

**BRAC 2005**  
**Technical Joint Cross-Service Group (TJCSG)**  
**Meeting Minutes of 19 January 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 provide a TJCSG High Level Overview briefing to the TJCSG Principals. The key points, decisions and action items from the meeting are as follows:

TJCSG High Level Overview Briefing – Mr. Shaffer

**Key Points:**

- This briefing was primarily for the TJCSG Principals to capture the TJCSG overarching framework and candidate recommendations. A version of this briefing will be used to show the ISG the TJCSG's first set of candidate recommendations.
- It was noted the briefing initially mentions FTEs and does not address Capacity and Military Value.
- The number of FTEs includes Government personnel and on-site contractors.
- On Chart #14, Scenario Families, Energetic Materials workload is accomplished primarily at the product or warfare centers. The TJCSG believes it will be too disruptive to look at consolidating this any further than it is today.

**Decisions:**

- On slide #3, "Product/In-Service Life-Cycle Support" will be changed to "Product/In-Service Engineering Life-Cycle Support".
- On Slide #3, the Contracting field will be captured in the Development and Acquisition function.
- A DoD Life Cycle Management Timeline Chart will be used for Chart#3 to show where each of these functions fit in this timeline.
- On Chart #5, the Budget Appropriation Authorities will be shown for the three functions.
- On Chart #5, the total number of technical installations will be shown as a subset of the 113 total number of installations.
- The complete set of TJCSG Guiding Principles will be added to the briefing as well as examples of how the TJCSG applied these in our particular scenarios.
- The assurance of providing effective systems for the warfighter for both now and in the future will be included in the TJCSG Guiding Principles chart.
- Charts #8 and 9, 25 Largest Installations/Facilities by FTE, will be moved to be shown as a back-up slides.
- On Chart #11, the total number of anticipated recommendations as well as the expected delivery dates will be added.

- On Chart #13, it needs to be noted that T&E was addressed in every strategic block on this slides as were Research and D&A. Also, negative excess capacity was found for T&E. Finally, the ranges are already co-located with the Research and/or D&A functions.
- On Chart #14, the "Preferred" notes will be deleted.
- On Chart #16, TJCSG Transformational Framework, the Combined Defense Research Laboratory box needs to be modified to be consistent with the associated TJCSG scenario and the resulting end state.
- On Chart #17, the statement, "Leaves 3 Major Lab Facilities not Collocated with Platform Centers", in the last bullet, will be deleted.

Closing Remarks

- The IG recommended having the subgroups tighten up their rationale for their various actions associated with their respective scenarios.

The next TJCSG Meeting will take place on Thursday, 20 January 2005, from 1400-1600 hrs EST, in Crystal City, PT-1, Rm 4600.

**Action Items:**

1. Mr. Strack will search the archives to find the TJCSG Guiding Principles so these can be added to the briefing. This will be completed by COB today.
2. The Analysis Team will look at how many technical facilities have been impacted by the TJCSG active scenarios and add this number to the briefing.
3. COL DeSalva will check on the availability of Room 9200 for the Thursday, 20 January 2005, TJCSG Meeting, so the Army and Marine Principals are able to utilize the VTC capability.

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

Mr. Al Shaffer

Chairman, Capabilities Integration Team

**Attachments:**

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

January 19, 2004

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**Attachment 2**  
**Technical JCSG Meeting**  
**January 19, 2005**  
**Attendees**

**Members:**

Dr. Ron Sega, Chairman  
Dr. Dan Stewart, Air Force Alternate for Mr. Blaise Durante, Air Force  
Mr. Brian Simmons, Army  
Dr. Barry Dillon, Marines  
RADM Jay Cohen, Navy  
Mr. Jay Erb, JCS (via telephone)

**Other:**

Mr. Al Shaffer, CIT Chairman  
BG Fred Castle, OSD  
Mr. Gary Strack, OSD  
COL Bob Buckstad, OSD  
Mr. Andy Porth, OSD BRAC  
Mr. Roger Florence DoD IG  
Dr. Jim Short, OSD  
COL Pete DeSalva, Marines

# **TJCSG Agenda**

**19 Jan 05, 1000-1200 hrs EST**

**Pentagon, Rm 3E1014**

- TJCSG High Level Overview Briefing – Mr. Shaffer



# The Technical Joint Cross Service Group – High Level Overview

Presented to TJCSG

By Mr. Shaffer

19 Jan 05

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## Purpose and Outline

### Purpose

- High Level view of TJCSG activities

### Outline

- Review
- Scenarios
  - Defense Research Lab
  - C4ISR
  - Ground
  - Maritime
  - Space
  - Air
  - Weapons



## Technical Functions

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- **Research**
  - Basic Research
  - Exploratory Development
  - Advanced Development
- **Development and Acquisition**
  - Systems Development & Demonstration
  - System Modifications
  - Experimentation and Concept Demonstration
  - Product/In-service Life-Cycle Support
- **Test and Evaluation**
  - Developmental Test and Evaluation (DT&E)
  - Operational Test and Evaluation (OT&E)



## Definitions and Terms

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- **Technical Facility** - a collection of people and physical infrastructure that performs technical Function in a specific technical capability area at a specific location.
- **Family of Scenarios** – Scenarios that address the same technical end state at different locations.
- **Full Time Equivalent (FTE)** – based on 2087 hour work year



## DoD Technical Universe Demographics

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- Number of Installations: 113
- Number of Facilities > 30 FTEs: XXX
- Total FTEs: 157,315
  - Professional and Technical FTEs: 96,730
- Total Annual Funding: \$136.2 billion; About right—  
R&D funding is ~\$68B; Procurement funding ~\$60B
- Current Physical Capacity: 46,271,086 Sq Ft
- Excess Physical Capacity: - 4,559,287 Sq Ft



## Scenario Development Guidelines

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1. DoD will maintain responsive technological superiority by retaining sufficient technical infrastructure and intellectual resources while leveraging commercial, international, academic and other (U.S.) government technology efforts.
2. Retain sufficient redundant organic capability within the Department's technical capability to conduct and manage research to enable and promote the growth of intellectual capital, enhance innovation and promote the competition of ideas in technology areas relevant to warfighting requirements or opportunities.
3. Retain sufficient organic capability within the Department to perform and manage the performance of development, acquisition, and in-service engineering of weapon systems and support systems for the classes and types of systems required by the military departments.
4. Retain sufficient organic capability within the Department to perform and manage the performance of test and evaluation of the classes and types of weapons systems and support systems over the full range of terrain and climatic conditions, including systems-of-systems which demonstrate a military capability (often in conjunction with training).



## TJCSG Guiding Principles

- Transform the Department R&D, Acquisition, and T&E communities to a better state
- Strive to improve the Efficiency and Effectiveness of the DoD
- Consider the People aspects of Mission throughout all efforts
- Improve the “Jointness” of the R&D, Acquisition, and T&E functional areas/communities
- Make the best decision recommendations possible based on sound analysis, management and leadership principles
- Balance performance, schedule, cost, supportability, security, and risk in all work efforts and decision recommendations
- Enable Department of Defense Transformation

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## 25 Largest Installations/Facilities by FTE

1. NAWC PAX River
2. Redstone Arsenal
3. Wright-Patterson AFB
4. Eglin AFB
5. Aberdeen Proving Ground
6. Edwards AFB
7. NAWC China Lake
8. NSWC Dahlgren VA
9. White Sands Missile Range
10. Fort Monmouth
11. NUWC Newport
12. Los Angeles AFB
13. SPAWARSYSCEN San Diego
14. Washington Navy Yard
15. Naval Research Lab Washington DC
16. DISA Development and Acquisition
17. Hanscom AFB
18. NSWC Crane Indiana
19. Picatinny Arsenal
20. NAWC Point Mugu
21. Detroit Arsenal
22. SPAWARSYSCEN Charleston SC
23. Kirtland AFB
24. NSWC Port Hueneme
25. MDA - NCR

FTE = full time equivalents

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# 25 Largest Facilities by FTEs



