

# WHITE SANDS MISSILE RANGE

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Battle Ready*



Army Test and Evaluation Command

# Army Acquisition's Rebalance to the Pacific



**Ms. Heidi Shyu: “The Army must focus more on technological battlefields where the Army will not enjoy uncontested aerial environments. The Army will face enemies with missile fleets, cyber attack capabilities and the ability to shoot down U.S. drones.”**

**“There [are] countries that have a lot of missiles, so our air/missile defense becomes more important”**



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# Bottom Line Up Front



*WSMR is uniquely positioned to respond to emerging threats*

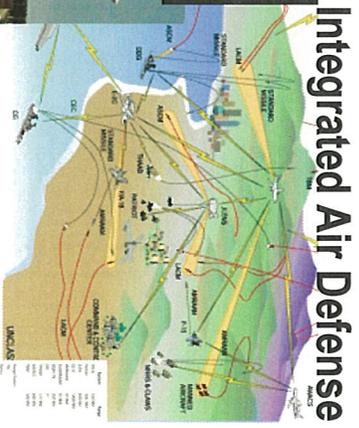
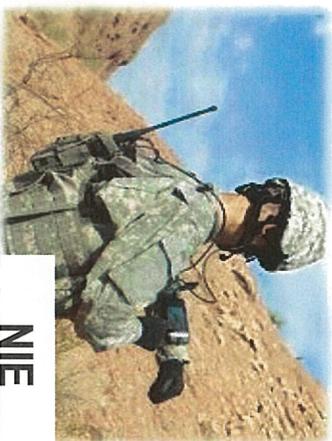
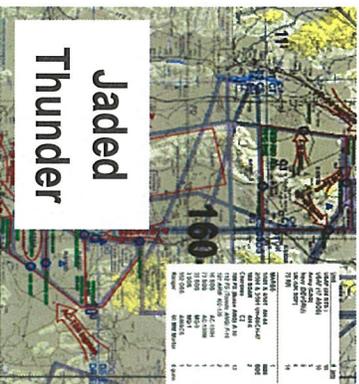
## Routinely Conduct Nationally/ Globally Important Missions

National asset with unique terrain, airspace, and the ability to control the frequency domain

World class Instrumentation and Instrumentation development capability

Unique ability to replicate theatre environment for operational realism

A Tri-Service range installation regionally partnered with Bliss and HAFB



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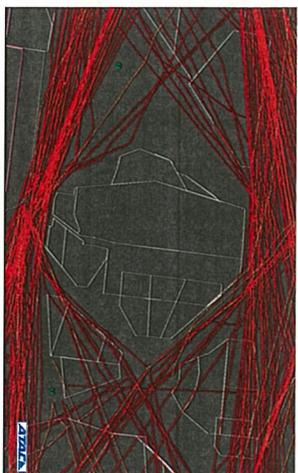


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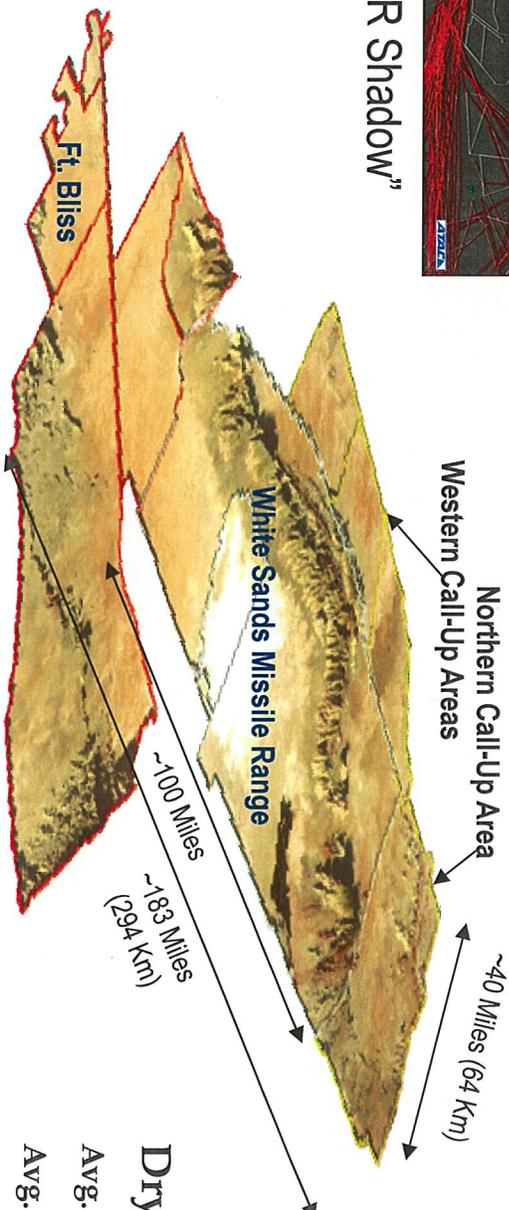
# A National Treasure



- Land area
- Air space
- Frequency



"WSMR Shadow"



## Stable / Mild Climate

20yr Avg. Temperature.

