



# BRAAC 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	<b>0.46</b> <b>1st</b>	<b>0.34</b> <b>3rd</b>	<b>0.48</b> <b>1st</b>	<b>0.43</b> <b>1st</b>
Ft. Belvoir	<b>0.07</b> <b>5th</b>	<b>0.39</b> <b>2nd</b>	<b>0.23</b> <b>5th</b>	<b>0.25</b> <b>3rd</b>
Adelphi	<b>0.25</b> <b>3rd</b>	<b>0.50</b> <b>1st</b>	---	---
Redstone	<b>0.24</b> <b>4th</b>	<b>0.23</b> <b>4th</b>	<b>0.23</b> <b>4th</b>	<b>0.34</b> <b>2nd</b>
APG	<b>0.28</b> <b>2nd</b>	<b>0.17</b> <b>5th</b>	---	<b>0.22</b> <b>4th</b>

**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 Degrees ....And 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!

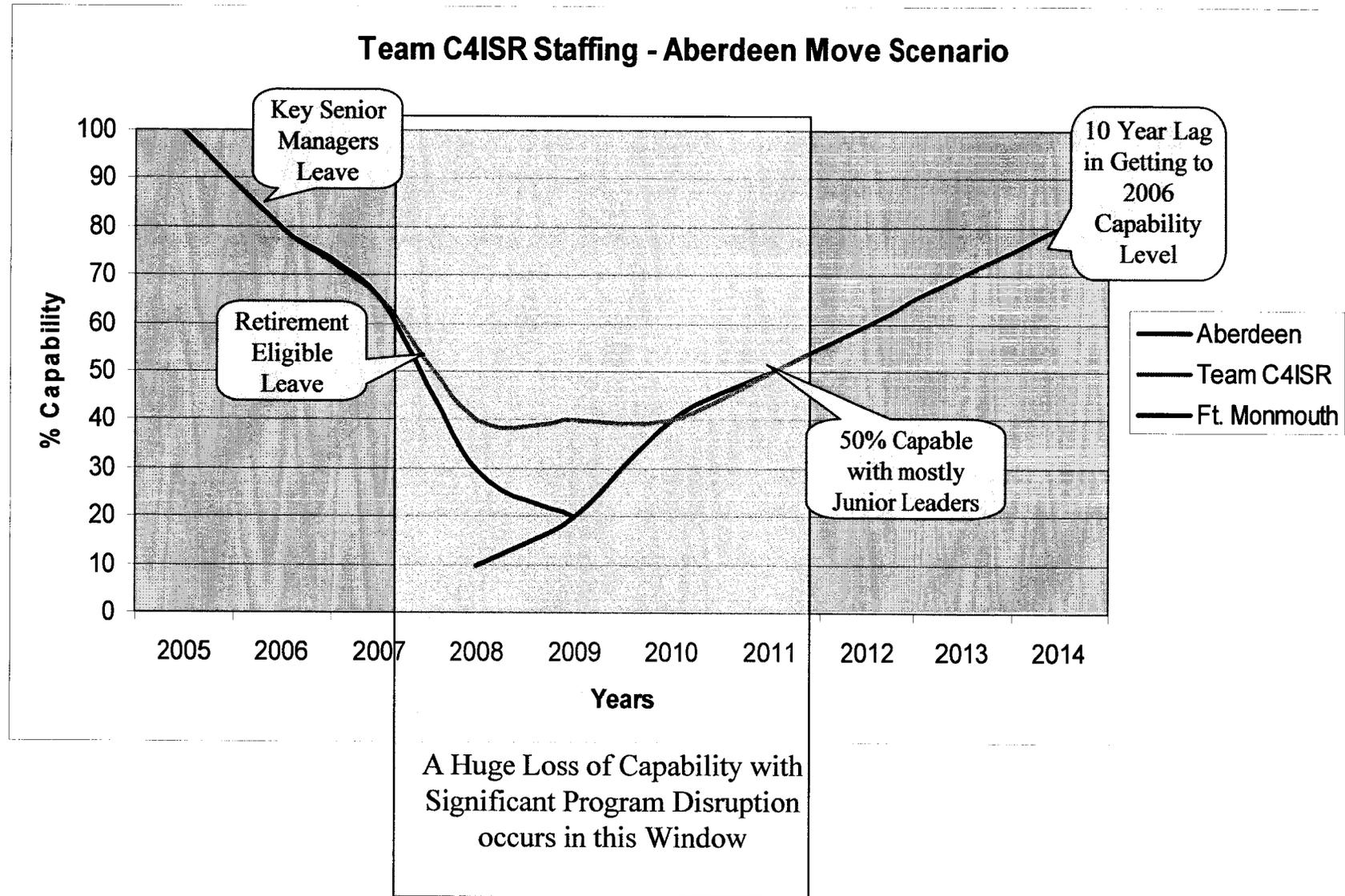
	Activity	From	To	Total	% Moved
BRAC 95	Signal Warfare	Vint Hill VA.	Ft. Mon. NJ	180	29 (16%)
BRAC 93	Physical Sci. Div	Ft. Mon. NJ	Adelphi VA.	300	40 (13%)
1990	TMDE	Ft. Mon NJ	Huntsville AL	40	1 (2%)
1980	Laser Tech Div.	Ft. Mon NJ	Belvoir VA	50	5 (10%)

