The Missile and Space Intelligence Center

Dr. Tom Richardson
Technical Director

MSIC History

Missile and Space Intelligence Center

1941 — *Redstone Arsenal Established*

1948 — *Designated as Rocket R&D Site*

1949 — *Ordnance Rocket Center Activated*

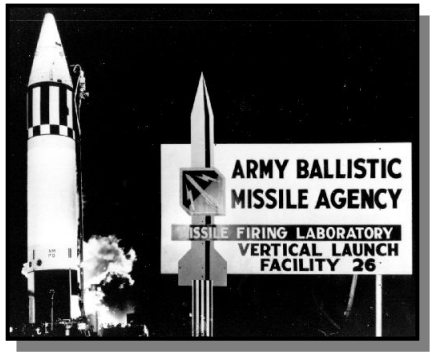
1956 — *Army Ballistic Missile Agency Established*

1960 — *U.S. Army R&D*

1985 — *U.S. Army Intelligence Agency (AIA)*

1991

1992 — *Defense Intelligence Agency (DIA)*



Mission

Ballistic Missile Systems

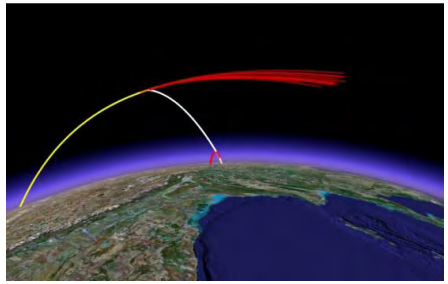
Provide our customers - Warfighters, Force Developers, Policy Makers, and Homeland Security – high-quality, responsive scientific and technical intelligence

