

WORLD CLASS TRAINING FOR THE WORLD'S BEST ARMY



**NATIONAL TRAINING CENTER
FORT IRWIN TABS BRIEF, 6 APR 04**

AGENDA

➤ MISSION STATEMENT

➤ INSTALLATION

➤ LAND EXPANSION

➤ PREPO FLEET

➤ NTC FACILITIES

➤ TRAINING: ROTATIONAL CONCEPT

➤ CORNERSTONES

✓ REALISTIC BATTLEFIELD

✓ OPFOR

✓ OPS GROUP

✓ INFRASTRUCTURE

➤ INSTALLATION MASTER PLAN

➤ EXCESS LAND

COMBAT TRAINING CENTERS



**BATTLE COMMAND TRAINING PROGRAM
(BCTP)**

FORT LEAVENWORTH, KS



**COMBAT MANEUVER TRAINING CENTER
(CMTC)**

HOHENFELS, GERMANY



**NATIONAL TRAINING CENTER
(NTC)**

FORT IRWIN, CA



**JOINT READINESS TRAINING CENTER
(JRTC)**

FORT POLK, LA



NTC MISSION

- Provide tough, realistic joint and combined arms training
- Focus at the Battalion Task Force and Brigade levels
- Assist commanders in developing trained, competent leaders and soldiers
- Identify unit training deficiencies, provide feedback to improve the force and prepare for success on the future **JOINT** battlefield
- Provide venue for transformation
- Take care of Soldiers, civilians, and family members

Commanding General's Objectives

- **Train hard but safe**
- **Get better every day, much, much better by the end of the rotation**
- **Maintain our equipment, our soldiers, and our discipline**
- **Maintain a winning Warrior Ethos**

INSTALLATION



MILITARY INSTALLATIONS

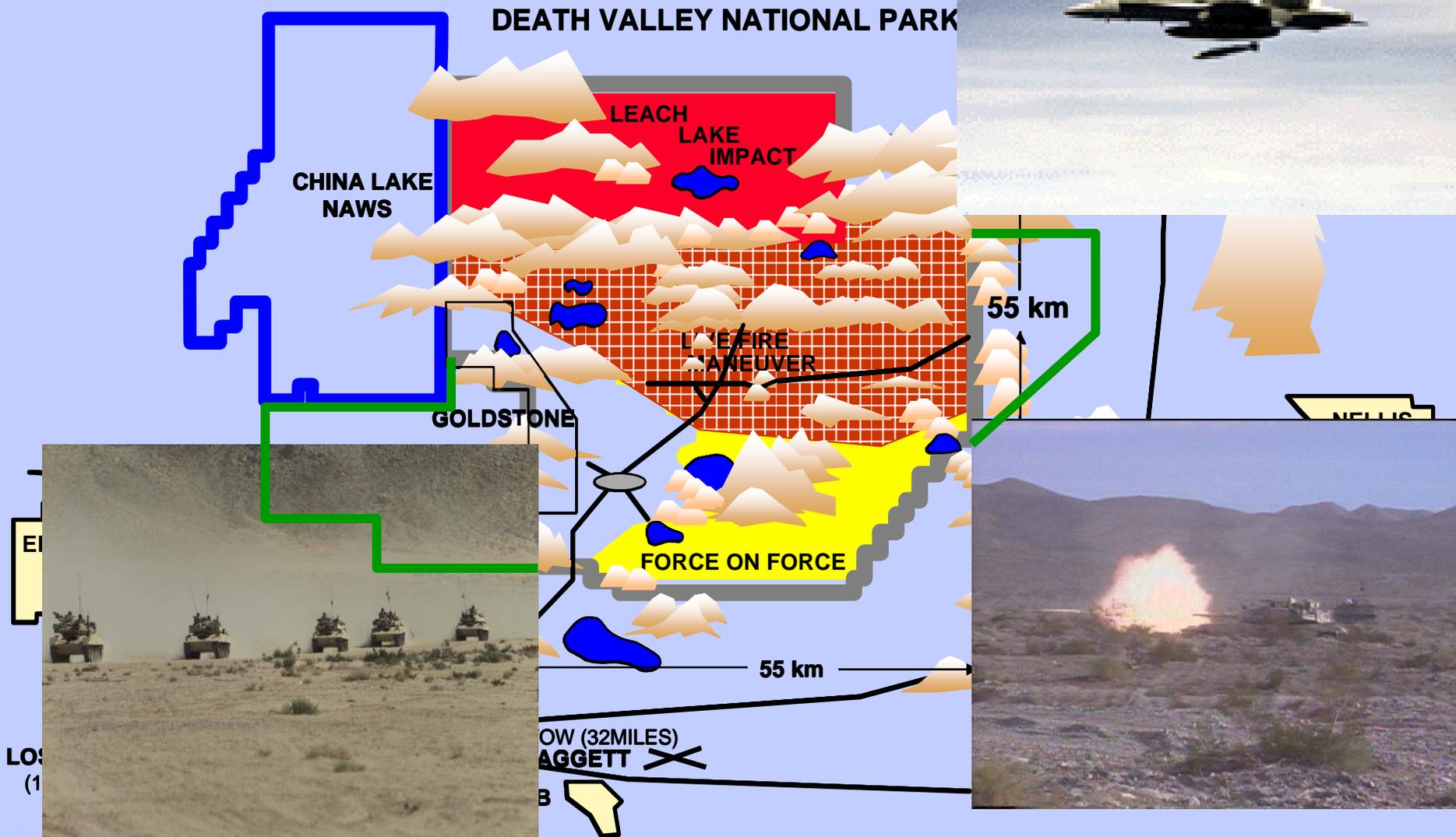


WESTERN US TRAINING RANGES



SCLA=Southern California Logistics Airport (old George AFB)

NTC TRAINING AREA



EL
LOS (1



Lead-Train-Win

DEMOGRAPHICS

As of Jan 2004

FORT IRWIN POPULATION:

ACTIVE DUTY	4960
FAMILY MEMBERS	5103
CIVILIANS (Contractors, APF, NAF, AAFES, Teachers)	3038
ROTATIONAL UNIT	4000 - 6000
DAILY POST POPULATION	17000 - 19000

FORT IRWIN HOUSING:

HOUSING UNITS	2028
BACHELOR OFF/SR NCO QTRS	121
BILLETS SPACES	1506
MCLB HOUSING UNITS	81

SCHOOL POPULATION:

ON-POST (Pre-School & K-8)	1679
SILVER VALLEY HIGH SCHOOLS	239/474

RESIDENTIAL COMMUNITIES GOAL

- **Build communities with full amenities so that soldiers and families will not see Fort Irwin as a “hardship” tour**
 - ✓ **Eliminate housing deficit, which currently means a long waiting period for incoming families**
 - ✓ **Soldiers will no longer elect unaccompanied tours due to the excessive waiting list and subsequent commute**
 - ✓ **Greatly improve quality of life for families while sponsor is away in the field**
 - ✓ **Tremendous boon to safety - gets soldiers off the road**
- **Make “Irwin Town” a place soldiers and families desire to live and serve**

Each Neighborhood is organized around a central park

Renovated existing neighborhoods on the outer ring of the Cantonment area

New Community Center with common spaces, recreation facilities at the heart of the family housing

Green area becomes linear park connector that unifies the neighborhoods



Green boulevards connect major public spaces and neighborhoods centers, providing shaded circulation throughout the family housing area