- 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

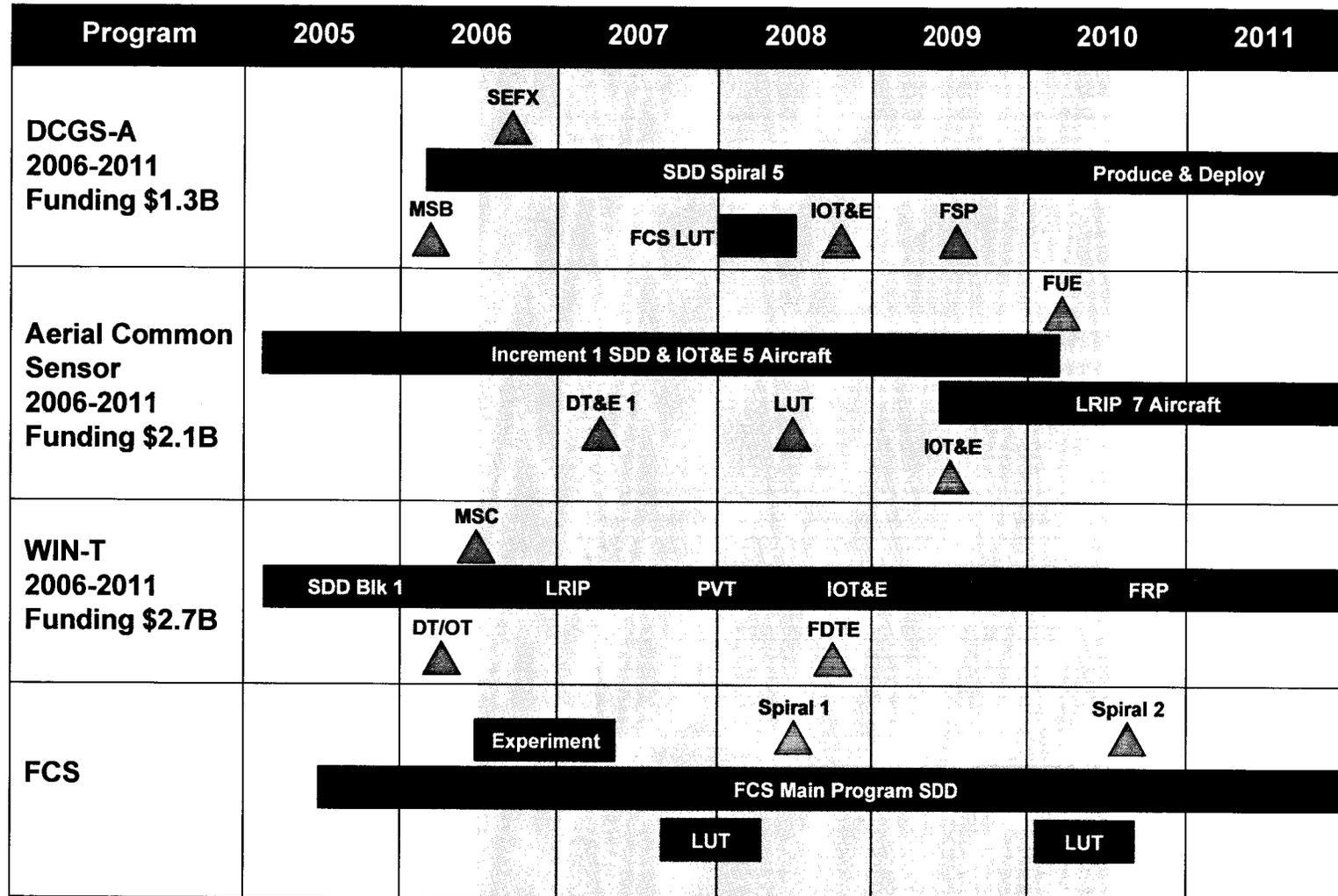


