

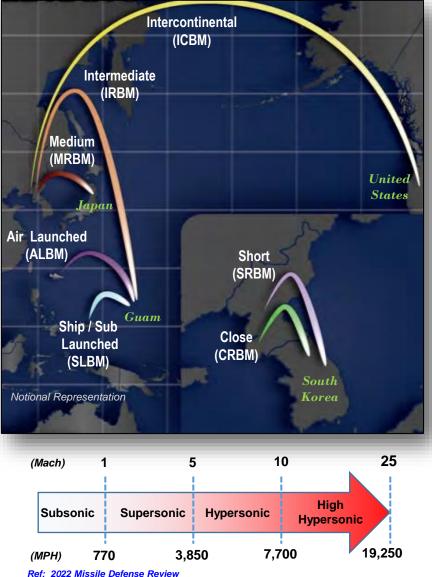
## NDIA Small Business Innovation Summit

Missile Defense Agency (MDA) SBIR/STTR Program

Presented by: Ms. Candace Wright SBIR/STTR Business Operations Manager, MDA

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## Evolving Threat Environment Missile Defense



#### New missiles & existing system improvements

- Precision strike
- Decoys and jammers

Maneuvering in midcourse or terminal phase

- Depressed Ballistic Trajectories
- Multiple Independent Reentry Vehicle (MIRV)
- Maneuvering Reentry Vehicle (MaRV)
- Global Hypersonic Glide Vehicles (HGV)
- Long Range Hypersonic Cruise Missiles (HCM)

Integrated ballistic, hypersonic, air, cruise missile, unmanned and non-kinetic attacks

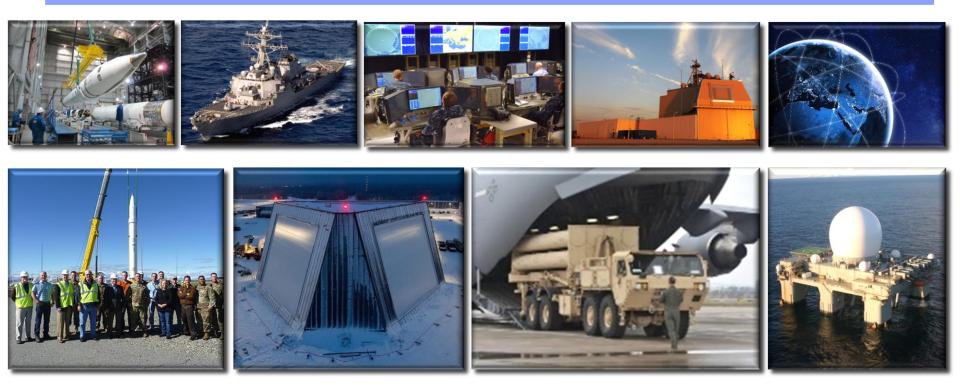


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#### Mission Missile Defense Agency

To develop and deploy a layered, Missile Defense System to defend the United States, its deployed forces, allies, and friends from missile attacks in all phases of flight





### **The Missile Defense Agency**

# WARFIGHTER CAPABILITIES





#### PRODUCTION, FIELDING & DEPLOYMENT

#### TECHNOLOGY, DEVELOPMENT & TEST

Delivering Capabilities by, with and through the Services to meet Combatant Command Requirements

STELLAR TEAM NOBLE MISSION

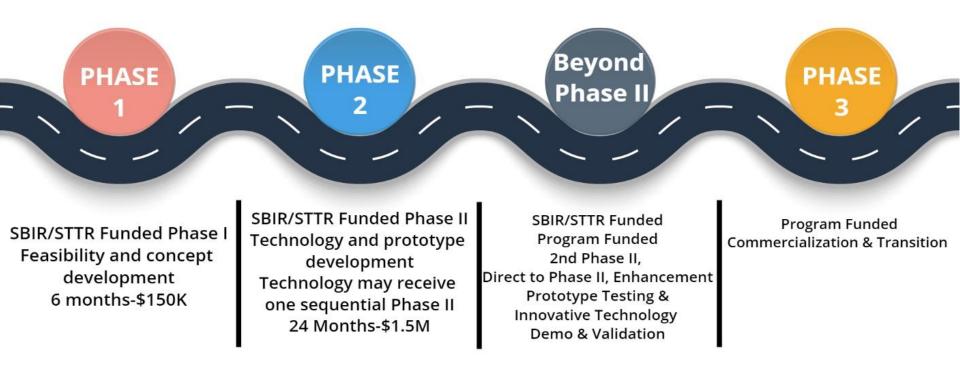


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### **SBIR/STTR Process**







## **SBIR/STTR Research Areas**

#### **Research Area**

#### **Research Interests**



Innovative Ejector Launch System, Standard Missile 3 (SM-3) Materials Design Improvements

**Artificial Intelligence applied to Battle Management** 

**Radar Systems Technology** 

**Bare Metal Hypervisor and Anti-Tamper Protections** 

Advanced Supercapacitors Based on Novel Low-cost Biocarbon Materials

Modeling and testing of materials for Lethality Assessments

**RadHard Parts, Testing of Nuclear Survivability** 

Aerodynamic Controls for Hypersonic Vehicles, hypersonic vehicle modeling, upper stage motors

Simulation



## **SBIR/STTR Research Areas**

Research Area	Research Interests
Ground Based Midcourse Defense	
Targets & Countermeasures	Sensors and In-flight Communications
THAAD	Antennas, and Hypersonic Control Surfaces, Thermal Batteries
Test Instrumentation	Optics testing
Technology Maturation	Hypersonics, propulsion, advanced materials,
Sensors & Directed Energy	Fiber laser modeling and performance
Quality, Safety & Mission Assurance	Transparent SiC windows, Igniter Systems for Solid Rocket Motors
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## MDA SBIR/STTR Technology Alignment

## MDA SBIR/STTR Program aligns technology innovation to:



"We must continue to invest in advanced capabilities, and we must continue to instill a culture throughout DoD that embraces rapid experimentation and implementation. To accomplish this goal we must draw upon America's incredibly vibrant innovation ecosystem-as we have for generations."

### - Deputy Secretary of Defense Kathleen H. Hicks



**Contact Information** 

#### www.mda.mil

Missile Defense News, Images, Videos, Fact Sheets MDS Overview, MDS Basics MDA Business Opportunities https://www.mda.mil/advanced\_research.html

SBA SBIR/STTR website: https://www.sbir.gov

## **To Contact MDA SBIR/STTR**

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