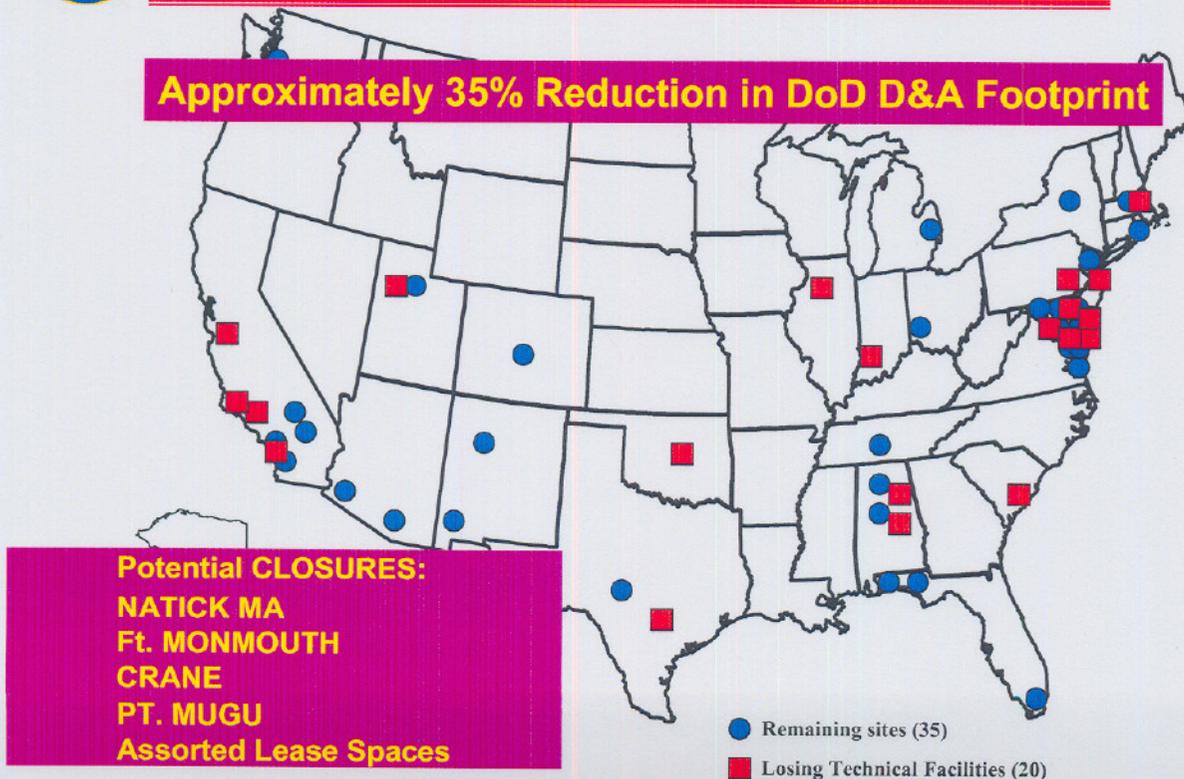
Candidates	One Time Cost (M)	Payback Time (years)	NPV (M)	Impacts
Tech 0042A Maritime	\$152.01M	18	\$2.9M (savings)	Facilitates potential closure of Corona & Crane Reduce Tech facilities from 11 to 4
Tech 0042C Air & Space	\$51.1M	4	\$137.03M (savings)	Reduce Tech facilities from 6 to 12
Tech 0047 Combatant Cmdr	\$13.88M	5	\$17.28M (savings)	Close leased space in Crystal City & Bailey's Crossroads.

