

DCN: 11876



BRAC and Fort Monmouth

A Community Viewpoint

For The

Honorable Phillip Coyle

June 29, 2005

Substantial Deviation from Criteria

- MV #1:
 - Immediate disruption in support to the war
 - Disruption to Army/Joint C4ISR programs in 2007-11; \$\$\$\$M
 - Existing Joint capability ignored and extinguished
- MV #2:
 - Existing air and maneuver space ignored
- MV #4:
 - Net Cost Errors/Underestimates >> \$500M additional
- Other #5:
 - Timing: personnel hiring lag assured; widespread disruption in program 2007-11; facilities lag expected
- Other #7:
 - Inability to support C4ISR, no Joint, inability to hire thousands

7 Points

1. General: Mission Military Value; discounted
2. Intellectual Capital
 - Losses not considered (80% loss)
 - Cost to recover not considered (~\$250M)
 - Unique in BRAC 05
3. Disruption risk ... not considered
4. Jointness not considered; extinguished
5. Cost Credibility
6. Existing Maneuver and Air space ignored
7. R + D&A + T&E ... lost the way

1. Military Value (MV)

- We support the Military Value criterion
 - You heard from the Fort about its value
- BRAC process was disingenuous regarding MV
 - Military Value for Technical Areas by T-JCSG
 - Monmouth highest; Aberdeen lowest
 - “Mountain to Mohammed”
 - Military Value for Installations by Army
 - 40 attributes; only 2 have slight relevancy to R&D or C4ISR missions.
 - “Garrison,” not mission, mentality.

MILITARY VALUE---TECHNICAL

	RESEARCH Info Systems	RESEARCH Sensors EW	D&A Info Systems	D&A Sensors EW
Ft. Monmouth	0.46 1st	0.34 3rd	0.48 1st	0.43 1st
Ft. Belvoir	0.07 5th	0.39 2nd	0.23 5th	0.25 3rd
Adelphi	0.25 3rd	0.50 1st	---	---
Redstone	0.24 4th	0.23 4th	0.23 4th	0.34 2nd
APG	0.28 2nd	0.17 5th	---	0.22 4th

Fort Monmouth ---Highest Ratings In Mission Areas For RDA

2. Intellectual Capital

- Highly skilled people create Military Value
 - In C4ISR, people = critical infrastructure
 - Government and nearby contractors are partners
 - NJ science and engineering workforce = #1
 - NJ “culture” in communications and electronics is strong
- **Losses expected = 80%+ ... not considered**
 - Inconsistent with “loud” DOD technical workforce concerns
 - DOD Testimony 2004: “... struggling to recruit enough engineers”
 - NJ is hiring
- **Costs (and ability) to regain losses not considered**
 - Time, \$\$\$, security impact

Statistics--- Ft. Monmouth/Belvoir

Discipline	# People	Degrees BS/BA, M, PhD	Clearances Conf.—TS/SCI
R&D	2055	1688 (82%)	2055 (100%)
DA (PEO/PM)	537	344 (64%)	537 (100%)
Contractors (sample of 9)	1221	804 (72%)	1139 (93%)

- **Most All Have Security Clearances Secret Or Above**
- **Majority Of Government Workers Are Acquisition Certified**
- **Normally Retirement Eligible Stay Until Age 61-----**
 - **BRAC Will Force An Early Decision To Leave**
- **Ft. Monmouth Hired 1599 New People In The Last 4 Years; 86% From Industry & Academia**

Dr. Sega, DDR&E---April 2005

- **A National Issue---”An Emerging and Critical Problem For S&E Work Force**
 - 12 Major Studies (1999-2004) Make Essentially Same Point
 - A Few Studies Did Not Consider Security Clearance Needs
- **Growing Need For U.S. Citizens In National Security Activities**
- **“Attrition” In DOD Labs Approximately 13,000 S&E Departures**
- **Number Of Clearable Students Pursuing Defense Related Critical Skill DegreesAnd Is Declining**
- **Projected U.S. Demand For S&E’s Will Be Up 10% By 2010**

Problem Is Real---An Will Make Replacing A Large Workforce Difficult

How Many Will Go!!

