

WSMR Command & Mission Brief

1 August 2019



WSMR Mission

Provide Army, Navy, Air Force, DoD, foreign allies, and other customers with high quality services for experimentation, test, research, assessment, development, and training in support of the defense of our Nation.

Major Range and Test Facility Base (MRTFB)

- *National Defense Authorization Act 2003 (NDAA 03) established MRTFB funding rules:*
- *Funding for indirect costs associated with test events is not chargeable to DoD test customers*
- *Only direct costs directly attributable to a specific test can be charged to DoD test customers*
- *Ranges/Capabilities are available to commercial and foreign military users on a fully reimbursable basis*



Team White Sands



Tenant Commands

TRADOC Analysis Center

National Aeronautics and Space Administration

National Reconnaissance Office

White Sands Radar Facility (ATC)

Defense Threat Reduction Agency

Army Research Laboratory

Center for Counter Measures

National Geospatial-Intelligence Agency

NASA Tracking and Data Relay Satellite System

Executive Director

RCC

Commanding General
Command Sergeant Major

Chief of Staff

MEDCOM Support Facilities

McAfee Health Clinic

Dental Clinic

Military Tenants

Deputy for Air Force

Deputy for Navy

3-6 ADA Test Det

Test Center Commander

Materiel Test Directorate

Range Operations Directorate

Survivability, Vulnerability Directorate

Information Management Directorate

Army Air

HQ Staff

Direct	General
SJA	G-1 / 7 / 8
Safety/Surety	G-2
EO	G-3
Special	CPI
SGS	G-4
Protocol	G-6
PAO	G-5 / 9

Garrison Commander
Garrison CSM

Directorate of Morale, Welfare & Recreation

Directorate of Human Resources

Garrison Resource Management

Equal Employment Opportunity

Installation Safety Office

Directorate of Public Works

Directorate of Emergency Services

Religious Services

Dir. of Plans, Training, Mobilization and Security

PAIO / CIG

Base Support Services

DECA (Commissary)

AAFES

Direct Support

CPAC

407th AFSB LRC

TMDE

MICC

IG (ATEC)

Internal Review

LEGEND

OPCON
Coordinating Relationship





Department of the Army



Department of the Air Force



Department of the Navy



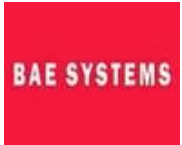
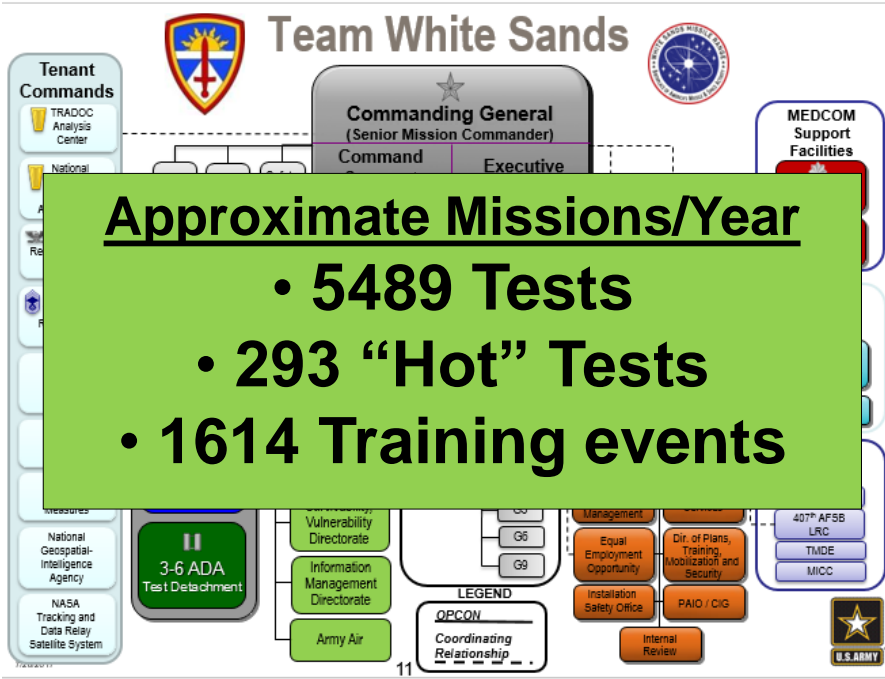
NORTHROP GRUMMAN

