

BRAC 2005
Technical Joint Cross-Service Group (TJCSG)
Meeting Minutes of September 5, 2003

Dr. John Hopps, Deputy Director, Defense Research and Engineering chaired this meeting. The list of attendees is attached.

Dr. Short and Mr. Shaffer opened the meeting by initiating the review of the draft Capacity Report and accompanying briefing slides (see attachments). The majority of the meeting focused on discussing how to improve the report by focusing on capacity attributes and metrics. The TJCSG members agreed that the draft report mixed capacity measures with military value measures. The TJCSG agreed to the following changes to the TJCSG capacity data call approach as presented in the draft report and briefing slides:

- Use common definitions to define the TJCSG functions
- Characterize the TJCSG's work on communications and information technology as support from the TJCSG to the Headquarters and Support Activities TJCSG
- Revise the organizational chart to show that the ranges group and IT groups are functions handled by other JCSGs, but supported by the TJCSG
- Eliminate the parenthetical phrase "supporting RD&A"
- Ensure the attributes of people, physical plant, location, and workload should be measured for the capacity analysis—the remaining attributes will be part of the military value analysis
- Rename the attribute "location" "natural resources" or some similar term that describes geographic and climatological capacity
- Evaluate surge requirements and whether surge is appropriate for each of the functions
- Define excess capacity needs to be clearly defined in the report
- Revise slides entitled Capacity Attributes, Metrics and Units

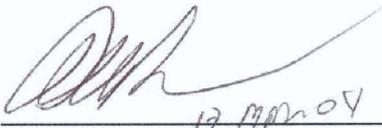
The TJCSG agreed to provide detailed comments on the report to the Capabilities Integration Team (CIT) by September 8th. The CIT agreed to have a new draft of the report ready by September 10th for the TJCSG to review in preparation for its September 11th meeting.

The TJCSG concluded the meeting by discussing three items: the ranges subgroup, the medical research function, and information control. TJCSG members expressed concern that they did not yet have a complete understanding of how the ranges subgroup was factoring test and evaluation function into the ranges subgroup capacity data call deliberations. The TJCSG agreed that the TJCSG personnel designated to work on the range subgroup must continue to engage the ranges subgroup to ensure that the range

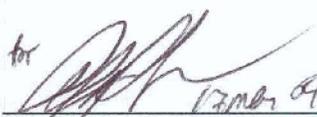
subgroup's capacity data call appropriately includes the test and evaluation function. The TJCSG agreed that the TJCSG briefing to the ISG should note that they are an active partner in the ranges subgroup deliberations and do not want to see the test and evaluation function range requirements subsumed by training range requirements.

Col. Norwood noted that Dr. Foster from D,DR&E is working the medical research issues closely with the Medical JCSG. The TJCSG agreed to make receiving updates on the ranges subgroup and medical research functions a regular part of the agenda.

The TJCSG agreed that each TJCSG member is responsible for controlling who from their service can participate in TJCSG deliberations. The TJCSG members agreed to scrub the list of people who have signed non disclosure agreements. The TJCSG also agreed to rely on the TJCSG portal to control TJCSG information. The TJCSG portal should be fully functional next week. In the interim, the TJCSG agreed to use email (properly marked) to transmit TJCSG information.

Signed:  12 MAR 04

Mr. Al Shaffer
Chairman, Capabilities Integration Team

Approved:  17 MAR 04

Dr. John Hopps
Acting Chairman, Technical Joint Cross-
Service Group

Attachments:

1. List of Attendees
2. Briefing Slides

**Technical JCSG Meeting
5 September 2003**

Dr. J. Dan Stewart, Sr. Member, Air Force
Mr. John Erb, Sr. Member, JCS-J4

Dr. John Hopps, DDR&E
Mr. Roger Florence, DOD-IG
Pete Potochney, OSD-BRAC
COL John Norwood, OSD
Dr. Jim Short
Mr. Harold Schliesske, DDR&E
BG Fed Castle, USAF
Mr. Andy Forth, OSD-BRAC
Mr. Don DeYoung, NAVY
COL Walt Hamm, USMC
Mr. George Ryan, NAVY
Mr. Mike Crisp, DOT&E
Mr. Al Shaffer, DDR&E
COL Steve Evans, USMC
Mr. James Polzin, NAVY
Mr. Dave Jerome, DOT&E
Mr. Gary Strack, Air Force
Mr. Chris Blake, Air Force
Mr. Al Goldstayn, Air Force
Mr. Jim Hogan, Navy
Mr. Ken Georgi, Army