Irwintown Main street

New school & housing at Crackerjack Flats

ECONOMIC IMPACT OF THE NTC

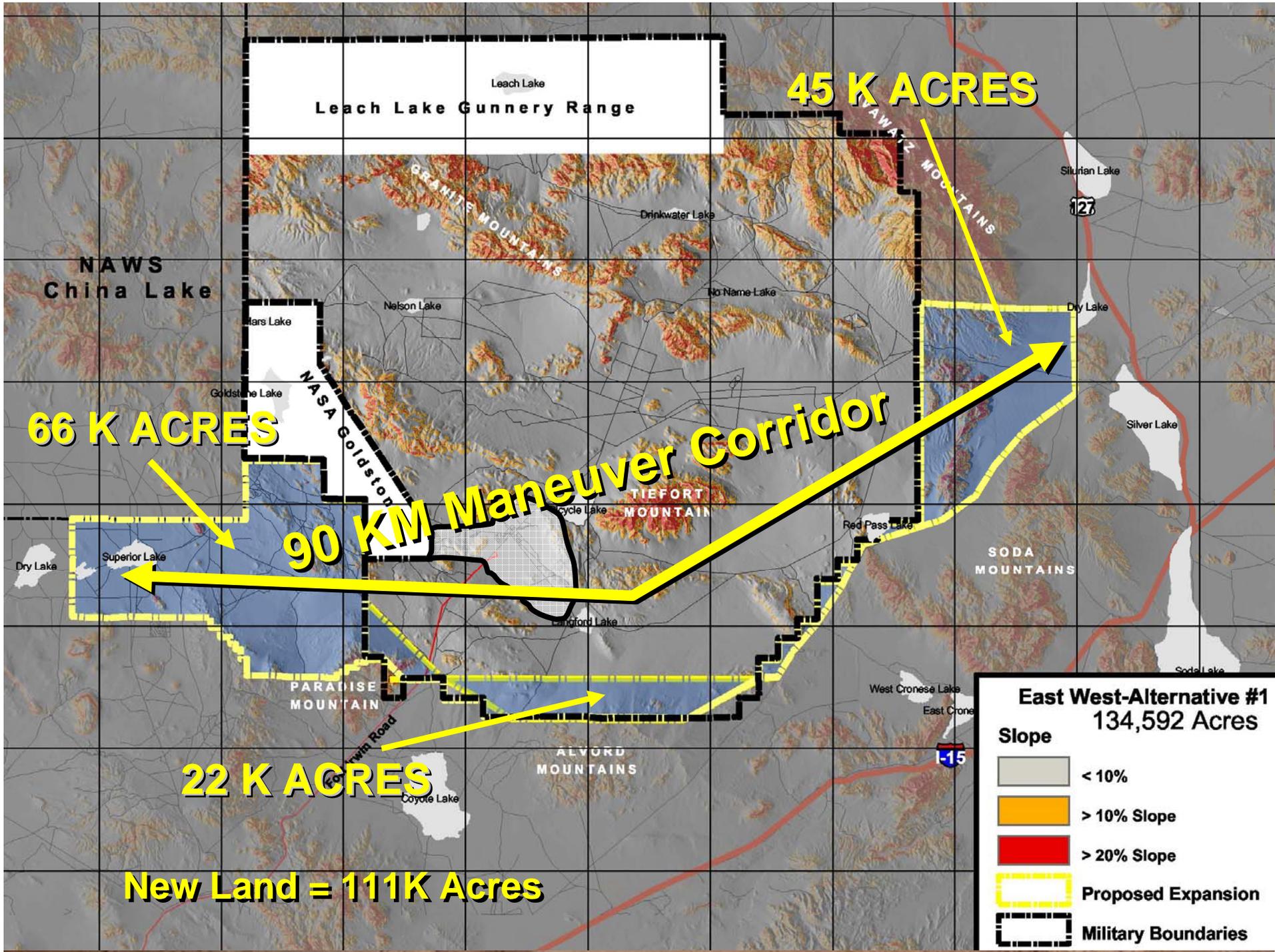
- **\$160 MILLION IN CONTRACTS ANNUALLY**
 - ✓ **APPROX 12,000 CONTRACTS**
 - ✓ **FROM \$2,500 TO \$40 MILLION**
- **\$78 MILLION SPENT ANNUALLY ON MILITARY CONSTRUCTION PROJECTS**
- **FT IRWIN KIDS MAKE UP 66% OF THE SVUSD**
- **5,123 VEHICLES ON FT IRWIN ROAD PER DAY**

ECONOMIC IMPACT OF THE NTC

- **\$267 MILLION ANNUAL OPERATING BUDGET**
- **\$14.5 MILLION IN MILITARY PAY - MONTHLY**
- **\$2.5 MILLION IN CIVILIAN PAY - MONTHLY**
- **#3 EMPLOYER IN SAN BERNARDINO COUNTY**
- **#1 EMPLOYER IN THE BARSTOW AREA.**

LAND EXPANSION





PREPO FLEET



NTC PREPOSITIONED FLEET

- **DESIGNED TO REPLICATE AN ARMY PRE-POSITIONED SET**
- **11,762 PIECES OF EQUIPMENT, RANGING FROM ARMORED PERSONNEL CARRIERS TO WEAPONS & COMMUNICATIONS EQUIPMENT**
- **5 DAYS TO DRAW THE EQUIPMENT. GOAL IS 3 DAYS**
- **UNITS BRING M1'S, M2'S & COMMAND & CONTROL PLATFORMS FROM HOME STATION**