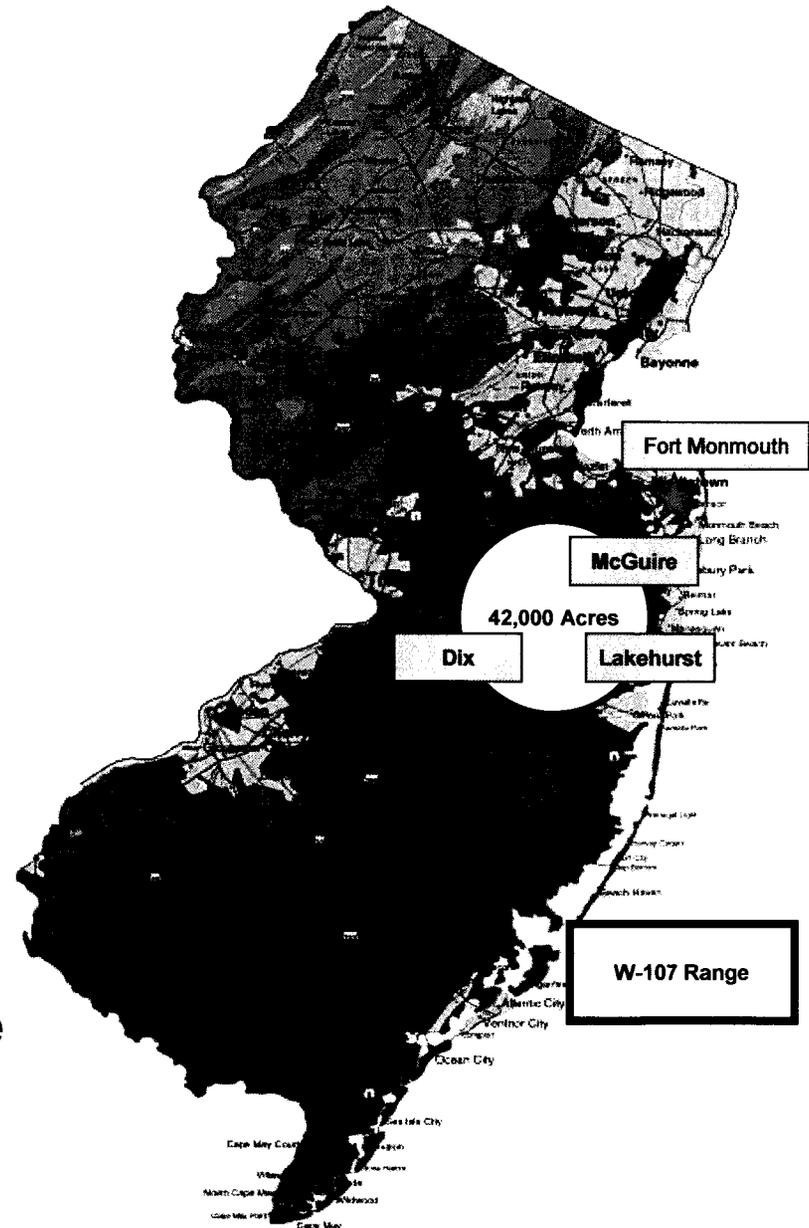
Figure 12: BRAC Impact on Major Programs

