Evolutionary Acquisition Promotes Rapid Technology Transfer



21 AUG 07

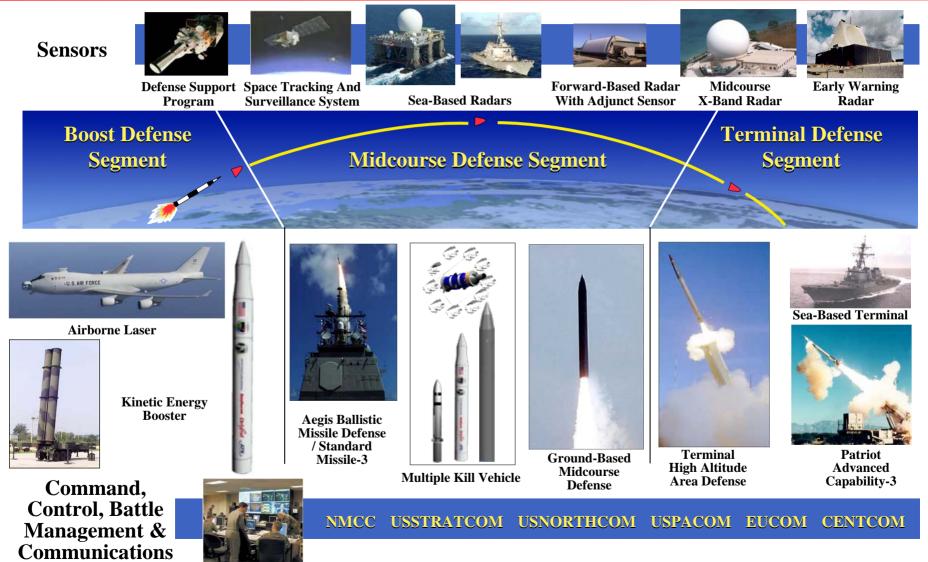
Ms. Katrina Wahl Deputy for Acquisition Management Missile Defense Agency

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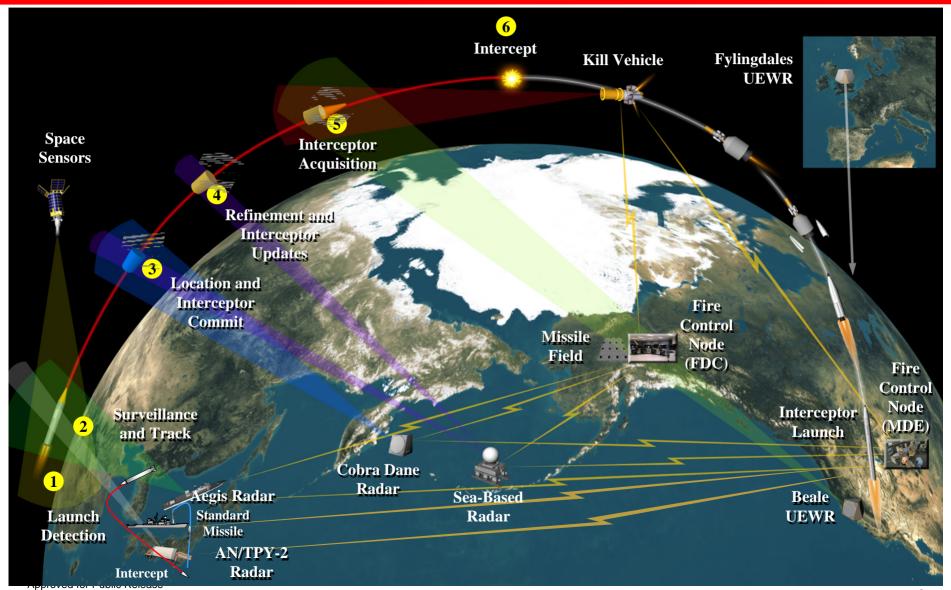
Integrated Ballistic Missile Defense System



