

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

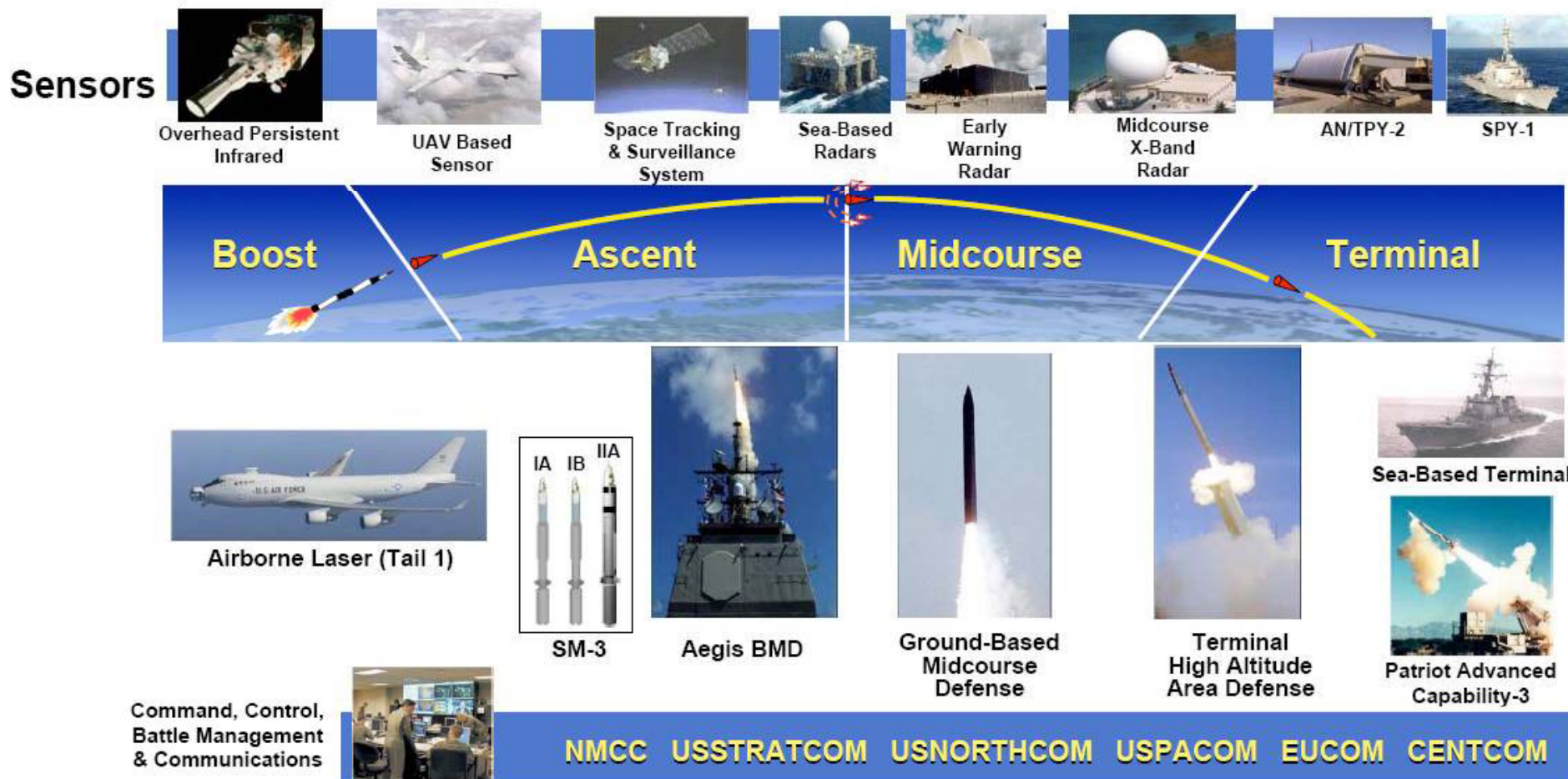


**Missile Defense Agency
Small Business Innovative Research (SBIR) /
Small Business Technology Transfer (STTR)**

Dr. Kip Kendrick
Deputy Director Advanced Technology
Missile Defense Agency
1 July 09

Approved for Public Release
09-MDA-4649 (25 JUN 09)

Integrated Ballistic Missile Defense System



PB10 Sustains Midcourse Defense (ICBMs) While Emphasizing Terminal (SRBMS And Efficient And Operationally – Effective Early Intercepts (MRBMs, IRBMs)



Missile Defense FY '10 Budget Request



- ◆ BMDs Strategic Objective: Develop and field a balanced integrated architecture that will counter existing threats, and over time, provide more cost-effective operational ability, and agile enough to protect against uncertain threats of the future.
- ◆ There is increased emphasis on the near-term development and fielding of capabilities against short- and medium-range ballistic missile threats to enhance the protection for deployed forces and allies.
- ◆ Strategic goals focus on far-term program development, enhanced testing, modeling, and simulation programs for all ranges of threats and development of an ascent phase intercept capability.