Honeywell

Raytheon



Rockwell Collins



Germany



France



Turkey



Italy



Japan



Netherlands



Norway



United Arab Emirates



Canada



United Kingdom



Israel

WSMR "Other Team Members" The Customers

WSMR is Largest MRTFB in US Most Joint Testing of all Ranges



Australia



South Korea



Saudi Arabia



Singapore

For Official Use Only



WSMR Critical Missions



Air Defense Tests

Defense Priority (North Korea)



GBU-57

USAF Priority Programs



Major SOS Test for Army

NIE/AWA Test Events



Patriot / PAC-3

AIAMD / THAAD



Radiation Testing

Nuclear TRIAD Priority

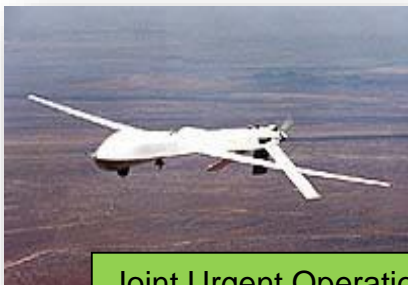


F-35 Integration

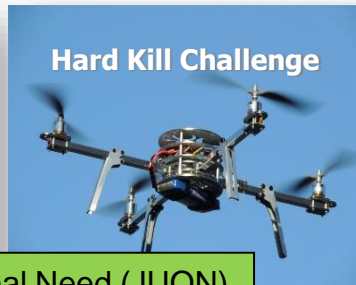


Critical Test for Navy

HVP/Rail Gun



Joint Urgent Operational Need (JUON)



Hard Kill Challenge



M-SHORAD

CSA Priority



Space Vehicles

The Future of US Space Programs

Ongoing - Support to CFTs

Land, Air Space and Climate

*Reliable
Year-round
Test & Training*

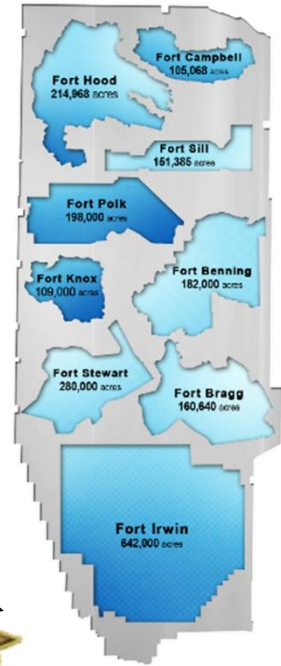
➤ *Stable / Mild Climate*

20yr Avg. Temperature.

	<i>Winter</i>	<i>Summer</i>
<i>High</i>	<i>61°F</i>	<i>92°F</i>
<i>Low</i>	<i>36°F</i>	<i>69°F</i>



Commercial Air Routes



➤ *Dry / Clear Atmosphere*

Avg. RH- 42%, Avg. Rainfall 11.7"