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# TJCSG Development & Acquisition End State

Approximately 35% Reduction in DoD D&A Footprint



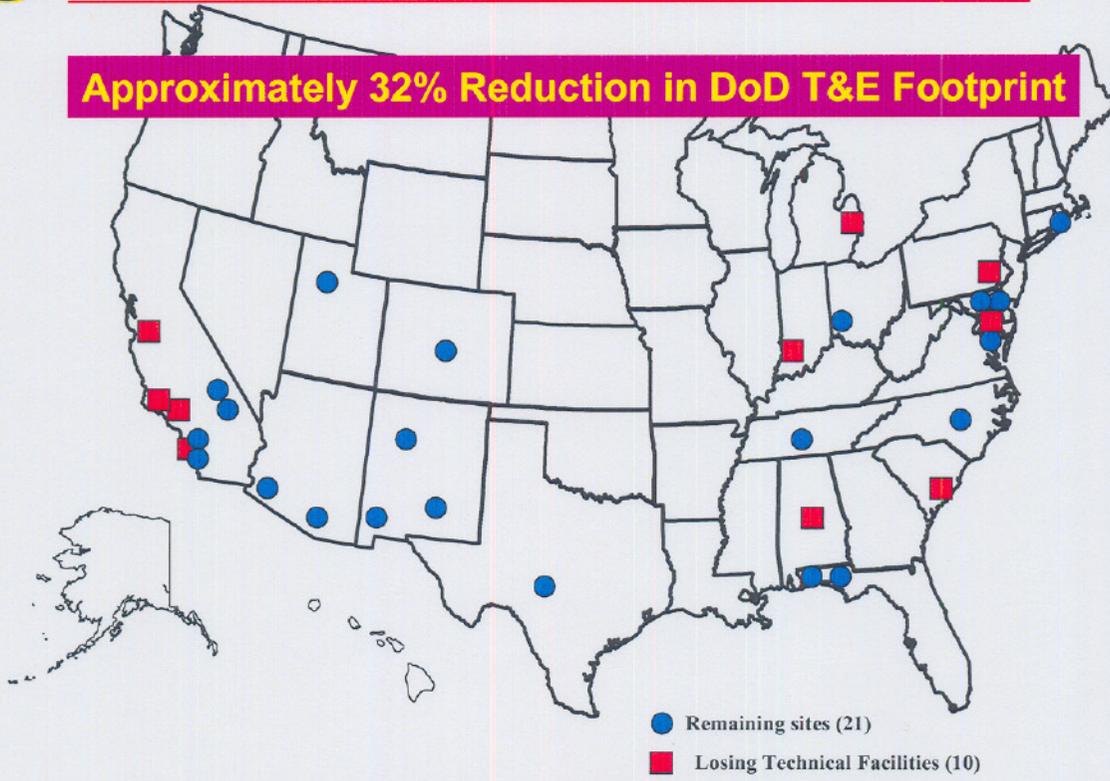
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# TJCSG Testing & Evaluation End State

BRAC FOUO

**Approximately 32% Reduction in DoD T&E Footprint**



# MDA Consolidation

## Discussion Points for TJCSG

3/2/05

W&A Subgroup

Rev 1

## Overview

- Issue: Have we over-consolidated MDA footprint?
  - MDA Program Office and on-site contractor non-operational support [NCR, Schriever, Kirtland] relocating to Redstone
- Discussion:
  - MDA primarily outsources technical functions vs in-house
    - Large network of contractors, government and other laboratories across the country
  - TJCSG scenario strategy supports competition of ideas for Missile Defense
    - Major players still in place across the nation
    - Mega-center W&A strategy strengthens some existing locations for technical work
    - Foundation for expanded collaboration on National Missile Defense network [C4ISR and W&A]