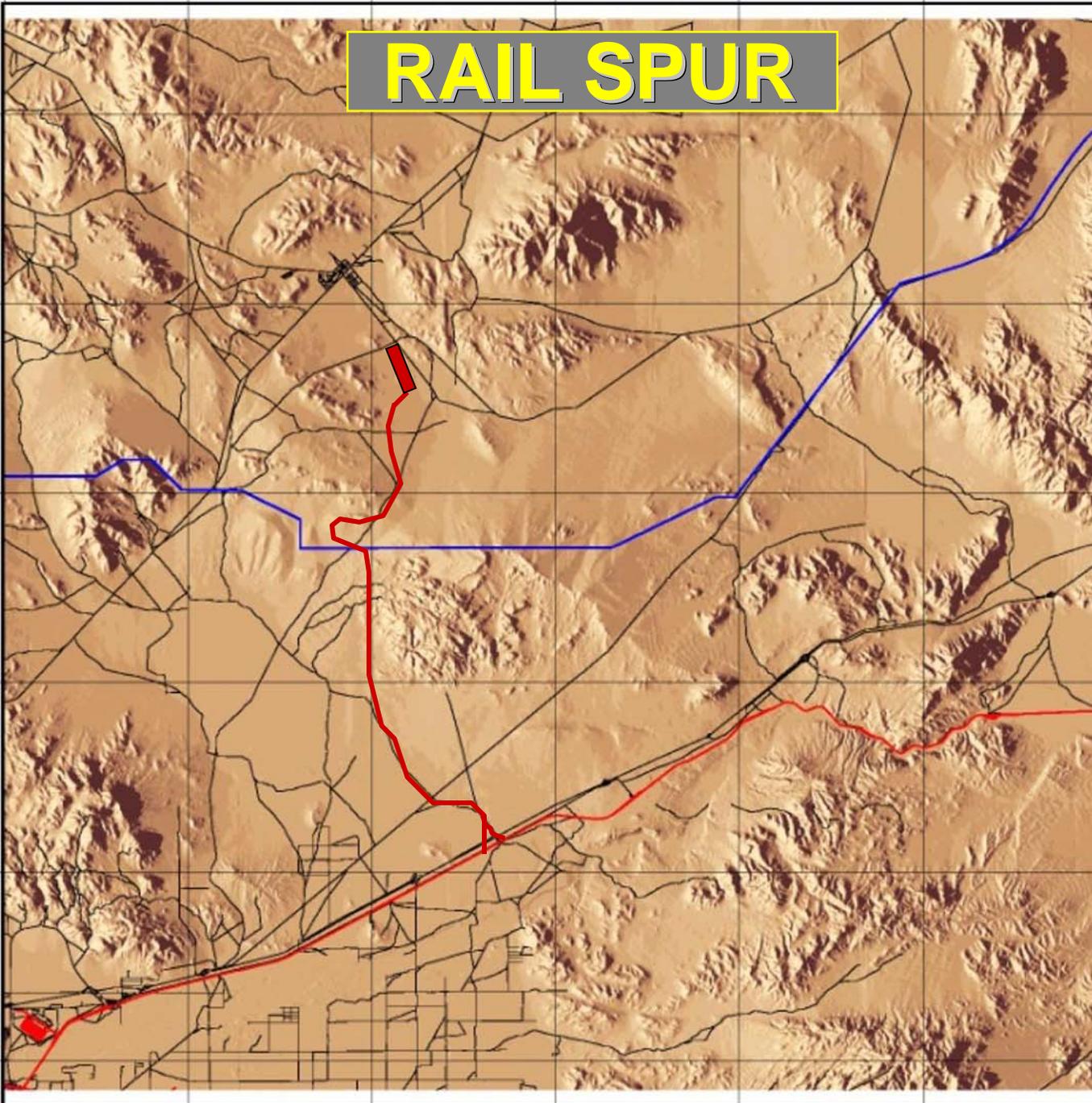
NTC FACILITIES



ROTATIONAL UNIT FIELD MAINTENANCE AREA (RUFMA)

- **RUFMA FACILITATES & ENHANCES EQUIPMENT TURN IN**
- **27 BAY WASH RACK, WITH STEAM CLEANERS**
- **PERMANENT OVERHEAD LIFT & LIGHTING REDUCES CONTRACTED REQUIREMENT**
- **UPON COMPLETION OF TD14, THE UNIT REGENERATES ALL DRAWN EQUIPMENT TO FMC STATUS**
- **UNITS AVERAGE APPROXIMATELY 10 DAYS TO TURN IN ALL DRAWN EQUIPMENT**
- **SIGNIFICANT INCREASE IN SAFETY**

RAIL SPUR



- NTC Boundary
- Rail Lines
- Roads
- Improved tank trail

PROPOSED NTC RAILYARD



TRAINING: “ROTATIONAL CONCEPT”



NO "STANDARD" ROTATION

FY03

- 2 X HEAVY
- 1X HEAVY/ABN
- 1 X HEAVY/LT
- 1X LT
- 1 X SBCT
- 1 X RC ENHANCED BRIGADE
- 1 X FA HQ, MLRS BN, IN BN (L), AR BN (-), NYARNG TK CO

FY04

- 2 X HEAVY
- 2 X UNIT OF ACTION
- 1 x ARTILLERY
- 2 X RC ENHANCED BRIGADES
- 1 X SBCT

INCREASED RC PARTICIPATION

- **1 ENHANCED BDE SCHEDULED PER YEAR**
- **LEADER TRAINING PROGRAM**
 - ✓ **BDE & BN COMMANDERS AND STAFFS**
- **OPFOR AUGMENTATION**
 - ✓ **INFANTRY AND ENGINEER COMPANIES**
 - ✓ **ARTILLERY BATTERY REPLICATION**
- **BLUFOR AUGMENTATION**
 - ✓ **CS UNITS**
 - ✓ **CSS UNITS**
 - ✓ **AC/RC TEAMING**
- **THEATER LEVEL LOGISTICS**
 - ✓ **DS/GS MAINTENANCE COMPANIES**
 - ✓ **EAD-CS/CSS**
 - ✓ **ENGINEER "NATION BUILDING"**

✓ 1996 - 48 eSB
✓ 1998 - 116 CAV
✓ 1999 - 155 eSB
✓ 2000 - 218 eSB
✓ 2001 - 256 eSB
✓ 2002 - 278 ACR
✓ 2003 - 30 eSB
✓ 2004 - 81 eSB
2004 - 256 eSB
2004 - 116 CAV
2005 - 48 eSB