Winter Summer

High	61°F	92°F
Low	36°F	69°F

## Dry / Clear Atmosphere

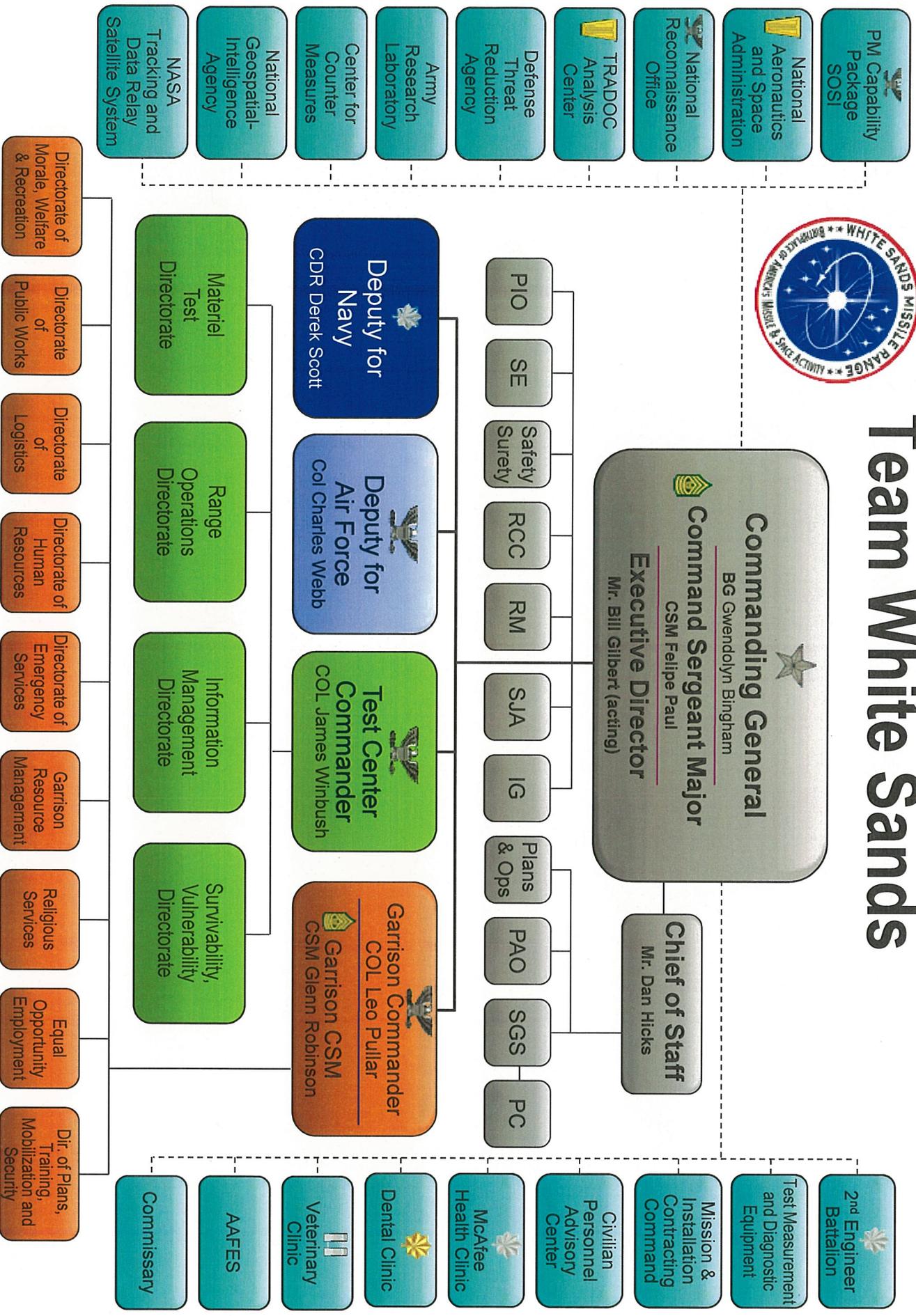
Avg. RH- 42%, Avg. Rainfall 11.7"

Avg. Visibility 30 km

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# Team White Sands





# White Sands Missile Range

## Annual Economic Impact

- Payroll & Contracts \$781.9 million
- Construction Contracts \$ 40.5 million
- Utilities \$ 11.2 million
- Total Full Time Personnel – 10184
- Total number of Transient Personnel – 10018
- **Total Economic Impact - \$834 Million**

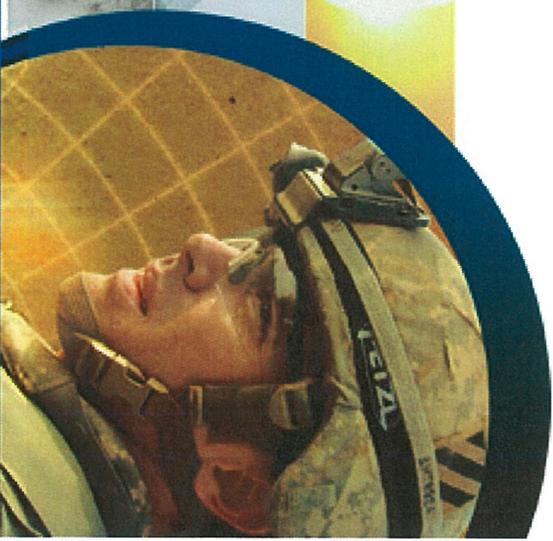
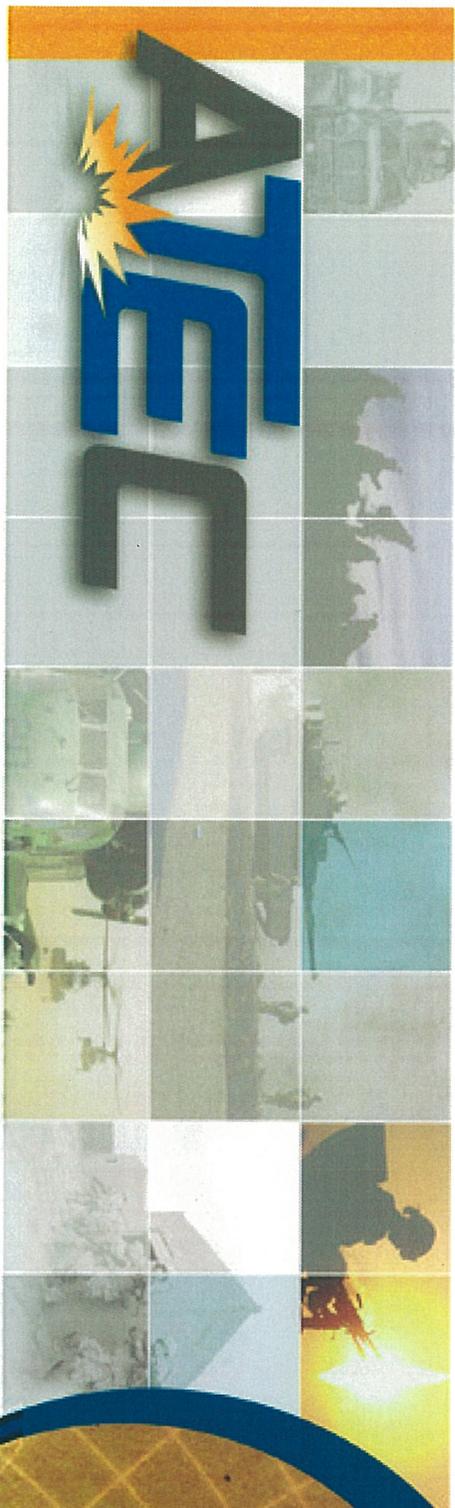
**About \$2.3 million per day**