# MDA Functions: Examples

- Missile Defense Mission: Joint Army, Navy, USAF
  - TBMD
    - Terminal [e.g. Patriot PAC3]
    - Midcourse [short and long range; e.g. Ground Ballistic Missile/NMD; Standard Missile-3; THAAD; ground based intercept]
    - Boost Phase [e.g. Air-Borne Laser; early Kinetic Energy Interceptor]
  - Cruise Missile Defense [involvement for land targets; Navy does ship targets]
  - National Missile Defense Network
    - e.g. Space Based IR, sensor/ satellite networks
  - ICBM [e.g. Trident, Minuteman...]
- Movement of MDA still supports competition of ideas
  - Retains involvement of multiple organizations and technical skills
  - MDA Huntsville remains intact at contractor site with govt personnel
  - Movement of MDA NCR, Schriever and Kirtland increases synergy and efficiency of MDA

# Organizational Involvement: Examples

- Army:
  - Space & Missile Defense Command (SMDC) at Huntsville: Ground based Missile Defense; endo-/exo-atmospheric interceptors; tracking radars for THAAD and GMD; Patriot PAC-3 ERINT development
  - SMDC at CO: operational missile defense that supports joint space community and some operational tests of GMD
- Navy:
  - China Lake: Propulsion/ divert system; signal processing/hit to kill; imaging seeker; system engineering
  - Indian Head: lead 3<sup>rd</sup> stage rocket motor development
  - Dahlgren: Safety; ship system interfaces
  - Pt Hueneme: Fleet ISE
  - PMRF/ Kwajalein...: T&E
  - SPAWAR: Network sensors/ satellites/ radar
- USAF:
  - WSMR, Kirtland, AFRL Edwards/ Hanscom; Vandenberg: Air-Borne Laser
  - Eglin: Patriot T&E, KKV HWIL; seeker/tracker/buידance studies; THAAD conops; early missile work & Star Wars participation
- Other:
  - Applied Physics Lab: Technical Design Agent
  - Lincoln Labs: Discriminators/ Sensors
  - National Reconnaissance Office: networks
- <sup>3/2/05, rev 1</sup> ~~Belvoir and Prime contractors~~ ~~PARCOS~~ ~~International Missile Defense Teams~~<sup>4</sup>

## Capabilities for Expansion

- Proposed W&A Mega Centers form a strong foundation for expansion to ensure competition of ideas in Missile Defense:
  - Centers are currently involved in critical technologies for Missile Defense
  - Existing expertise for conventional weapons complements and overlaps Missile Defense technologies [missile subsystems, systems, system integration, networking, testing...]
  - China Lake, Eglin, Redstone form center of mass for Army, Navy, USAF ground-to-air, air-to-ground, air-to-air, ground-to-ground, surface launched weapons.
  - Each has laboratory facilities and personnel for research and D&A, and T&E for missile, including technical investigations and support of Services' missile systems and lab experiments for new missile developments.
- Proposed realignments increase synergy and capability at Mega Centers required for Missile Defense

## Excursion for MDA Move

- COBRA run to delete movement of MDA Shriever to Redstone
  - Move only MDA NCR and MDA at Kirtland
- Minimal impact to COBRA results
  - Payback of 1 year
  - ~\$3.5M less one time cost
  - ~\$5M less implementation savings
  - ~\$2.4M less savings per year
  - Move 119 fewer people

# TECH 18C: COBRA Run Comparison

## Include MDA CO [Schriever] and Delete MDA CO [Schriever]

TECH 018 Part 3	Move Year[s]	One Time Costs in \$K	Payback Time in years	NPV in 2025 in \$K	MILCON in \$K	Positions Eliminated	Positions Realigned	Net Implementation Savings/ (cost) thru 2011 in \$K	Annual Recurring Savings/ (cost) in 2011 in \$K
Part 3: Redstone Receiver									
TECH 18 Part 3; EXCURSION 5 [REVISED AND FINAL 2/15/05] [15% ALL govt [admin and tech] & KTR deleted; MDA govt and contractors @ Huntsville stay @ contractor site; rest [govt + contractor other than Huntsville] who move go to govt MILCON]. Fix Screen	'06 to '08	\$173,281	1 year	\$2,162,617	\$125,360	221	760	\$410,683	\$192,853
TECH 18 Part 3; EXCURSION 5 [without MDA Colorado; 3/1/05] [15% ALL govt [admin and tech] & KTR deleted; MDA govt and contractors @ Huntsville stay @ contractor site; rest [govt + contractor other than Huntsville] who move go to govt MILCON]. Fix Scr	'06 to '08	\$169,625	1 year	\$2,135,883	\$0	200	641	\$405,544	\$190,477