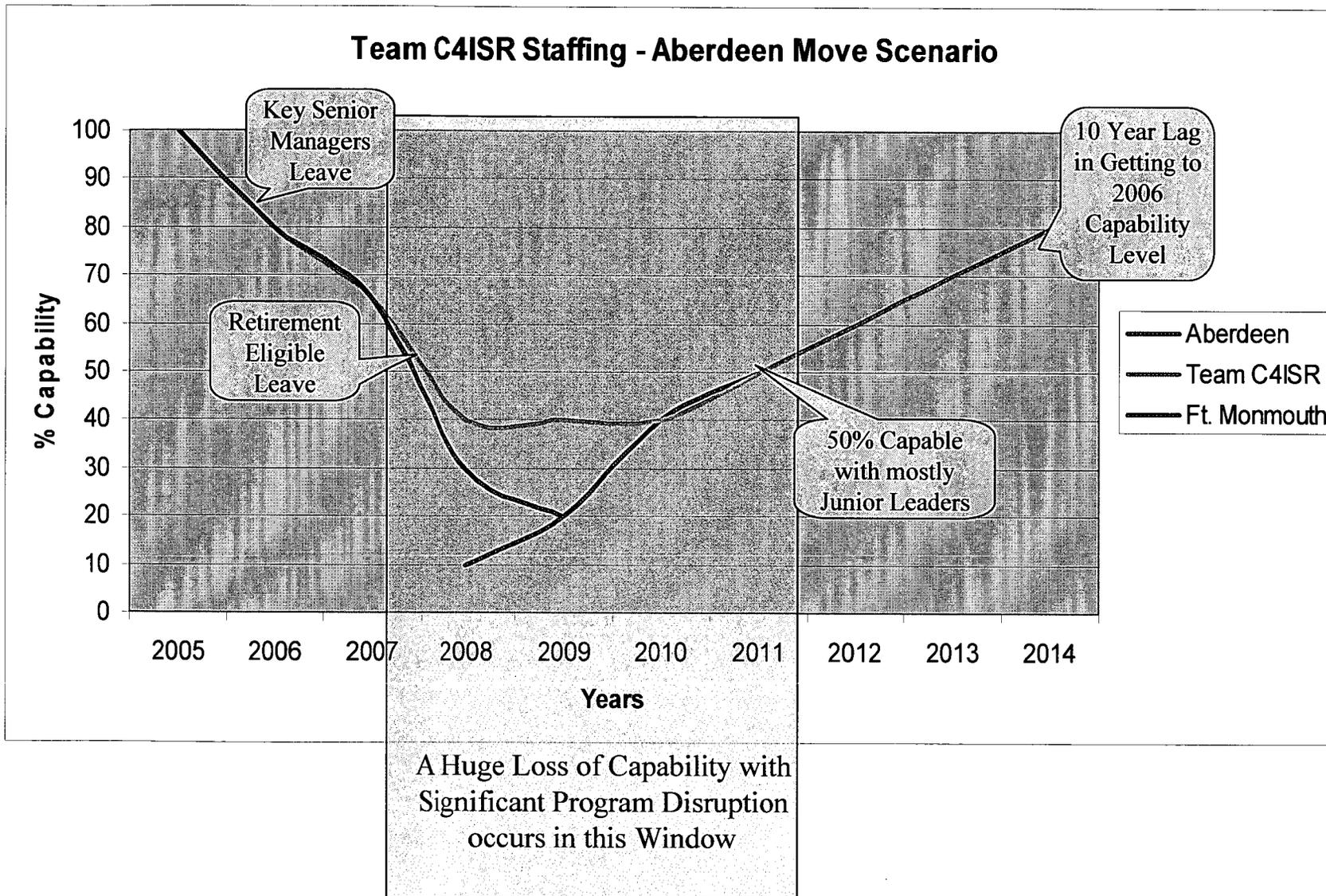
	Activity	From	To	Total	% Moved
BRAC 95	Signal Warfare	Vint Hill VA.	Ft. Mon. NJ	180	29 (16%)
BRAC 93	Physical Sci. Div	Ft. Mon. NJ	Adelphi VA.	300	40 (13%)
1990	TMDE	Ft. Mon NJ	Huntsville AL	40	1 (2%)
1980	Laser Tech Div.	Ft. Mon NJ	Belvoir VA	50	5 (10%)