Note: This is a 75% solution.....we need to get a positive head nod from the TJCSG, then we can complete for the brief to the ISG (currently scheduled 19 Sept), and to flesh out the report

Technical JCSG Capacity Analysis

Briefing to the
Infrastructure Steering Group

As of: 21 Aug 1700L

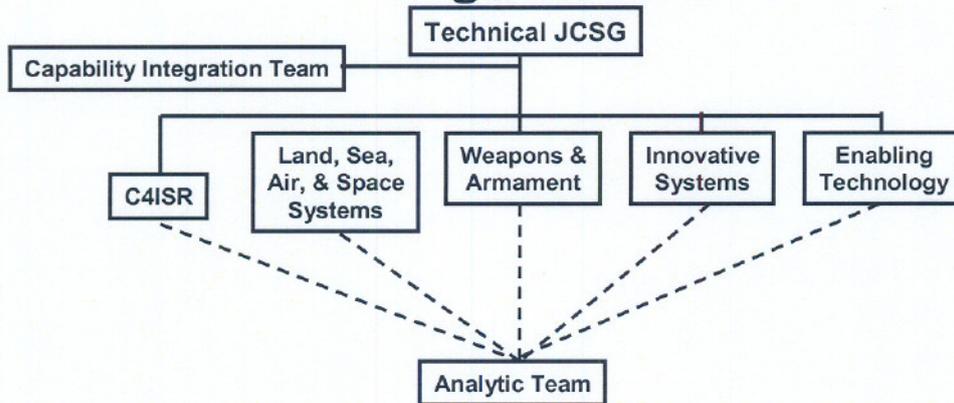
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Overview

- **Organization**
- **Functions**
 - Research
 - Test and Evaluation
 - Development and Acquisition
- **Capacity Analysis Methodology**
- **Issues Impacting Analysis**

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Organization



Military	Civilian	Contractor
20	70	10

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Basic Definitions / Context

- **Capacity Analysis Should Preserve the Product of Technology Functions:**
 - **Product:** A continued stream of technologically superior capabilities and systems providing US forces with superior operational capabilities.

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Functions to be Analyzed

- **Technical Functions**
 - **Research**
 - Basic Research
 - Exploratory Development
 - Advanced Development
 - **Test and Evaluation***
 - Developmental Test and Evaluation (DT&E) and Operational Test and Evaluation (OT&E)
 - Includes ranges and facilities whose primary mission is Test and Evaluation
 - **Development and Acquisition**
 - Systems Development
 - System Modifications
 - Experimentation and Concept Demonstration
 - Product/In-service Life-Cycle Support

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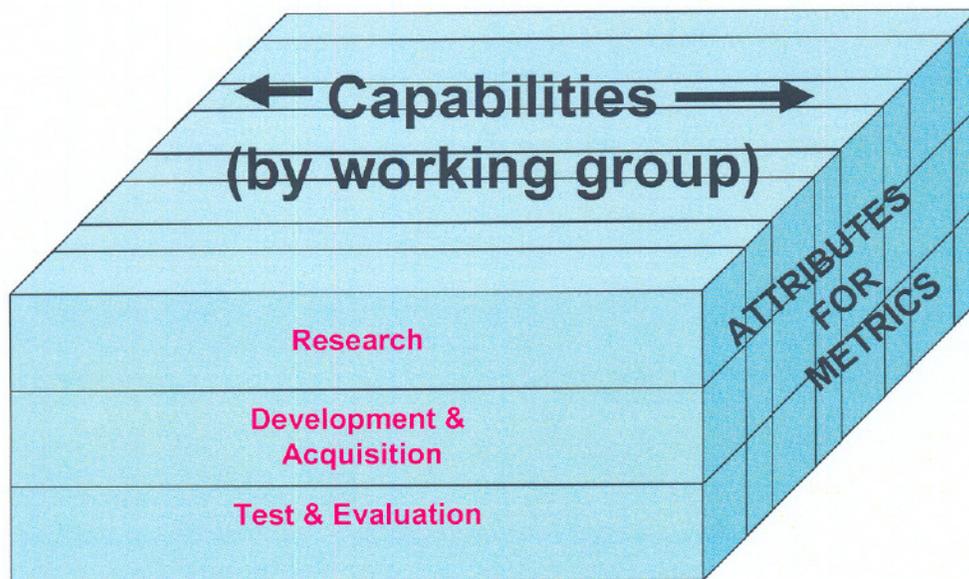
Refinements to Sec Def Approved Functions

