Phased Adaptive Approach Overview For The Atlantic Council

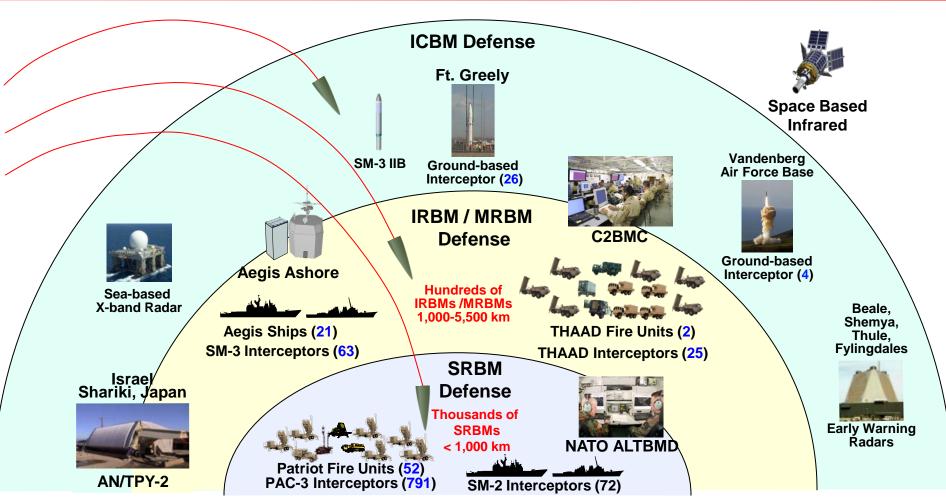


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Layered Ballistic Missile Defense



SRBM = Short Range Ballistic Missiles
MRBM = Medium Range Ballistic Missiles
IRBM = Intermediate Range Ballistic Missiles
ICBM= Intercontinental Ballistic Missiles



Phased Adaptive Approach For Europe

Phase 1 (By 2011)

Initial capability against SRBMs, MRBMs, and IRBMs



Aegis BMD 3.6.1 with SM-3 IA



AN/TPY-2 (FBM)



C2BMC AOC Ramstein

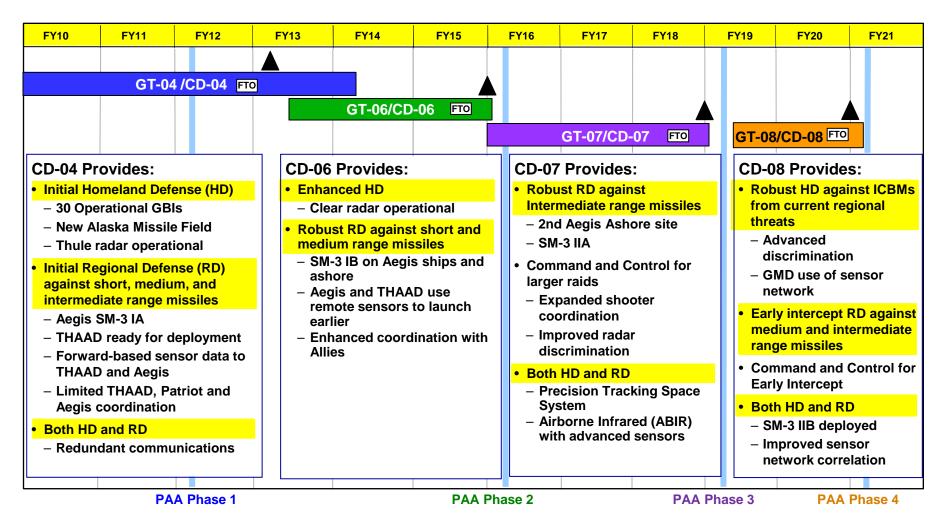








Missile Defense Capability Development And Integration



GT = Ground Test

CD = Capability Delivery

FTO = Flight Test Operational



PAA Phase 1

Initial Capability Against SRBMs and MRBMs –

Aegis BMD

FY10 - 2 Aegis BMD ships converted and 23 SM-3 Block IAs delivered

FY11 - 19 SM-3 Block IA deliveries

- SM-3 Block IA intercept of IRBM using AN/TYP-2 radar data

THAAD

FY10 - Battery 1 manned and trained; Battery 2 delivered

- Batteries 3 and 4 production started
- Intercept of lowest altitude SRBM

FY11 - Army release for fielding

- Intercept of separating SRBM
- Simultaneous intercept of MRBM and SRBM

Sensors

FY10 – Accelerated AN/TPY-2 radar refurbishment for deployment

C2BMC

FY10 – Verified ability to manage multiple sensors

FY11 - Upgrade command and control at EUCOM

Combatant Commander Support

FY10 and FY11 – U.S. and NATO war games, exercises and technical support for CONPLANS

