

**Rebuttal**  
**DoD BRAC Recommendation**  
regarding  
**Fort Monmouth**  
and its Fort Belvoir Elements

A presentation to the  
**2005 BRAC Commission**

July 8, 2005

Baltimore, MD

# THE END

- The Secretary of Defense substantially deviated from 5 BRAC selection criteria
  - for a cost of ---
  - \$1.5B one time costs
  - annual savings of \$74M
  - payback 21 years
  - loss of 80% skilled workforce (~3000)
  - unprecedented risk to near/future programs and warfighters
  - no improvement
- Recommendation:
  - Reject DOD BRAC recommendation
  - Retain organizations in place, formal connection to Joint Base, reduce cost

# Selection Criteria

1. **“Current and future mission capabilities” + “ Joint readiness”**
2. **“availability of airspace and... maneuver for ground, naval and air forces”**
3. **“contingency, mobilization, surge, future forces”**
4. **“costs” + “manpower implications”**
5. **“timing of costs and savings”**
6. **“economic impact” 5000 + 15000 jobs ~\$3B in NJ GDP**
7. **“ability to [receive] missions ... people”**
8. **“environmental impact” ... worries about going to Aberdeen**

# Mission Military Value

- Relates to **Criteria 1-4**
- Military Value for technical mission
  - Monmouth scores ~2X the rest; Aberdeen last
- Source: DOD BRAC Army Recommendation Supporting Information 09 May 05, Tab 1

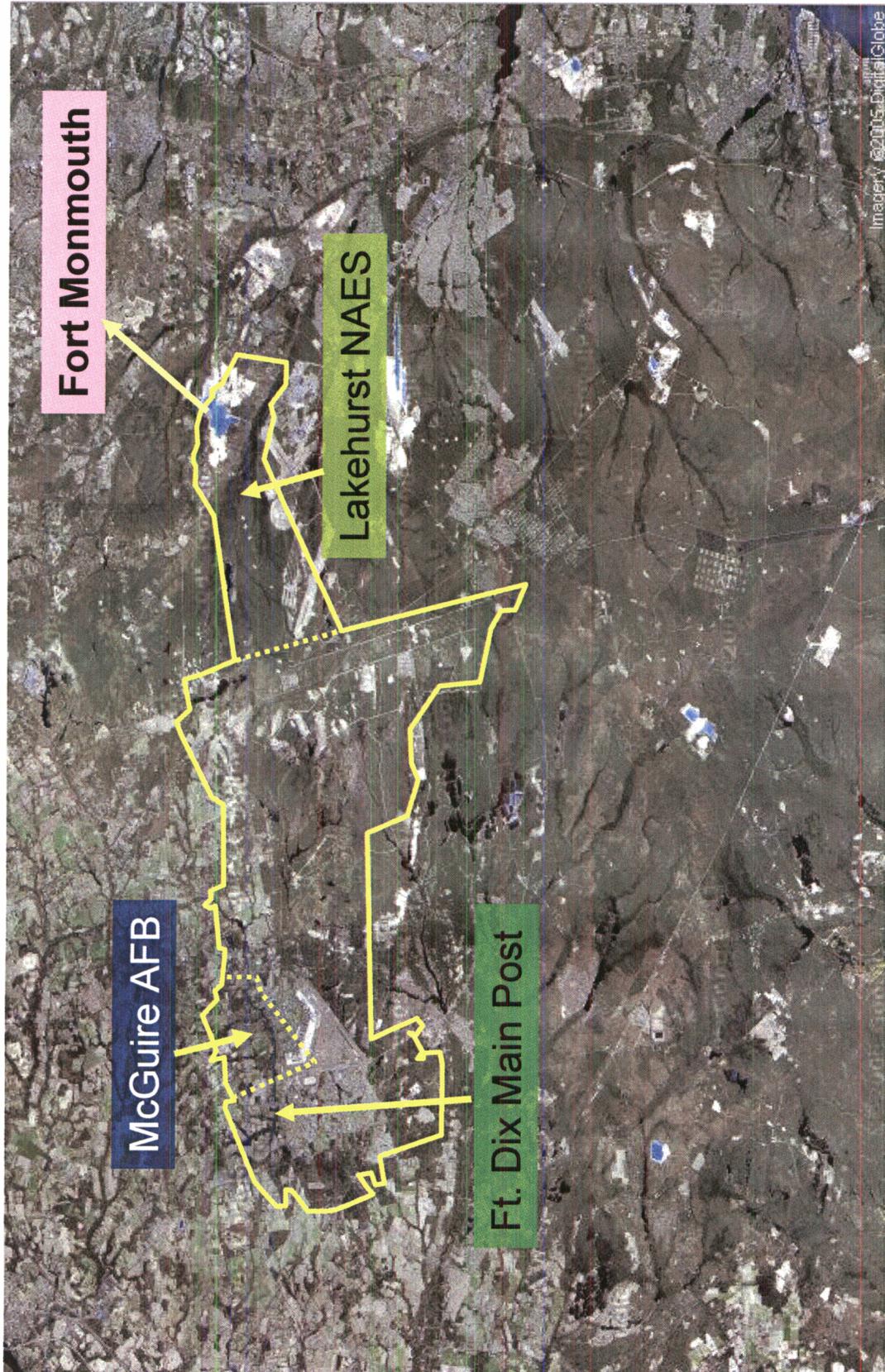
	R Info Systems	R Sensors EW	D&A Info Systems	D&A Sensors EW
Monmouth	<b>0.46</b> <b>1st</b>	<b>0.34</b> <b>3rd</b>	<b>0.48</b> <b>1st</b>	<b>0.43</b> <b>1st</b>
Belvoir	<b>0.07</b> <b>5th</b>	<b>0.39</b> <b>2nd</b>	<b>0.23</b> <b>5th</b>	<b>0.25</b> <b>3rd</b>
Adelphi	<b>0.25</b> <b>3rd</b>	<b>0.50</b> <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>
Aberdeen	<b>0.28</b> <b>2nd</b>	<b>0.17</b> <b>5th</b>	---	<b>0.22</b> <b>4th</b>