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# TJCSG Strategy

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- **Maintain Integrated RDAT&E Centers for those Technical Areas that Could By ACAT I (MDAP); consolidate around largest FTE locations**
  - Ground Platforms
  - Air Platforms
  - Sea Platforms
  - Space Platforms
  - ~~Chem, Bio Defense Programs~~ Weapons
  - C4ISR
- **Maintain Cross Technical Area Centers for Enabling Technology (not MDAPs)**
  - Materials, Electronics, Battlespace Environments, Human Systems, Modeling and Simulation, Robotics/Autonomous Systems
- **Develop Combined Center for Extramural Research**
- **Not clear what our story is on T&E**

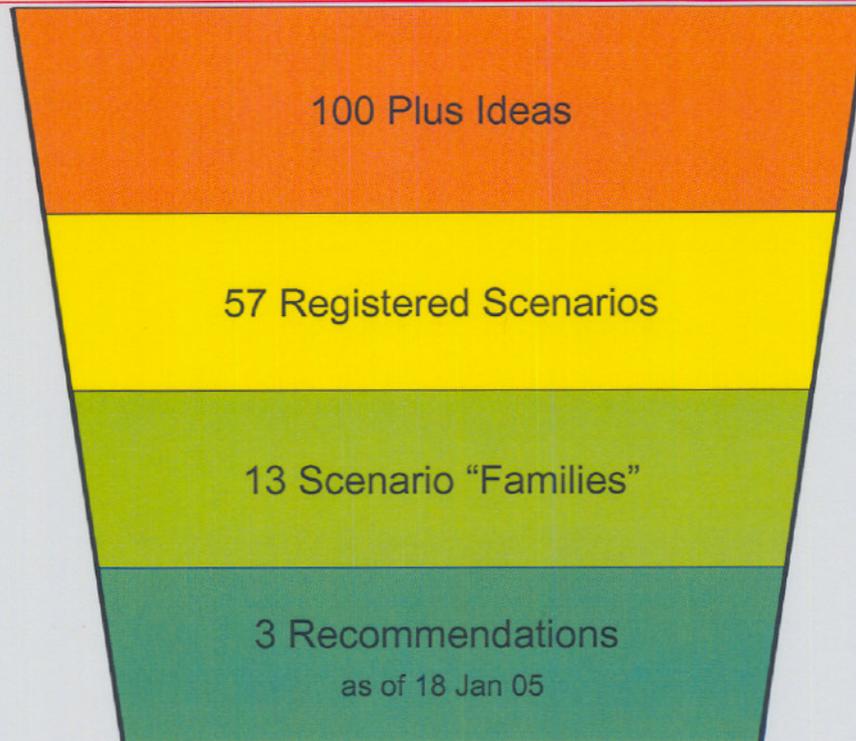
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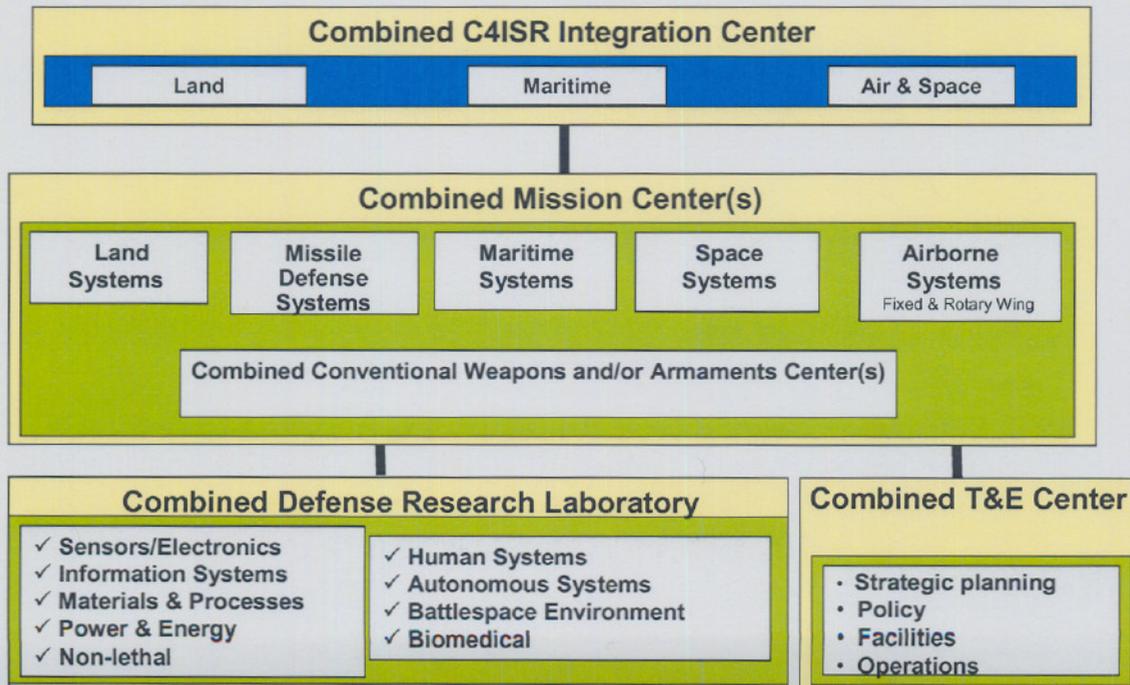
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# Ideas to Scenarios to Recommendations

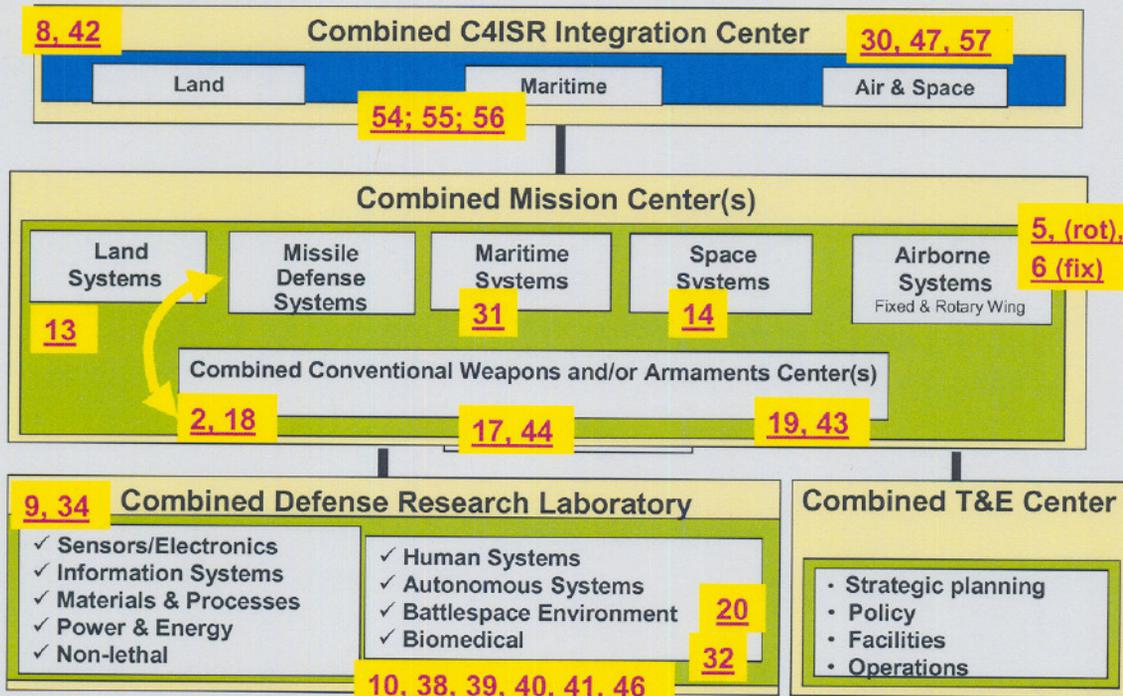


# TJCSG Transformational Framework





# Scenario Relationship to Framework



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# Scenario Families

Defense Research Lab

Platform Centers

Research Lab

Platform Centers 5-10, 12, 13

FAMILY	SCENARIOS	COMMENTS
1. Extramural Research	10, 38, 39, 40, 41, 46	Anacostia Preferred (T)
2. Defense Research Lab	9, 34	Hanscom Preferred
3. Joint Battlespace "Lab"	20	Stand Alone or Part of DRL
4. Joint Chem-Bio	32	Hybrid DRL/Platform
5. Ground Platform	13	
6. Air Platform (Fixed)	6	
7. Air Platform (Rotary)	5	
8. Maritime Systems	31	
9. Space Systems	14	
10. Weapons Systems	2, 17, 18, 19, 28, 43, 44	
11. Energetic Materials	18, 19, 43	Should this be DRL?
12. Guns and Ammo	17, 44	
13. C4 Systems / Sensors	8, 30, 42, 47, 54, 55, 56, 57	