SOLDIERS TRAINED
FY 02- 25,874
FY 03- 16,801



NTC TRAINING CORNERSTONES

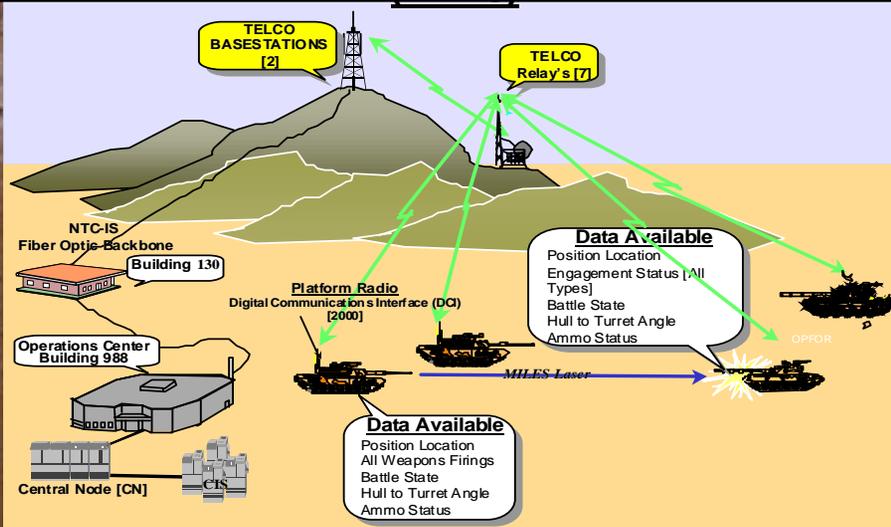
RELEVANT AND REALISTIC BATTLEFIELD



HIGHLY CAPABLE, FULL SPECTRUM OPFOR



TRAINING INFRASTRUCTURE



SKILLED OBSERVER CONTROLLERS



RELEVANT ENVIRONMENT

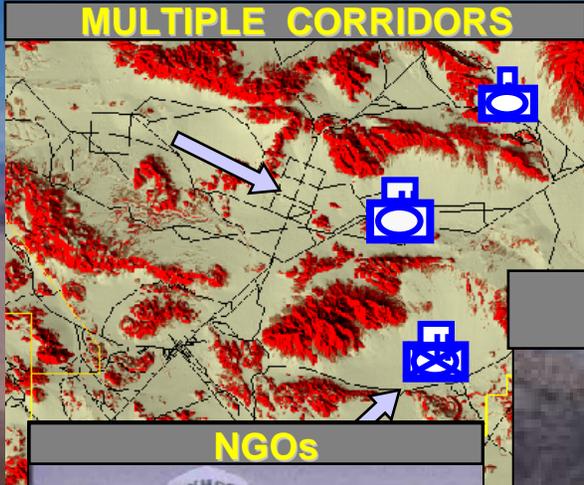
INSURGENTS



WMD



MULTIPLE CORRIDORS



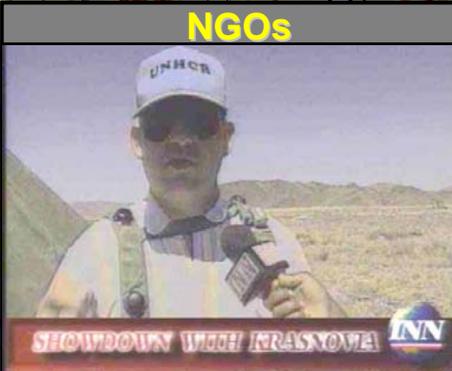
MECHANIZED WARFARE



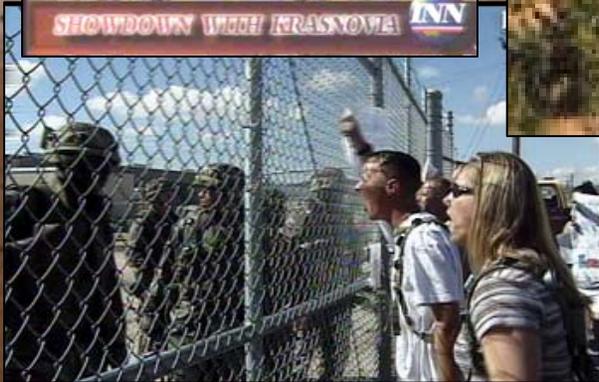
LOCAL OFFICIALS



NGOs



EXTREMISTS



TERRORISTS

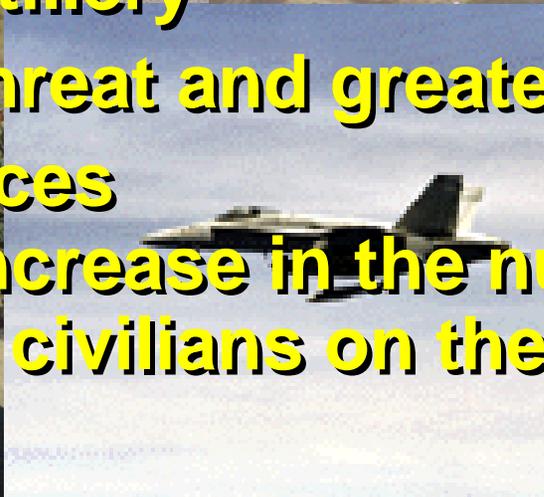
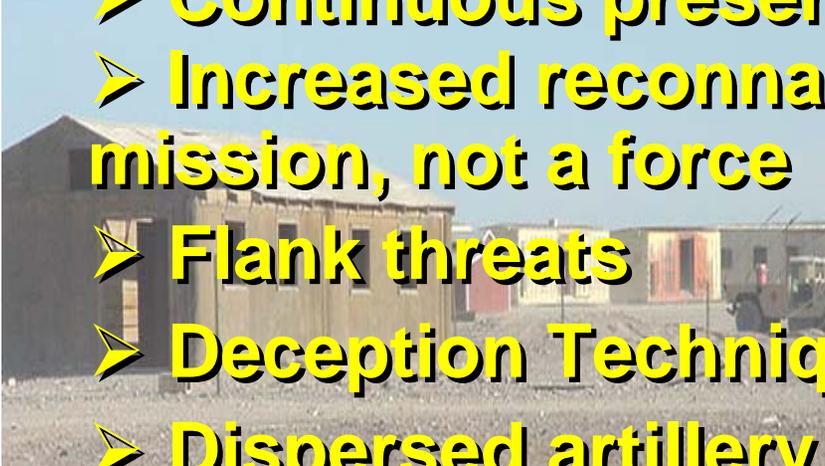
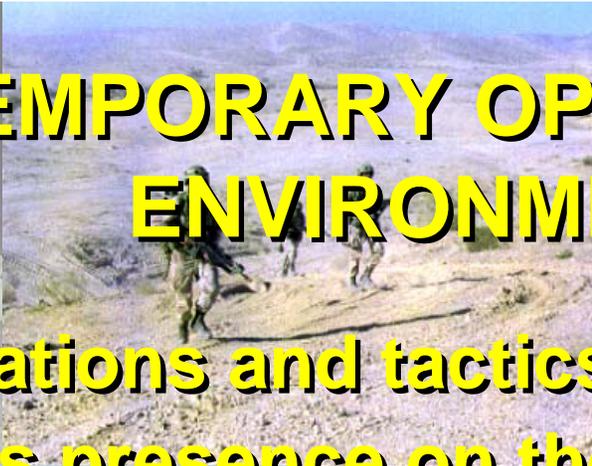