# Application of Installation Military Value ? Landlord or Mission priority?

- Direct Fire
- MOUT
- Heavy Maneuver
- Indirect Fire
- Airspace
- Gen. Instruction
- Applied Inst.
- Air Quality
- Noise
- Soil
- Mob History
- Force Deploy
- Mat'l Deploy
- Operations
- Accessibility
- Connectivity
- **RDT&E Mission Diversity**
- **Test Ranges**
- Munitions
- Workload
- Maintenance
- Supply Storage
- Ammo Storage
- Crime
- Medical Availability
- Housing
- In State Tuition
- Employment
- Workforce Availability
- Area Cost
- Joint Facilities
- C2 Target Facilities
- Installation unit cost
- Buildable acres
- Brigade capacity
- Environment
- Urban Sprawl
- Infrastructure Proximity
- Water

**Only two attributes are R&D or C4ISR relevant**

# Dix, Lakehurst, McGuire Joint Base “DLM Joint Base”



# Installation Military Value

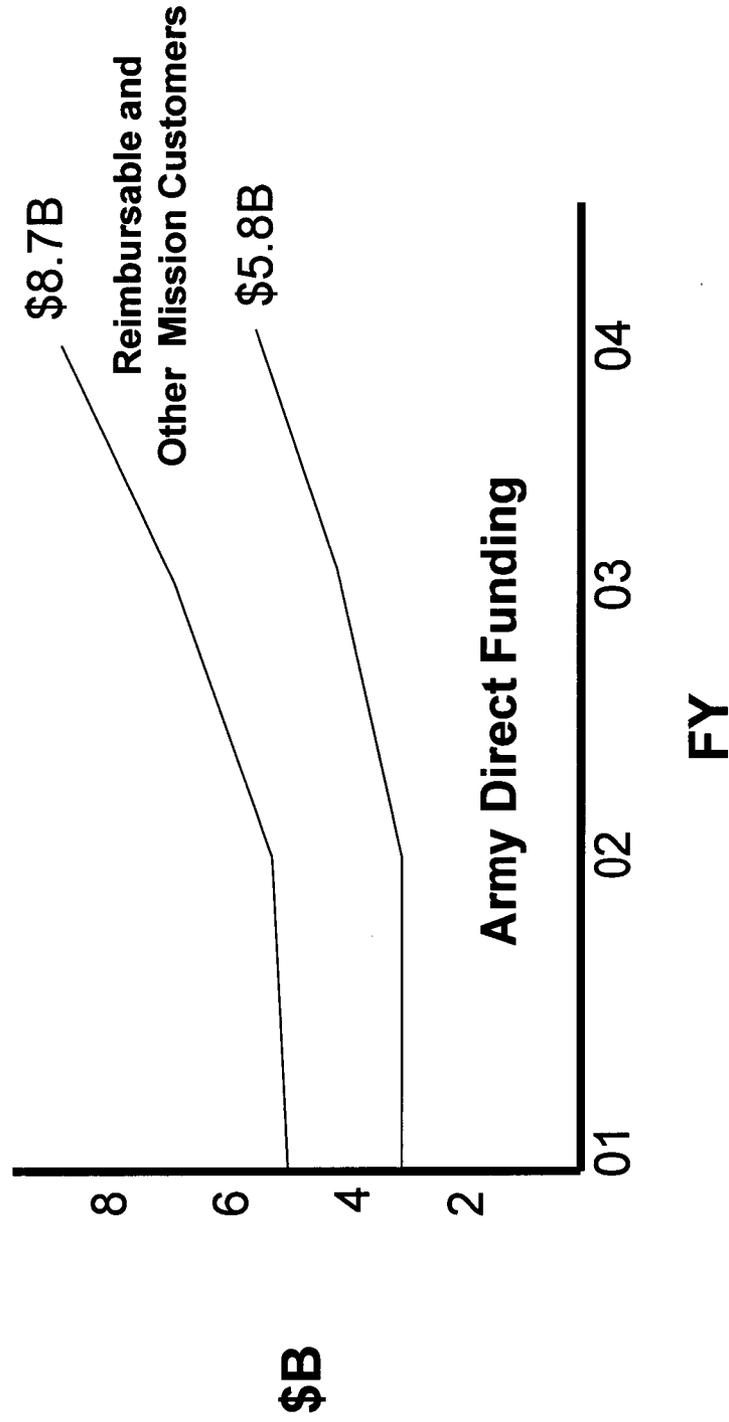
## DLM Joint Base + Monmouth

(25 Attributes in Army Top 1/3 or equal to/better than APG)

- Direct Fire
- Indirect Fire
- MOUT
- Heavy Maneuver
- Airspace ... Lake/McGuire Airspace ??
- Gen. Instruction
- Applied Inst.
- Air Quality ??
- Noise
- Soil
- Water Quantity
- Mob
- Force Deploy
- Material Deploy ... McGuire ??
- Operations
- Accessibility
- Connectivity ... Aberdeen deficient?
- RDT&E Mission Diversity
- Test Ranges ... Dix C4ISR ranges
- Munitions
- Ammo Storage
- Inter-Service Workload ... DLM ??
- Maintenance/Mfg
- Supply Storage
- Crime
- Employment Opportunity
- Medical Availability
- Housing
- In State Tuition ... Army WRONG
- Employment
- Workforce Availability
- Area Cost ... Locality 5% different
- Joint Facilities
- C2 Target Facilities
- Installation unit cost
- Buildable acres
- Brigade capacity
- Environent
- Urban Sprawl
- Infrastructure Proximity

