



THAAD Overview



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Today's Ballistic Missile Defense System

SENSORS



Satellite Surveillance

Forward-Based Radar

Sea-Based X-Band Radar



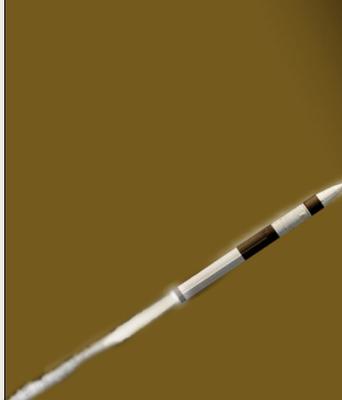
Aegis BMD SPY-1 Radar



Early Warning Radar



ASCENT DEFENSE SEGMENT



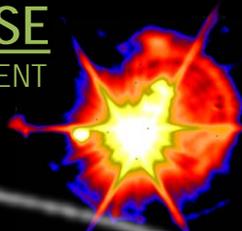
Aegis Ballistic Missile Defense Standard Missile-3



SM-3



MIDCOURSE DEFENSE SEGMENT



Ground-Based Midcourse Defense



GBI

PATRIOT Advanced Capability-3



TERMINAL DEFENSE SEGMENT

Sea-Based Terminal



Terminal High Altitude Area Defense



BMDS

The Ballistic Missile Defense System



C2BMC

Command, Control, Battle Management and Communications

NMCC

USSTRATCOM

USNORTHCOM

USPACOM

USEUCOM

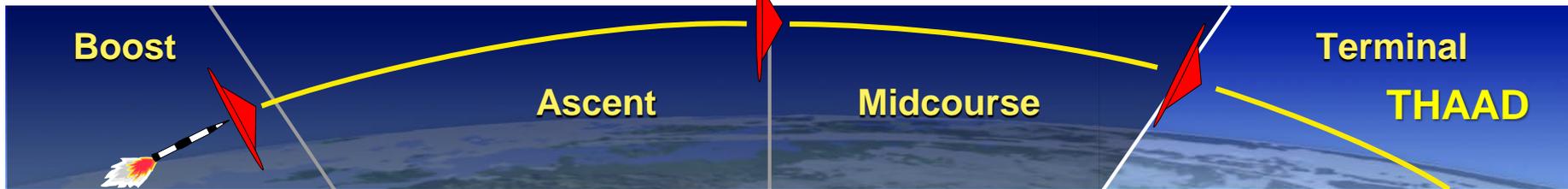
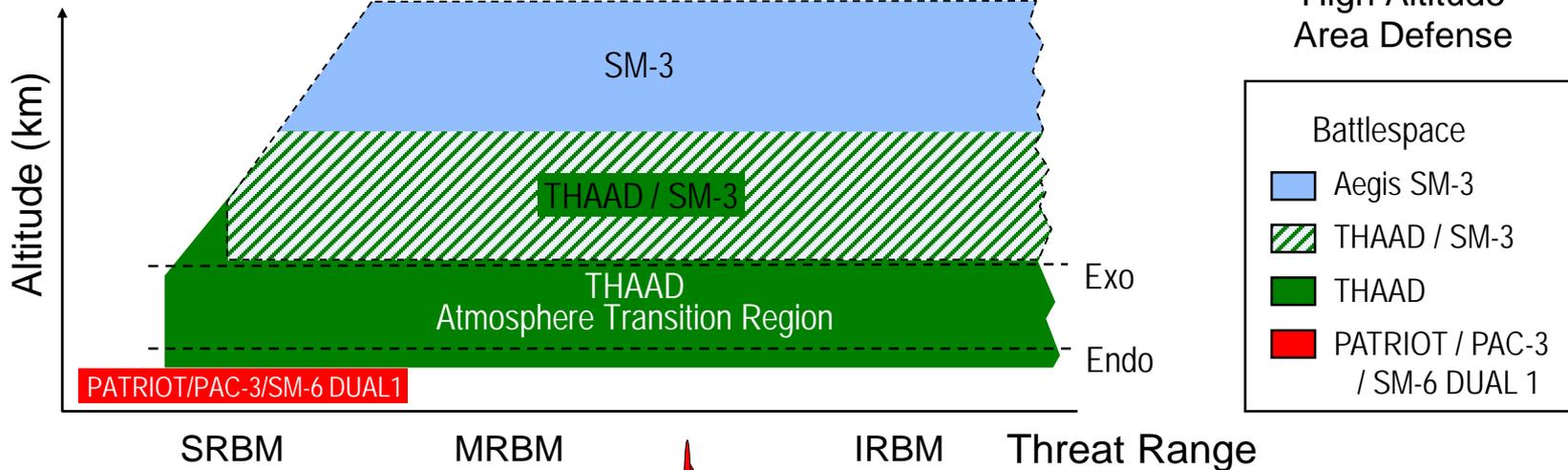
USCENTCOM