CIVILIAN DEMONSTRATIONS

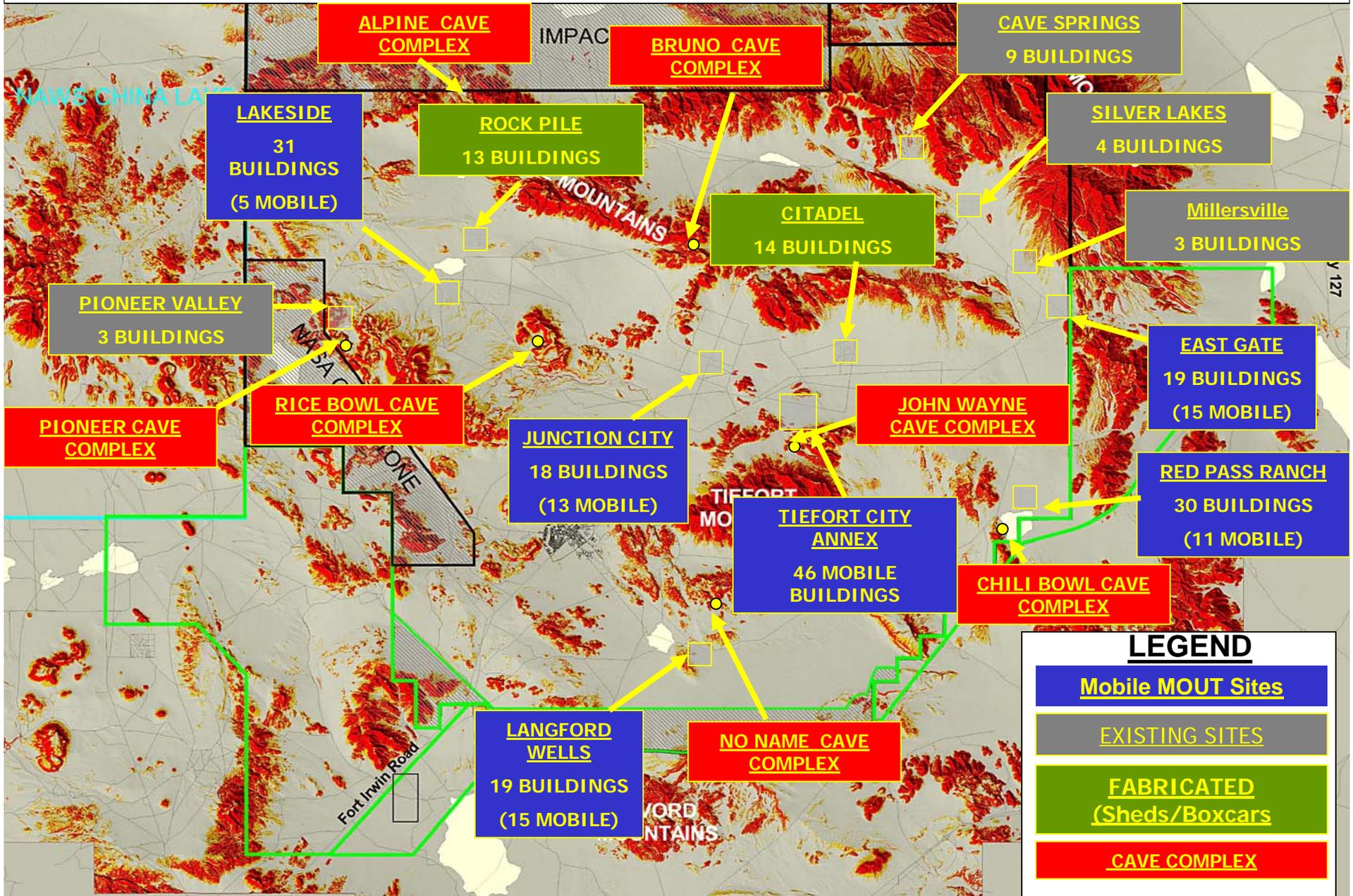


CONTEMPORARY OPERATIONAL ENVIRONMENT

- Fluid formations and tactics
- Continuous presence on the battlefield
- Increased reconnaissance activity - mission, not a force
- Flank threats
- Deception Techniques
- Dispersed artillery
- Greater AT threat and greater use of infantry
- Guerrilla Forces
- Significant increase in the number and involvement of civilians on the battlefield



Urban Operations Locations Today

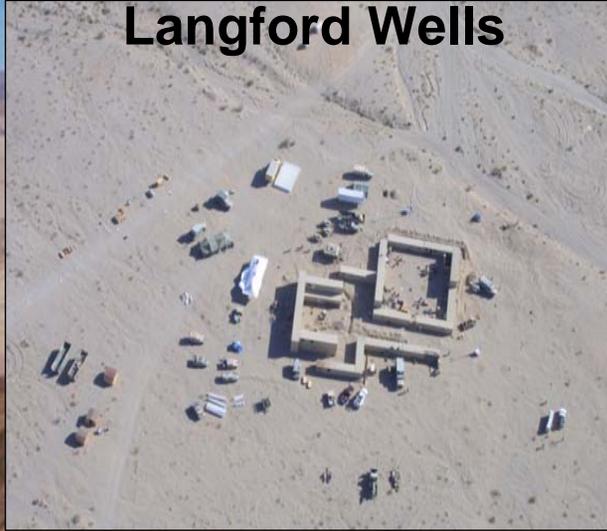


COLUSAN TOWNS

East Gate



Langford Wells



Red Pass Ranch



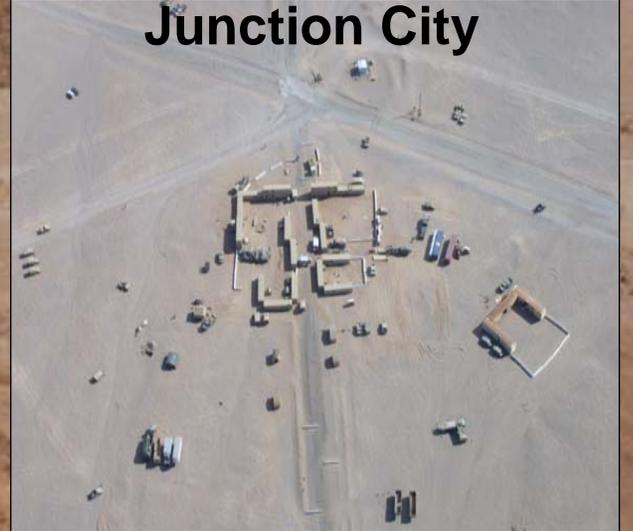
Tiefert City



Citadel



Junction City



TIEFORT CITY (Capitol City)

8 Major Objectives

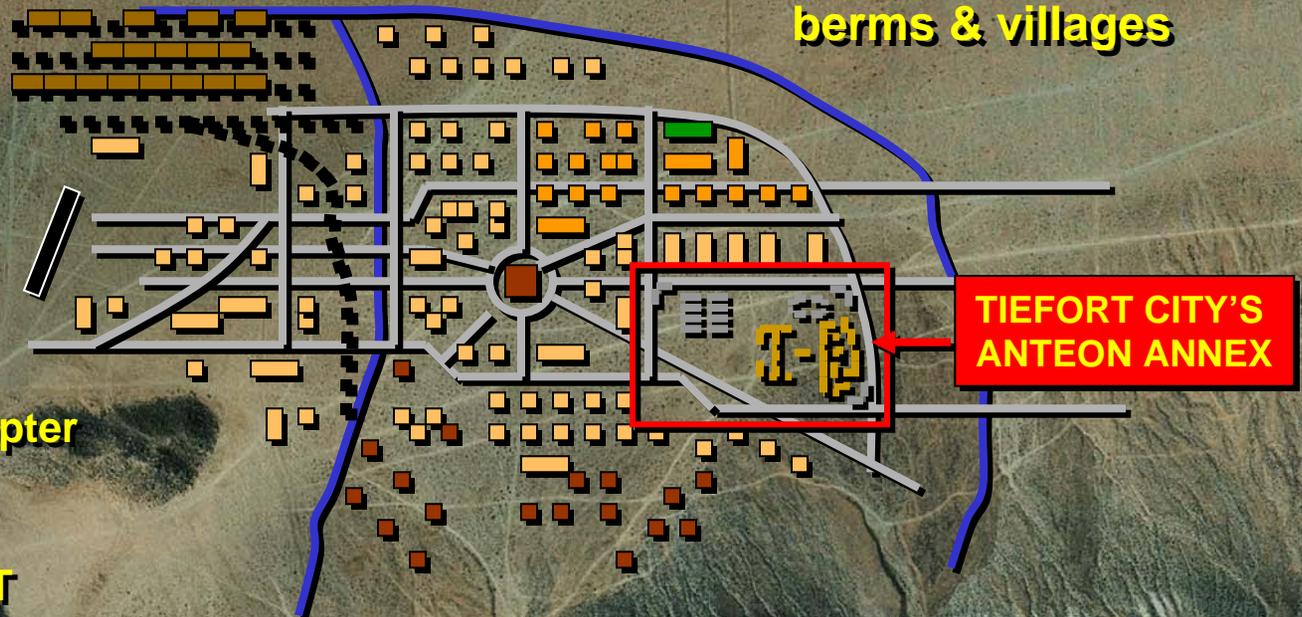
- Consulate
- Hospital
- Palace
- Government Building
- University
- Prison
- Factory
- Train Station / Rail yard

Training Features

- Up to three rooftop helicopter capable
- Small airstrip
- Up to three detailed MOUT buildings
- "Movable roads"
- Protective berm/obstacle

Size

- Initial size, 3 km x 3 km
- Easily expandable with outlying fields, berms & villages



East of Chod Hill

Capital City

- 200+ Buildings
- 8 Major Objectives



OPPOSING FORCES

(OPFOR)



Contemporary Operational Environment

Spectrum of Conflict

Low Intensity

High Intensity

Mid Intensity

➤ Can execute regimental sized armored attacks with 5 battalion sized elements

➤ Can field Civilians on the battlefield at multiple "towns" and execute battalion sized armored attacks

➤ Can field up to 1800 soldiers as Civilians on the battlefield and Insurgents

OPS GROUP



Operations Group

- Composed of nearly 700 senior company grade officers and Non-Commissioned Officers - Observer/Controllers.
- Experts on doctrine and its application
- Observe unit actions and provide structured feedback to the chain of command through the After Action Review
- Do not evaluate, critique, or compare units
- Apply battlefield effects to maintain realism
- All Observer/Controllers have previously served in the positions they are now assigned.