High Installation + Technical Value ... National Lead

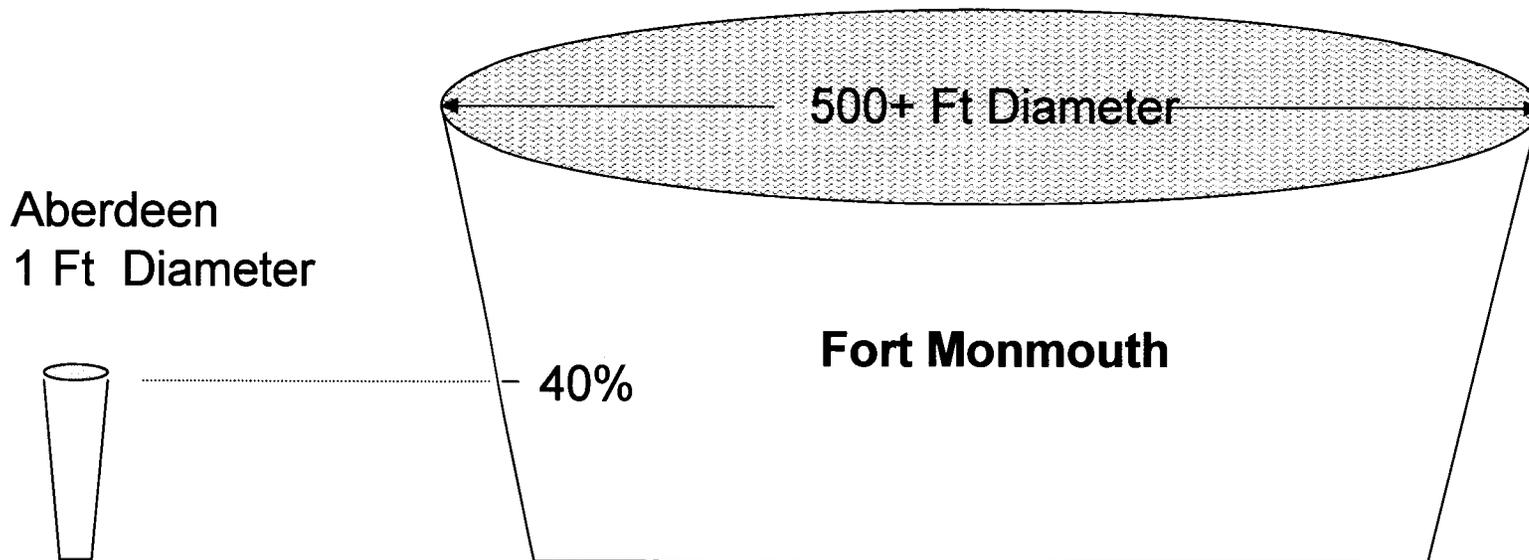
# Military Value by Customer



Sources: Army/Fed Funding Auth Documents, MIPRs, etc.

# Military Value by Volume

- Diameter = C4ISR work 1 Foot = \$10M
- Height = Technical Military Value



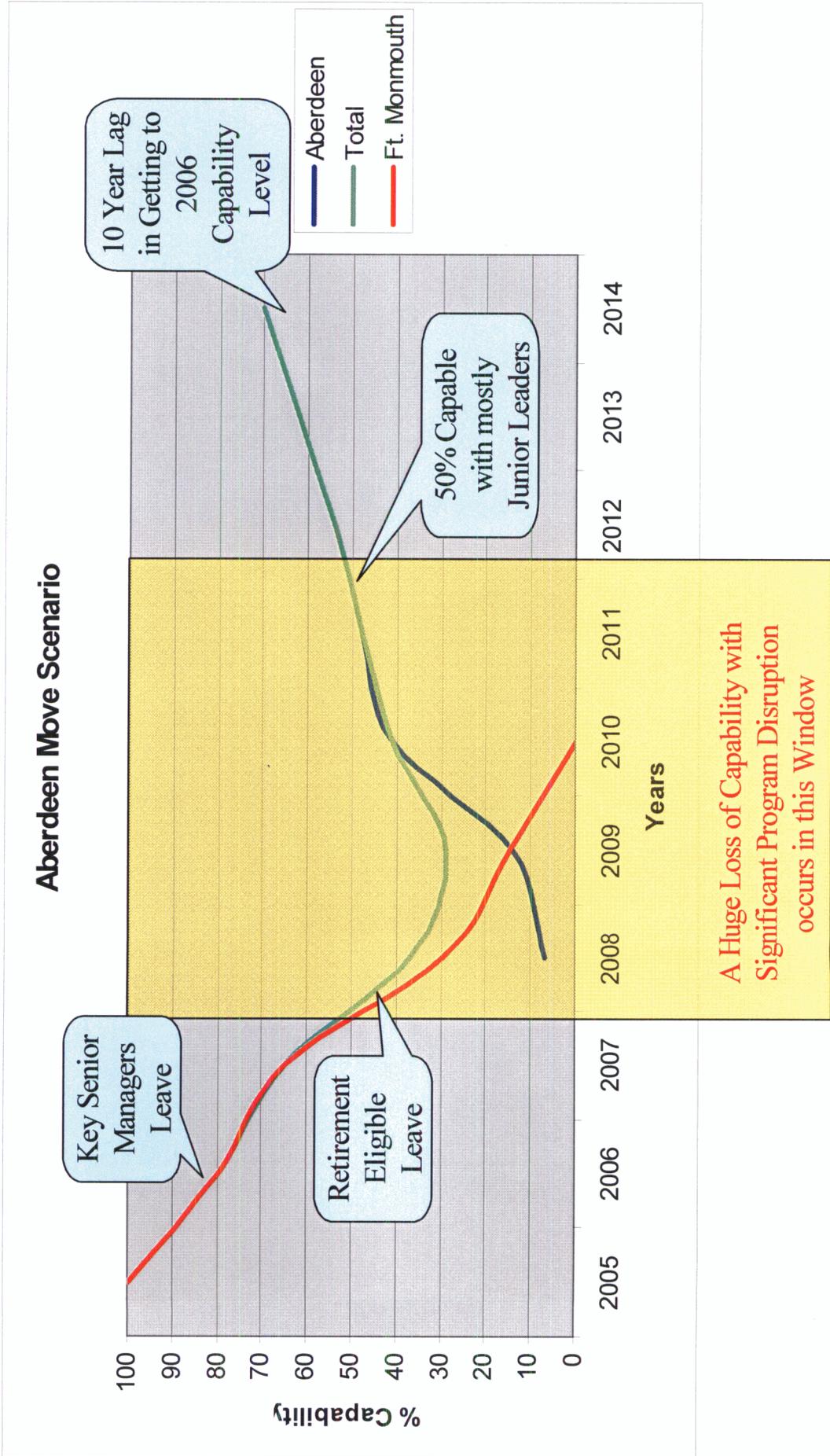
# #1 Current and Future Mission

- **Substantial deviation: did not discuss, consider or calculate high risk of program disruptions to:**
  - Current Mission as war continues
  - Future Mission ... 2007-2011 ... to many, multi-\$B approved programs
  - Predict no better than 50% manpower capability between 2007-2011