Strategic Technology Portfolios



- ◆ The MDA Advanced Technology near-term focus is to develop new innovative concepts and technologies that can be applied to achieve early intercept capability and to stay ahead of the threat, improve system performance, and lower life-cycle costs.

- ◆ Advanced Technology projects are managed among five Strategic Technology Portfolios
 - Persistent Sensor Coverage
 - Pervasive Weapons Coverage
 - Global Battle Management
 - Effective Targeting
 - Effectiveness in Adverse Environments



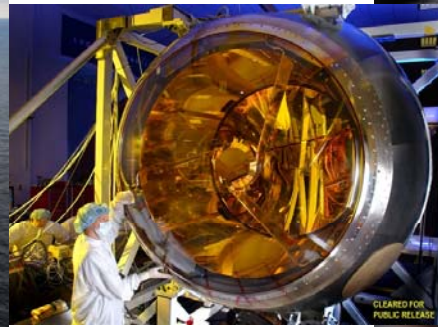
SBIR/STTR 09.3 / 09.B



MDA's SBIR and STTR Topics will be pre-released July 27th, 2009.

Research Areas:

- ◆ C2BMC
- ◆ Directed Energy
- ◆ Interceptor Technology
- ◆ Manufacturing, Producibility & Field Sustainability
- ◆ Modeling & Simulation
- ◆ Radar
- ◆ Space Technology



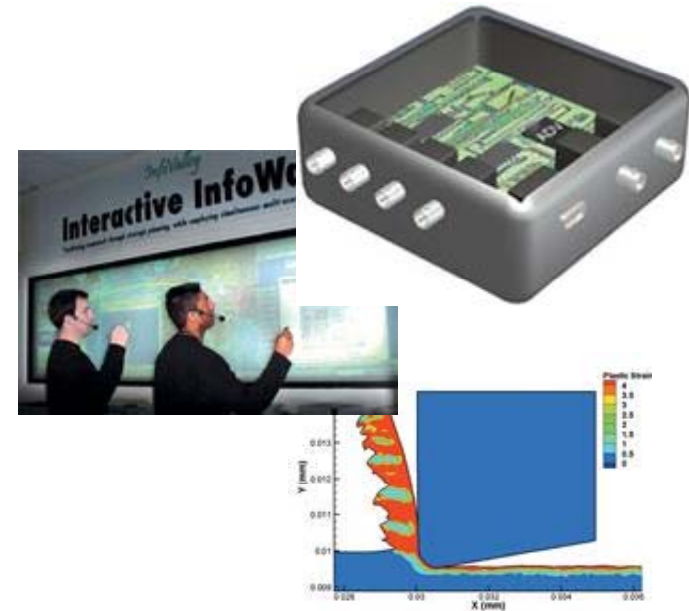
Approved for Public Release
09-MDA-4649 (25 JUN 09)



C2BMC



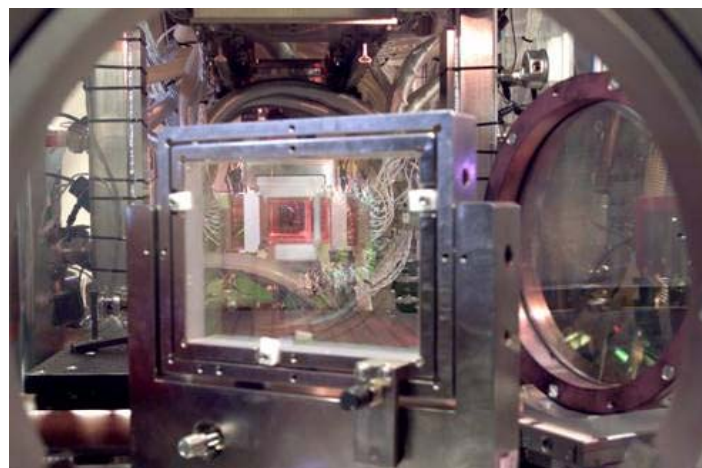
Research Area funds technological innovations related to supporting Command, Control, Battle Management, and Communications (C2BMC). As such, C2BMC is the integrating element of the BMDS.





Directed Energy

The ultimate Directed Energy Research Area technical objective is to take innovative technology developed by dynamic small businesses and insert the technology into air and ground weapon systems for integration into the Ballistic Missile Defense community.

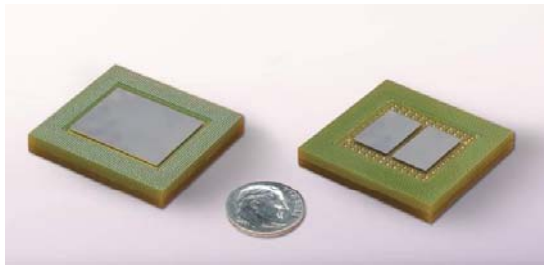




Interceptor Technology



Funds innovative technologies that have the potential to increase the capabilities and effectiveness of future or present interceptors for the BMDS (Ballistic Missile Defense System).





Manufacturing, Producibility & Field Sustainability



The Manufacturing, Producibility & Field Sustainability Research Area focuses on innovative technologies for manufacturing, assembly, and production at all levels of the BMDS Supply Chain.