WSSMR is a reimbursable range

**ATEC**



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**White Sands Missile Range Mission Impacts  
From Current Proposed SunZia Power Line Routing**



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US Army White Sands Missile Range



## Bottom line up front

- The Army and the Department of Defense are very supportive of renewable and alternative energy.
- The DoD has defined renewable energy mandates that each Service must achieve to reduce our overall reliance on carbon fuels.
- WSMR is actively working towards these mandates and has recently activated the Army's largest LCPV Solar Array.
- WSMR strongly supports Sunzia and NM's desire for renewable energy development.

WSMR, Army, and OSD want to ensure the Sunzia project is located in the best location to minimize the impact to all stakeholders.

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There are very real threats in the world!

## Iran plans to unveil cruise missile, dismisses U.S. deployment of air defense shield in region

English.news.cn 2012-09-09 23:41:32



TEHRAN, Sept. 9 (Xinhua) -- Iran's Defense Ministry announced on Sunday it will unveil a new cruise missile, dismissing U.S. deployment of air defense shield in the region.

Deputy Defense Minister and head of the ministry's Aerospace Organization General Mehdi Farahi said Sunday that his ministry plans to unveil a highly advanced cruise missile, the semi-official Fars news agency reported.

"God willing, Meshkat (Lantern) cruise missile with a range of 2,000 km will be unveiled in the near future," Farahi told Fars.

"Meshkat Cruise Missile can be fired from land, air and sea," Farahi was quoted as saying.

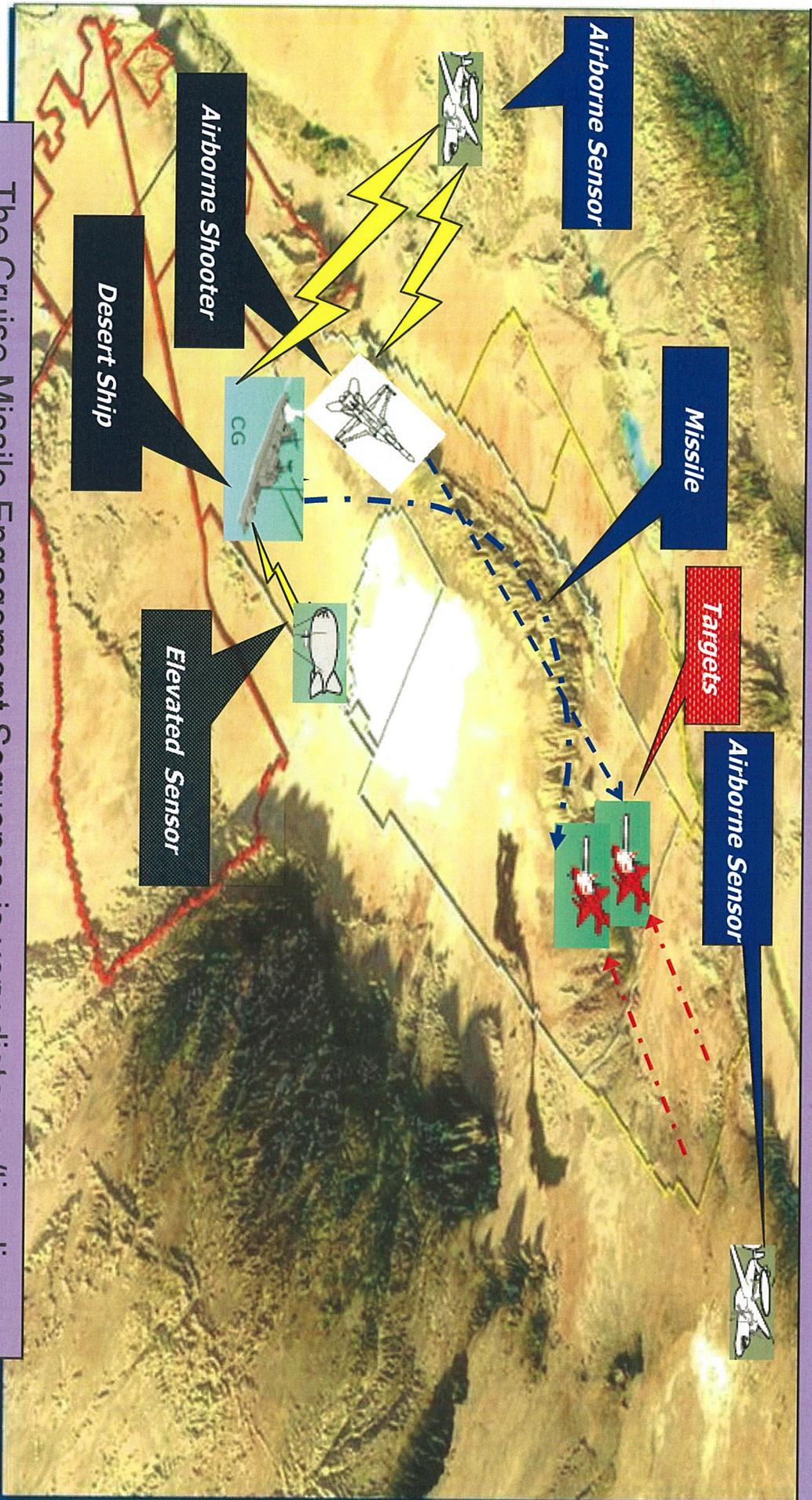
According to the report, Iran's former cruise missile can travel a distance of no more than 300 km.