- Using 20% Going--- We Need 1644 New Hires E &S All Cleared At The Secret To SCI Level---- Just The R&D Staff Considered
- Contractor Statistic For Vint Hill To Ft. Monmouth--- 15 of 150 Moved ----10%

3. Disruption

- Disruption tied to massive workforce loss
 - Immediate impact on war
 - Growing impact will unacceptably disrupt large Army/Joint programs in 2007-2011
- C4ISR-based Network-centric goals have been top priority for a decade
 - Why abandon now? Not discussed
- Costs of program disruption ...not considered

Predicted Staffing Losses In The BRAC Window



DISRUPTION---Four Major Programs Examined

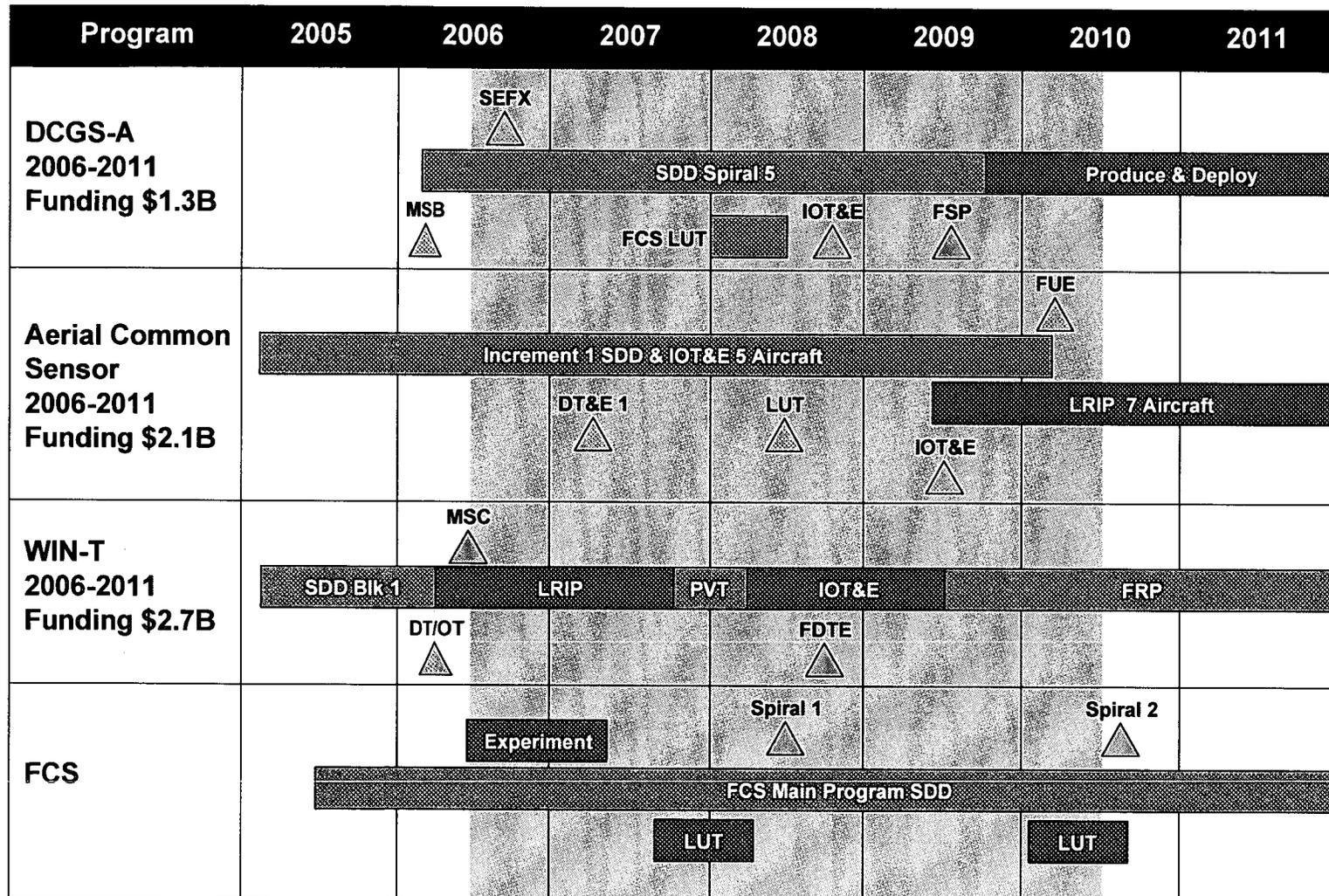


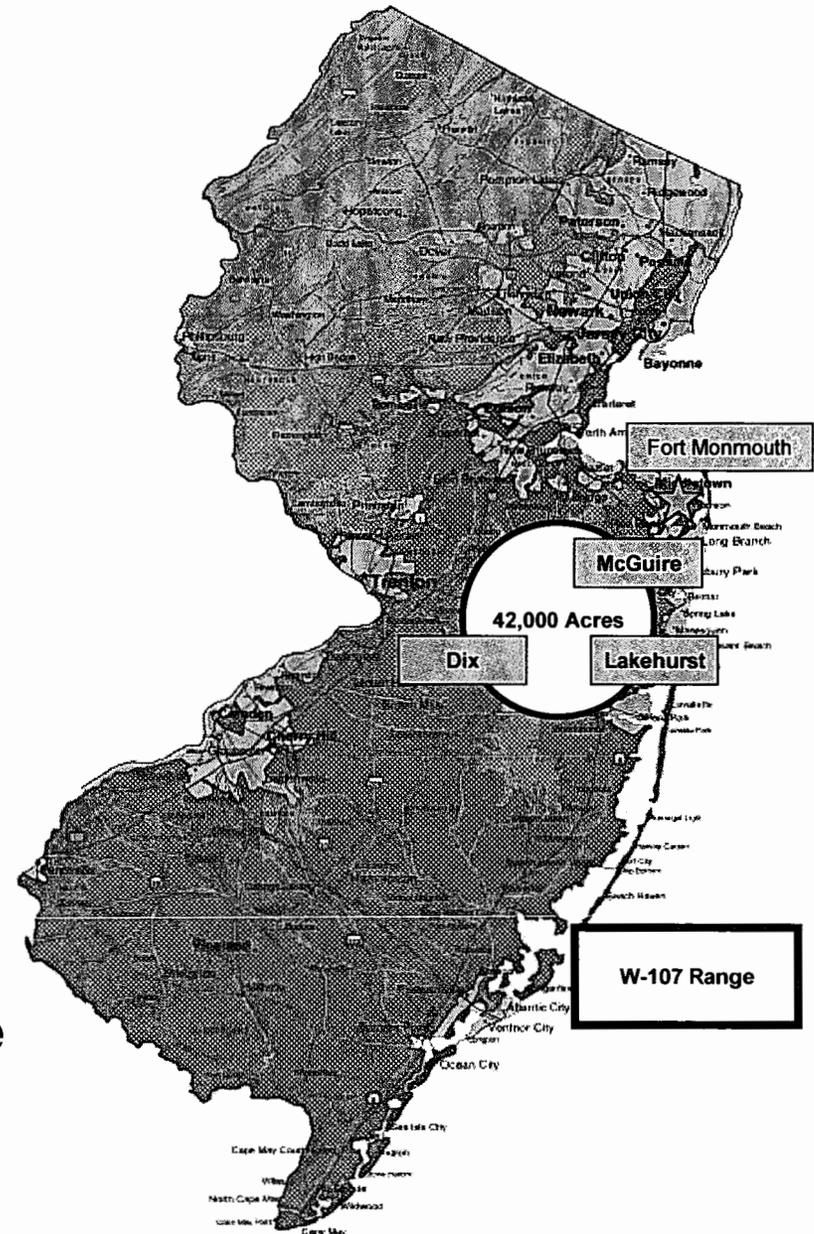
Figure 12: BRAC Impact on Major Programs