OPERATIONS GROUP

COMMANDER
OPERATIONS GROUP
(OUTLAW) (733)

CSM
(OUTLAW 40)
(1)

DCOG
(RAMROD)
(1)

BRIGADE
(BRONCOS)
(62)

MECHANIZED
INFANTRY
(SCORPIONS)
(63)

INFANTRY
(TARANTULAS)
(67)

ARMOR
(COBRAS)
(61)

ENGINEERS
(SIDEWINDERS)
(38)

AIR FORCE
(RAVENS)
(29)

ARMY AVIATION
(EAGLES)
(62)

FIRE
SUPPORT
(WOLVES)
(61)

LOGISTICS
(GOLDMINERS)
(40)

LESSONS
LEARNED
(LYNX) (1)

LTP & OC
ACADEMY
(WRANGLERS) (9)

PLANS &
OPERATIONS
(LIZARDS)
(151)

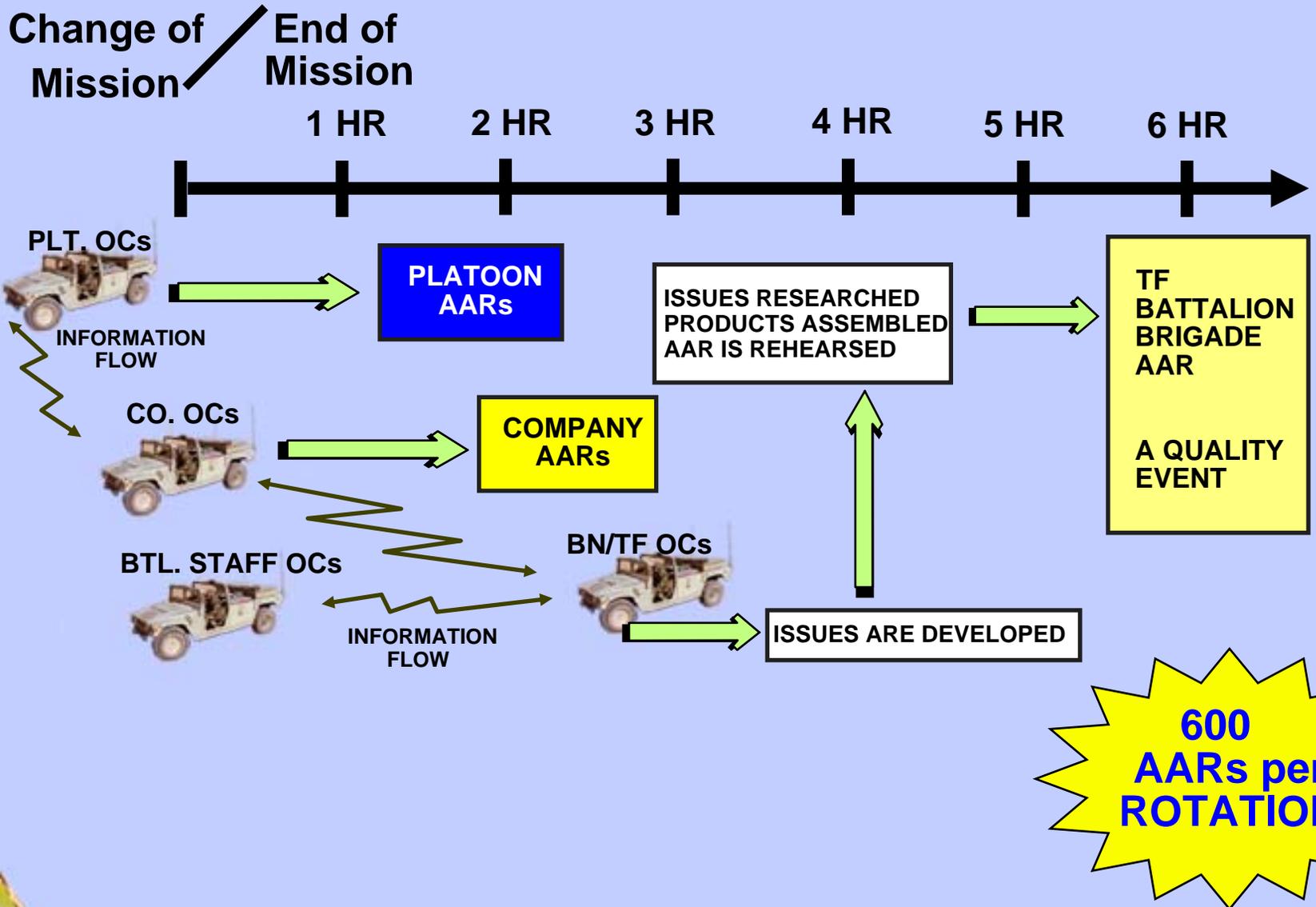
TRAINING
ANALYSIS
(VULTURES)
(60)

SUPPORT
(ROADRUNNERS)
(29)

LIVE
FIRE
(DRAGONS)
(10)

PERSONNEL
& ADMIN
(BADGERS)
(8)