Homeland Defense

FY10 – Thule Upgraded Early Warning Radar

FY11 - AN/TPY-2 forward-based sensor to South East Europe



(Aegis BMD 3.6.1 with SM-3 IA









PAA Phase 2

Enhanced Systems Against SRBMs and MRBMs –

Aegis BMD

- U.S. simulated intercept of 3 SRBMs / 1 separating **FY10**
 - Pacific Missile Test Range (PMRF) Environmental **Assessment**
 - Contract for Aegis Ashore
 - FY11 Aegis Ashore Deckhouse concept design
 - SM-3 Block IB intercept of MRBM

THAAD

FY10 – THAAD interoperability with PATRIOT and AEGIS

C2BMC

- FY10 Design software for improved battle management / early intercept
- FY11 Contract for PMRF Aegis Ashore communications equipment

Homeland Defense

- FY10 CLEAR Upgraded Early Warning Radar planning summit
- FY11 Initiate CLEAR radar upgrade design



Aegis Ashore



Aegis BMD 4.0.1 with SM-3 IB





PAA Phase 3

Robust Defense Against IRBMs -

Aegis BMD

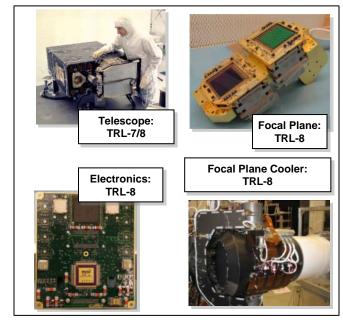
FY11 – Aegis 5.0.1 software modification for greater raid size

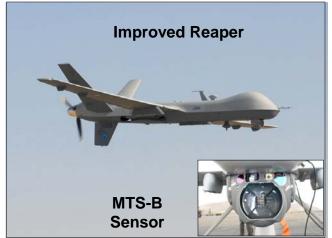
Sensors

- FY10 Airborne infrared sensor Analysis of Alternatives
 - Airborne infrared real time image processing
 - Space Tracking and Surveillance System satellite in flight tests
 - Precision Tracking Space System Concept
- FY11 Source Selection for participation of 5 PTSS contractors

C2BMC

- FY10 Design software to handle large raid sizes
- FY11 Demonstrate live Enhanced C2BMC tracks





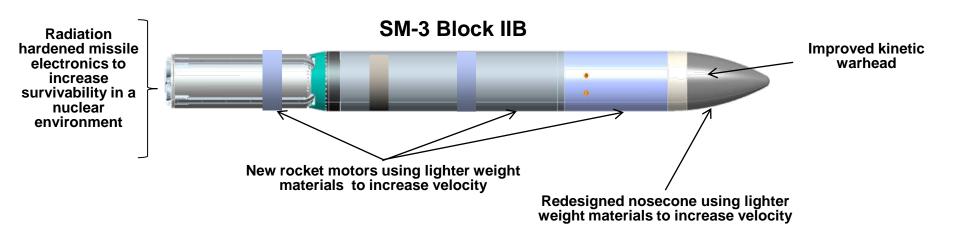
DEFENSE TO BETTER

PAA Phase 4

Early Intercept Capability And Capability Against Potential ICBM
 Threat As A Secondary Mission –

Capability Development

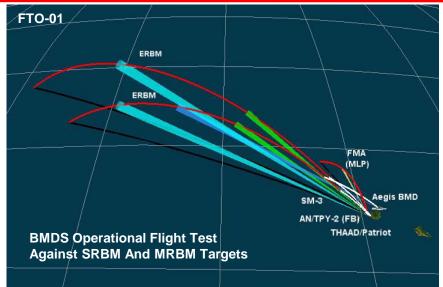
- FY10 Contract preparation for SM-3 Block IIB definition / program planning
 - SM-3 Block IIB System Concept
 - USN-MDA feasibility assessment MK 41 Vertical Launcher System for SM3 IIB
- FY11 Competitively award 3 SM-3 Block IIB concept definition / planning contracts
 - Award contracts to multiple vendors to increase maturity of critical SM-3 Block IIB components

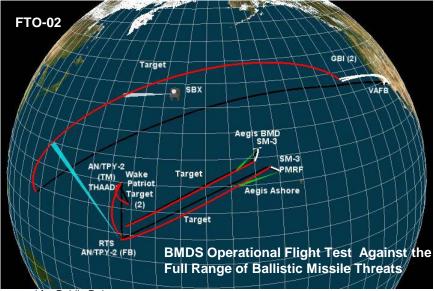




Operational Flight Tests

- FTO-01 And FTO-02 -





FTO-01 (FY12)

- Targets
 - 2 MRBMs
 - 1 SRBM
- Cuing Sensor AN/TPY-2 (FB)
- Weapon Systems
 - Aegis BMD
 - THAAD
 - Patriot

FTO-02 (FY15)

- Targets
 - 1 SRBM 1 MRBM
 - 2 IRBMs 1 ICBM
- Cuing Sensor AN/TPY-2 (FB)
- Weapon Systems
 - GMD
 - Aegis Ashore / Aegis BMD
 - THAAD
 - Patriot