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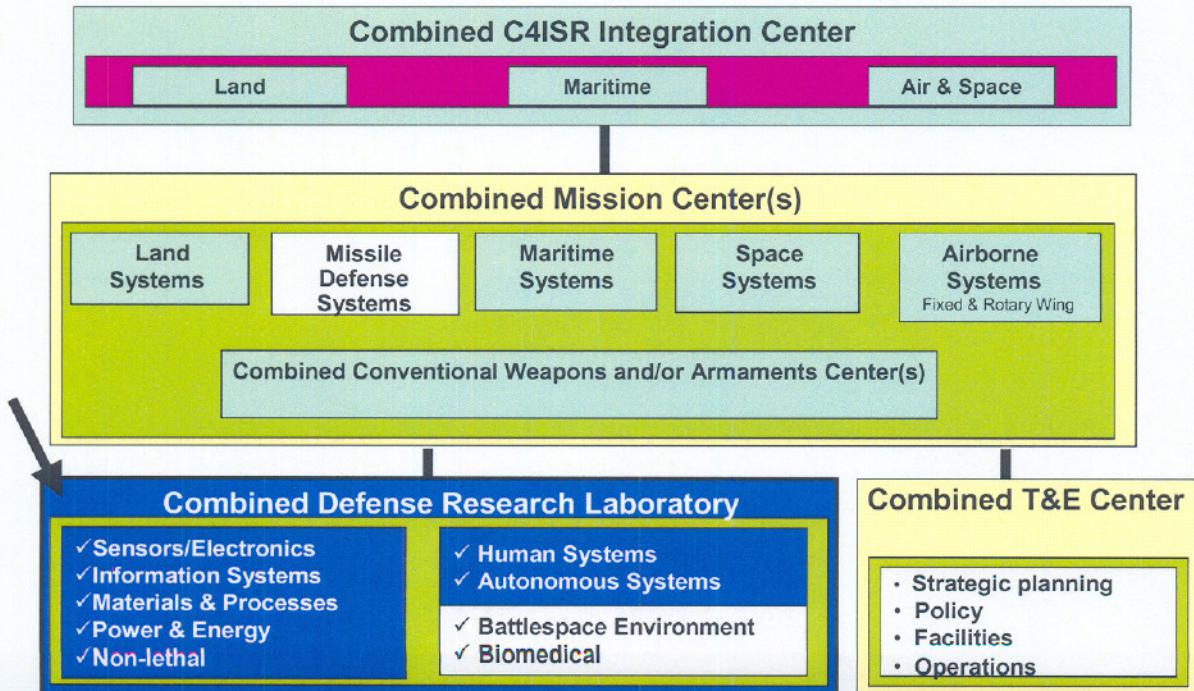
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# Defense Research Lab Scenarios



# TJCSG Transformational Framework





## Defense Research Service Led Labs

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- Objective: Realigns the service corporate laboratories to a smaller number of geographic locations; establishes physical framework for management structure leading to Defense Research Lab
- Draft Recommendation: Co-locating the service corporate intramural labs function to Aberdeen, WPAFB, and Blue Plains  
Retain Weapons Affiliated Labs at: Eglin AFB, Hanscom AFB, Kirtland AFB, Ft. Belvoir
- Potential Closure(s): Rome AFB, Mesa AFS, Brooks City Base, Adelphi; Navy Research Monterey (Scenario 20)
- Other
  - Billets Eliminated:
  - Billets Moved:
  - Total Milcon Costs:
  - ROI (yrs):
- Desired End State - Establishes a Framework to consolidate and focus remaining work; Leaves 3 Major Lab Facilities not Collocated with Platform Centers



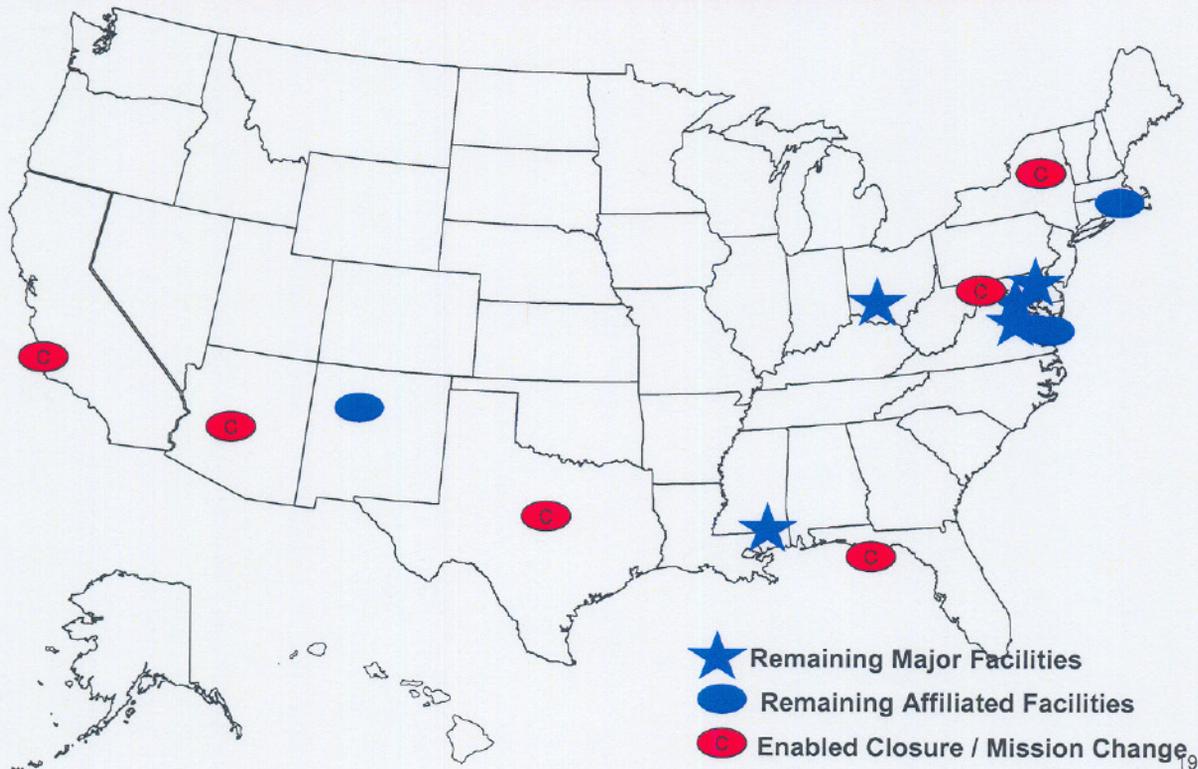
## Consolidate Extramural Research Program Managers

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- Objective: Realign the Extramural Research Managers at an NCR Military Base as part of the Defense Research Lab Construct
- Draft Recommendation: Co-locating functions to Anacostia Annex.
- Potential Closure(s): ONR Arlington – leased space, DARPA – leased space, ARL Durham – leased space, AFRL Arlington – leased space, & ARL Ballston – leased space
- Other
  - Billets Eliminated: 51; Billets Moved: 1,053
  - Total Military Construction (MILCON) Costs: \$72,063K
  - ROI (yrs): 1
- Desired End State: All DoD Extramural and University Research Located on 1 Campus