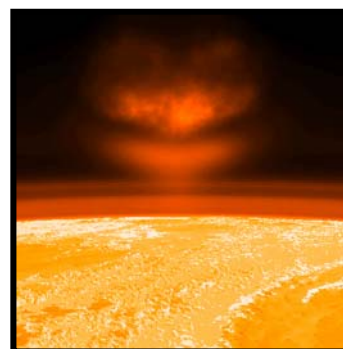
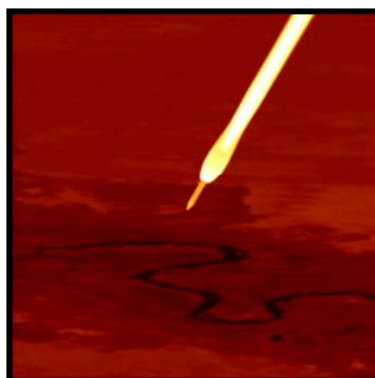
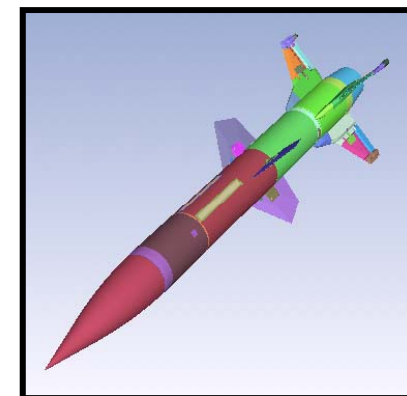
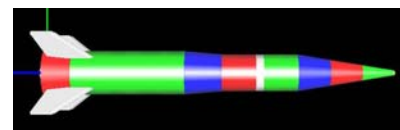
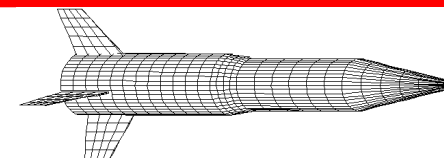




Modeling and Simulation (M&S)



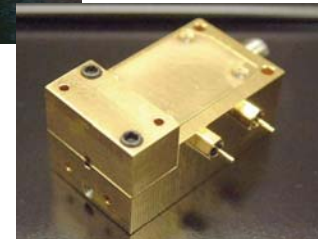
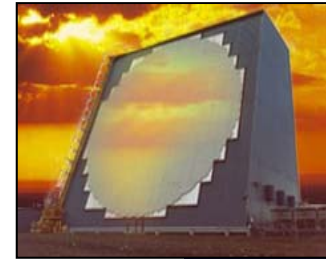
The Modeling, Simulation and Research Area funds technological innovations in Modeling & Simulation to support development and testing of the BMDS.





Radar Systems

The Radar Research Area focuses on innovative and/or enhanced technology development or "game changing" technology that improves radar functionality, packaging and/or affordability.

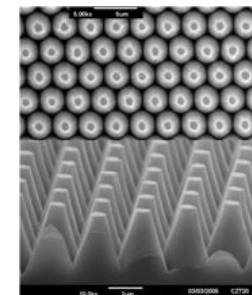
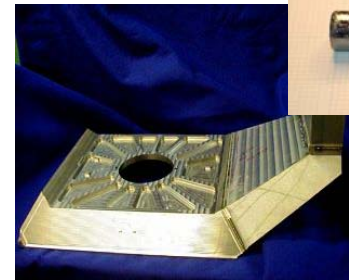




Space Technology

Enables or improves the BMDS Elements in the long-term orbital environment. Its primary focus is on Precision Tracking Satellite System, but it supports the mid- and far-term needs of other Elements as well. Most work is hardware related. All innovations must be able to survive and operate in orbit, which means:

- ◆ Tougher natural radiation environment (and potential enhancement by man-made threats)
- ◆ Absence of atmosphere, and
- ◆ Micro-gravity





SBIR Industrial Partnership Days



Purpose: To provide Small Businesses with a “one-stop-shopping” opportunity to learn as much as they can about the MDA SBIR/STTR Program

Description/Approach: To allow Small Businesses the opportunity to obtain a better understanding of current and future BMDS requirements as solicited through the MDA SBIR/STTR Program

- ◆ One-on-one sessions available with key MDA Technical Representatives and industry personnel
- ◆ Overview presentations are offered from key MDA Technology Leaders

Benefit:

- ◆ Leveraged IR&D (Internal Research & Development) funds through the prime contractor
- ◆ Business relationships between the prime and sub-tier contractors, and
- ◆ Mentor/protégé relationships essential for fledgling small business



August 11 – 12, 2009 in Long Beach, CA



Summary



- ◆ **FY '10 MDA emphasis areas**
 - Early Intercept
 - Defense of deployed forces and allies
 - Modeling and simulation capability
- ◆ **Goal for all SBIR/STTR projects to support one of the five strategic technology portfolios**
- ◆ **SBIR and STTR Topics will be pre-released July 27th, 2009.**
- ◆ **Website: www.winmda.com**



The MDA SBIR/STTR Program



QUESTIONS?