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# Current and Future Test Scenarios on WSMR



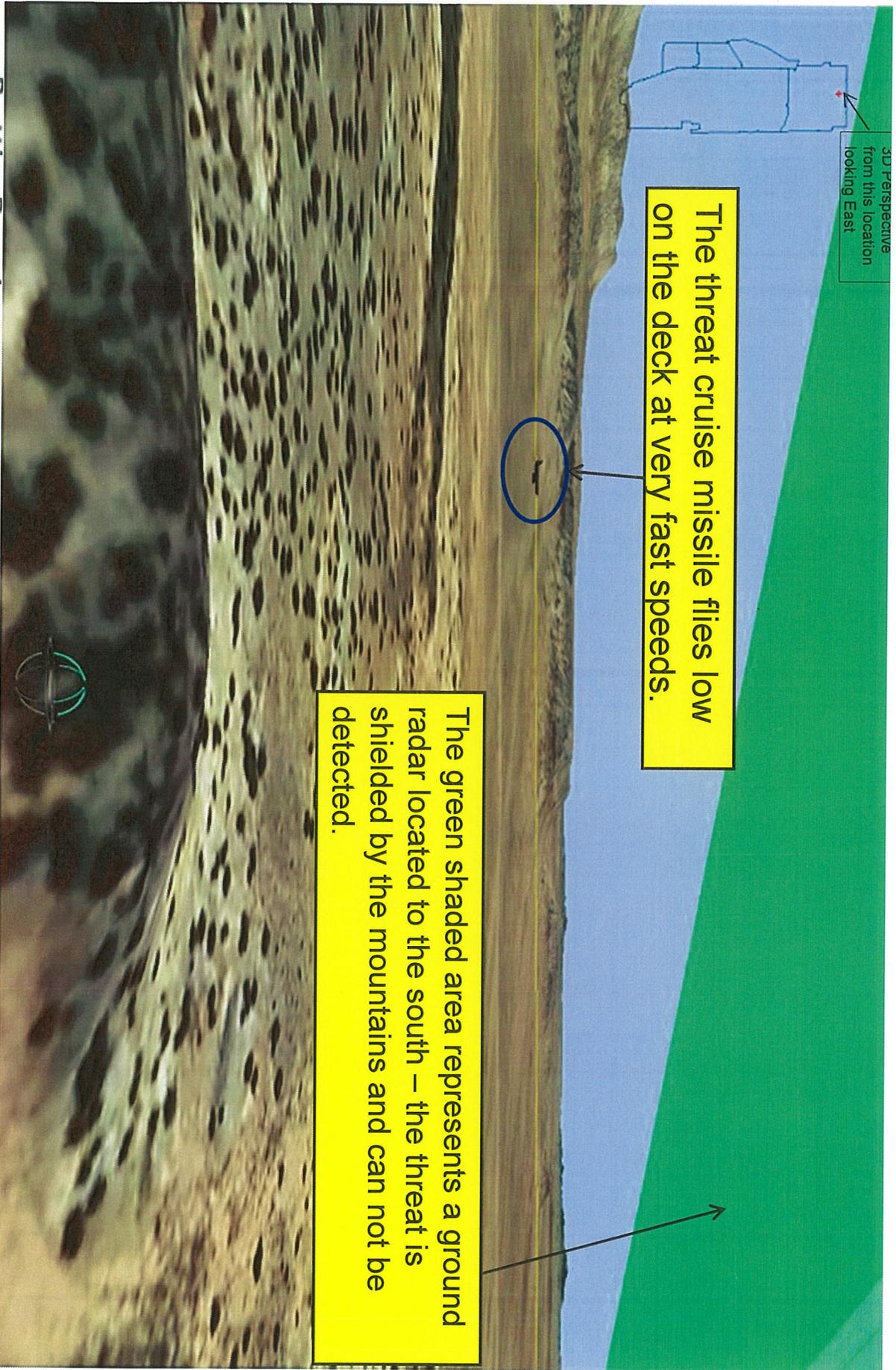
The Cruise Missile Engagement Sequence is very distance/timeline dependent and requires all of WSMR & the Northern Extension Area