# Defense Research Laboratories

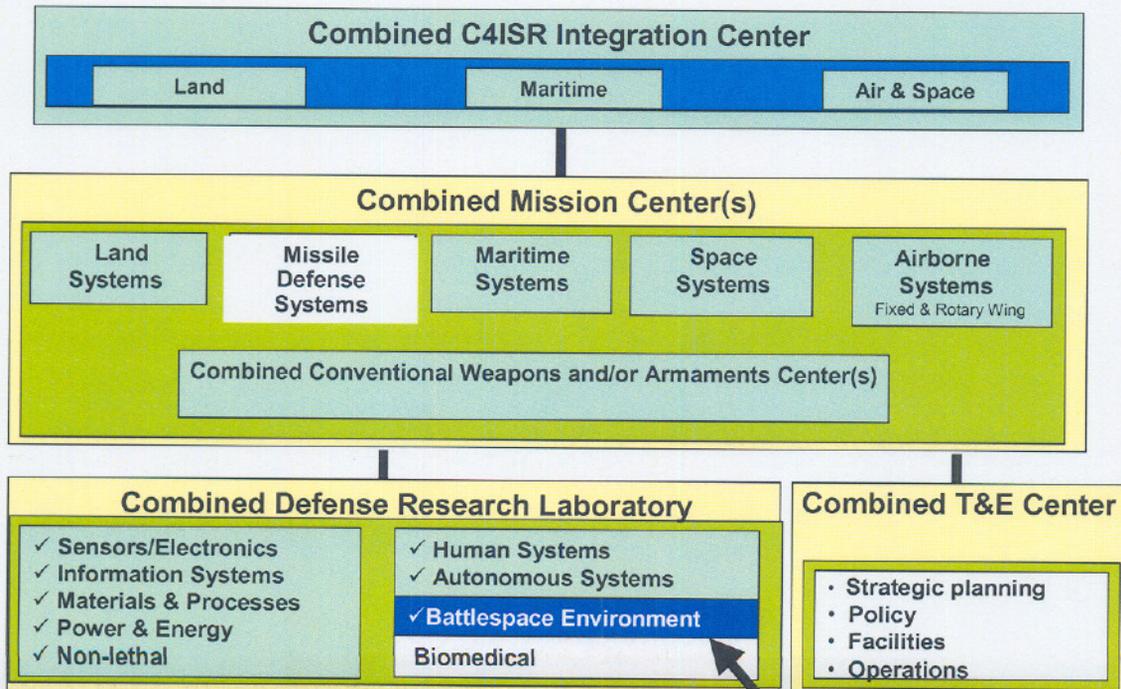


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# TJCSG Transformational Framework



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# Joint Battlespace Environments Center

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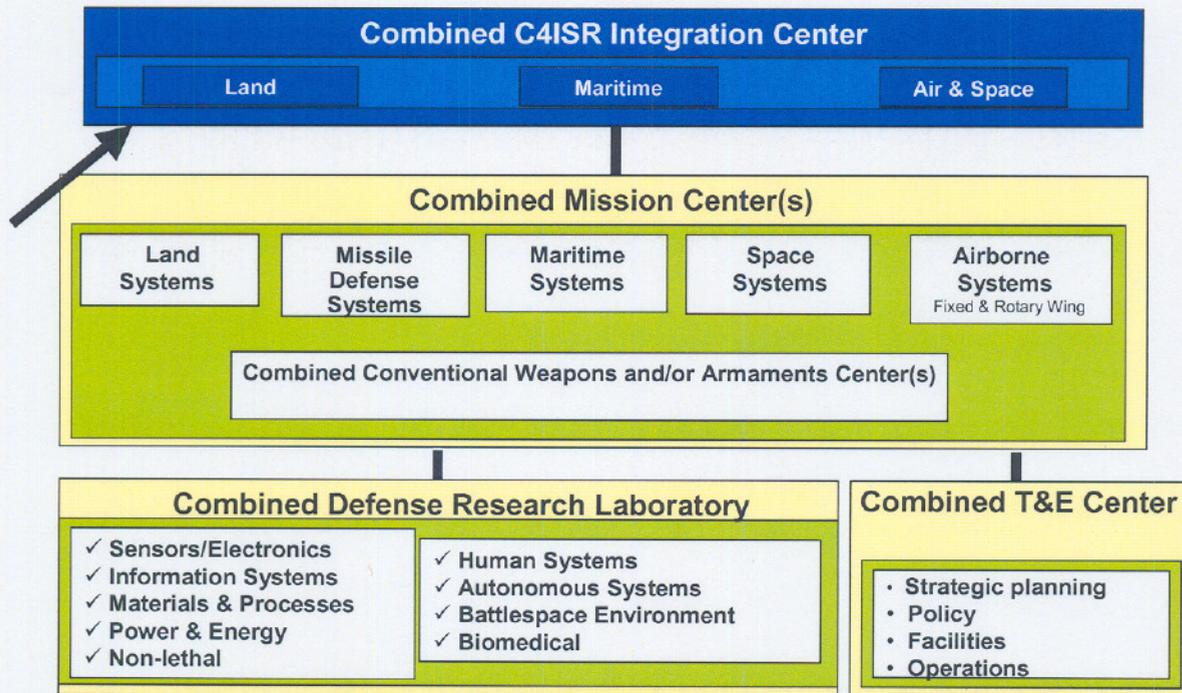
- Objective: Joint Research Development & Acquisition, (RD&A) Battlespace Environments Center (meteorology, oceanography, terrain, and space environment)
- Draft Recommendation: Consolidating the Battlespace Environments function to Stennis Space Center; Single DoD Center for Oceanography / Meteorology Research
- Potential Closure(s): Navy Research Lab Monterey; Enables Navy to Close Monterey Activity
- Other –
  - Billets Eliminated:
  - Billets Moved:
  - Total MILCON Costs:
  - ROI (yrs):
- Desired End State: Joint Environmental Effects Center for DoD, with chance to colocate with customer



## C4ISR Scenarios



# TJCSG Transformational Framework



# C4ISR RDAT&E Consolidation

- Objective: Establish C4ISR capability centers by domain (Land, Maritime, Air); Info Systems and Sensors
- Services retain their own structure

	Research	D&A	T&E
Land	Adelphi or Aberdeen	Monmouth or Ft Belvoir	Ft Huachuca
	Sensors	Info Sys	T&E
Air	Wright Patterson	Hanscom	Edwards
Sea	Dahlgren and Newport	San Diego	San Diego

- Total Billets:
- Desired End State: Focused Domain Specific



# Consolidate Combatant Commander C4ISR DAT&E

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- Objective: Establish a Joint C4ISR Development, Acquisition, Test and Evaluation (DAT&E) Center for Network Centric Operations
- Probable Draft Recommendation: Consolidating Combatant Cmdr C4ISR DAT&E function to Peterson AFB.
- Potential Closure(s): DISA Bailey's Crossroads – leased space, and Army PEOC3T Combatant Commander Crystal City – leased space
- Other
  - Billets Eliminated:
  - Billets Moved:
  - Total Milcon Costs:
  - ROI (yrs):
- Desired End State: All DoD Combatant Commander C4ISR DAT&E at one location