Air and Missile Defense Systems

Command and Control Systems

Directed Energy Weapons

Anti –Tank Guided Missile Systems

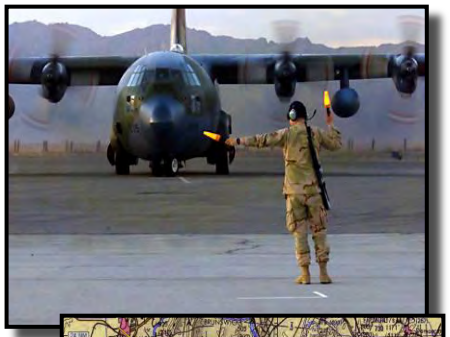


Anti –Satellite Systems

Customers

- War Fighters
- Weapon Developers
- Policy Makers
- Homeland Security






Air and Missile Defense Systems

160 Systems

Short-Range Ballistic Missiles

Pakistani
GHAURI

Russian SS-21

Russian SS-26

50 Systems

Chinese CSS-7

Russian SCUD-B

Ground-Based Directed Energy Weapons

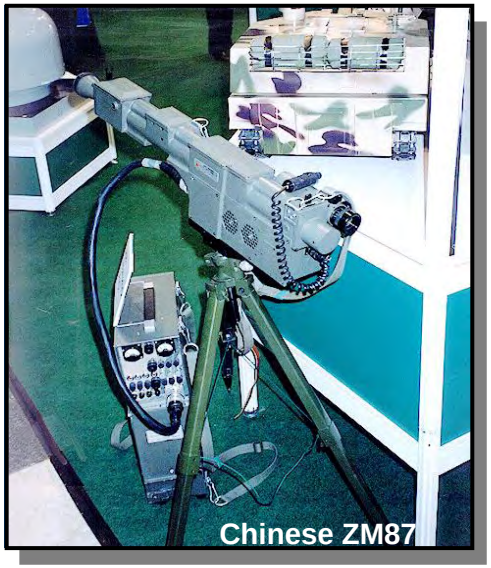
Russian RANETS-E


Russian Balkhash

30 Systems

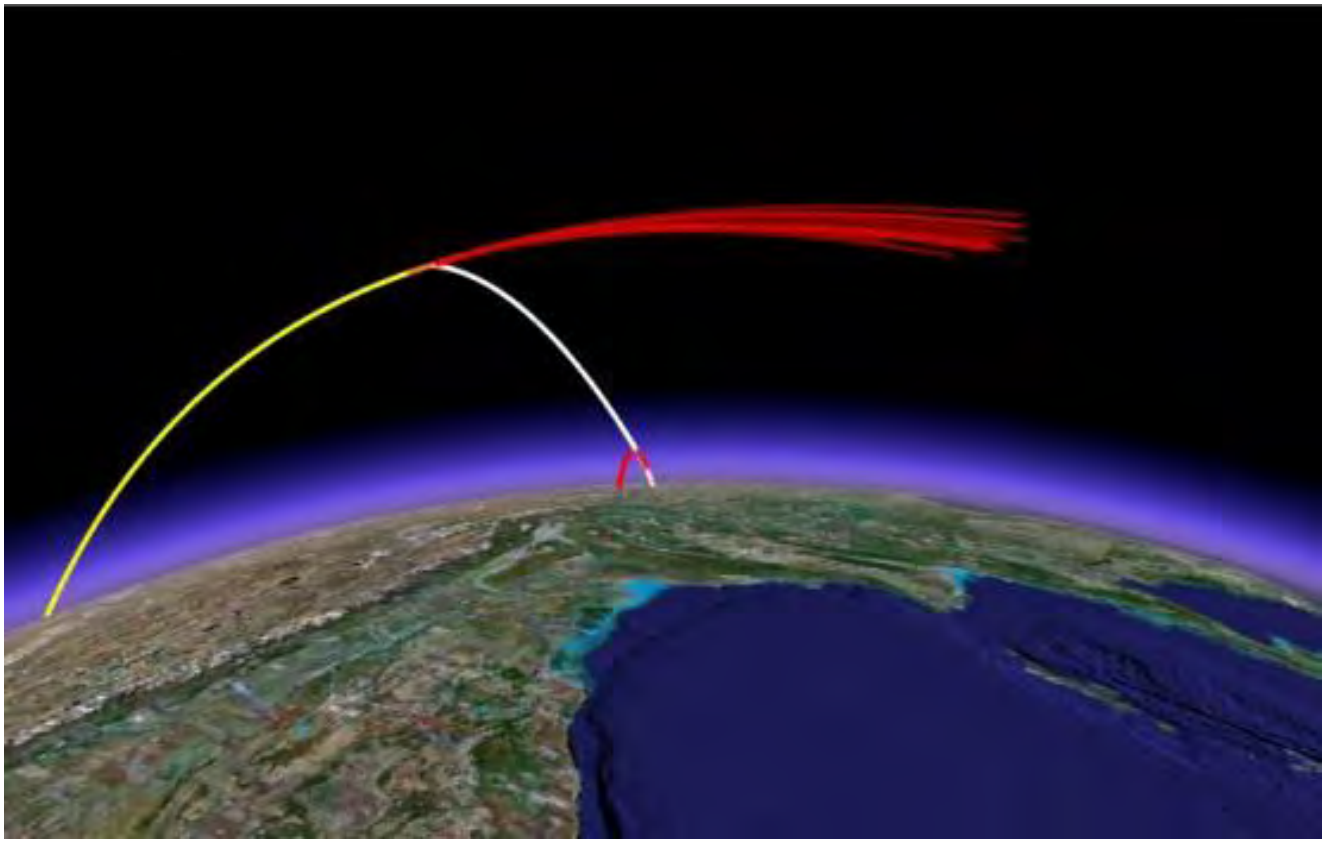

Russian MLC-3

Conceptual Commercial – Off the Shelf Laser Weapon


Chinese ZM87

Ground-Based Anti-Satellite Missiles

3 Systems



Anti-Tank Guided Missiles

Russian ShTURM-S

125 Systems

Russian KORNET

Chinese RED ARROW-8

South African INGWE

Command, Control, Communications and Computers (C^4)

30 Systems

Belarus RANGIR


Russian SENEZh


Russian SA-11 BCV


Russian GCP

MSIC Business Model

Intelligence Collection

- SIGINT
- FME
- HUMINT
- OSINT
- GEOINT
- MASINT

Weapon System Analysis

- Intelligence Data
- Engineering Practice
- Modeling and Simulation
- Physical Reality
- Analysts' Experience

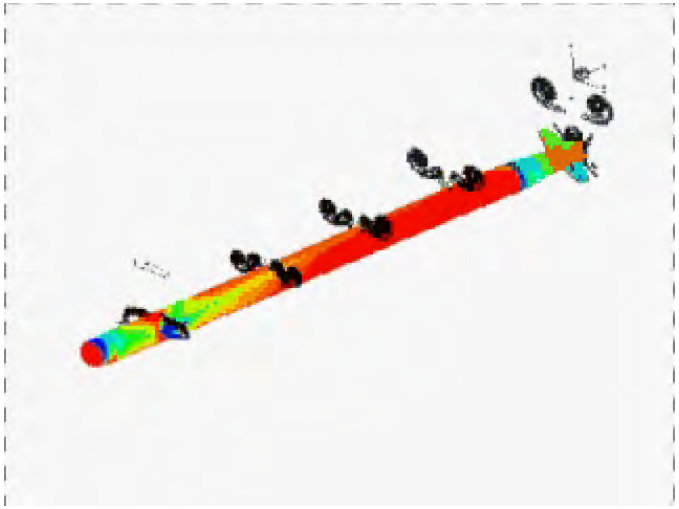
Assessments

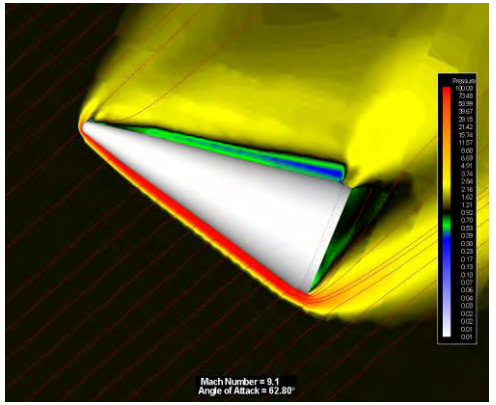
- Modeling and Simulation
- Experience
- Collaboration within the IC
- Determine weapon vulnerabilities