- **Technical Functions**
 - **Research**
 - Basic Research
 - Exploratory Development
 - Advanced Development
 - **Test and Evaluation (new Taxonomy Proposed for T&E)***
 - Modeling and Simulation
 - Hardware in the Loop
 - Measurement Facility
 - Integration Facility
 - Installed System Test Facility
 - Open Air Ranges
 - **Development and Acquisition**
 - Systems Development & Demonstration
 - System Modifications
 - Experimentation and Concept Demonstration
 - Product/In-service Life-Cycle Support

*Change supports ISG Ranges Subgroup recommendation by enabling us to capture technical functions at Ranges

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Capacity Analysis Methodology Conceptual Framework



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Capacity Analysis Methodology

- Capacity Analysis Questions Will Be Developed on Three Primary Axes:
 1. Functions that Are Involved in Developing Technology *“How we do what we do”*
 2. Capabilities Describe the Domain of Areas in which Technology is (or needs to be) Developed *“What we are trying to develop”*
 - Enabling Technology C4ISR Weapons & Armament
 - Innovative Systems Air, Land, Sea & Space
 3. Attributes Describe Capacity for Technology *“How to measure what we do”*

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Capabilities to be Analyzed

- In addition to functions and subfunctions, each capability working group uses “sub-capabilities”
 - Air Platforms
 - Ground Systems
 - Space Systems
 - Computer and Communications Systems
 - Command and Control Systems
 - Sensors
 - Weapons
 - Electronics
 - Materials
 - Oceanography
 - etc.....

Sub-capabilities will be nominated by the subgroups;

CIT shall deconflict;

Capture 100% of the DoD technical capability

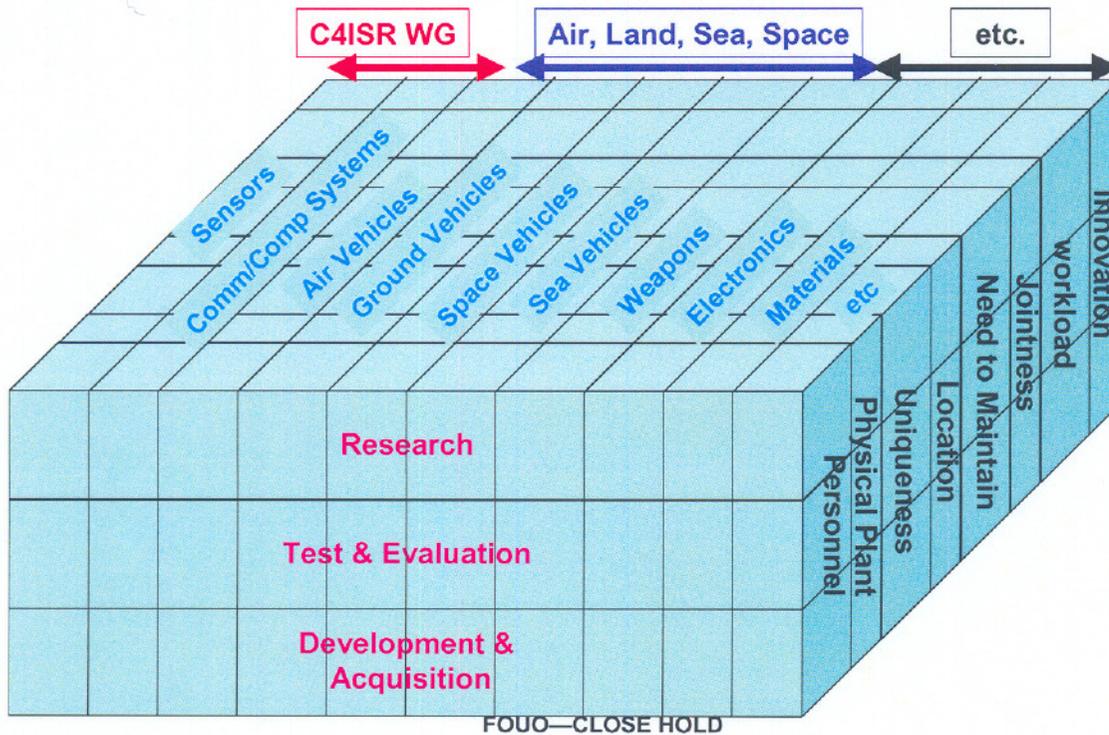
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Baseline Attributes

- People: Who the Work Force Is / Should Be
- Physical Plant: What the Organization Has and Needs (Specialty Equipment)
- Uniqueness (National Security): Does / Could Someone Other Than DoD Provide Product?
- Location: Does the Location Help or Hinder?
- Need to Maintain Critical Operational Superiority: If the DoD Product Line Were to Go Away, would National Security Be Jeopardized?
- Jointness: Is the Product Used by Only One Service, or Multiple Services; Do other Facilities Provide Similar Product?
- Workload: How Close to Capacity Are We?
- Innovation Potential: Are we using Modeling & Simulation; Are we sharing knowledge through DOD-wide, nationwide & international enterprise linkages?