4. Jointness

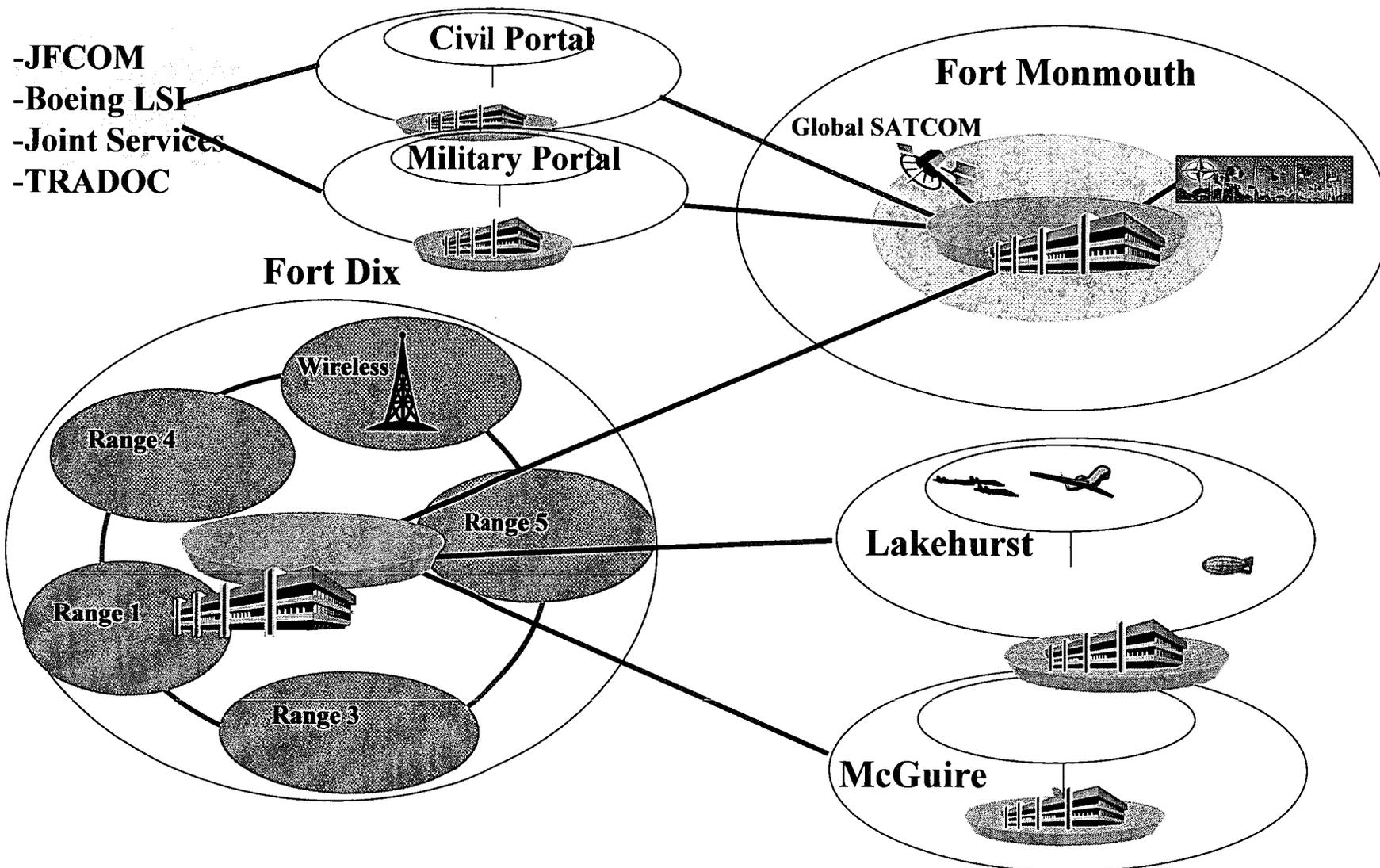
- Criterion #1 ... simply not addressed
 - Nor was **existing** Monmouth-Dix/Lake/McGuire Joint capability or proximity recognized
 - Instrumented ranges; intra- and extra-connectivity
- BRAC disassembles existing Jointness
 - Does not re-create Jointness in an *Army-to-Army* move
 - Aberdeen unable to execute Joint C4ISR now or in the future