**Chemical Biological Defense (CBD) and Tech 32 in Perspective**

**-- Tech 32 does not capture all of the CBD RDAT&E being done by the DoD**

The Tech 32 Draft Candidate Recommendation approved by the ISG proposes the following realignments (consolidations/co-locations):

Realign **Medical Biological Defense Research** to **Ft Detrick, MD** from:

Army: Walter Reed Medical Center, DC

Navy: Navy Medical Research Center, Silver Spring

Realign **Medical Chemical Defense Research** to **Aberdeen PG, MD** from:

Army: Walter Reed Medical Center, DC

Realign **Non-Medical Chemical and Biological Defense Research** and **D&A** to **Aberdeen PG, MD** from:

DTRA : Chemical Biological Defense **Research** Component, FT. Belvoir

Air Force: AFRL, Tyndall AFB, FL – **Research**

311th Wing, Brooks City Base, TX – **D&A**

Navy: NSWC, Dahlgren Division, VA – **Research** and **D&A**

NSWC, Crane Division, IN – **D&A**

Army: Joint PEO CBD, Falls Church, VA – **D&A**

**-- Tech 32 does not involve any realignment of CBD T&E** which is done mainly at Dugway PG, UT and Aberdeen PG, MD

**-- Tech 32 does not include any of the following locations** which reported R and/or D&A capacity in CBD, but reported < 30 FTEs working CBD or reported any capacity in T&E or was included in another Draft Recommendation (Such as the DRL):

Defense Agencies: DARPA - **R**

Army: Soldier Systems Center, Natick , MA - **R, D&A**

USA 2, Great Lakes, IL – **R, D&A**

WSMR, NM – **D&A, T&E**

Dugway PG, UT – **T&E**

Ft Hood, TX – **T&E**

Aberdeen PG, MD - **T&E**

Yuma PG, AZ – **T&E**

Ft Huachuca – **T&E**

Navy: USN 2 , San Diego, CA – D&A  
NRL, DC – R, D&A  
USN 8, PAX – R, D&A, T&E  
NAVCLOTEXTRSFAC, Natick, MA – R, D&A, T&E  
USN 3, Port Hueneme, CA – R  
SPARWARSSYSCEN, Charleston, SC – D&A  
USN 2, Quantico, VA – D&A, T&E  
COMOPTEVFOR, Norfolk, VA – T&E  
NSWC, Crane Div, IN – T&E

Air Force: Kirtland, AFB, NM – T&E

Additional points for consideration:

Both NSWC, Dahlgren, VA and Dugway PG, UT have BSL-3 Facilities. However, it is my understanding that the Dahlgren facility is more limited in capability.

Both NIH and DHS have, or are building, infrastructure at Ft. Detrick to do related CBD work.

Contractors such as Battelle, Columbus, OH and the SouthWest Research Institute, San Antonio, TX both have facilities do contract work for DoD in CBD. There probably are others, but these are the two big ones that come to mind.

The Rationale for the realignments proposed in Tech 32 is:

This recommendation promotes jointness, enables technical synergy, and positions the Department of Defense to exploit a center-of-mass of scientific, technical, and acquisition expertise with the personnel necessary to provide defense against current and emerging chemical and biological warfare threats. This action completes earlier consolidations of military Service Chemical Biological Defense programs into a joint, consolidated Chemical Biological Defense program. This recommendation directly supports the Department's Strategy for Homeland Defense and Civil Support.

Bill Berry – Enabling Technologies Lead  
3/2/05