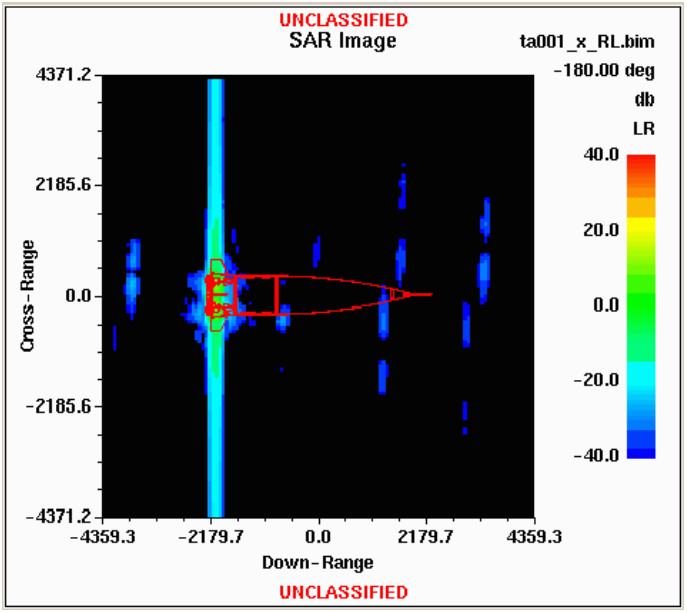
Customer Interaction

- Develop tactics and counter-rmeasures
- Develop policies

Computational Analysis





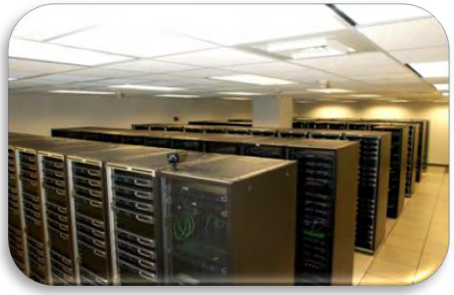


High Performance Computer System

- 933 Nodes
- 6024 Cores
- 22.9TB of Memory
- 88TB of Storage + 78TB B/U
- 54 Teraflops

Clusters

Reliable/Redundant Network



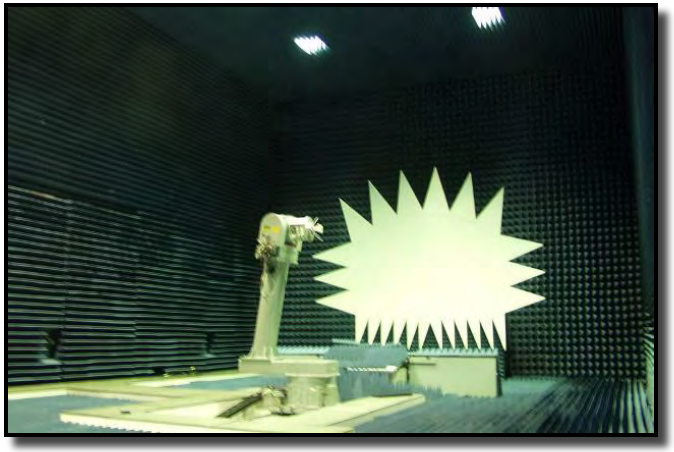
Massive
Data Storage

The HPCS has been used to perform over 330,000,000 weapon system simulation runs to support MSIC All-Source Weapon System Assessments

MSIC Laboratories

Electro Optical / Infrared Hardware

Joint Research Analysis and Assessment Center



Anechoic Chamber

Microelectronics

Materials

Guidance & Control

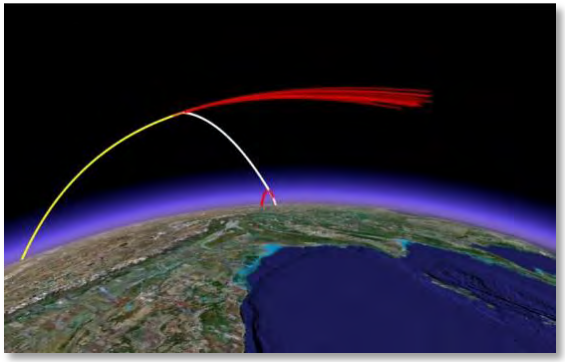
Radio Frequency Hardware

Current MSIC Focus

Terrorist threat from small missiles

Threat short-range ballistic missiles

Long-range SAMs that threaten US and allied air superiority



Anti-satellite weapons

MSIC Contracting

- **Large “Omnibus” Contracts**
- **Small Study Contracts**
- **Small Mission Support Contracts**

Upcoming Contracts

Contract	Value ($M)	Release Date	Type of RFP
Integrated System Production and JRAAC Support	$78	Feb 2012	Full and Open Competition
Laboratory Operations and Support	$35	Feb 2013	Full and Open Competition
Offensive Missile System Analysis and Support	$63	June 2013	Full and Open Competition
Defensive Systems Analysis	$89	Sept 2013	Full and Open Competition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