# 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%)

# Reduced Capability In The BRAC Window



# DISRUPTION -- Four Major Programs Examined

Program	2005	2006	2007	2008	2009	2010	2011	
DCGS-A 2006-2011 Funding \$1.3B		SEFX ▲						
		SDD Spiral 5					Produce & Deploy	
Aerial Common Sensor 2006-2011 Funding \$2.1B		MSB ▲	FCS LUT	IOT&E ▲	FSP ▲			
		Increment 1 SDD & IOT&E 5 Aircraft					FUE ▲	
			DT&E 1 ▲	LUT ▲		LRIP 7 Aircraft		
WIN-T 2006-2011 Funding \$2.7B		MSC ▲						
		SDD Blk 1		LRIP	PVT	IOT&E	FRP	
FCS		DT/OT ▲		FDTE ▲				
		Experiment		Spiral 1 ▲		Spiral 2 ▲		
		FCS Main Program SDD						
				LUT			LUT	

Figure 12: BRAC Impact on Major Programs

# #4 & #5 Cost

Data Backup + COBRA re-runs

## \$1.5B one time costs ... 21 year PBP

Cost increase \$700M ... payback 15 years longer

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- Does not include costs to reconstitute a technical civilian workforce = \$300M
- Does not include costs to relocate/hire contractor workforce = \$152M
- Does not include program disruption costs

# Cost/Savings Highlights

Backed up with data + COBRA

	COBRA	Corrected COBRA	RATIONALE
<b>MILCON</b> (MAPS example)	\$392M	\$866M +\$474M	Square Feet & Const - Refurb
<b>AVIATION</b>	\$56M	\$116M +\$60M	Hangar + ramp space
<b>SPECIAL FACILITIES</b>	\$0	+\$253- 494M	E.G. Satellite Mission
<b>RELOCATE PEOPLE</b>	\$218M	\$144M -\$74M	Wrong # people & Less move

<b>SAVINGS</b>	<b>\$143M</b>	<b>\$74M</b>	<b>Corrected BOS Errors</b>
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# Costs Decision Matrix

	DOD COBRA Result	Corrected COBRA	Recommend (later)	Real Cost
One Time Cost	\$822M	\$1.5B		\$1.99B
Recurring Savings	\$143M	\$74M		\$74M
Payback Period (Years)	6	21		>>21

# #4 Manpower Implications

- Substantial deviation: did not discuss, consider or calculate the loss of the technical workforce – feeds disruption to current and future mission #1
  - COBRA uses a standard 75% will move
  - History shows ~20% move
  - Harris Poll = 19% move
- Costs to reconstitute = \$300M
- Counter to DDR&E testimony: S&E workforce crisis

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**Contractor Statistic For Vint Hill To Ft. Monmouth –  
15 of 150 Moved -- 10%**

# Reconstitute Workforce Model

[Y% x salary for “hiring” + Z months/year x 3 years x salary for “training”] x [S&E + Acq Certified vacancies] = cost to reconstitute

Y = 50% for GS-12 S&E; ranges for grade, S&E and Acquisition

Z = Training factor: 1/12 to 3/12 used depending on grade/skill

Total number of vacancies used = ~3000

**Result: \$300M cost to reconstitute the workforce**

Range: ~ \$200M - \$400M

Sources: Bliss & Assoc; N Sorenson; B. Ettore; J. Fitz-enz; W Cascio; Marshall et al. and conferred w/ other R&D center on model constants