AAR TIME LINE



Lead-Train-Win

NTC INSTRUMENTATION



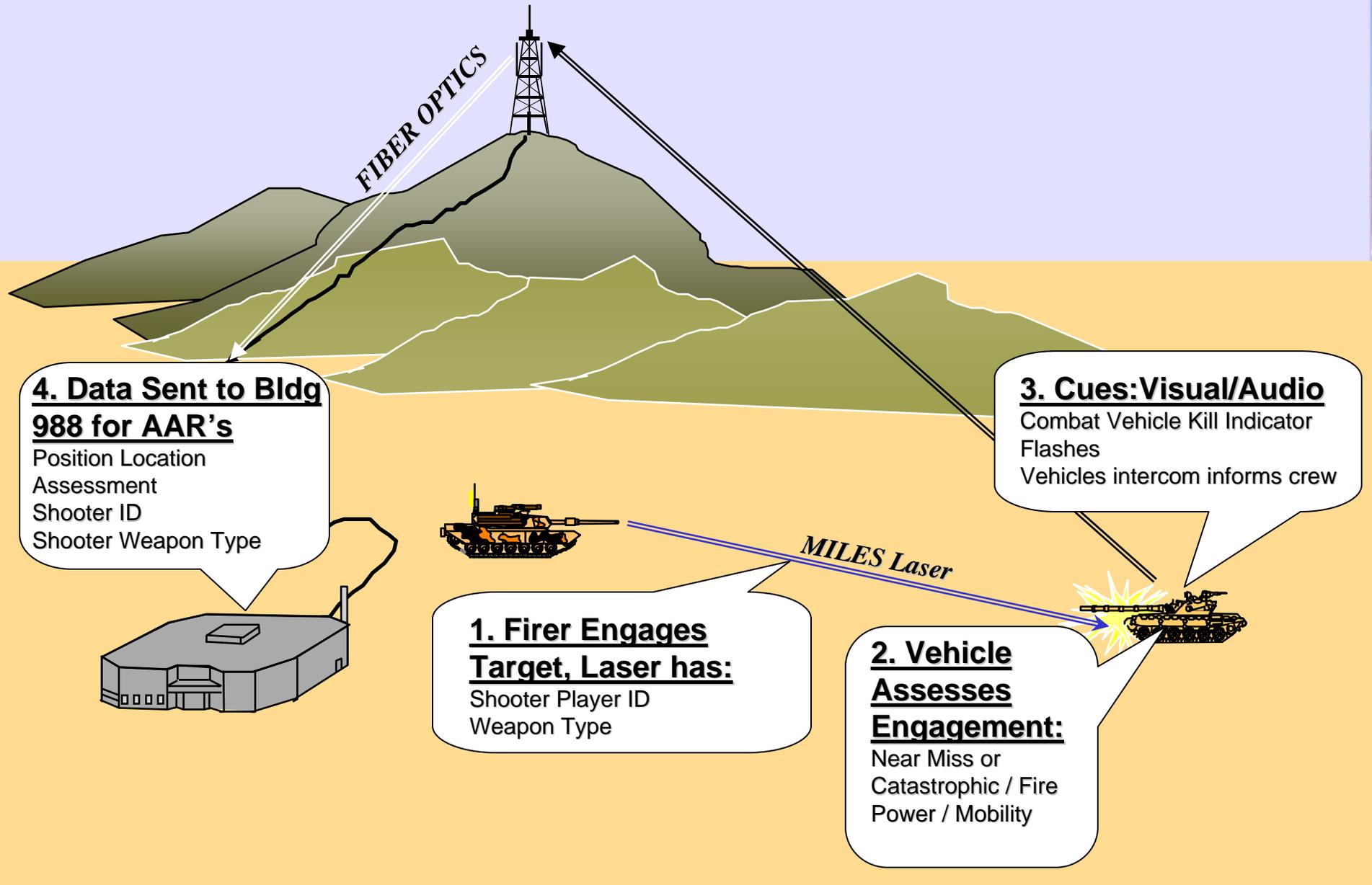
NTC Instrumentation System

- Built around the Multiple Integrated Laser Engagement System (MILES)
- Each Sensor and laser are programmed based on its base vehicle or weapon type, i.e. an M16 laser cannot kill a tank and the tank's sensor know this.
- Uses global positioning system to account for all vehicles and personnel that are instrumented on the battlefield.
- Instrumented vehicles and personnel can be monitored in real time from the operations center on Fort Irwin.
- Movements and battles can be monitored and recorded to provide superb feedback to the training units in the After Action Review.

MULTIPLE INTEGRATED LASER ENGAGEMENT SYSTEM (MILES)



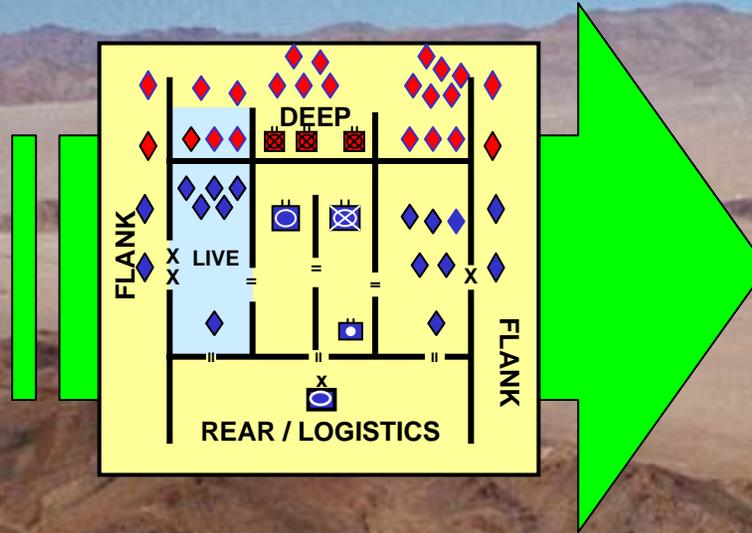
How MILES Works



EXPANDED BATTLESPACE

Technology Enablers:

- Increased lethality... extended ranges
- Precision munitions... systems
- Sensor - shooter links
- Real-time intelligence



Extended Battlespace:

- Common Situational Awareness:
 - Where is the enemy?
 - Where am I?
 - Where are my buddies?
- Increased ability to synchronize effects and train with digital systems

Doctrinal Requirement:
Information allows simultaneous understanding and employment -- decisive earlier
FM 3-0

Train as we fight

EXPANDED BATTLESPACE



UAV Video Model



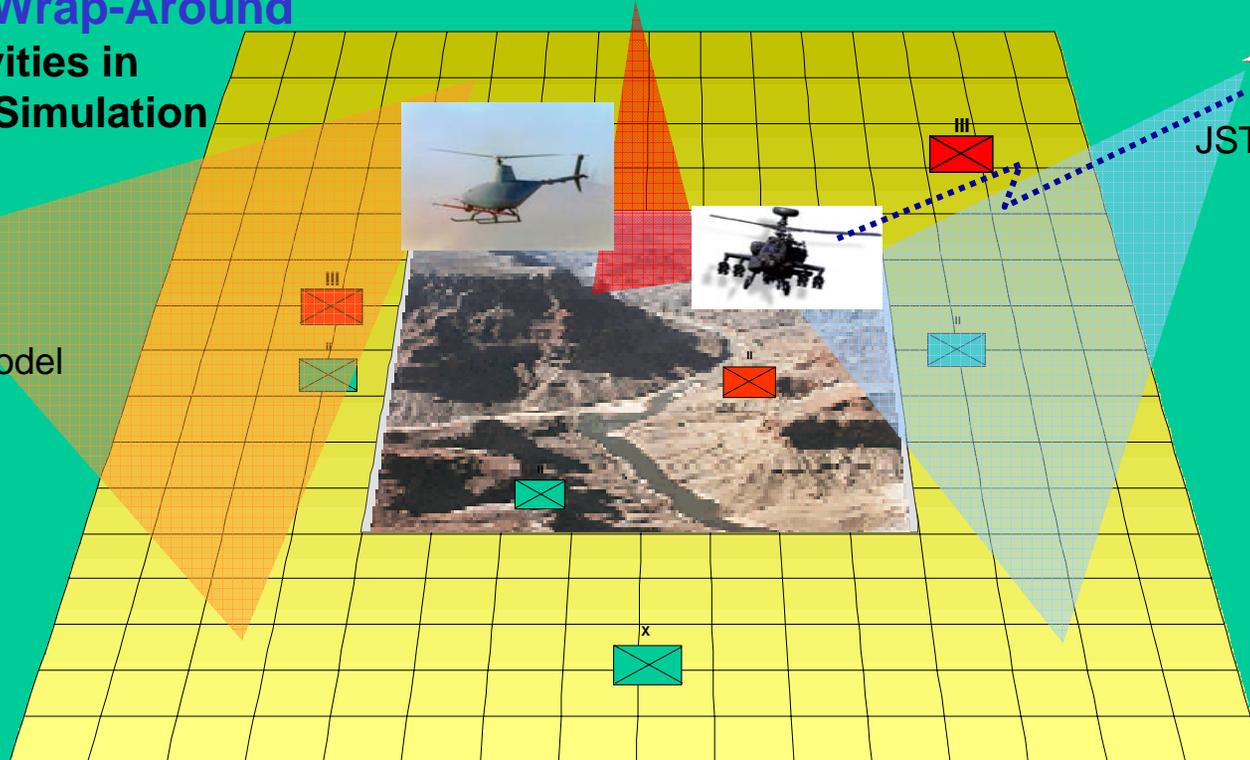
JSTARS MTI Model

Constructive Wrap-Around

- Forces & Activities in Constructive Simulation



SIGINT Sensor Model



Live Maneuver Box

- Instrumented Forces
- SAWE System
- OC/Solaris AAR

Constructive Overlay

- Uninstrumented Live Activities
 - Tank Ditches
 - Concertina Wire
 - Fortified Defensive Positions

