

WSMR-ARL COMMUNITY RESPONSE

BRAC Commissioners Regional Meeting

Presented by

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Representing

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Clovis, New Mexico - June 24, 2005

DCN: 3503

103-06A-RH6 - State Input
Regional Hearing - June 24, 2005 - Clovis, NM
BRAC COMMISSION - FY 2005
COFF: _____ DISPOSITION: Permanent

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Request

Reverse the Department of Defense recommendation to realign the ARL activities from White Sands Missile Range to Aberdeen Proving Grounds

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DOD BRAC Process Criteria

- Military Value
 - Test and Evaluation
 - Joint Service
 - Physical Assets
- Other Considerations
 - Cost
 - Environmental Impact

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ARL: Two Different Business Areas

WSMR

Business Areas

- Electronic Warfare/Information Warfare
- Supporting Test & Evaluation
 - ECM, ECCM Development
 - Field Support to tests conducted on range
 - Signature Measurements
 - Modeling & Simulation of EW and IW effects
 - Verification & Validation

Customers

- Program Managers/Program Executive Officers
- Army Test & Evaluation Command

Stakeholders

- Test & Evaluation Management Agency
- Deputy Under Secretary of the Army (Operations Research)

Funding

- T&E

APG

Business Areas

- Basic/Applied Research
- Weapons & Materials Research
- Sensors & Electronic Devices Rsch
- Human Factors Engineering Rsch
- Computational & Information Sciences Research
- Vehicle Platform & Propulsion Rsch
- Ballistics Analysis supporting T&E

Customers

- Research, Development and Engineering Centers

Stakeholders

- Asst. Secretary of the Army (Acquisitions, Logistics & Technology)

Funding

- Research

- Atmospheric Sciences Research

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US Army Research Laboratory at White Sands Missile Range

	Research: Battlefield Environment	Test & Evaluation Survivability/Lethality Analysis
Funding	6.1, 6.2 (Research) \$12 million (FY 05)	6.6 (RDT&E Management Support) \$120 million (FY 05)
Mission	Atmospheric Sciences	Survivability/Lethality Analysis
Population	42 civilians; 1 military; 8 contractors	117 civilians; 8 military; 38 contractors
Occupied Facilities (sq ft)		
Office	50,000	180,000
Laboratory	35,000	50,000
Other	15,000	60,000
Unique facilities replacement costs	0	70,000
Cost of moving special equipment	\$2M	\$60M
	\$3M	\$20M

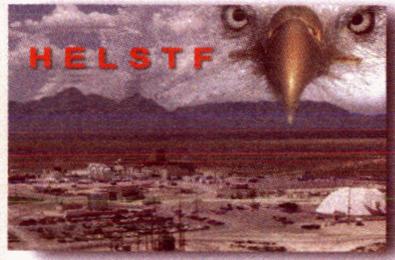
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SLAD Organizational Synergies at WSMR

Development and insertion of communications model to Combat XXI.
Development and insertion of EW/IW effects to CASTFORUM/Combat XXI.

Evolution of CM techniques from low energy lasers to high energy lasers.

Provide Electronic Counter Measure support for F-22 program.



Supporting development of Kill Assessment methodology.



Assessing airborne electronic Counter Measures. Verification of air & missile defense Counter-Counter Measure algorithms.



Piggyback on tests conducted on the range.



Development of Radio Frequency and Infra-red counter-measure models for inclusion in element/system models.

Leverage threat based ARL-developed Counter Measure, CM materiel, technology and methods for tri-service applications. Leverage ARL-planned, system-specific tests and evaluations for CM effectiveness assessment.



Development of nodes for WSMR virtual test range to support vulnerability assessments of Future Combat Systems.

Provide Infra-red and Electronic Counter Measure support to developmental and operational testing of Army (and foreign national) air defense missile systems.

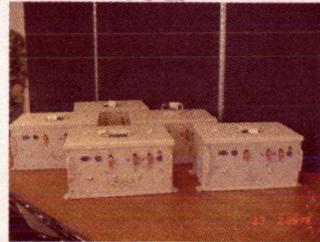
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SLAD Technical Synergies at WSMR

Signature Measurements



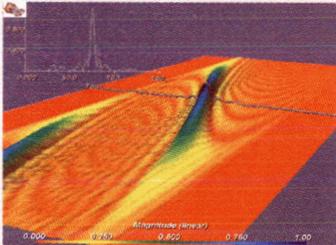
ICE



Electro-Magnetic Vulnerability Assessment Facility



EW Modeling and Simulation Nodes



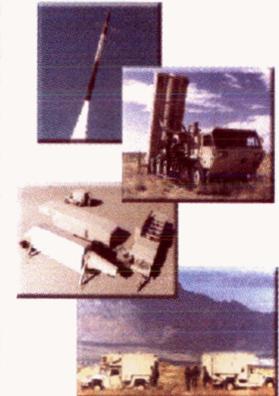
Electro-Optical Vulnerability Assessment Facility



June 24, 2005



Field support to T&E



Information Operations



Hardware-In-The-Loop



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Other Southwest Synergies



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Location Characteristics Supporting the SLAD EW/IW T&E Mission

WSMR, NM

Test range and existing T&E infrastructure provide “real-world laboratory” supporting EW/IW analysis mission

Capability for numerous systems testing (FCS, radars, missiles, etc.)