# 4. Jointness

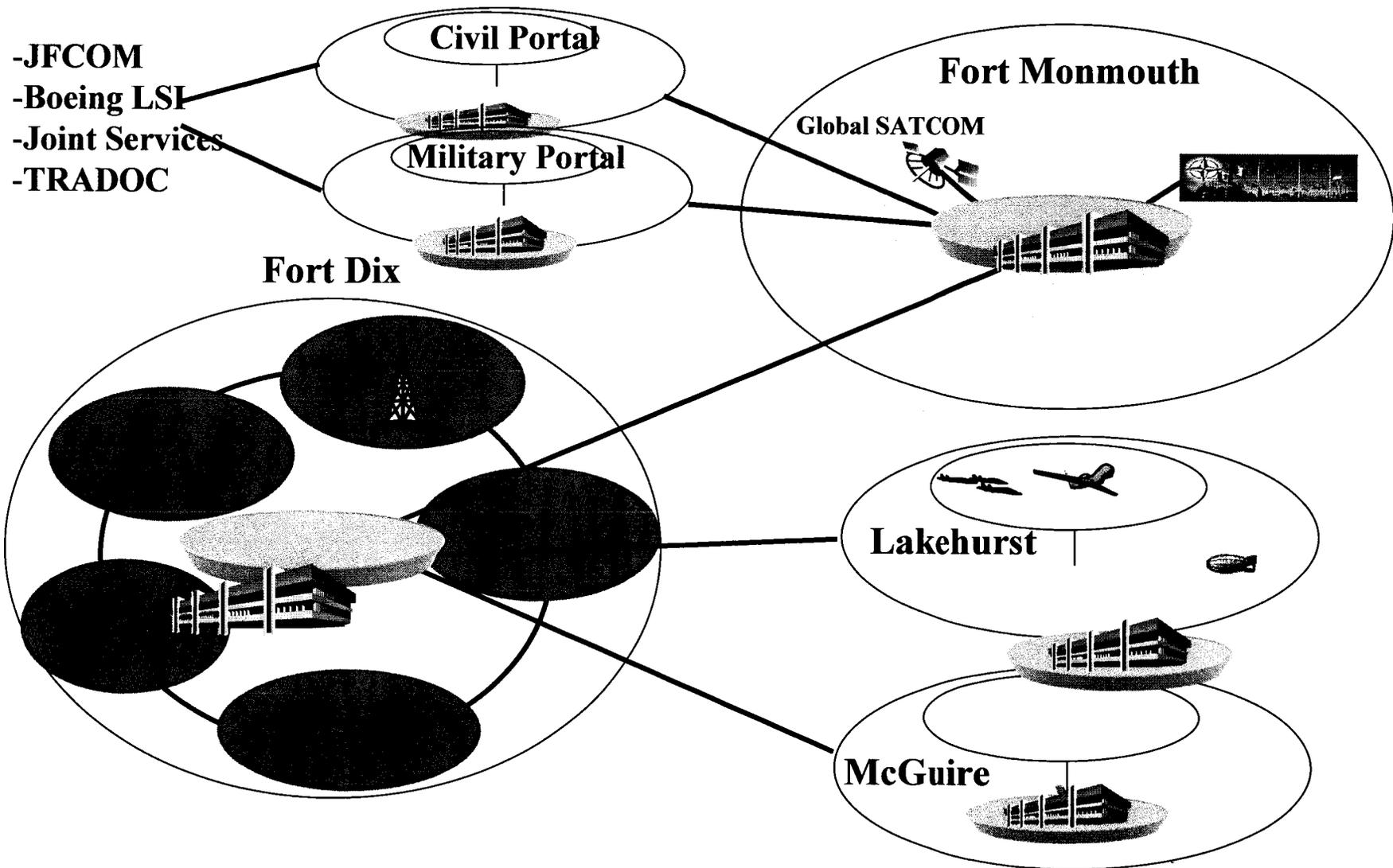
- Criterion #1 ... simply not addressed
  - Nor was **existing** Monmouth-Dix/Lake/McGuire Joint capability or proximity recognized
    - Instrumented ranges; intra- and extra-connectivity
- **BRAC disassembles existing Jointness**
  - Does not re-create Jointness in an *Army-to-Army* move
  - Aberdeen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

