

COBRA

**Cost Of Base Realignment Actions
BRAC 2005**



COBRA Description



- Decision Tool, NOT Budget Tool
- A Comparative Tool
- Calculates cost of a scenario
- Not an optimizer
- Deterministic
- Designed to count only BRAC cost and savings



COBRA Methodology

Required Inputs

- ☐ Scenario-activity moving, (when, where)
- ☐ Installation Data
 - Population
 - Facilities
 - Costs
 - Cost Factors
- ☐ Movement Data
 - Distances
 - Cost Factors
- ☐ Standard Factors
 - Personnel
 - Facilities
 - Transportation
 - Construction

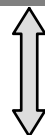
COBRA

Calculates:

Movement Costs
Construction Costs
BOS Cost/Savings
SRM Cost/Savings
Medical Costs/Savings
Personnel Cost/Savings
Housing Cost/Savings

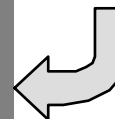
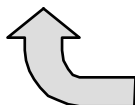
Outputs/Reports

- ☐ Summary
- ☐ Net Present Value
- ☐ Cost/Savings
- ☐ Personnel
- ☐ SRM/BOS/Housing
- ☐ Construction
- ☐ Input Data
- ☐ Scenario Error Report



Alternatives

**ANALYSIS
TEAM**



Requirements

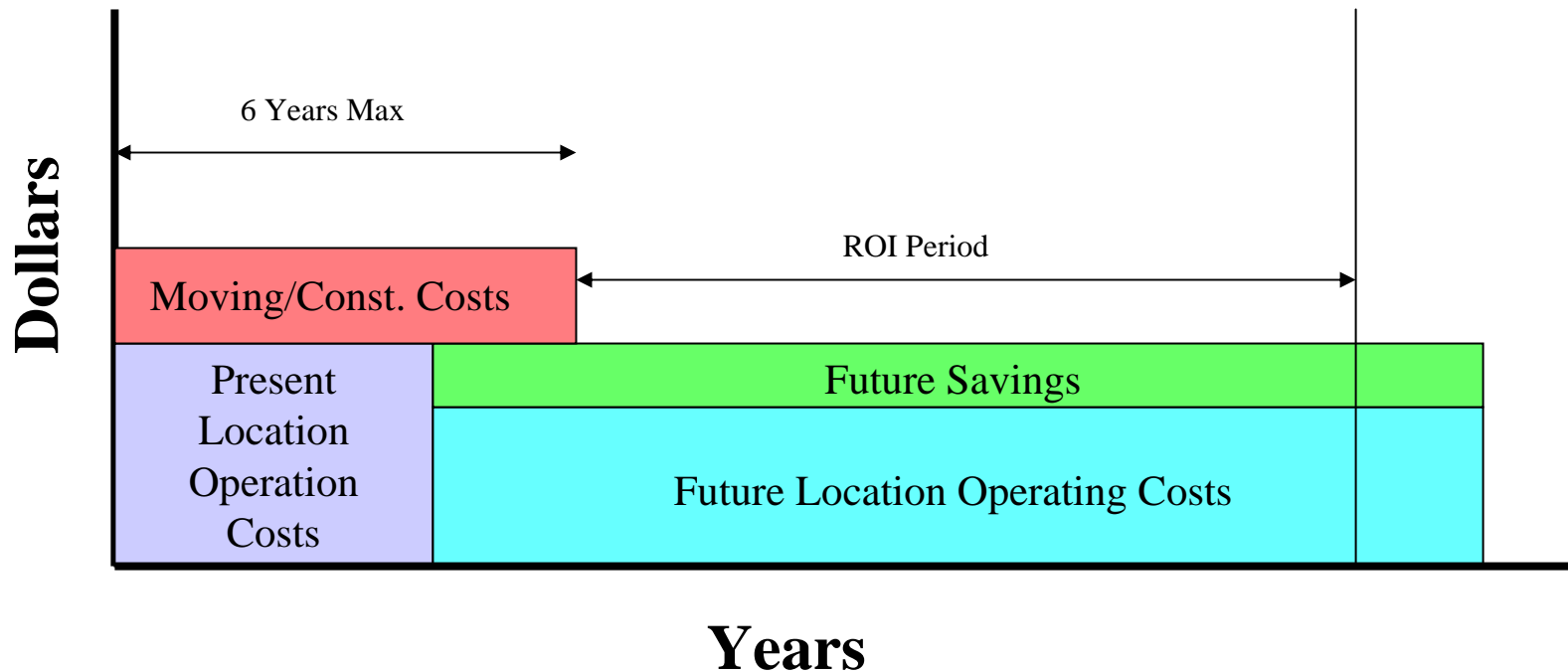
Transforming Through Base Realignment and Closure