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## Target Test Geometry



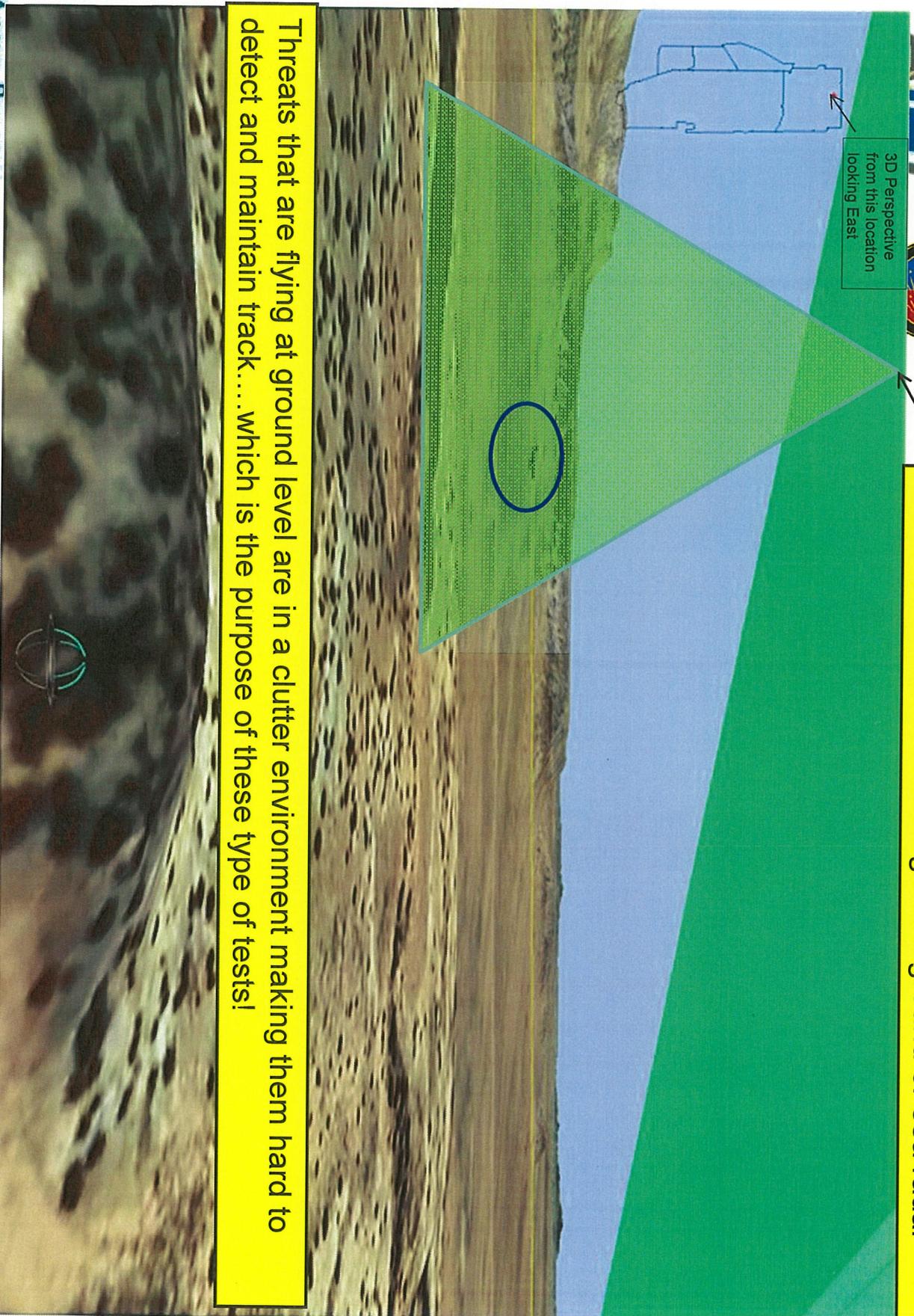
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Elevated sensors are needed to track threats at long ranges that are outside the coverage of a ground or sea radar

3D Perspective from this location looking East

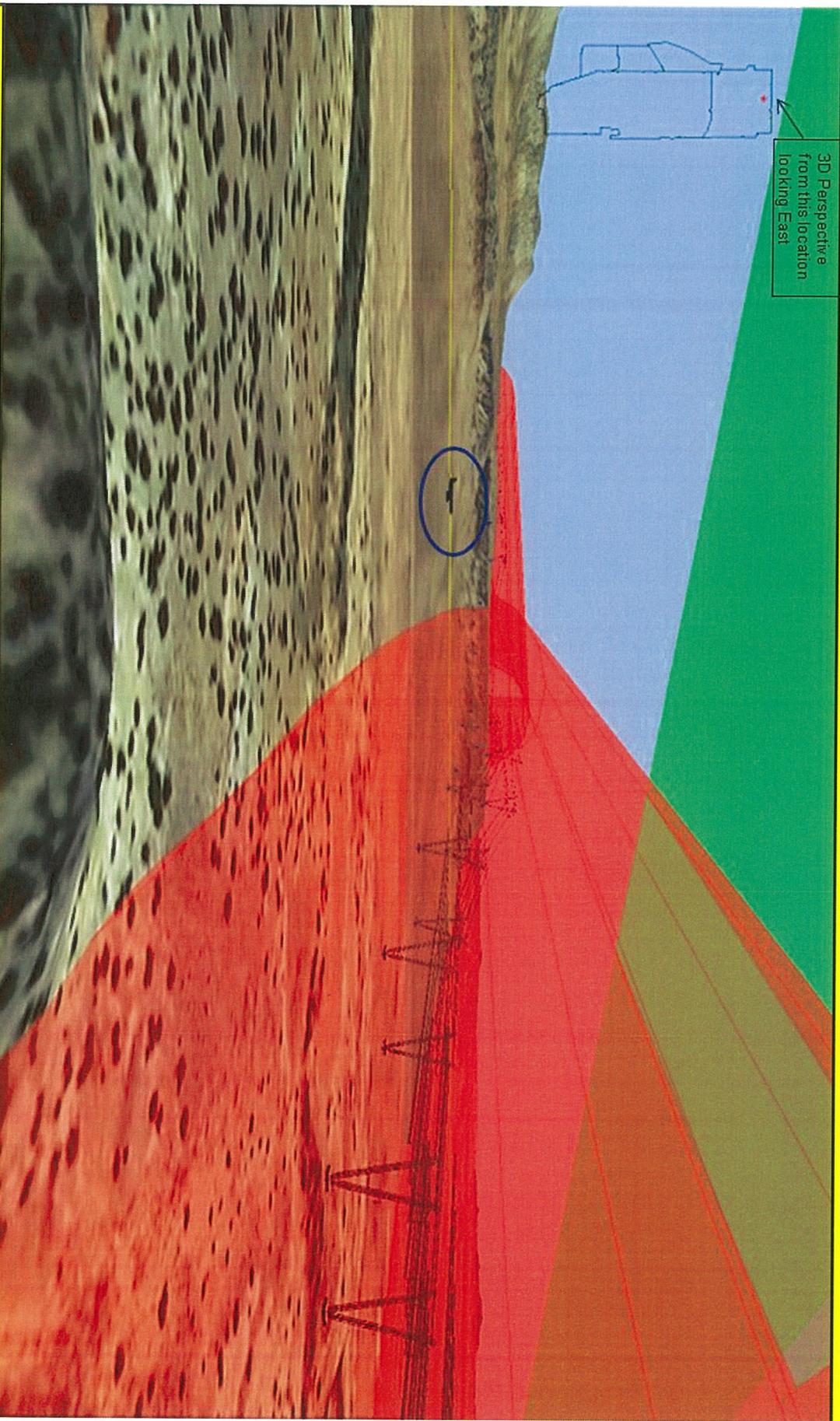


Threats that are flying at ground level are in a clutter environment making them hard to detect and maintain track...which is the purpose of these type of tests!