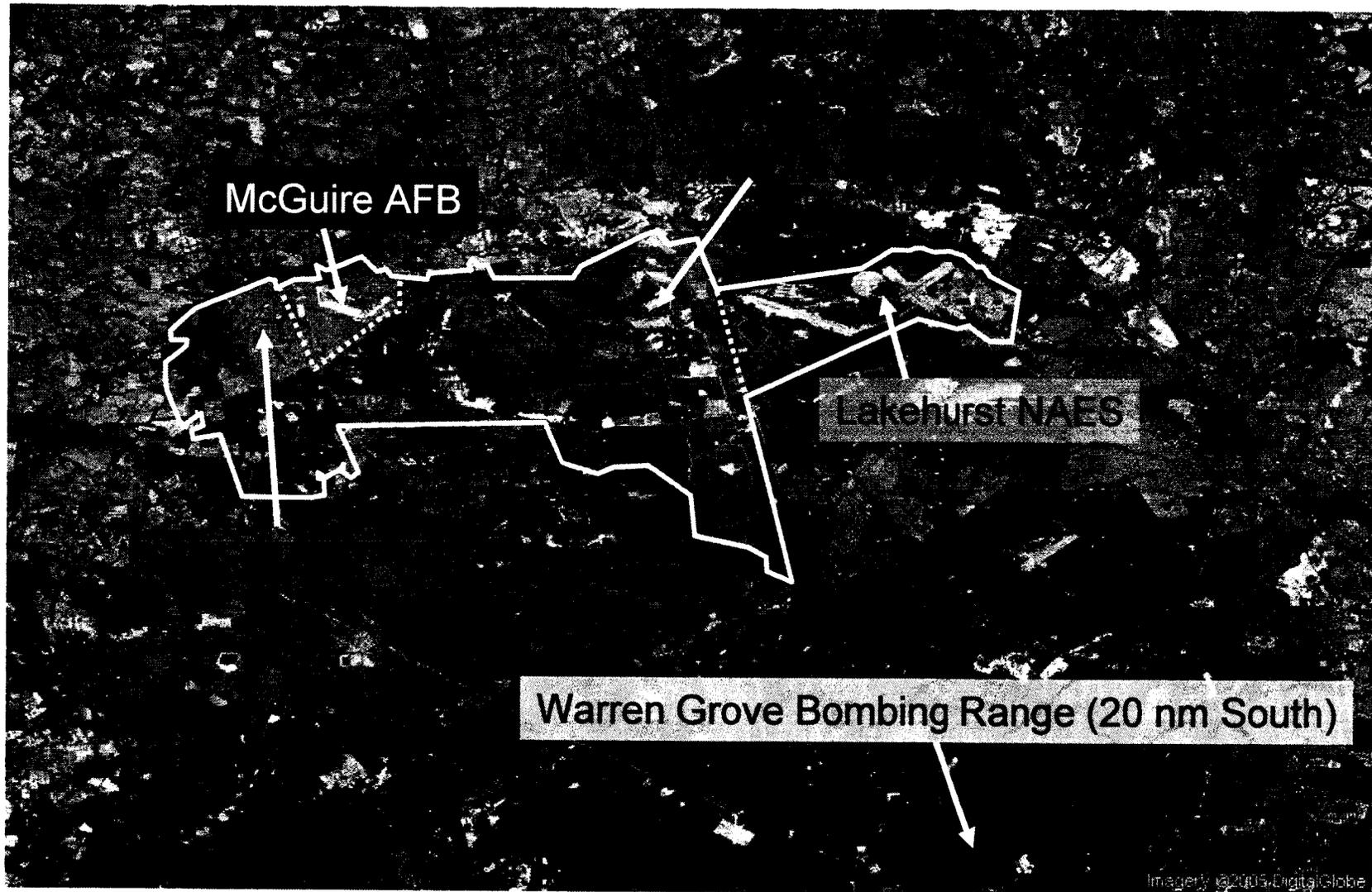
# **COST ISSUES----Our Estimate Adds \$444M**