COBRA CALCULATIONS



Payback
Year





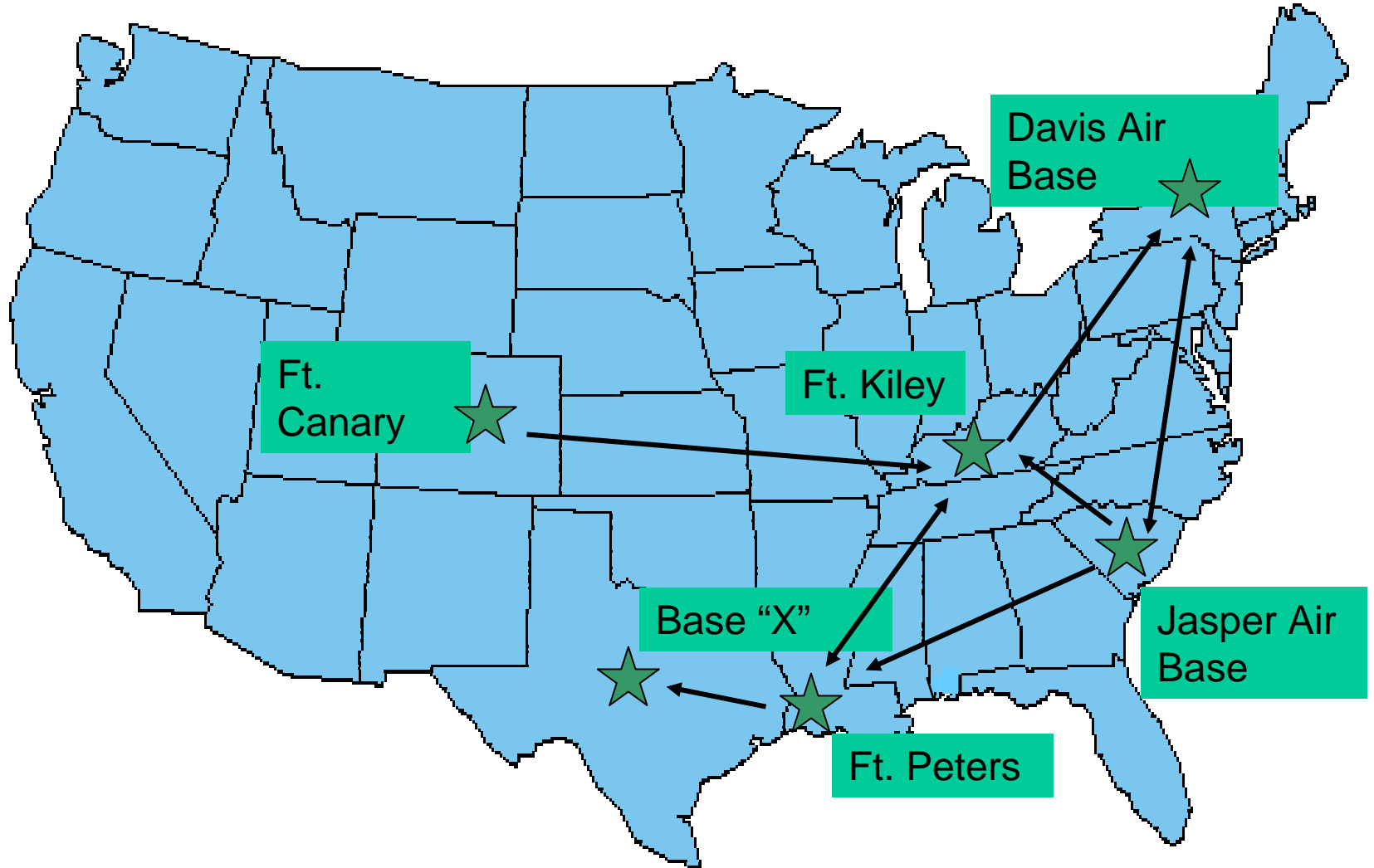
COBRA Calculations



- Current (starting) costs
 - Personnel costs (e.g. salaries, housing allowances)
 - Overhead (e.g. base operations support (BOS), sustainment, restoration, modernization (SRM), housing operations)
- BRAC Implementation costs
 - Construction (e.g. new facilities, renovation)
 - PCS costs (e.g. travel, homeowners assistance program)
 - Transportation (e.g. freight, vehicles, equipment)
 - Personnel (e.g. severance, unemployment, hiring)
- Final (ending) state costs
 - Personnel costs (e.g. salaries, housing allowances)
 - Overhead (e.g. BOS, SRM, housing operations)