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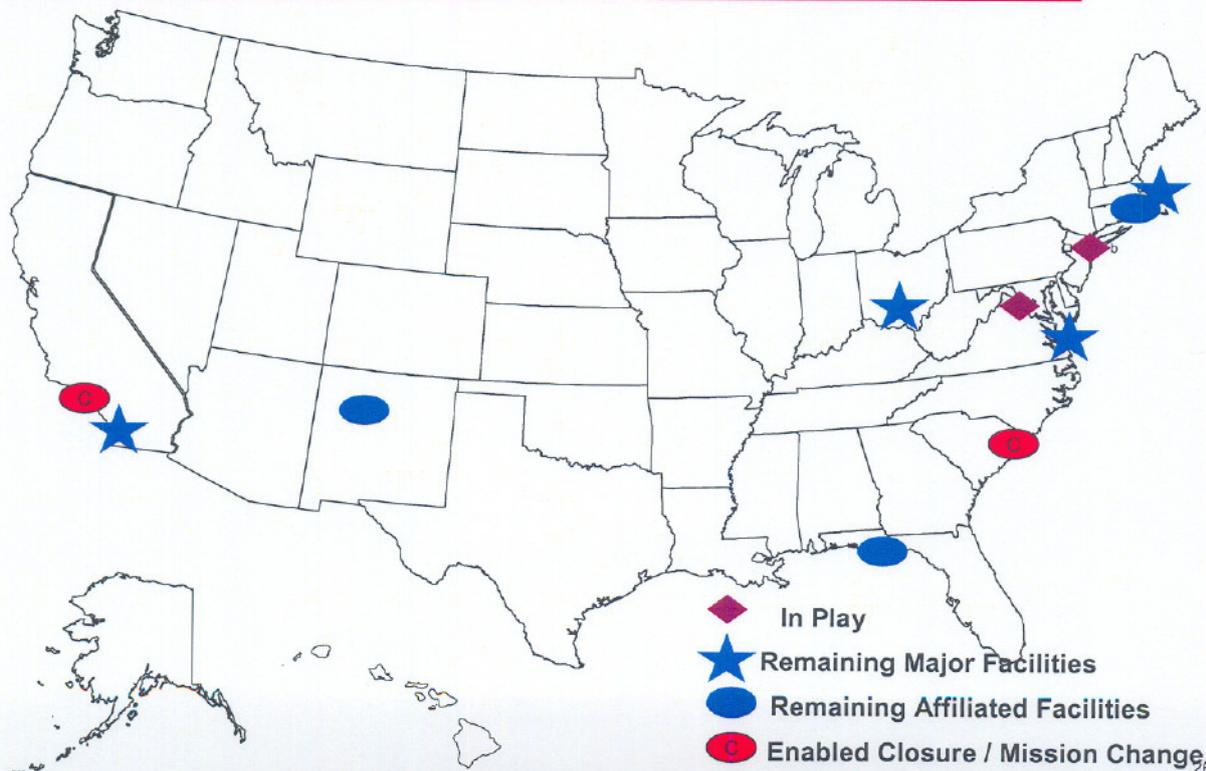
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# C4ISR Scenarios

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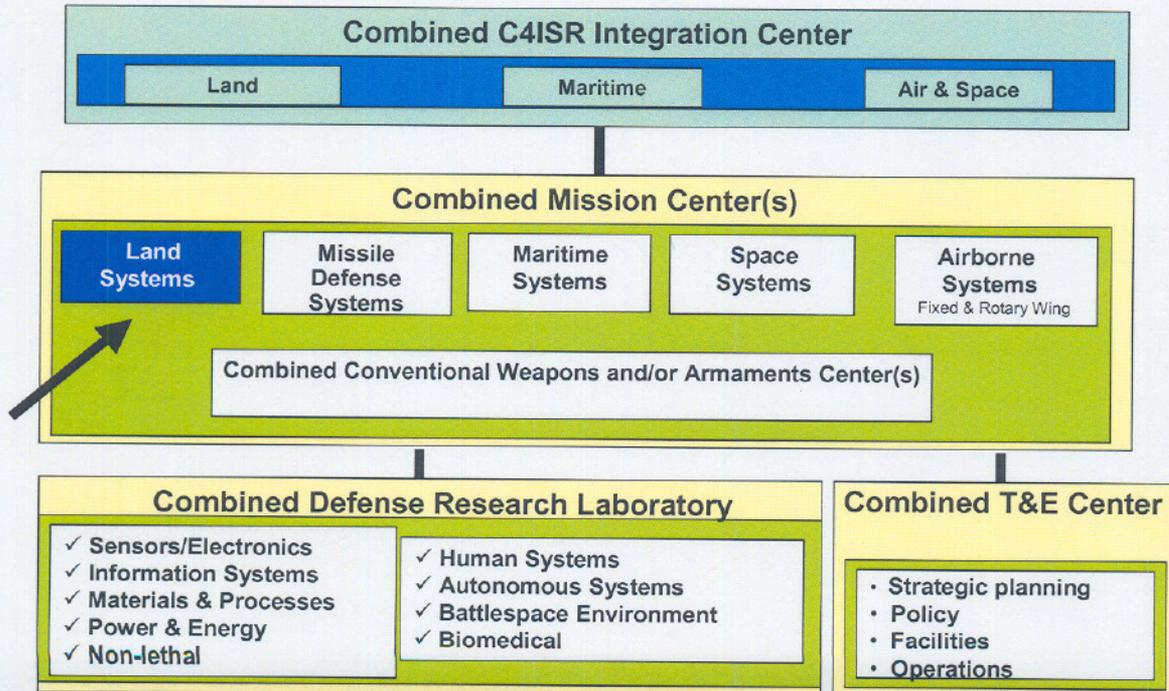
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# Ground Scenarios



# TJCSG Transformational Framework





## Establish Joint Centers for Ground Platform RDAT&E

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- Objective: Consolidate Ground Vehicle RDAT&E into a single core site
- Probable Draft Recommendation: Consolidating the Ground Vehicle RDAT&E function to Detroit/Selfridge.
- Potential Closure(s): None
- Other (All To be determined by COBRA)
  - Billets Eliminated:
  - Billets Moved:
  - Total Milcon Costs:
  - ROI (yrs):
- Desired End State: Centralize all DoD Ground Vehicle RDAT&E

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## Maritime Scenarios

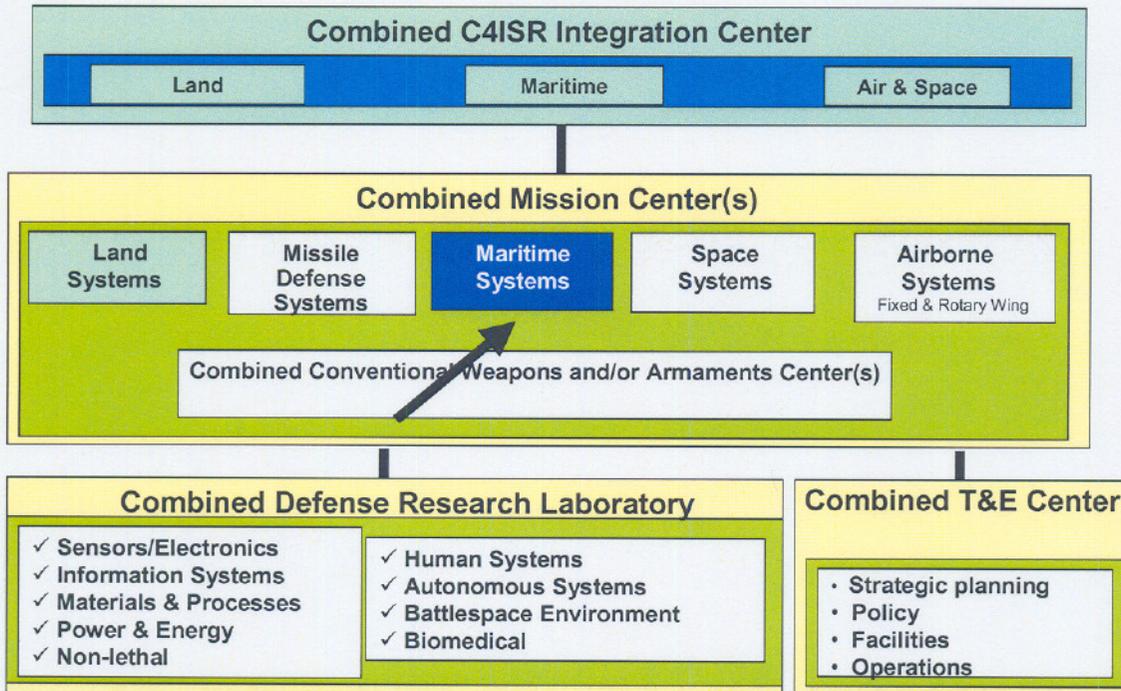
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# TJCSG Transformational Framework