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

## 6. Maneuver and Air Space

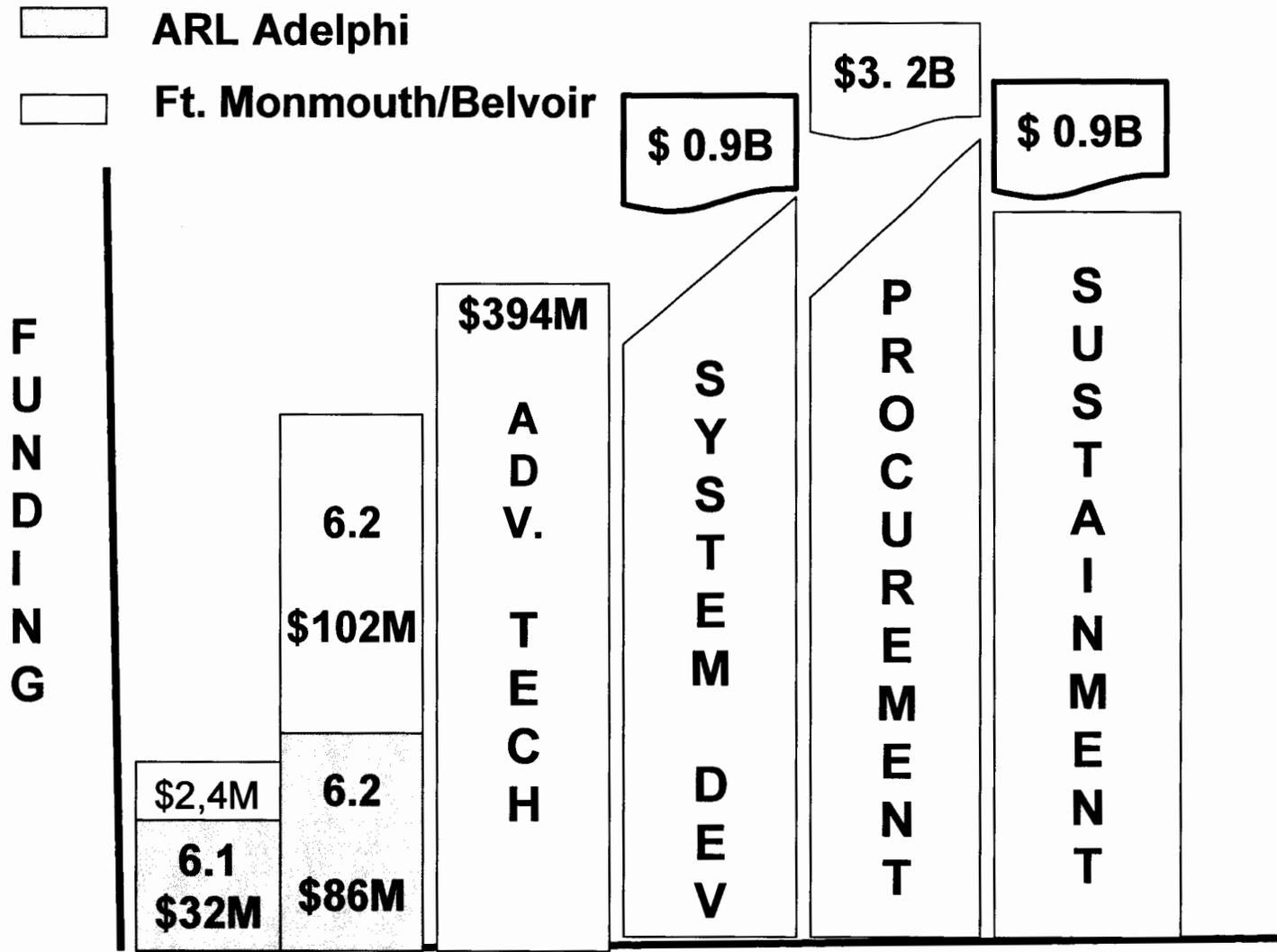
- Assumed Aberdeen was a full spectrum proving ground ... not
- Did not consider: proximity of the DLM Joint Base, Satellite Ground facilities or W-107
  - Or existing DLM instrumented and linked ranges
- Ignored “FAA-factor” at Aberdeen
- Assumed away criterion #2

# Dix, McGuire, Lakehurst Aerial View



# 7. Lost in R&D

- Army plan was = Land C4ISR RDT&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