COBRA Can Model Movement Combinations





COBRA CALCULATIONS



- **COBRA – A complex calculator**
 - **about 160 distinct calculations (algorithms)**
 - **about 138 individual data elements**
- **Number of total calculations and data elements multiplies with number of installations and years of scenario**



COBRA SCREENS

Notional Scenario



Screen One – General Scenario



Screen One - General Scenario

Option Package Name: Demo for User Manual Department: US Army

Standard Factors Filename: C:\temp\Demo.SFF Year One = FY: 2006

Basecode	Base Name	State	Close/Deact Yr.	Basecode	Base Name	State	Close/Deact Yr.
04711	CAMP ROCKY	AR	0 Realn	22344	CAMP SWAMPY	LA	0 Realn
37488	FORT EMO	NC	0 Realn	02468	FORT DISTANT	AK	5 Deact
24426	GW III	MD	0 Realn	25025	LAB COMPLEX II	MA	5 Close
15253	CAMP KEEBA	HI	0 Realn	21120	FORT JELICO	KY	0 Realn
			0 Realn				0 Realn
			0 Realn				0 Realn
			0 Realn				0 Realn
			0 Realn				0 Realn
			0 Realn				0 Realn
			0 Realn				0 Realn
			0 Realn				0 Realn

Time/Date of Data: 1/6/2004 9:29:08 AM Set Auto Time-Phase: ☒

? Databases Footnotes Next OK



Screen Two – Distance Table



Screen Two - Distance Table

CAMP ROCKY									
1218	CAMP SWAMPY								
2084	1006	FORT EMO							
3246	3754	3884	FORT DISTANT						
2258	1246	354	3869	GW III					
2596	1639	754	0	406	LAB COMPLEX II				
3117	4254	5080	5324	5249	0	CAMP KEEBA			
1711	747	604	3494	658	974	4689	FORT JELICO		

Distance Between Bases (in Miles)

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Screen Three – Movement Table



Screen Three - Movement Table

	2006	2007	2008	2009	2010	2011
CAMP KEEBA, HI (15253) to GW III, MD (24426)						
Officer Positions:	0	0	0	57	0	0
Enlisted Positions:	0	0	0	32	0	0
Civilian Positions:	0	0	0	128	0	0
Student Positions:	0	0	0	27	0	0
Non-Vehic Mission Equip (Tons):	0	0	0	36	0	0
Support Equipment (Tons):	0	0	0	72	0	0
Military Light Vehicles:	0	0	0	6	0	0
Military Heavy/Special Vehicles:	0	0	0	12	0	0
GW III, MD (24426) to CAMP KEEBA, HI (15253)						
Officer Positions:	0	0	0	0	0	0
Enlisted Positions:	0	0	0	0	0	0
Civilian Positions:	0	0	0	0	0	0
Student Positions:	0	0	0	0	0	0
Non-Vehic Mission Equip (Tons):	0	0	0	0	0	0
Support Equipment (Tons):	0	0	0	0	0	0
Military Light Vehicles:	0	0	0	0	0	0
Military Heavy/Special Vehicles:	0	0	0	0	0	0

List Moves in Year ONLY! ? Footnotes < 2 Previous Next > 4 OK



Screen Four – Base Information (Static)



Screen Four - Base Information (Static)

FORT EMO, NC (37488)

(Enter Authorized Positions for Year 2005)

Total Officers:	6209	Base Service (for BOS/Sustainment):	Army
Total Enlisted Personnel:	36432	Total Sustainment Budget (\$K./Year):	37725.4
Total Students:	2620	Sustainment Payroll Budget (\$K./Year):	0
Total Civilians:	5375	BOS Non-Payroll Budget (\$K./Year):	100316.63
		BOS Payroll Budget (\$K./Year):	59953.71
% Accompanied Mil Not Receive BAH:	20.800	Family Housing Budget (\$K./Year):	30732.86
	%	Installation PRV (\$K.):	0
Officer Housing Units Vacant:	29	Service/Agency Recap Rate (Years):	0
Enlisted Housing Units Vacant:	168	Latitude:	0.000000
Starting Facilities (non-FH, KSF):	20772	Longitude:	0.000000