JOINT TESTING & EXPERIMENTATION ALREADY IN PLACE

- Land, Air, & Sea Experimentation In Place & Linked To Premier C4ISR Labs
- 42,000 Contiguous Land Acres Under A Joint Basing Concept
- W-107 Provides Connectivity To Ships At Sea
- Significant Infrastructure In Place
- Army Test & Evaluation Command, Reserve Units, TRADOC Futures, etc Engaged In Yearly Experiments
- Experiments Bridge Current & Future Force Concepts



New Jersey Joint Base Infrastructure



Experiments Conducted & Planned

Conducted

- **FCS Risk Reduction—System of System Experiment**
- **JINEX 04 Capstone**
- **JEFX (AF) Joint Abn. C2 & MTI Target Tracking**
- **JRAE (Navy) Horizontal Inteop. — Next Gen. Architecture**
- **DevEX 04 (UAMBL)---Human In-The-Loop Virtual/Const. Sim**
- **DCEE (Joint)---Network Lab. For Live/Virtual Experiments (JFCOM)**
- **Air Assault Expeditionary Force---TRADOC Futures FCS C4ISR Into Current Force**

Planned

- **TACP CAS In WIN-T Network**
- **Target Mensuration Using UAVs**
- **Airborne/Space Communications Range Extension**
- **FCS LSI For JEFX 06**
- **FCS LSI for Experiment 1**
- **HLS/HLD Experimentation**
- **Air Assault Expeditionary Force Spiral C**
- **C4ISR On The Move With FCS Spiral 1 Capability and Legacy Systems**

5. Costs

- Add over \$500M in one time costs
 - One time costs exceed \$1B
 - MILCON, Equip Relocation, BOS inaccuracies, Aviation
- Payback Period >> 12 years
- Not including: approximately \$250M to reconstitute the workforce