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This image shows a representation of the SunZia transmission line along BLM's Modified Preferred Alternative Route

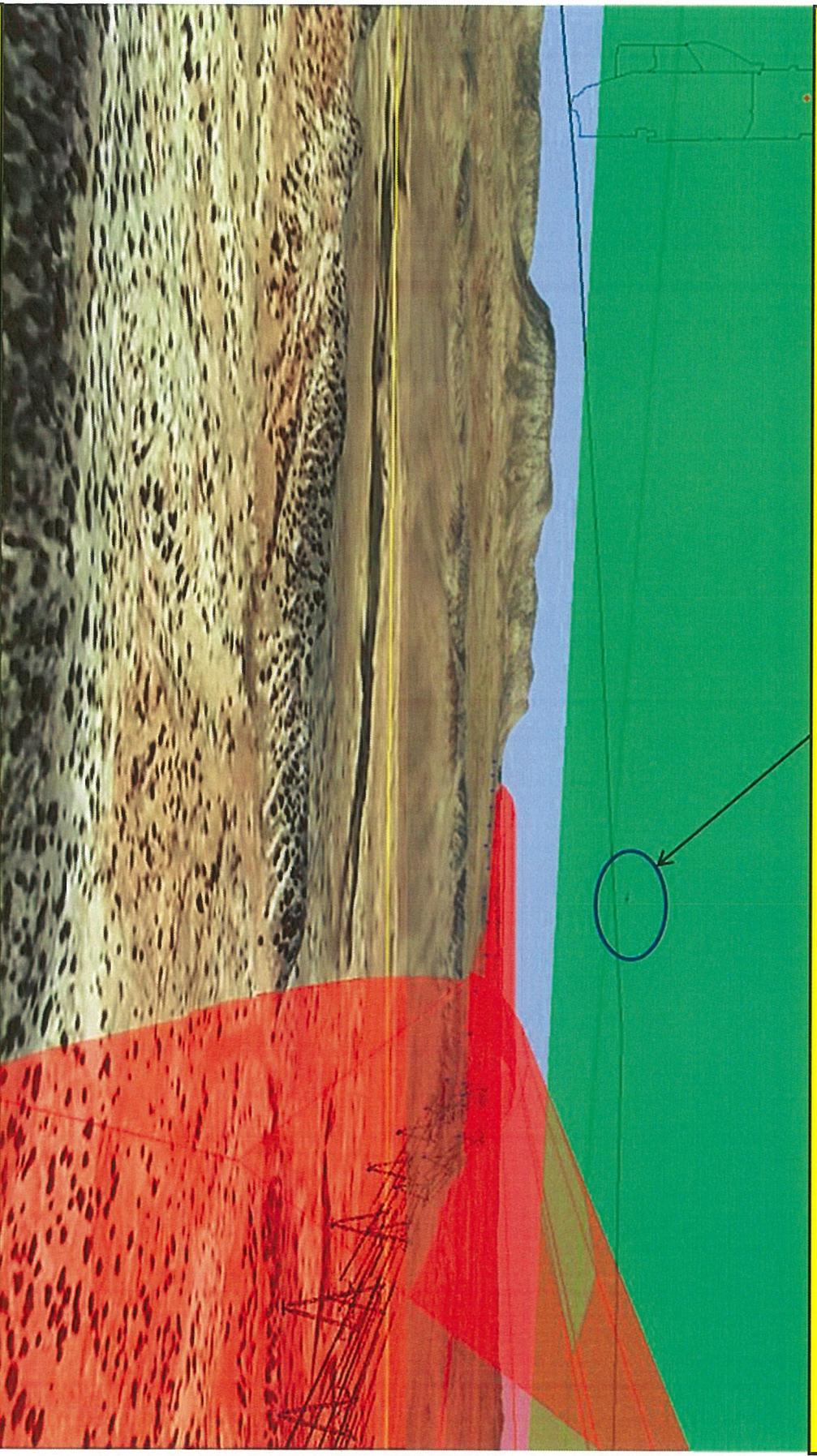


The red shaded area represents a standard 500 foot protection buffer around critical infrastructure. Targets would have to fly above this buffer.