# Optimize Sea Vehicle RDAT&E

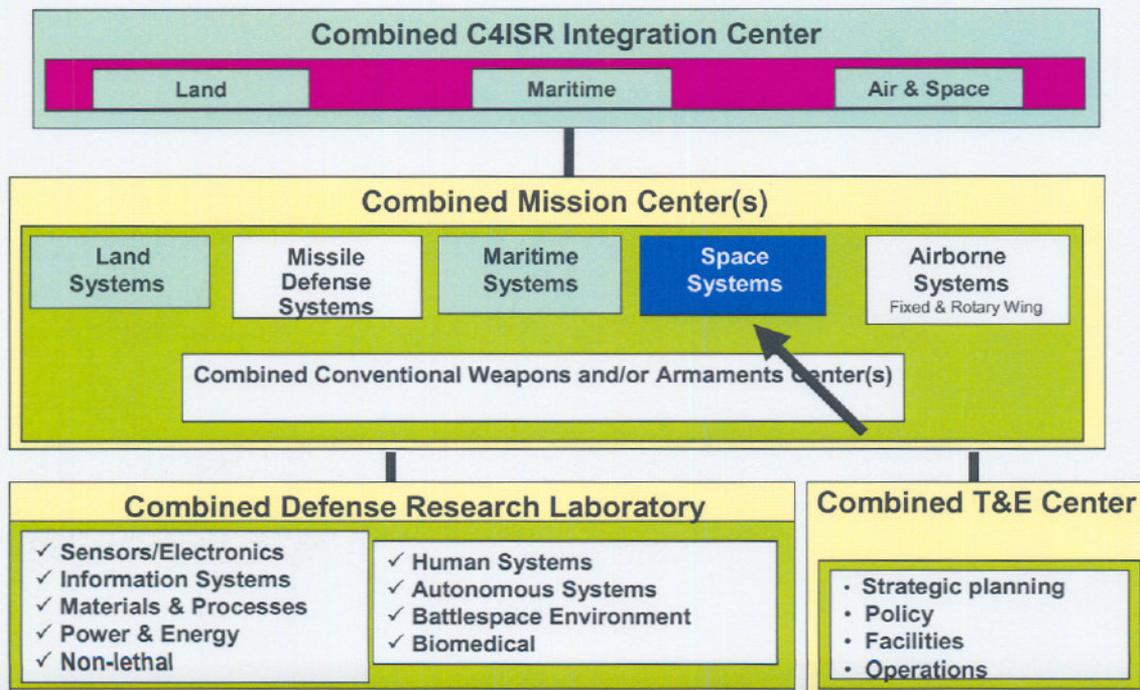
- Objective: Consolidate and/or co-locate all Sea Vehicle RDAT&E to two primary sites while retaining small sites involved in specialized Sea Vehicle support to DDTE/OTE or specialized sites with unique facilities
- Probable Draft Recommendation: Consolidating the Sea Vehicle RDAT&E function to Naval Support Activity, PA and Cardrock. (Remanded to Navy)
- Potential Closure(s):
- Other
  - Billets Eliminated:
  - Billets Moved:
  - Total Milcon Costs:
  - ROI (yrs):
- Desired End State: Centralize all DoD Sea Vehicle RDAT&E



# Space Scenarios



# TJCSG Transformational Framework





## Establish Space RD&A at a Minimum Number of Core Sites

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- Objective: Consolidate Space RD&A at a minimum number of core sites
- Probable Draft Recommendation: Consolidating the Space RD&A function to Kirtland, NRL and Peterson AFB.
- Potential Closure(s):
- Other
  - Billets Eliminated:
  - Billets Moved:
  - Total Milcon Costs:
  - ROI (yrs):
- Desired End State: Centralize all DoD Space RD&A

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## Air Scenarios

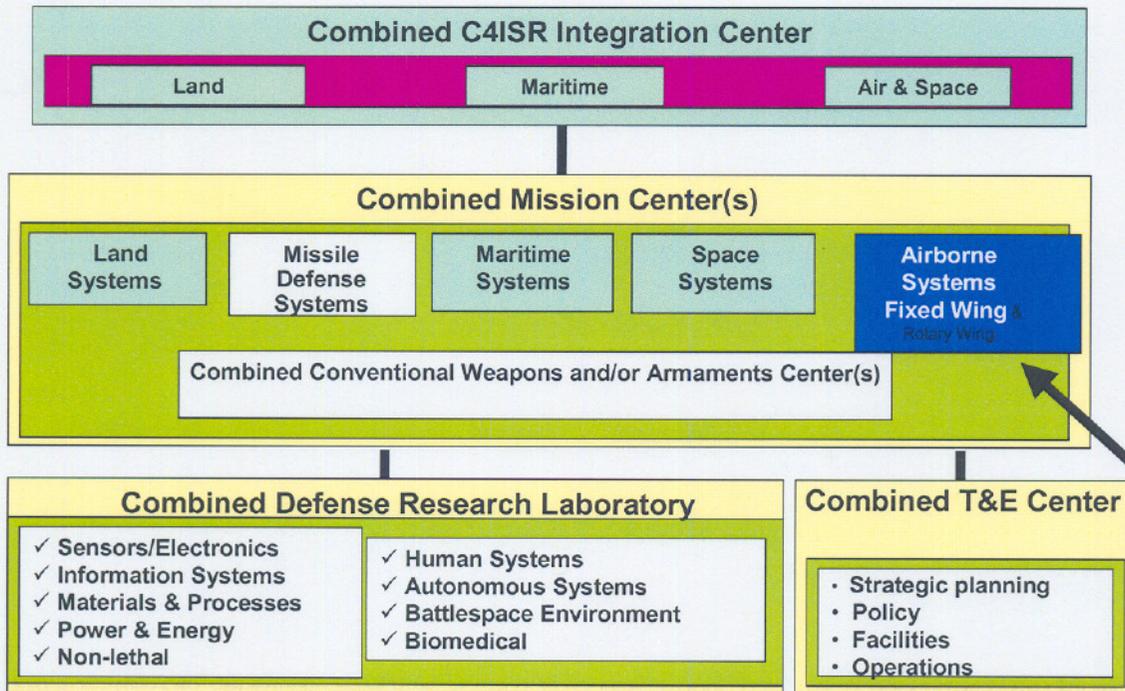
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# TJCSG Transformational Framework