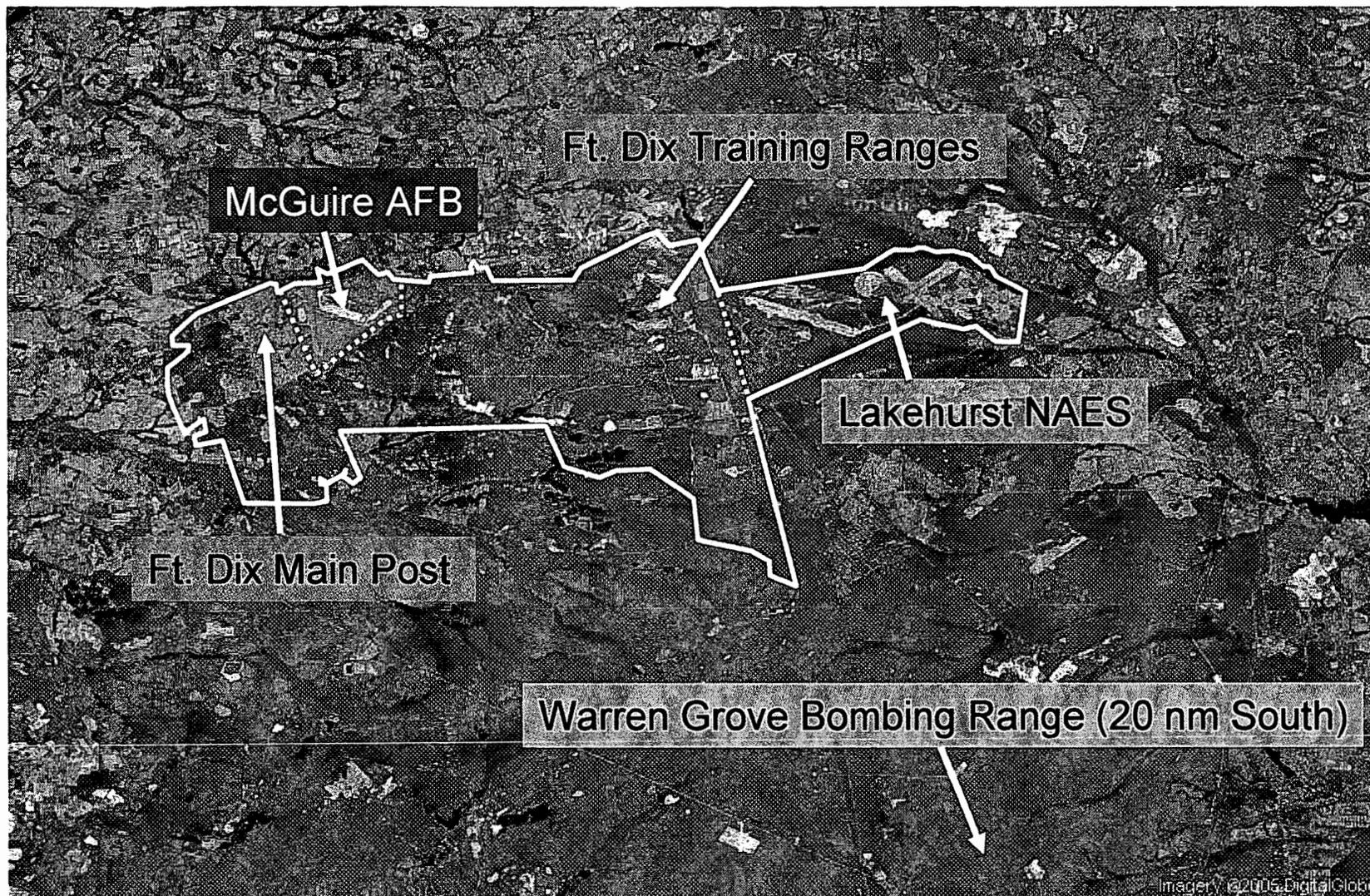
COST ISSUES----Our Estimate Adds \$444M

	COBRA	OUR ESTIMATE	RATIONALE
MILCON w/o MAPS	\$350M	\$528M +\$178M	Insufficient Sq. Feet Allocated
AVIATION	\$56M	\$141M +\$85M	Didn't Consider hanger space & "blimps"
SPECIAL FACILITIES	\$0	+\$100M	24/7 Satellite Mission
RELOCATE PEOPLE	\$189M	\$202M \$13M	Didn't Account For All People
BOS	\$22M	\$70M +\$48M	Reimbursable Tenant Spt.
RELOCATE SPEC EQ.	\$56M	\$76M +\$20M	All Equipment Not Considered