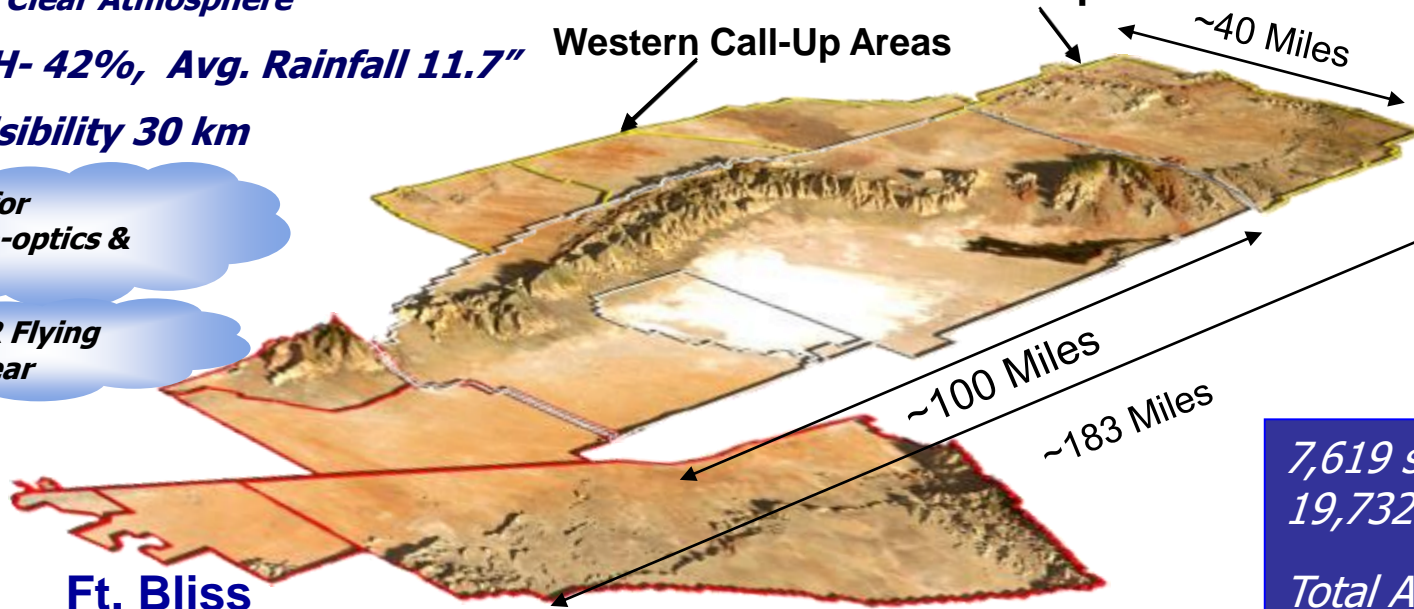
Avg. Visibility 30 km

*Great for
Electro-optics &
Lasers*

*355 VFR Flying
Days/year*

Northern Call-Up Area

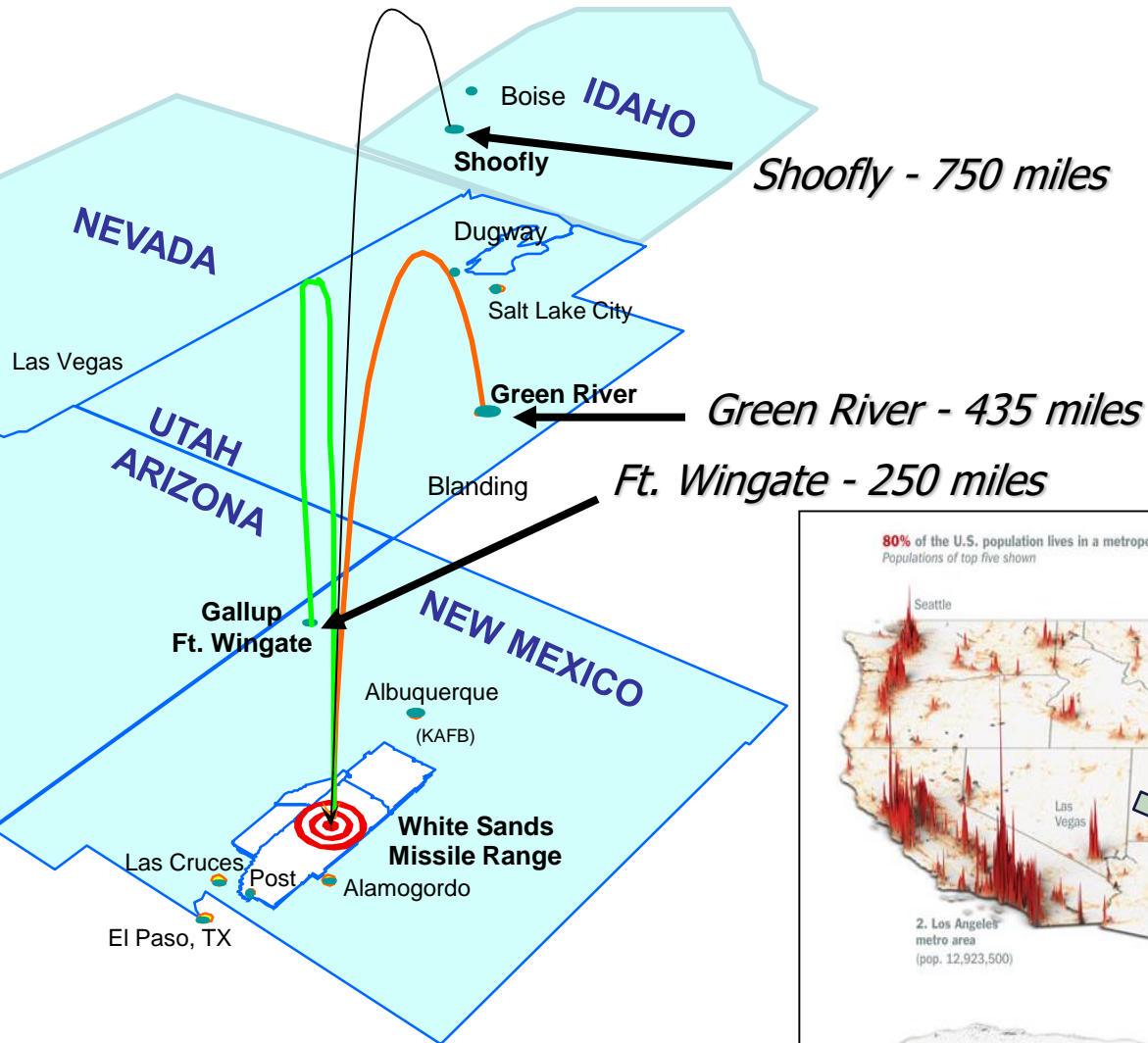
Western Call-Up Areas



Ft. Bliss

*7,619 sq. Miles
19,732 sq. km
Total Available*

Off-Range Missile Launch & Flight Corridors

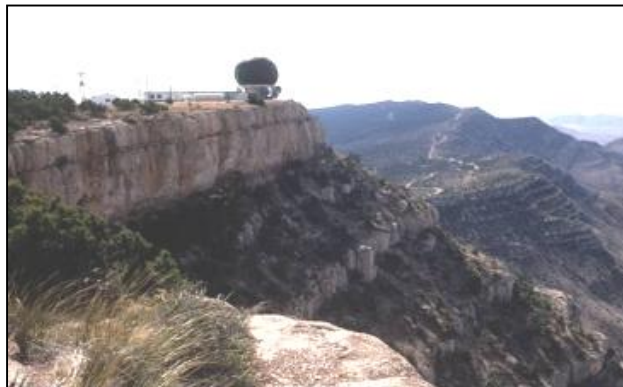
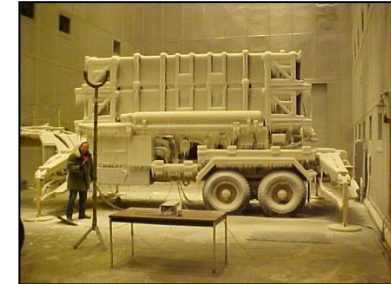


Key for current & future long stand off weapons
 —
Missile Defense Strategic Testing
Hypersonics
Space Activities



Environments

- ➔ Urban
- ➔ Mountains
- ➔ Forest
- ➔ Water
- ➔ Rain, Cold, Heat, Lightning
- ➔ Caves
- ➔ Wind/Sand
- ➔ Nuclear



Fully Instrumented Range

Instrumentation & Data Acquisition

- *Long range – high altitude electro-optics*
- *High speed digital visible/IR*
- *Telemetry –fixed and mobile*
- *Laser, radio frequency & high power microwave*
- *Radar & global positioning system*