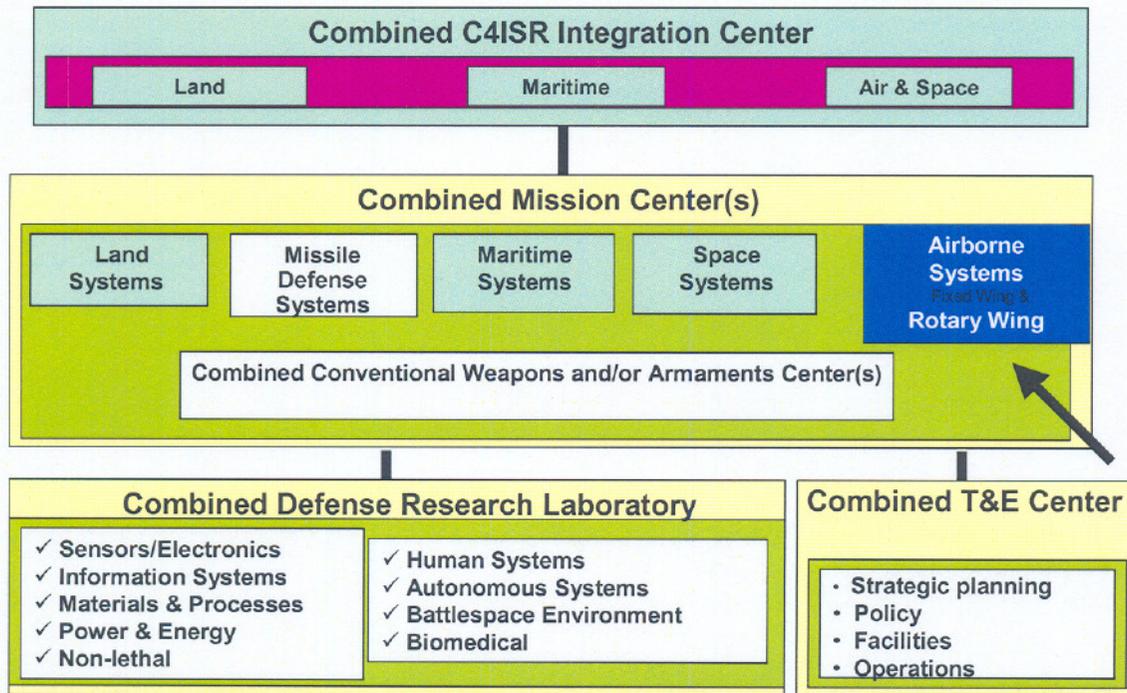


## Establish Joint Centers for Fixed Wing Air Platform RDAT&E

- Objective: Consolidate all Fixed Wing Air Platform RDAT&E to two principal sites while retaining several specialty sites.
- Probable Draft Recommendation: Consolidating the Fixed Wing Air Platform RDAT&E to PAX River, WPAFB & Edwards
- Potential Closure(s):
- Other (pending COBRA results)
  - Billets Eliminated:
  - Billets Moved:
  - Total Milcon Costs:
  - ROI (yrs):
- Desired End State: Centralize all DoD Fixed Wing Air Platform RDAT&E



# TJCSG Transformational Framework



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

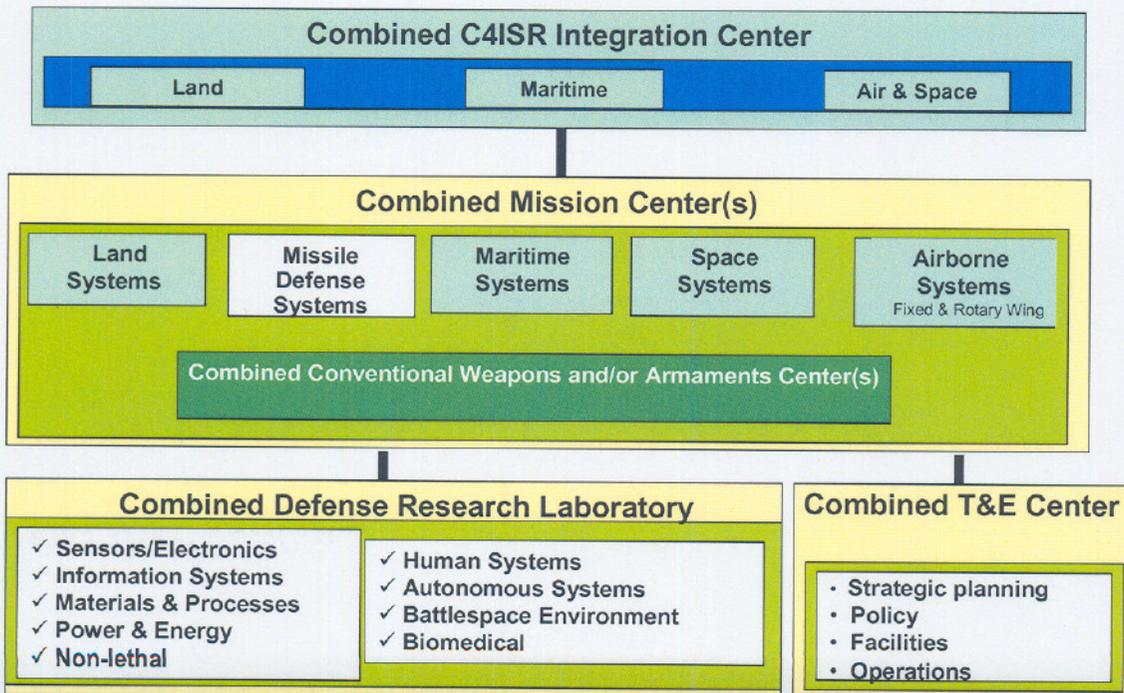
- Objective: Consolidate all Rotary Wing Air Platform RDAT&E to two principal sites while retaining several specialty sites.
- Probable Draft Recommendation: Consolidating the Rotary Wing Air Platform RDAT&E to PAX River & Redstone.
- Potential Closure(s):
- Other (pending COBRA results)
  - Billets Eliminated:
  - Billets Moved:
  - Total Milcon Costs:
  - ROI (yrs):
- Desired End State: Centralize all DoD Rotary Wing Air Platform RDAT&E



# Weapons and Armaments Scenarios



# TJCSG Transformational Framework





## Relocate Weapons & Armaments RDAT&E to 3 Primary & 2 Specialty

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- Objective: Relocate W&A RDAT&E including associated program management functions to three (3) primary locations and two (2) specialty capability locations
- Probable Draft Recommendation: Relocating W&A RDAT&E to China Lake, Eglin, and Redstone Arsenal and guns/ammo to Picatinny Arsenal and ship weapon systems integration @ Dahlgren
- Potential Closure(s):
- Other
  - Billets Eliminated:
  - Billets Moved:
  - Total Milcon Costs:
  - ROI (yrs):
- Desired End State: Robust full spectrum capabilities preserves options for future jointness; Joint site for guns and ammo

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## Relocate Underwater Weapons RDAT&E

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- Objective: Relocate Underwater Weapons RDAT&E to one location
- Probable Draft Recommendation: Relocate all RDAT&E for underwater weapons and underwater weapons/platform integration, including mines, and unmanned underwater vehicles to Newport. (Remanded to Navy)
- Potential Closure(s):
- Other
  - Billets Eliminated:
  - Billets Moved:
  - Total Milcon Costs:
  - ROI (yrs):
- Desired End State: Centralize all DoD Underwater Weapons RDAT&E