THAAD Contribution to the BMDS

Provide Combatant Commanders a globally-transportable, rapidly-deployable capability to intercept and destroy short-range, medium-range, and limited intermediate-range ballistic missile threats inside or outside the atmosphere during terminal phase of flight.

THAAD Unique Battlespace



THAAD Fills the Gap Between Low-Exo and High-Endo with High Pk



THAAD Mission and Capabilities Overview

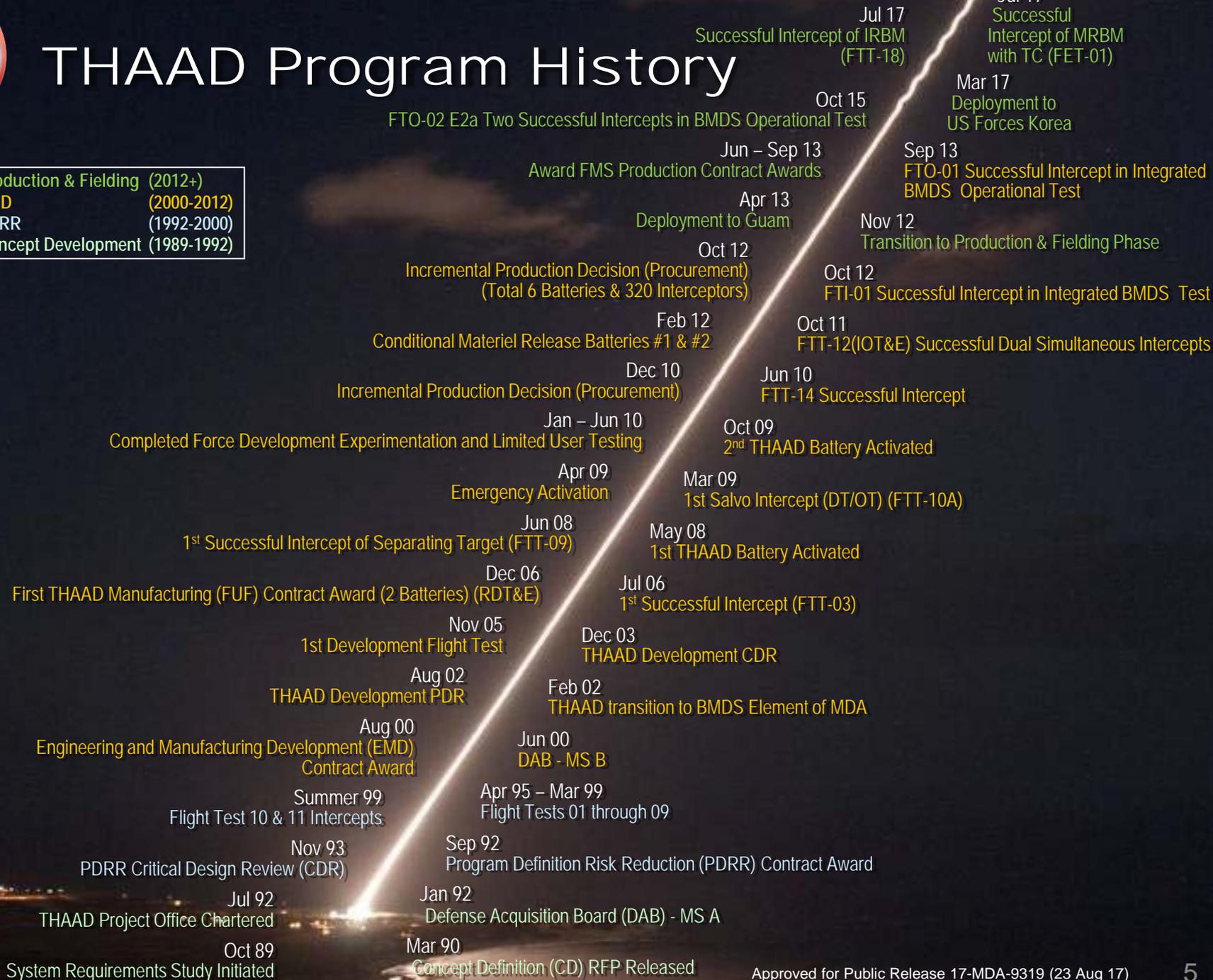
- **Defends against short-, medium- and limited intermediate-range ballistic missiles**
- **High firepower and sustainability for resistance to mass attack**
- **Both endo and exoatmospheric intercept capability**
- **High lethality with proven hit-to-kill**
- **Interoperable with other Ballistic Missile Defense (BMD) Systems**
- **Dedicated to BMD missions – positioned to counter prevailing threat**
- **High single-shot kill probability provides cost effectiveness**

