

26th Space and Missile Defense Symposium

"Quarter Century of Missile Defense Collaboration and Teamwork"

Major General Heath A. Collins Program Executive for Ground-based Weapon Systems

> Missile Defense Agency 10 August 2023

> > Approved for Public Release 23-MDA-11545 (2 Aug 23)

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

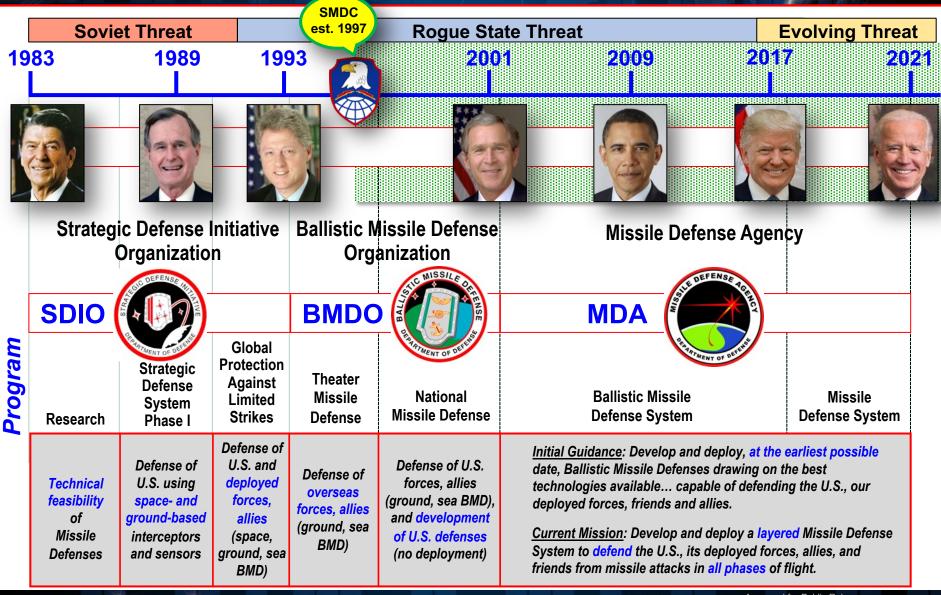


Missile Defense Agency Video



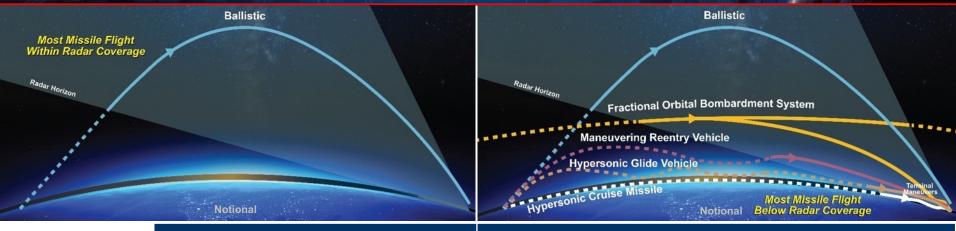
MDA Origins

Teamwork with Services & Warfighters for Quarter Century



3

Missile Defense Then and Now Unprecedented Threat Evolution



	20 Years Ago	Today
Missiles	Ballistic	Ballistic, Maneuvering Ballistic, Hypersonic Glide, Cruise
Ranges	Short to Intercontinental	Short to Intercontinental to Global
Launch Points	Ground	Ground, <mark>Ship, Sub, Air</mark>
Countermeasures	Simple	Simple to Sophisticated
Targets	Homeland: Western U.S. Regional: Allies, Ports, Bases, Airfields	Homeland:Entire U.S.Regional:Allies, Ports, Bases, AirfieldsMobile Forces:Ships, Armies, Logistics
Raid Sizes	Moderate, single missile type	Large, multiple missile types
Trajectories	Ballistic	Ballistic, Maneuvering, Lofted and Depressed Flight Paths





Homeland Missile Defense

Strong Partnership & Teamwork with Services & Warfighters



Near Term Missile Defense Capabilities



Hypersonic and Ballistic Tracking Space Sensor (HBTSS) Launch



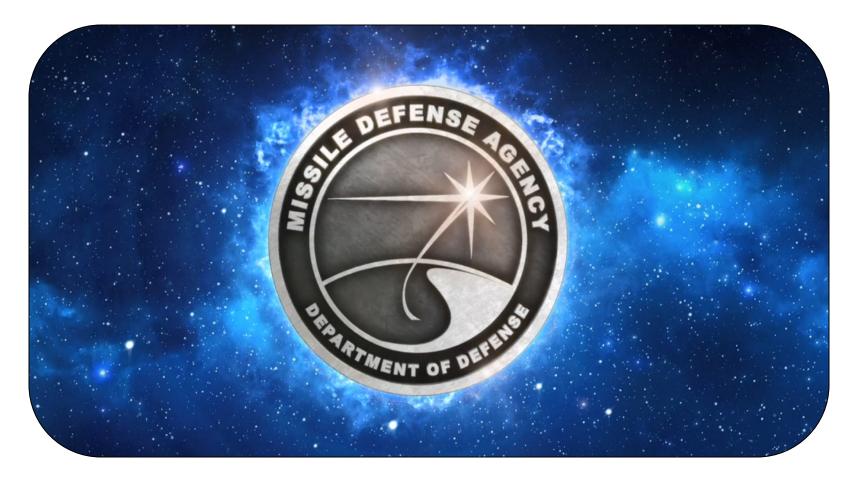
Long Range Discrimination Radar (LRDR)



Aegis Ashore Poland



Missile Defense Agency Video



Hypersonic & Ballistic Tracking Space Sensor (HBTSS) Satellites

(2 mins 40 secs / Sound & Narration)



Missile Defense Agency Video

STELLAR TEAM NOBLE MISSION

9

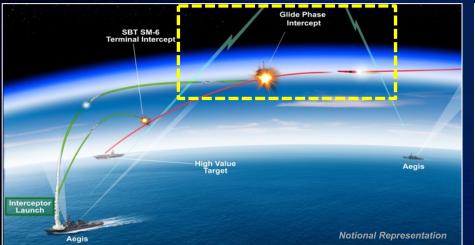
Future Missile Defense Capabilities



Next Generation Interceptor (NGI)



Defense of Guam



Glide Phase Interceptor (GPI)



Augment Kinetic Kill with Directed Energy

STELLAR TEAM NOBLE MISSION



International Cooperation

<u>Asia / Pacific</u>

- Missile Defense for Japan
- THAAD deployment to ROK
- Joint Analysis Activities
- Science & Technology Efforts
- Pacific Dragon Exercises

Europe

- NATO BMD
- European Phased Adaptive Approach (EPAA) Phase 3, including Aegis Ashore sites
- Joint Analysis Activities
- Science & Technology Efforts

Middle East

- UAE and Kingdom of Saudi Arabia THAAD FMS Execution
- Israeli Cooperative Missile
 Defense Programs
- Regional interest in early warning capabilities



STELLAR TEAM NOBLE MISSION



Ground-based Midcourse Defense

Sensors

C2BMC Support to Combatant Commands

Missile Defense Enterprise is Strong!

Aegis BMD At-Sea

Terminal High Altitude Area Defense

Aegis Ashore

Approved for Public Release 23-MDA-11545 (2 Aug 23)