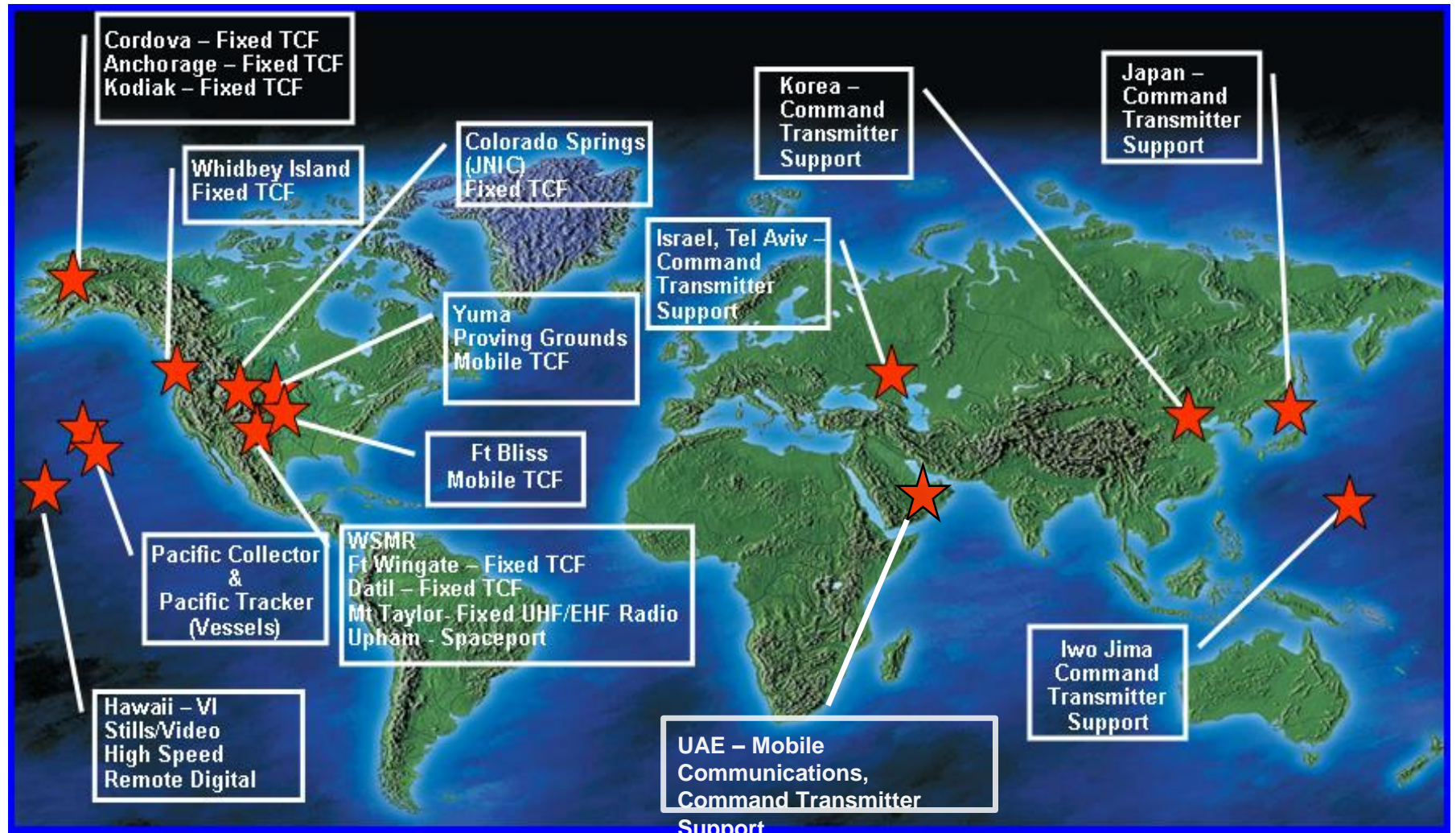
WSMR Safari Capability

- Some Range Capabilities can be moved to support “in country” events
- Examples include:
 - *Missile tests in the Pacific*
 - *Hypersonic tests in Australia*
 - *Other “in country” tests*



Tri-Service technology sharing via Range
Commanders Council

Global Impact of WSMR Safari Testing




Strategic Changes

- **2018 National Security Strategy Focus**
 - Peer Competitors
 - Overmatching Capabilities
 - DE, Hypersonics, Swarming Autonomous Systems
 - Nuclear weapons and survivability
 - Space
 - Greater focus on SOS, Experimentation, pre-POR rapid transitions, accelerated training
- **Army Futures Command**
 - Joint and Integrated System of Systems
 - Re-Focus on Peer competitors
 - WSMR location as a principal pilot for initial consideration
 - T&E must include Test, Experimentation, and Training
 - WSMR Funding 100%?
- **TRMC Focus**
 - AI, Autonomous Systems, Hypersonic and Counter Hypersonic, DE, others...
 - Include Experimentation and Training as part of T&E at MRTBF
- **Congressional language – NDAA 2019**
 - \$500M cut to Army IFPX!: Army shall accelerate counter CM capabilities – David's Sling/other by 2020
 - Establish J-DETC funds for FY19 ~\$15M, more expected in 2020.