6. Maneuver and Air Space

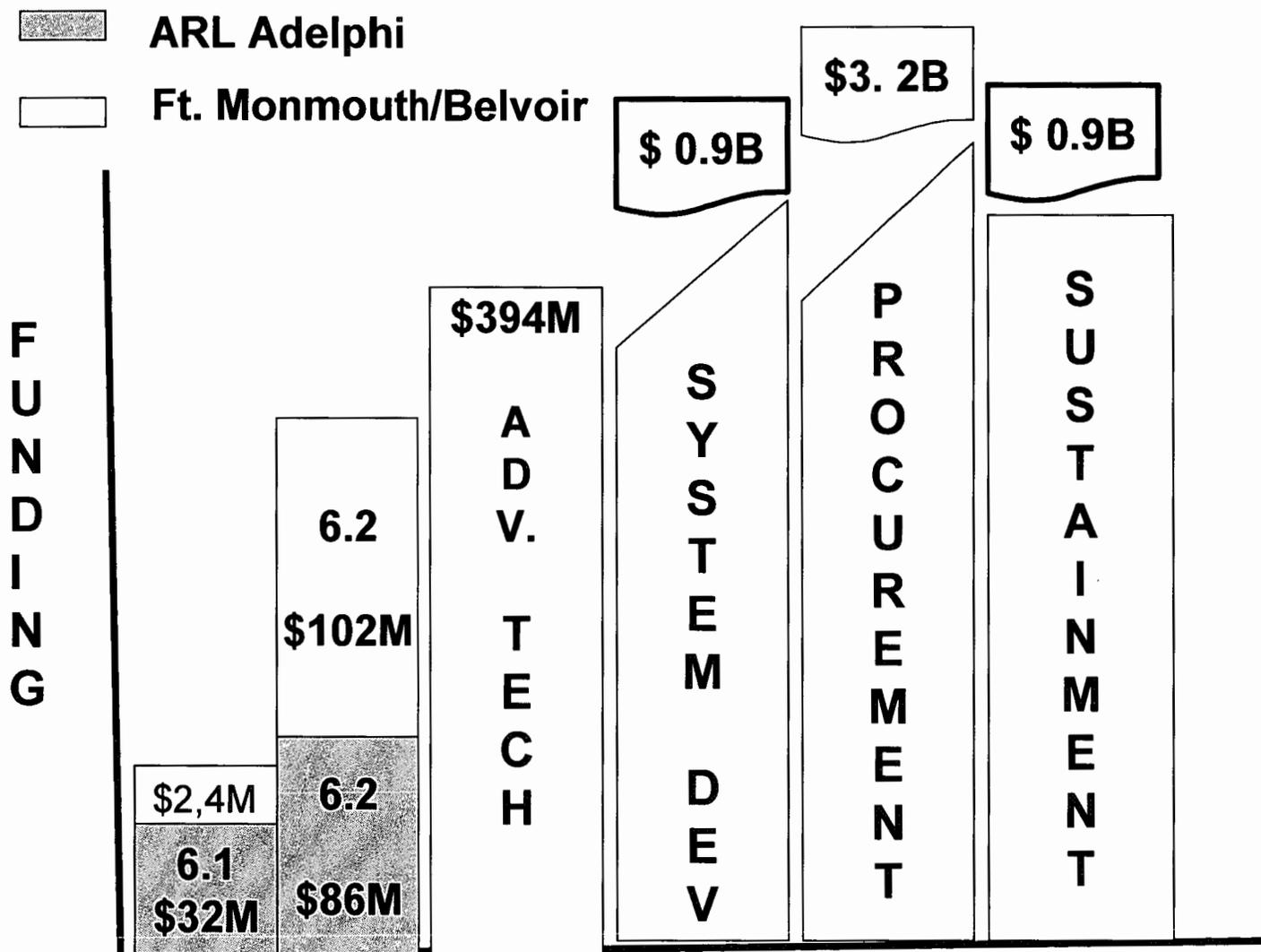
- Assumed Aberdeen was a full spectrum proving ground ... not
- Did not consider: proximity of the DLM Joint Base, Satellite Ground facilities or W-107
 - Or existing DLM instrumented and linked ranges
- Ignored “FAA-factor” at Aberdeen
- Assumed away criterion #2

Dix, McGuire, Lakehurst Aerial View



7. Lost in R&D

- Army plan was = Land C4ISR **RDAT&E** Center
- T-JCSG plan was = Land C4ISR **RDA** Center
- **BRAC result:** just re-created Land C4ISR **D&A** Center
 - **No R** ... it largely stays at Adelphi
 - **No T&E** ... Aberdeen has no capability; Huachuca in Army Electronics Proving Ground. Army forgot that fact
 - **Moves D&A** to a place with **no D&A** (or any other) capability in C4ISR ... for nearly \$1B ... but D&A personnel are unlikely to move
 - **Ignores** current **Joint** access for experimentation
 - Claims synergies with **unrelated** tech disciplines; **no** justification



C4ISR Funding By Category

- Does Not Include Other Agencies C4ISR Purchased By Ft. Monmouth

Other Considerations

- Community impact: 5K + 15K jobs and \$3B GDP
- Impact on Non-DOD tenants ... VA et al
- Homeland Security
- Errors in Demographics
- Questionable capacity analyses ... by Army and T-JCSG
- “Feedback” from MILCON visitors: “Underestimated”
- Facilities age/base conditions @ Aberdeen: WWII
- **Moving large Tech workforce = unique in BRAC 2005**

Summary

- Significantly deviated from 5 selection criteria
- Ignored nearby Joint Base
- Military Value application inappropriate
- Disruption now and future = unacceptable
- Workforce loss ignored
- Fort Monmouth is the Land C4ISR Center, now