Officer BAH (\$/Month):	716	TRICARE	In-Patient Admissions	Out-Patient Visits	Prescriptions
Enlisted BAH (\$/Month):	638	Cost Factor (\$):	0	0	0
Civilian Locality Factor:	1.000	Active Duty MTF:	0	0	0
		Active Duty Purchases:	0	0	
Area Cost Factor:	0.88	Retiree Claims:	0	0	0
Per Diem Rate (\$/Day):	94.00	65 and Older Retiree Claims:	0	0	0
Freight Cost (\$/Ton/Mile):	0.17				
Vehicle Shipping Cost (\$/Lift/Mile):	0.00	Homeowner Assistance Program:	<input type="checkbox"/>		



Screen Five Base Information (Dynamic)



Screen Five - Base Information (Dynamic)

FORT JELICO, KY (21120)

	2006	2007	2008	2009	2010	2011	
One-Time Unique Costs (\$K):	0	0	0	0	0	0	
One-Time Unique Savings (\$K):	0	0	0	0	0	0	
One-Time Moving Costs (\$K):	0	0	0	0	0	0	
One-Time Moving Savings (\$K):	0	0	0	0	0	0	
Env Non-MilCon Required (\$K):	0	0	0	0	0	0	
Activity Mission Costs (\$K):	0	0	0	0	0	0	*
Activity Mission Savings (\$K):	0	0	0	0	0	0	*
Mission Contract Start Costs(\$K):	0	0	0	0	0	0	
Mission Contract Term Costs(\$K):	0	0	0	0	0	0	
Support Contract Term Costs(\$K):	0	0	0	0	0	0	
Misc. Recurring Costs (\$K):	0	0	0	0	0	0	*
Misc. Recurring Savings (\$K):	0	0	0	0	0	0	*
One-Time IT Costs (\$K):	0	0	0	0	0	0	
Construction Schedule (%):	0.000	0.000	0.000	0.000	0.000	0.000	%
Shutdown Schedule (%):	0.000	0.000	0.000	0.000	0.000	0.000	%
Mission Milcon Avoidances (\$K):	0	0	0	0	0	0	
Procurement Avoidances (\$K):	0	0	0	0	0	0	*
MTF Action:	Facilities Shutdown (KSF):		0	% of Family Housing Shutdown:		0.000	%
<input checked="" type="radio"/> As-Is (No Change) <input type="radio"/> Close In-Patient <input type="radio"/> Close Hospital	Costs and Savings are in thousands of 2005 dollars. * Year 2011 Value used in Beyond years						
<div> <input type="button" value="?"/> <input type="button" value="Footnotes"/> <input type="button" value=" < 4"/> <input type="button" value="Previous"/> <input type="button" value="Next"/> <input type="button" value=" > 6"/> <input type="button" value="OK"/> </div>							

5/13/2005

Transforming Through Base Realignment and Closure

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Screen 6 Base Information (Personnel)



Screen Six - Base Information (Personnel)

CAMP ROCKY, AR (04711)

	2006	2007	2008	2009	2010	2011
Scenario Changes by Year (+Additions / -Eliminations)						
Officer Positions:	0	0	0	0	0	0
Enlisted Positions:	0	0	0	0	0	0
Civilian Positions:	0	0	0	0	0	0
Programmed Installation Population Changes (non-BRAC) by Year (+Increases / -Decreases)						
Officer Positions:	-54	58	4	-9	0	0
Enlisted Positions:	-26	-467	2	-69	0	0
Civilian Positions:	10	-19	-68	-48	-37	0
Student Positions:	31	-363	52	-78	0	0
Programmed Family Housing Privatization (non-BRAC) by Year						
Percent Privatized:	0 %	0 %	0 %	0 %	0 %	0 %

List Changes in Year ONLY! ? Footnotes < 5 Previous Next > 7 OK



The COBRA Model

Economic Analysis Model

- Estimates the closure and realignment costs of given scenarios for a 20 year planning period
- Determines the “payback” year and net present value for this planning period
- Complies with BRAC 2005 law
- Provide consistent and auditable results
- Provides a comparative, macro-level tool, not an optimizing tool
- Models all actions in up to 6 years and assumes steady state thru 20 years
- A tool for all DoD



COBRA Data



- Base specific data
- Standard Factors
- Scenario specific data