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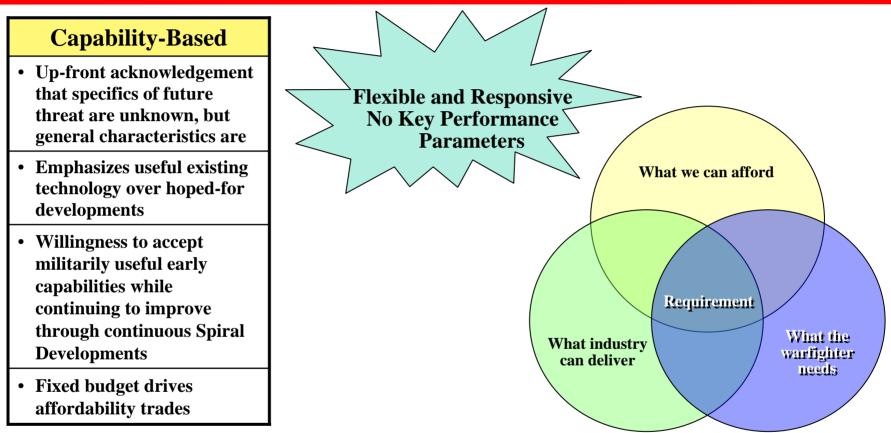
SUL DEFENSE TOP OF TOP

An Integrated Approach To Ballistic Missile Defense





MDA Capability-Based Acquisition

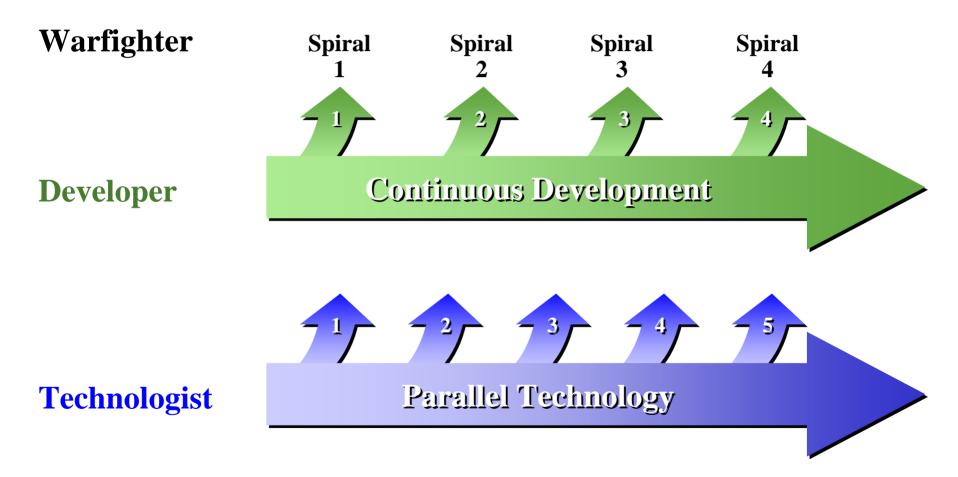


Management by Knowledge Points

- Knowledge Points: Events which demonstrate critical technologies or capabilities at component and system levels
- Data from Knowledge Points drive key decisions



Continuous Spiral Development





- Robust technology investment
 - Aimed at filling gaps
 - Carried to higher maturity level (TRL 6 or 7) before entering development
 - Solid strategy for transition to development
- Spiral development
 - Event-based improvements
 - Open architectures, modular designs
 - Low risk and short developments
- Demands stronger Government skills
 - Assessing technical maturity and risk
 - Proposal cost and schedule realism
 - Life cycle cost estimating



- Leveraging technology breakthroughs increasing system capability
 - Seeking best technical and operation concept solutions from Defense, industry and academic sources
 - Solutions to improve integrated capability and availability
 - Solutions to reduce cost and improve return on investment
 - Solutions to accelerate Technology Transition on the Ballistic Missile Defense System



- SBIR program and Technology Transition key to future system capability
 - Technology Transition success is not only product insertion
 - Broaden focus is include
 - Transition of knowledge
 - Transition of understanding
 - Capturing all forms of Technology Transition improves SBIR success and system capability
 - Technology Transition synchronized with system spiral development and the Block construct can be an ideal approach to planning for incremental improvements in capability
- Building collaborative Technology Transition working relationships
 - MDA Knowledge Centers, Research Area Leads, SBIR Program Office, Advance Technology, System Engineering, and industry
 - Teaming to prioritize promising technology
 - Teaming to implement ideas for advancing technology beyond TRL 5, and expediting Technology Transition