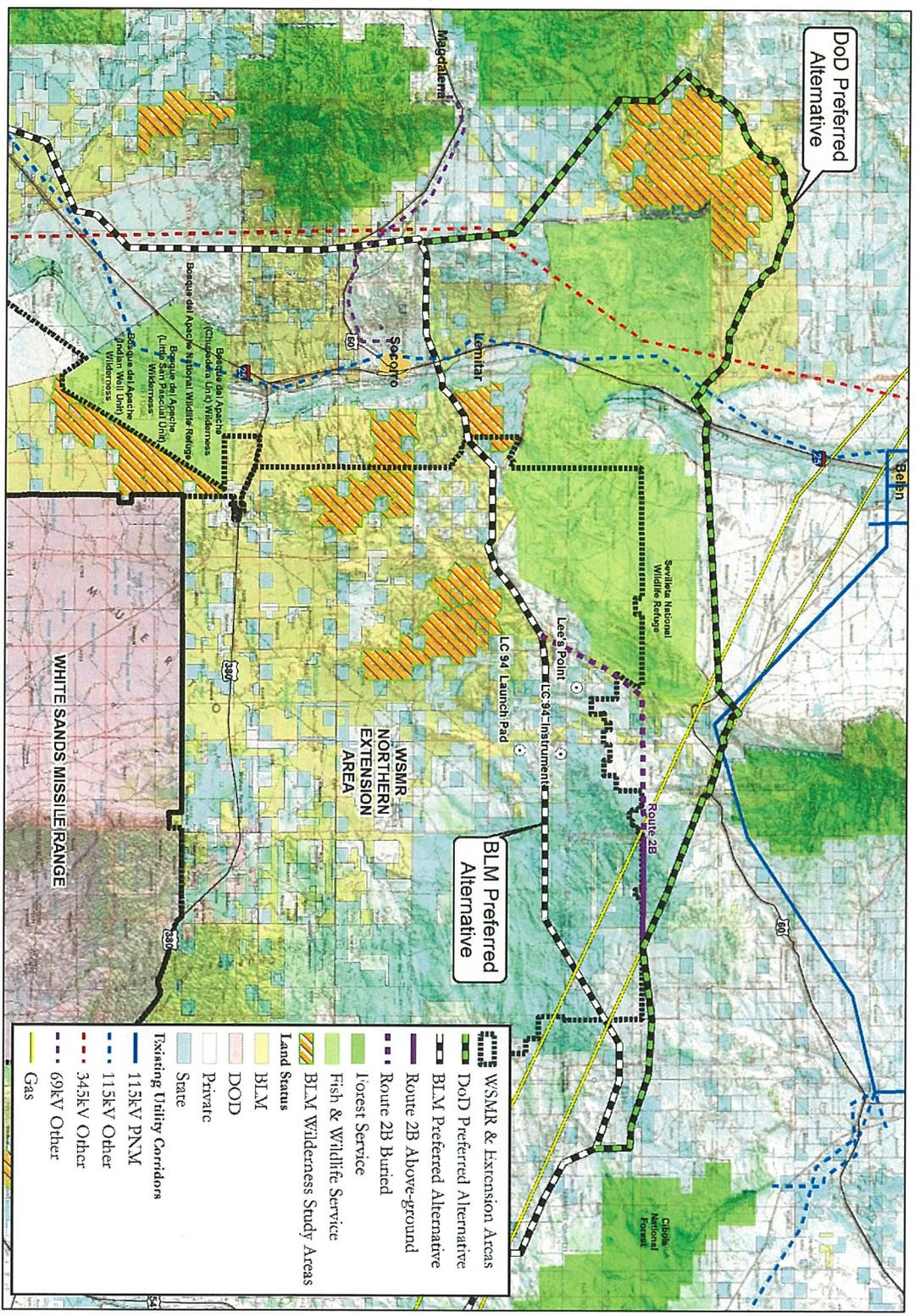
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A target flying over the transmission line and buffer and will be out of the ground clutter

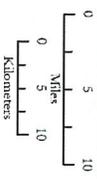
- more detectable by airborne sensors
- invalidates test objectives



This distance out of the ground clutter will vary from 3-5 miles depending on speed and type of the target.