TRAINING



JOINT TRAINING

➤ AIR WARRIOR PROGRAM (1983)

✓ JOINT AFTER ACTION REVIEW-VTC
CAPABILITY WITH NELLIS AFB

✓ AC AND RC AIR FORCE UNITS, NAVY,
MARINE AND ALLIED

➤ USMC AUGMENTATION

✓ OPFOR ALLIED INFANTRY

✓ PARAMILITARY (GUERRILLA FORCES)

➤ NAVY SEALS

➤ ARMY SPECIAL OPERATIONS FORCES

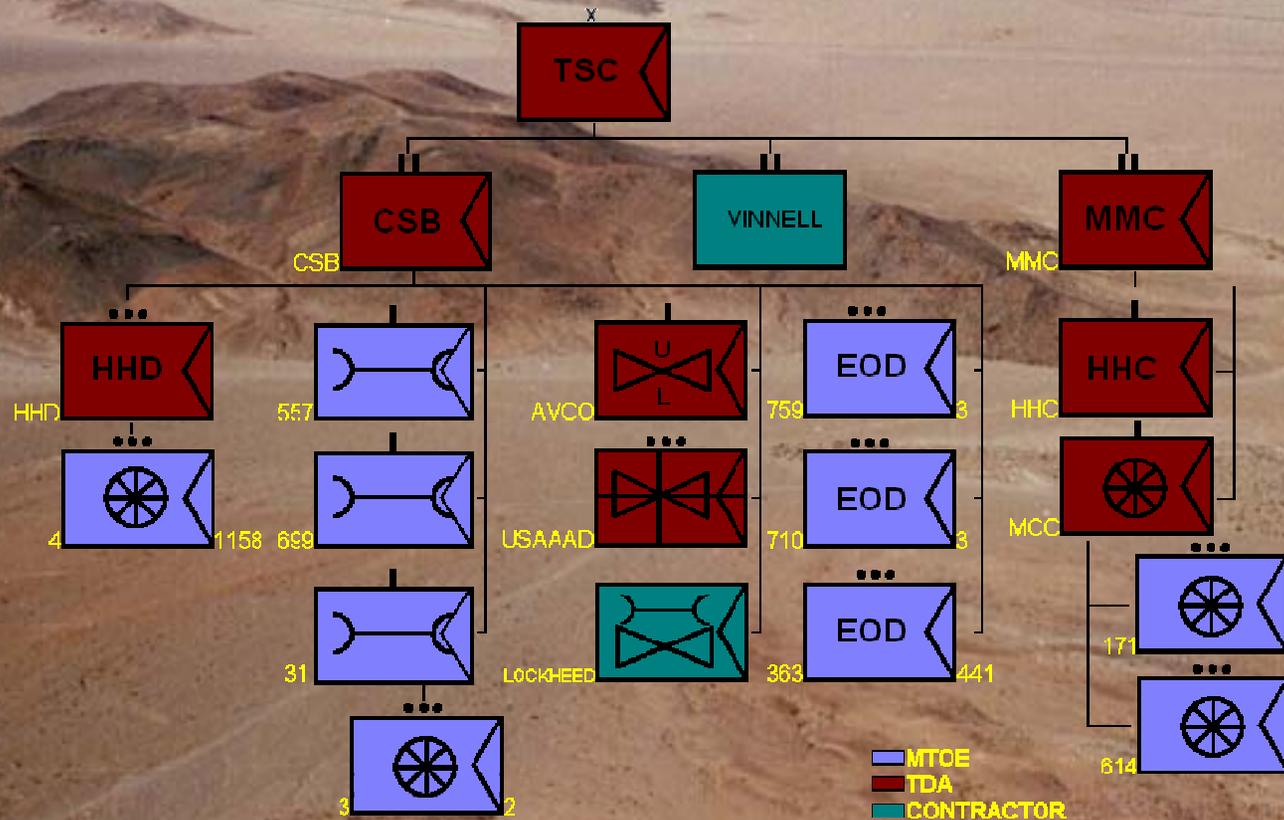


Theater Support Command



Theater Support Command

- Diverse and complex mission - providing direct support to theater assets
- Absolutely essential in exercising and training our logistical assets
- Able to anticipate and respond to the war-fighter's needs.



UNIT TRAINING STATISTICS

➤ TRAINING DATA (1982 - Present):

- ✓ 247 Brigade Rotations
- ✓ 1,446 Battalion Commanders Trained
- ✓ 8,302 Company Commanders Trained
- ✓ 969,787 Soldiers Trained
- ✓ 69,821 Officers Trained
- ✓ 313,834 NCOs Trained
- ✓ 312,138 Reserve Component Soldiers Trained
(1983 - Present)

-- As Of Rotation 04-04 (MAR 04)

An aerial photograph of a vast, arid desert landscape. The terrain is a mix of light tan and reddish-brown hues, with several low, rounded hills and ridges scattered across the scene. In the distance, a range of more prominent, rugged mountains stretches across the horizon under a clear, deep blue sky. A large, faint rectangular outline is visible on the ground, suggesting a planned site or installation area. The overall atmosphere is one of a remote, open environment.

INSTALLATION MASTER PLAN

MILITARY CONSTRUCTION, ARMY (MCA) PROJECTS

Project Description	Amount (\$000)	Fiscal Year
Force Protection Fence	2,522	2003
Command and Control Facility	21,000	2005
Land Acquisition – Phase 2	14,500	2005
CIDC Field Operations Bldg	2,600	2005
Expand two Dining Facilities	4,100	2006
Barracks Complex	30,000	2007
MP Operations Facility	1,700	2009

MCA PROJECTS (CON'T)

Project Description	Amount (\$000)	Fiscal Year
Replace Hazard Waste Storage	1,500	2009
RPR Fitness Center, Add Pool	10,000	2009
EOD Operations Facility	1,700	2009
Spectrum Management Facility	1,700	2009
Child Development Center	8,000	2007or 2009
Rail Spur (planned, but not programmed)	138,000	No date
Total MCA Projects	237,322	

UNSPECIFIED MINOR MILITARY CONSTRUCTION, ARMY (UMMCA) PROJECT

Project Description	Amount (\$000)	Fiscal Year
Access Control Point	2,950	2003

NONAPPORRIATED MORALE WELFARE FUNDS (NAMWF) PROJECT

Project Description	Amount (\$000)	Fiscal Year
Recreational Trailer Park	1,900	2007

AAFES PROJECT

Project Description	Amount (\$000)	Fiscal Year
Dual Food Facility	1,900	2004

EXCESS LAND, OFFICE SPACE, TRAINING RANGES/AREAS

- **1,000 EXCESS ACRES (IN AND AROUND THE CANTONMENT AREA) – CAN BE DEVELOPED INTO OFFICE SPACE, TRAINING RANGES/AREAS.**
- **RECOMMENDED POTENTIAL ORGANIZATIONS:**
 - ✓ **JOINT NATIONAL TRAINING CENTER (JNTC)**
 - ✓ **SITE FOR REGIONAL OFFICES**

WORLD CLASS TRAINING FOR THE WORLD'S BEST ARMY



TRAINING THE FORCE