WSMR Strategic Alignment

CSA Priorities

 A Long-Range Precision Fires that restores US Army dominance in range, munitions, and target acquisition

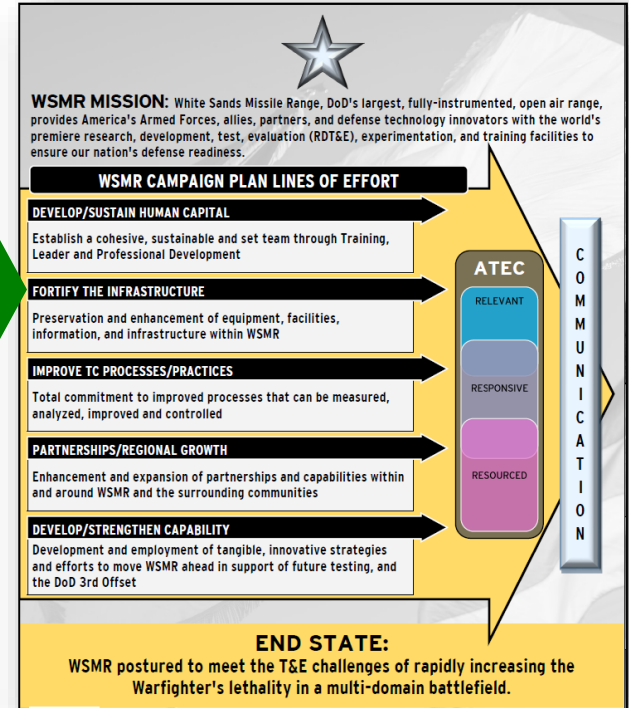
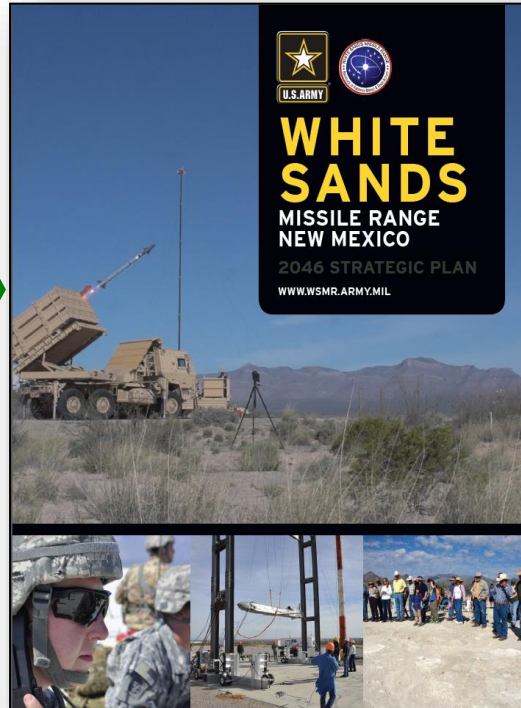
- Next Generation Combat Vehicle

- Future of Vertical Lift Platforms

- Army Network with Hardware, Software, and Infrastructure

 Air and Missile Defense Capabilities

- Soldier Lethality that Spans all Fundamentals (Shooting, Moving, Communicating, Protecting and Sustaining)



Strategic Plan & Campaign Plan has contributed to a number of big successes

- New Communication Building
- Direct Hire Authority
- Jump start on Hypersonics/Long Range Precision Fire test corridors
- Jump start on DE test bed – Joint Directed Energy Test Bed