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Capacity Analysis Methodology A Conceptual Framework



Baseline Attributes & Metrics

Attributes	Metrics (Still Needs Work)
People	Total Number Technical and Non-Technical; Current Education Level; Experience; Accomplishments of Technical Staff (patents, licenses)
Physical Plant	Total Square Foot; office and administration space, usage rate; Specialized Equipment; Upgrade/replacement costs; unique facilities and equipment; expansion potential
Uniqueness	Commercial and other government facilities with similar mission Business; Percent of Investment from Industry;
Location	Geographic/ climatologic features; environmental constraints; Universities within 50 and 100 miles; Distance to major customers
Need to Maintain	What anticipated transformational capabilities can and will the facility address
Jointness	What percentage of the work and funding comes from other DoD components; what is the joint applicability of the product
Workload	How much money comes in and where does the money go? Distribute internal spending across physical plant assets
Innovation Potential	Capability of an organization to deliver design, prototyping, analysis, modeling test results that are used by their customers

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Capacity Analysis Methodology Process (1 of 2)

1. Start from 95 BRAC Capacity Call as a point of departure; adapt to different drivers in 2005 BRAC:
 - A. Increased Emphasis on Jointness
 - B. Need to Look Forward
 - C. New Acquisition Model Driving closer relationship three communities
2. Each working group identifies the "Domain" (Capabilities they are responsible for (CIT resolve overlap)
 - A. Identify a notional list of facilities they believe conduct research; development and acquisition; and T&E in each capability area— not authoritative, just cross-check (Done)
3. Each working group identifies specific additional capacity questions / metrics applicable across their function / capability areas (Done)

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Capacity Analysis Methodology Process (2 of 2)

1. Notional Questions Given to Each Organization
 - A. Some questions provide framework
 1. Do you conduct Research; Development and Acquisition; or Test & Evaluation
 2. If yes, what Functions and Sub functions are supported
 3. If yes, what capability product areas are worked on: (provide list— air systems, sea systems, ...
 - B. Some questions gather financial data (funding by cost accounting code, Major Force Program, etc MFP-6?; MFP-3? etc)
 - C. Then, have the question set filled out for each attribute.
2. Answers to the capacity questions given to the working groups who confirm the expected facilities responded (cross-check)
3. Work with the analysis team for options

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Capacity Analysis Methodology

- Example questions to develop capacity analysis for research function follows

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Capacity Analysis Methodology

Example (Page 1 of 2) Research

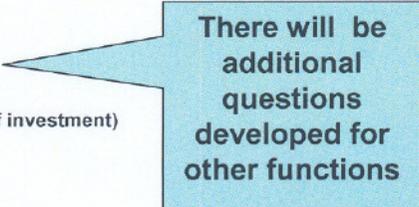
- Facility: Name of Facility
- Function: Research (Subfunction: Science & Technology / Applies to Each Basic Research, Applied Research, Advanced Research)
- Mission: Statement of facility
- Capability Area Supported (Separate sheet for each capability area)
- Sample Questions by Attributes
 - **Personnel**
 - How many total personnel (technical, non-technical) work at your facility (by military, civilian, etc)
 - What is their education level, and career field / civilian classification
 - What is their experience?
 - What are their accomplishments
 - Patents and Licenses?
 - Refereed Journal Articles? etc
 - **Physical Plant**
 - Laboratory/facility: size/occupancy/usage/ condition
 - Office & administrative, other: size/occupancy/usage/condition
 - Upgrade /replacement costs
 - Unique Facilities and equipment
 - Expansion Potential
 - Laboratories
 - Office/Administrative/other
 - Land use
 - Utilities

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Capacity Analysis Methodology

Example (Page 2 of 2) Research

- **Location**
 - Geographic/climatological features
 - licenses and permits
 - environmental constraints
 - special support infrastructure
 - Proximity to mission –related organizations
- **Jointness**
 - How much of the work is Service Unique (percent of investment)
- **Workload**
- **Innovative Capacity**



There will be additional questions developed for other functions

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Issues Impacting Analysis

- **Disposition of In Service Engineering**
- **Disposition of Test Ranges**
- **Measuring Capacity**
- **Encumbrances / Legal Ownership Issues**
- **Integrating Evaluation Criteria**

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