## **Dr. Segal, DDR&E, April 2005**

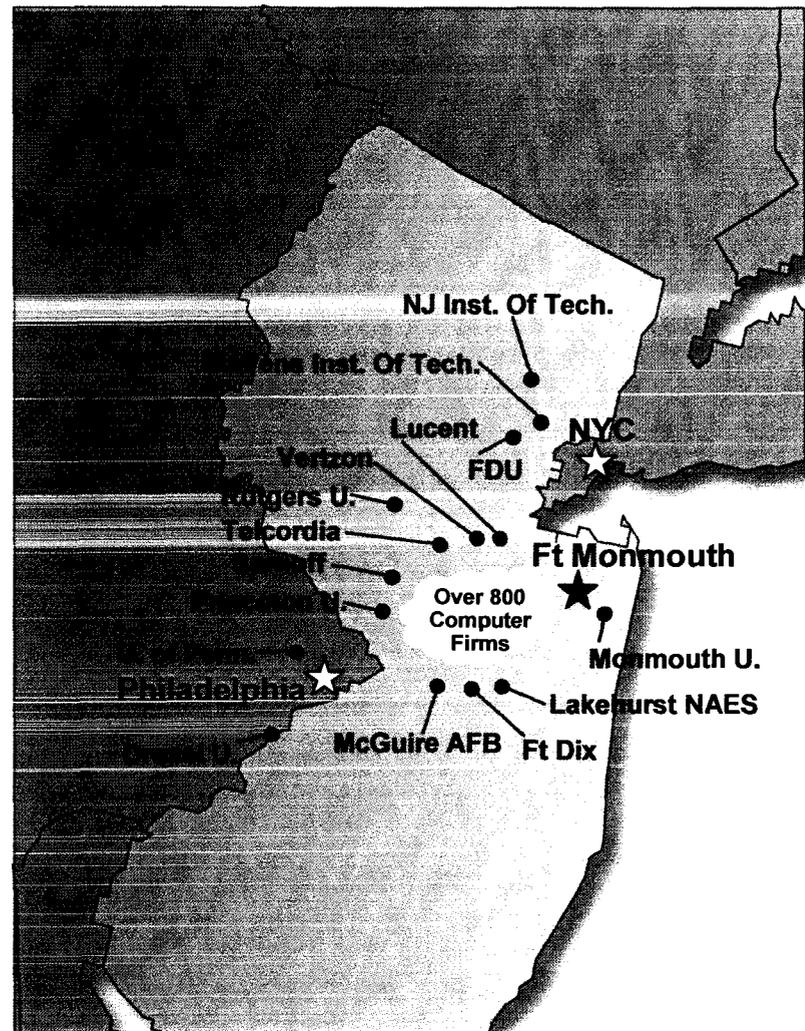
- A National Issue: “An emerging and critical problem for S&E workforce” ... supply of clearable employees for DOD workforce
- Growing Need For U.S. citizens in National Security activities
- “Attrition” In DOD Labs approximately 13,000 S&E departures
- Number of clearable students pursuing Defense-related critical skill degrees .... declining
- Projected U.S. demand for S&E’s up 10% by 2010

**Problem Is Real -- Replacing A Large Workforce Difficult or Impossible**

# New Jersey: Key to C4ISR Skill

**NJ location is critical in attracting and retaining a highly educated & experienced workforce and partnering with industry and academia.**

- ✓ **34 Cooperative Agreements with surrounding industry and academia.**
- ✓ **Hired 1,599 new people over the last 5 years; 85% are from nearby industry and academia.**
- ✓ **New Jersey: highest concentration of scientists and engineers and firms.**
- ✓ **32,000 new S&E jobs per quarter**
- ✓ **New Jersey accounts for 10% of all of the R&D in the United States.**