WSMR Strategic Capability Thrusts (SCTs) & IAMD Foundation

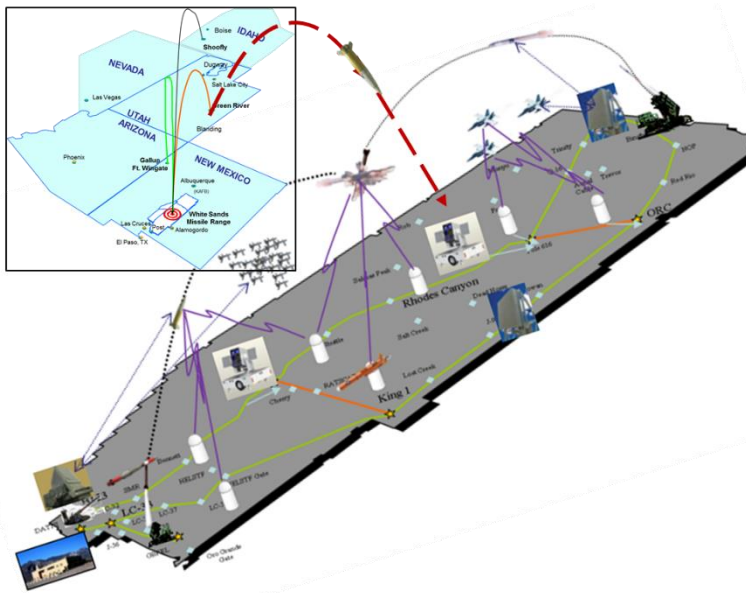


2nd Core Mission Strategic Focus

- **Space Test Support and Satellite Environmental Testing**
 - WSMR situated for supporting new Space Force
 - Requires modernization need for complete satellite and/or major subsystem environmental testing
 - Requires need to integrate with future LEO Satellite telemetry and communications for IAMD testing
- **Nuclear Weapons Effects Testing**
 - WSMR identified as critical location for nuclear weapons effects testing
 - Need for time-sequenced prompt transient nuclear radiation effects testing
 - Focus on space and counter ICBM weapon systems

2nd Core Mission Strategic Focus will be Included Within the Modernization and Execution Plan

WSMR Modernization & Execution Plan (MEP)



WSMR's unique capabilities:

- Vast Land Area
- Vast connected / Army-controlled airspace
- Complete Spectrum Management
- Space Heritage
- Army, Navy, Air Force T&E
- Existing Off-range corridor
- Fully instrumented

Strategic Drivers:

National Security Priorities
CoCom IPLs
Capability Gaps
DoD FY18-28 Strat Plan for T&E Resources
Programs of Record
Prototypes / Dev. Programs / Demos
Army Cross Functional Team (CFT)

Strategic Focus: **Overmatch Systems**

Directed Energy
Hypersonics/Long Range Precision Fires
Swarming Autonomous Systems
Integrated Air & Missile Defense

2nd Core Mission:

Space Systems
Nuclear Weapon Effects

Key MEP Attributes

- **Annually updated**
- **Provides WSMR MEP SOP**
- **Process improvements identified with execution plans**
- **Multiple funding and acquisition strategies**
- **Support planning for current customer base**
- **Aligns current capabilities with future needs**

Key MEP Objectives

- **Synchronize** modernization efforts with National Need / Strategy / Priorities and WSMR Campaign Plan
- **Integrate / Align** existing capabilities with SCTs
- **Modernize** infrastructure to meet current & future needs
- **Prioritize / Focus** all investments to align with strategic plan
- **Assess** progress periodically and **Adjust** to need
- **Identify and Execute** multiple funding and acquisition strategies

Summary

- WSMR is a national T&E asset
- Our unique capabilities include
 - Largest Land Based Test Range in the US
 - Complete Spectrum Management
 - Full Control of Air Space
 - Multiple Environments
 - Joint / Integrated Air and Missile Defense
- Strategic Vision to Meet Future Warfighter Needs
 - J-DETC example of Joint efforts to meet those needs
 - WSMR postured to support Joint Training and Experimentation
 - Joint Integrated/Synchronized System of Systems Testing
 - WSMR focused on rapid transition of capabilities to theater
- Campaign Plan to Synchronize and Prioritize Efforts
 - Improves processes while decreasing costs