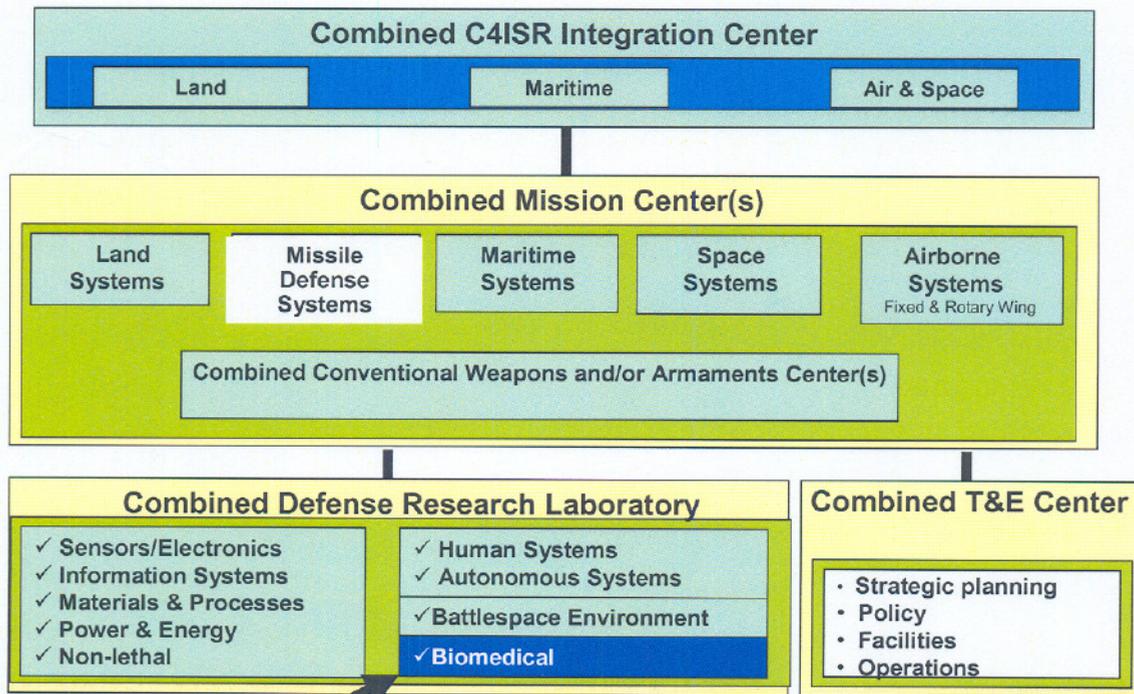
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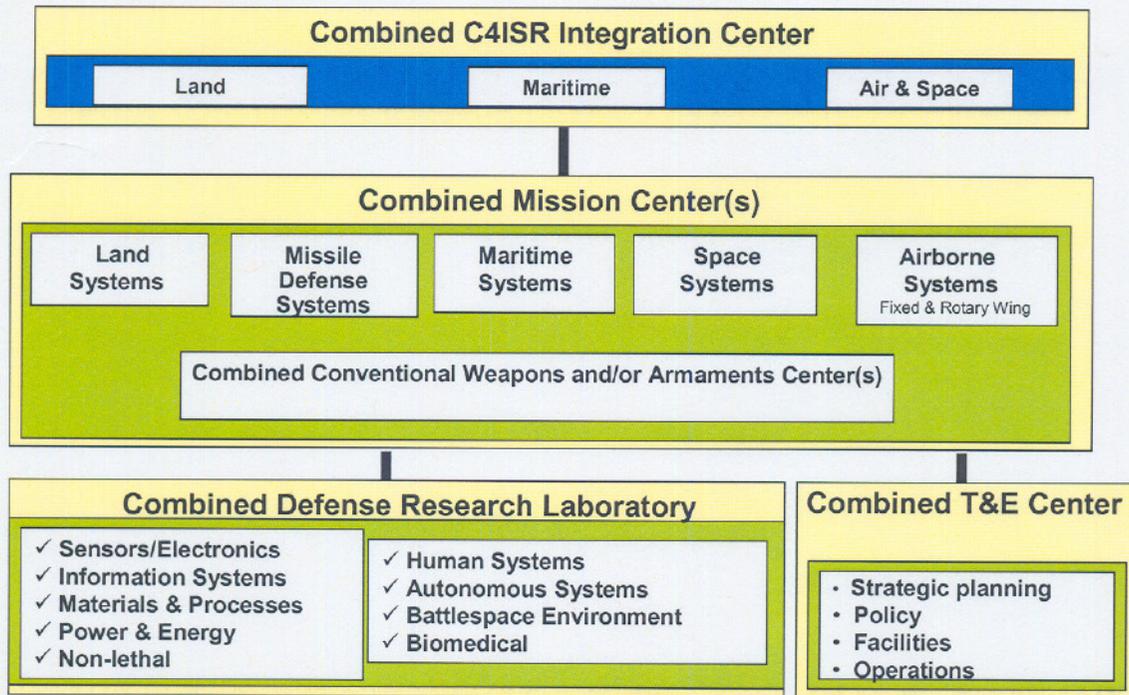


# Chemical-Biological Defense RD&A Consolidation

- Objective: Consolidating the Services, Defense Agencies and acquisition program offices for medical chemical defense, medical biological defense, and non-medical chemical and biological defense RDA to two (2) sites in the NCR.
- Draft Recommendation: Consolidating medical and non-medical chemical & biological defense functions to Ft. Detrick and Aberdeen.
- Potential Closure(s):
- Other
  - Billets Eliminated: 86
  - Billets Moved: 469
  - Total Milcon Costs: \$89,706K
  - ROI (yrs): 14
- Desired End State: Robust capabilities for Chem-Bio Defense



# TJCSG Transformational Framework



# TJCSG Scenarios that do not align with Strategy

- Army Land Network Warfare Life Cycle Management Center (LCM) at Adelphi and Ft. Belvoir
- Army Land System LCM, Single site Scenario
- Army Soldier/Land System LCM Center, two site Scenario
- Army Land Network Warfare LCM Center at NCR
- Army Land Network Warfare LCM Center at Adelphi
- Army Land Network Warfare LCM Center at Aberdeen
- Army Land Network Warfare LCM Center at Ft. Monmouth
- Navy C4ISR RDAT&E Consolidation @ China Lake
- Navy C4ISR RDAT&E Consolidation @ PAX River



## 25 Largest Installations/Facilities by FTE

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- |                              |                                       |
|------------------------------|---------------------------------------|
| 1. NAWC PAX River            | 14. Washington Navy Yard              |
| 2. Redstone Arsenal          | 15. Naval Research Lab Washington DC  |
| 3. Wright-Patterson AFB      | 16. DISA Development and Acquisition  |
| 4. Eglin AFB                 | 17. Hanscom AFB                       |
| 5. Aberdeen Proving Ground   | 18. <i>NSWC Crane Indiana</i>         |
| 6. Edwards AFB               | 19. Picatinny Arsenal                 |
| 7. NAWC China Lake           | 20. <i>NAWC Point Mugu</i>            |
| 8. NSWC Dahlgren VA          | 21. Detroit Arsenal                   |
| 9. White Sands Missile Range | 22. <i>SPAWARSYSCEN Charleston SC</i> |
| 10. <i>Fort Monmouth</i>     | 23. Kirtland AFB                      |
| 11. NUWC Newport             | 24. NSWC Port Hueneme                 |
| 12. <i>Los Angeles AFB</i>   | 25. MDA - NCR                         |
| 13. SPAWARSYSCEN San Diego   |                                       |

*Italics* == potential for Closure

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## Enabler Scenarios for the Services

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- Tech 14 enables USAF 13
- Tech 2, 18, 54, 55 or 56 enables DON 162
- Tech 2 or 18 enables DON 161
- Tech 5 enables E&T 21 or 51
- Tech 40 enables HAS 13
- Tech 18 or 19 enables IND 40, 42, or 121
- Tech 2 or 17 enables USA 38

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# Back Up Charts



## Physical Capacity

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Existing	Peak	Available Calculating Negative excess @ facilities	Available Negative Excess = 0 @ facilities
46,271,086	46,353,511	(4,559,297)	2,899,093



## Backup by Capability Capacity

Tech Capability	Existing	Peak	Available Calculating Negative excess @ facilities	Available Negative Excess = 0 @ facilities
Air Platforms	14,401,961	13,311,463	(2,532,237)	555,106
Battlespace Environments	452,075	507,503	10,060	29,601
Biomedical	1,214,887	964,506	(371,870)	28,208
Chemical Biological Defense	987,420	1,151,812	63,890	74,678
Ground Vehicles	1,245,220	1,800,853	430,910	437,679
Human Systems	1,183,476	1,408,038	98,755	132,855
Information Systems Technology	8,647,915	7,055,315	(2,457,552)	228,521
Materials and Processes	675,186	791,067	48,042	65,128
Nuclear Technology	276,606	305,712	1,387	14,179
Sea Vehicles	1,218,338	1,344,965	4,777	37,958
Sensors, Electronics, and EW	3,786,641	3,753,651	(394,774)	249,138
Space Platforms	1,303,600	1,644,196	210,236	246,797
Weapons Technology	10,897,760	12,316,634	329,079	799,244



## Function and Technical Capability Associations

### Technical Capability Areas

Function	Air Platforms	Ground Vehicles	Sea Vehicles	Space Platforms	Weapons	Nuclear Technology	Materials & Processes	Biomedical	Human Systems	Battlespace Environments	Chemical & Bio Defense	Sensors, Electronics	Information Systems
T&E	ALS S	ALS S	ALS S	AL SS	Wp n	Wp n	ET	ET	ET	ET	ET	C4IS R	C4IS R
D&A	ALS S	ALS S	ALS S	AL SS	Wp n	Wp n	ET	ET	ET	ET	ET	C4IS R	C4IS R
Res	ALS S	ALS S	ALS S	AL SS	Wp n	Wp n	ET	ET	ET	ET	ET	C4IS R	C4IS R