**NJ has one of the highest concentrations of engineers and scientists in the country.**

*-Research & Development Council of NJ ... John J. Heldrich Center*

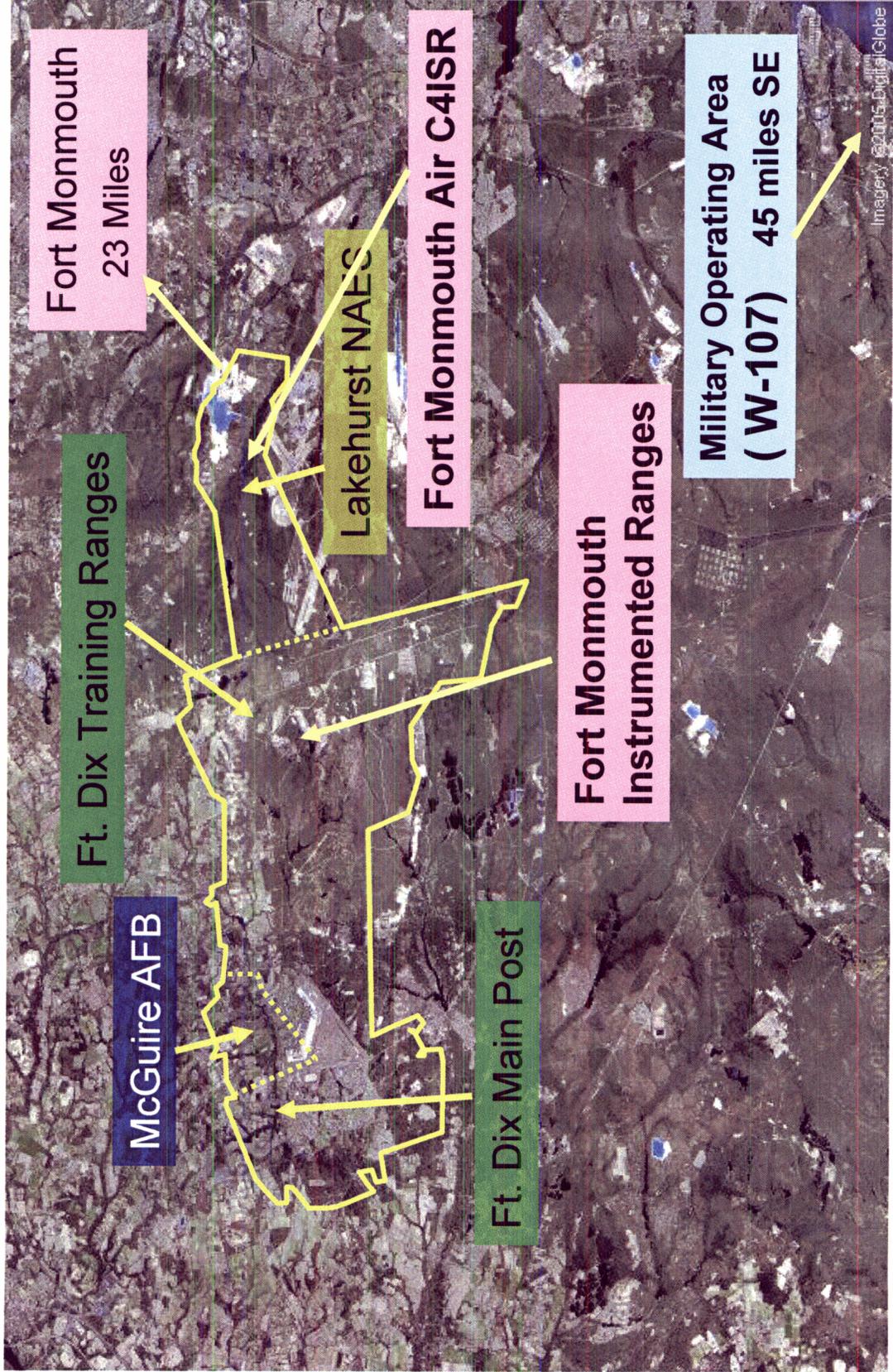
**NJ Universities graduate more than 11,000 Scientists/Engineers annually.**

*-National Science Foundation*

**#1 Jointness Avoided !!!**  
**#2 Air and Maneuver Space Ignored**

- **Substantial deviation: did not visit, discuss, consider current access to DLM Joint Base**
- **Substantial deviation: did not consider that Aberdeen has no Joint C4ISR capability or plans**
- **Substantial deviation: did not address existing airspace and other maneuver opportunities at DLM Joint Base**

# Dix, Lakehurst, McGuire Joint Base “DLM Joint Base”



# Lost their way

- Army goal = RDATE center in Land C4ISR
- T-JSCG goal = RDA center in Land C4ISR

## BRAC result:

Strong R at Adelphi left behind

No T&E at Aberdeen; its at Huachuca!

Big D&A at Monmouth/Belvoir (in military value, numbers of people, funding)  
moves to D&A vacuum at Aberdeen for \$1.5B and very high risk

**(.5R + moved D&A + 0 T&E) – all Joint = cost + risk**

# Homeland Security

- Not mentioned
  - “911” Commissioner Lehman testimony not considered
  - NRC report not considered
  - Ongoing technology partnerships with:
    - NYC            - NJ            - National Guard
    - FEMA and USACOE            - PANYNJ
- not considered**

Cite: USD(ATL) policy memo 10 Dec 04

# # 7 Aberdeen Issues

- Joint access and plans
- Ready access to instrumented ranges w/ troops + equipment
- Condition of facilities and on-base connectivity
- Aviation housing + restrictions in the sector
- Chronic pollution ... impact?
- S&E Workforce comparison ... and synergy with Industry/Academe
  - NJ = highest concentration of S&Es ... local area



**Relevant Technical Firms**

# Other

- **Non-DOD Tenants**
  - **FBI**
  - **FEMA and USACOE ... COOPs**
  - **New VA Health Center**
    - **10,000+ patient visits**
  