Instrumented to support SLAD-WSMR mission

Proximity to customers, stakeholders, and partners

Dedicated, unrestricted airspace

Unrestricted use of electromagnetic spectrum outdoors

No encroachment

Desert and mountainous terrain

2.2 million acres

APG, MD

Ballistic testing location does not support SLAD-WSMR mission

No such opportunities exist

No instrumentation supporting SLAD-WSMR mission

No surrounding test ranges, facilities, resources to leverage

Air space heavily restricted

Restricted use of electromagnetic spectrum

Surrounded by growth communities

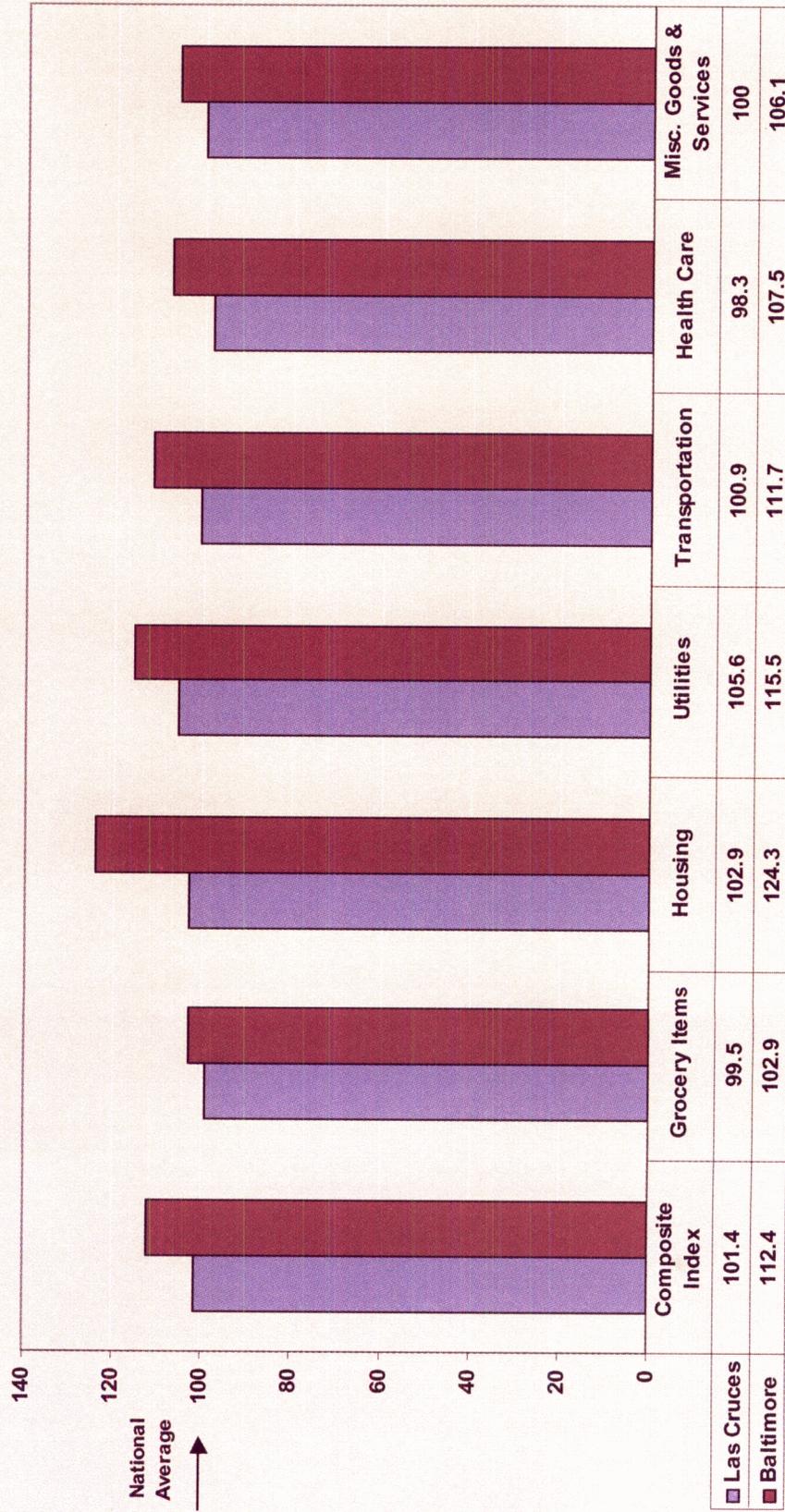
Wooded terrain

72,000 acres (26,000 are water)

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Community Assessment - Southern NM vs Maryland

ACCRA Cost of Living Index
1st Quarter 2005



Source: American Chambers of Commerce Research Association
Summarized by Mesilla Valley Economic Development Alliance