**WHITE SANDS MISSILE RANGE**  
 Sun Zia Routes - DOD & BLM Preferred Alternatives  
 March 2013

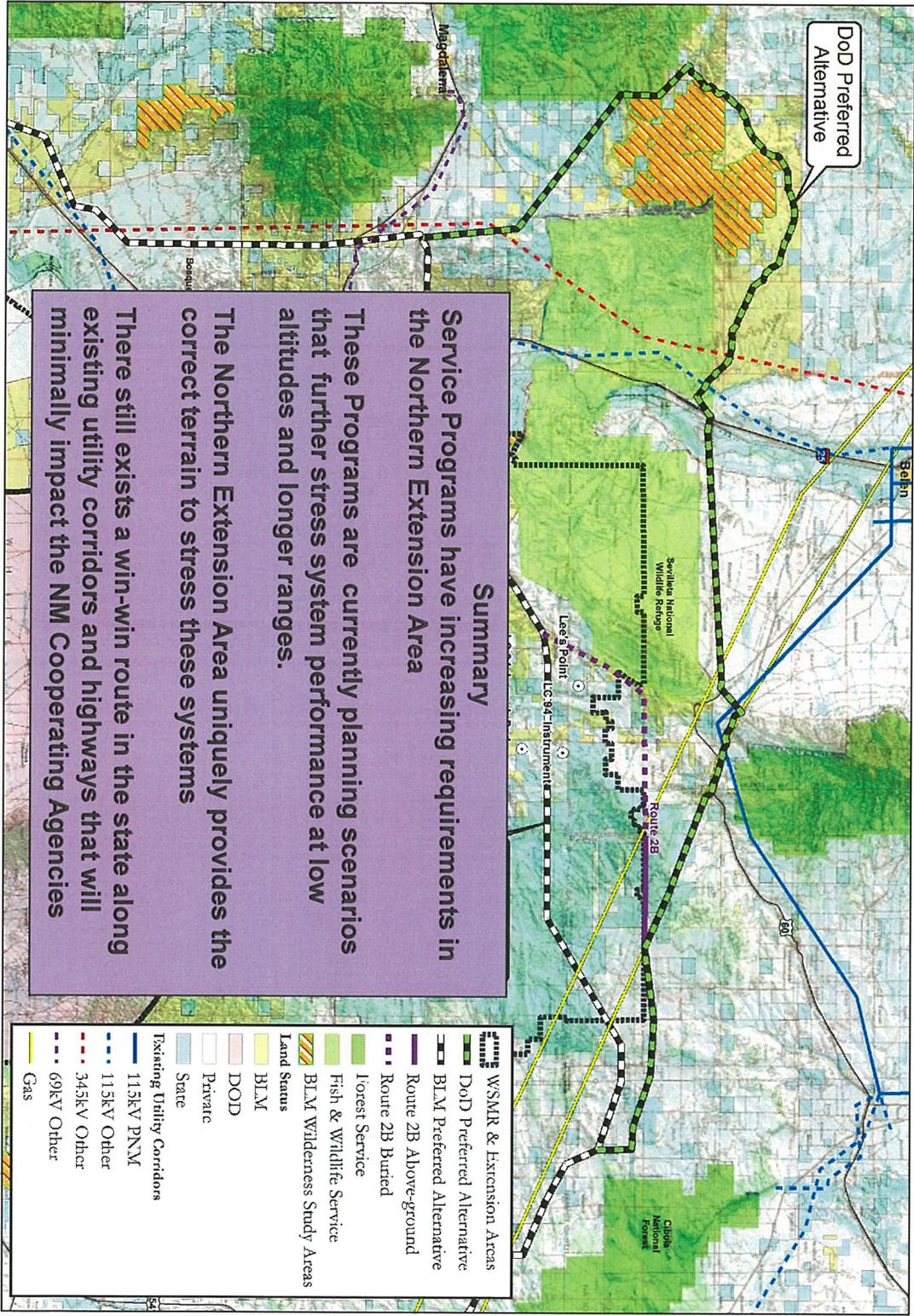


	WSMR & Extension Areas
	DOD Preferred Alternative
	BLM Preferred Alternative
	Route 2B Above-ground
	Route 2B Buried
	Forest Service
	Fish & Wildlife Service
	BLM Wilderness Study Areas
	Land Status
	BLM
	DOD
	Private
	State
	Existing Utility Corridors
	11.5kV PNM
	11.5kV Other
	34.5kV Other
	69kV Other
	Gas

Produced by Team ASD for the Directorate of Public Works, White Sands Missile Range, NMI.  
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**Summary**

Service Programs have increasing requirements in the Northern Extension Area

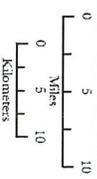
These Programs are currently planning scenarios that further stress system performance at low altitudes and longer ranges.

The Northern Extension Area uniquely provides the correct terrain to stress these systems

There still exists a win-win route in the state along existing utility corridors and highways that will minimally impact the NM Cooperating Agencies

**WHITE SANDS MISSILE RANGE**

Sun Zia Routes - DoD & BLM Preferred Alternatives  
March 2013



- WSMR & Extension Areas
- DoD Preferred Alternative
- BLM Preferred Alternative
- Route 2B Above-ground
- Route 2B Buried
- Forest Service
- Fish & Wildlife Service
- BLM Wilderness Study Areas
- Land Status**
- BLM
- DOD
- Private
- State
- Existing Utility Corridors**
- 115KV PNM
- 115KV Other
- 345KV Other
- 69KV Other
- Gas

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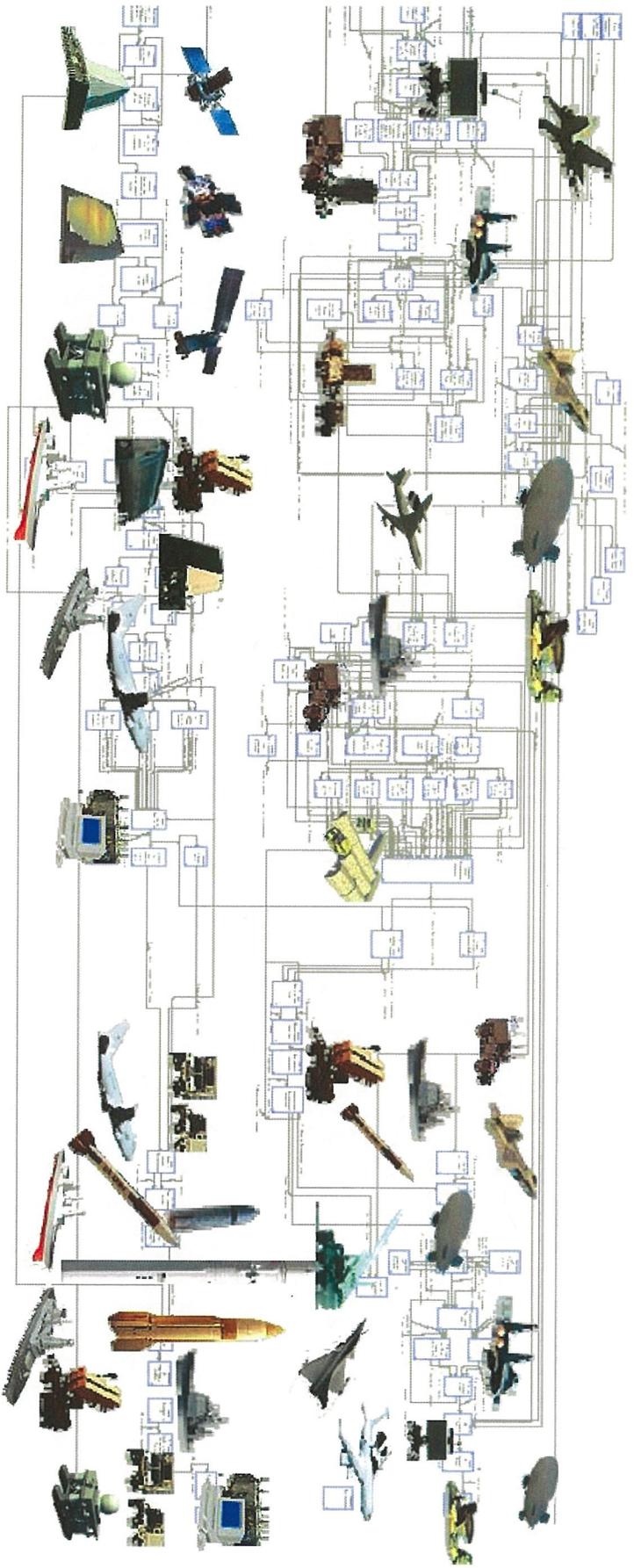
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WSMR has increasing test requirements to support DoD's integrated system of system testing

### Joint Air and Missile Defense Architecture



**RECOMMENDATION**  
Working together we can still find the win – win solution in the state

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