- **Cost to Taxpayer**

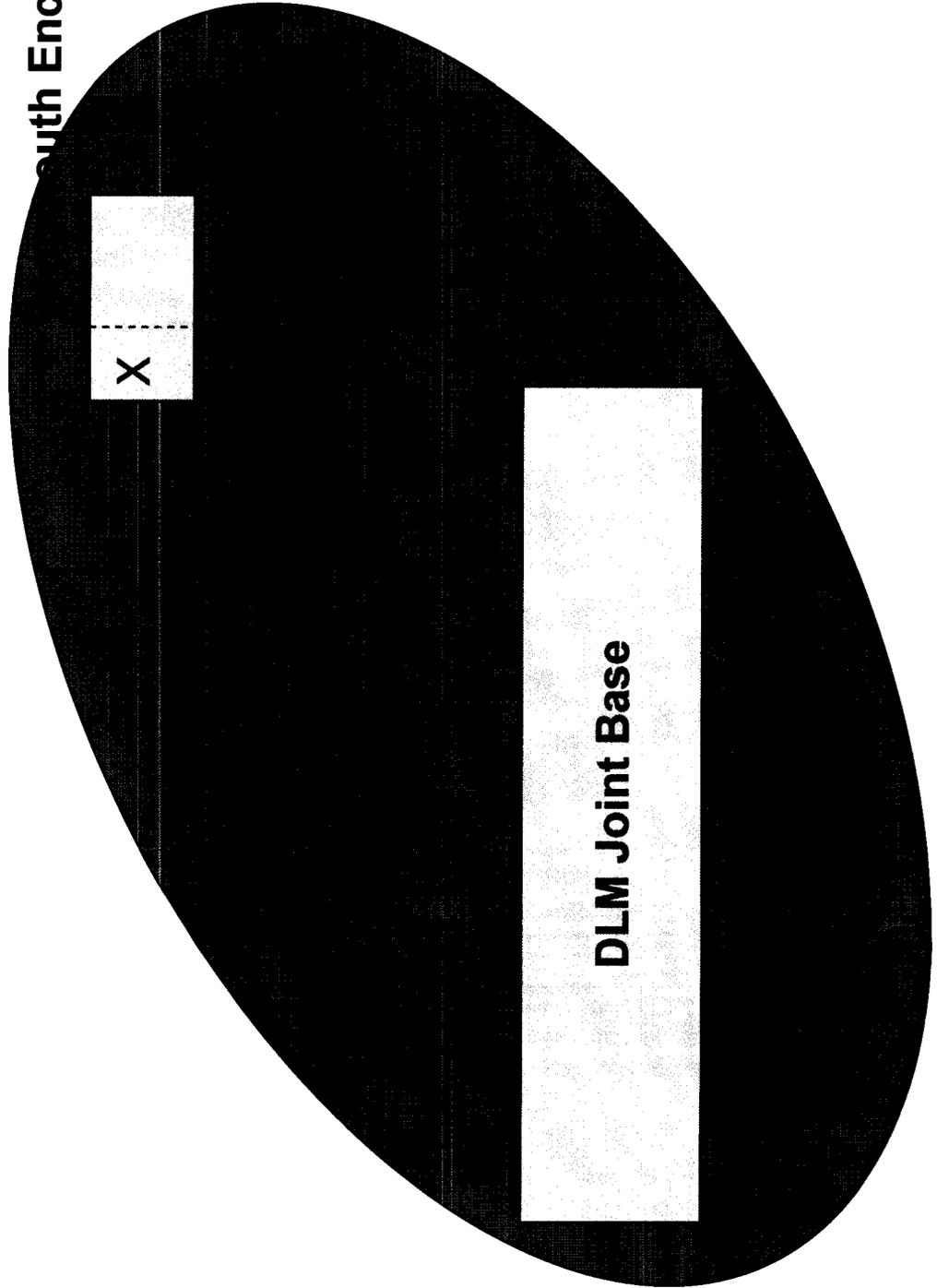
# Recommendation

- **Find:** SECDEF significantly deviated from the BRAC selection criteria
- **Approve:**
  - Retain all C4ISR activities in place
  - Enclave of Joint Base; “realignment’ with enclave”
  - Garrison under Joint Base Command
  - Reduce existing base costs and footprint; deliberately, over time
  - No move for Fort Belvoir: rationale = workforce stability
  - No move of West Point Prep = new cost info !

# Joint Base – DLM<sup>2</sup>

Dix-Lakehurst-McGuire-Monmouth

South Enclave



# Cost Decision Matrix -- Recommendation

	DOD COBRA Result	Corrected COBRA	Real Cost	Recommend  Estimates only
One Time Cost	\$822M	\$1.5B	\$1.99B	\$10-30M
Recurring Savings	\$143M	\$74M	\$74M	\$10M
Payback Period (Years)	6	21	> 21	1- 3