THAAD Provides Unique and Cost-Effective Capabilities for Critical Ballistic Missile Defense Missions



THAAD Program History

Production & Fielding (2012+)
EMD (2000-2012)
PDRR (1992-2000)
Concept Development (1989-1992)





THAAD Element Description

Four Major Components



Highly Mobile and Deployable Worldwide

Fire Control and Communications



- Plans and controls all engagements
- BMDS interoperability
- Operational flexibility
- Robust communication capabilities

AN/TPY-2 Radar



- Extensive coverage
- Sized for volume threat
- Radar updates interceptors

Launcher



- 8 interceptors per launcher
- Up to 9 launchers per Battery
- 30 minute reload

Interceptor



- Endo/exo capability
- Single-stage, solid-propellant booster
- Aimpoint designation
- High single-shot Pk



THAAD (Upper Tier) and Patriot (Lower Tier) Interoperability and Integration



THAAD and Patriot share data:

- ...to improve individual weapon systems situationally awareness and performance
- ...to enhance engagements for more efficient use of interceptor inventory against current threats
- THAAD and Patriot are continuing development to improve interoperability and integration for improved performance against current and emerging threats

*Integrated Missile Defense Improves
Performance and Effective Use of Resources*



THAAD Test Program



- Testing in all areas of the battlespace
- Against a variety of threat representative targets
- Flight tests conducted by U.S. Army Soldiers and MDA
- Increasingly complex missions
- Realistic scenarios prove THAAD's operational capability
- 15 of 15 successful flight tests for the THAAD Weapon System



FTT-18 – 11 July 2017



FET-01 – 30 July 2017

100% Mission Success in Flight Testing



THAAD International



The THAAD Weapon System is a highly sought after capability and as a result, the United States continues to gain interest from our Foreign Partners for Foreign Military Sales activities





Be on the lookout!



Terminal High Altitude Area Defense (THAAD) *Product Support*

Request for Information (RFI) will be forthcoming on FEDBIZOPPS.

Requirement areas will likely be

Product Support Management

Supply Support

Design Interface

Technical Data

Support Equipment

Manpower and Personnel

Maintenance Planning and Management

**Packaging, Handling, Storage, and
Transportation (PHS&T)**

Sustaining Engineering

Computer Resources

Training and Training Support

Facilities and Infrastructure





THAAD Program Summary

- **Interoperable within Ballistic Missile Defense System architecture**
- **100% Mission Success in flight testing**
- **U.S. Army Soldiers immersed in all program activities**
- **In production**
- **First Foreign Military Sale in process**

Capability Delivered to the Warfighter