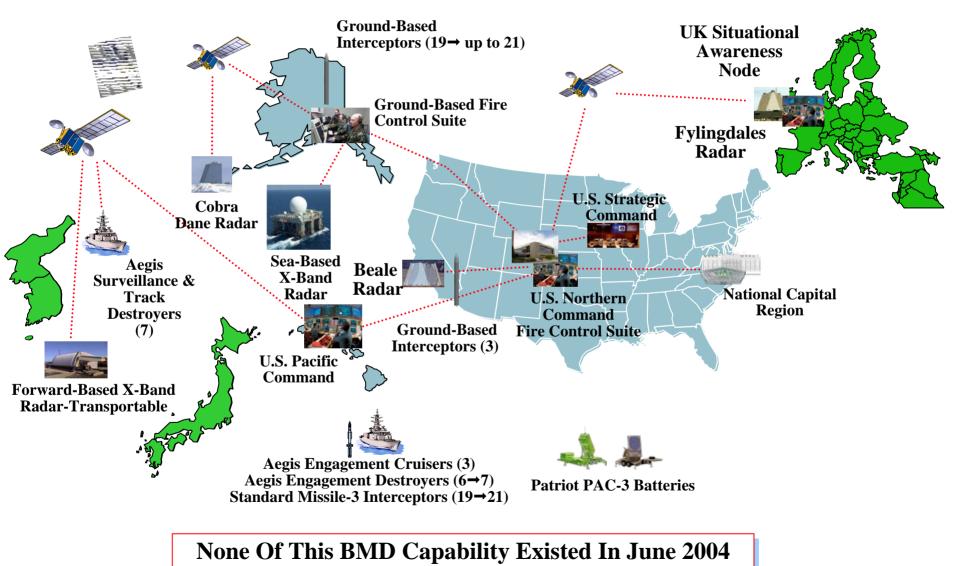


BACKUP

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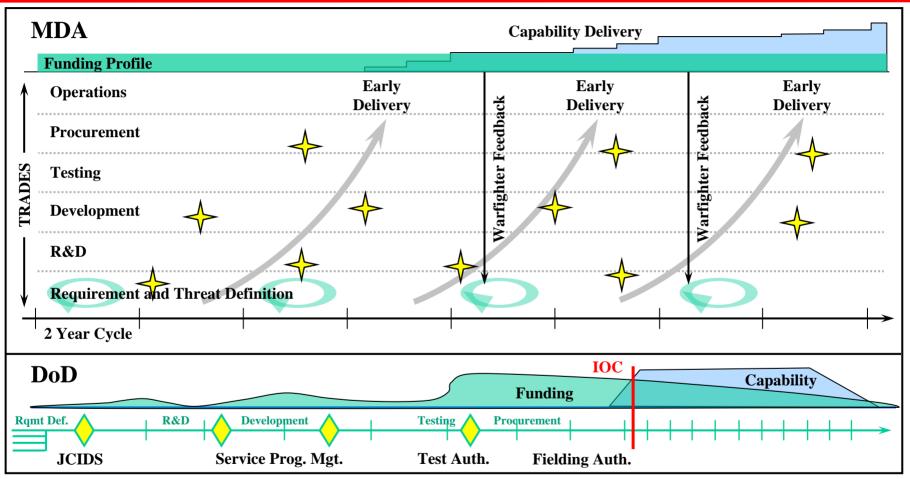
System Configuration August 2007 → End 2007



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Capability-Based Acquisition



Risks

• Transition to services

Strengths

- Fully flexible funding
- Combined development and operational testing
- Integrated capability management



- Space Technology
- Interceptor Technology
- Modeling and Simulation
- Discrimination
- Radar Technology
- Information Assurance
- Integration
- Safety / Insensitive Munitions
- Manufacturing Technology
- Airborne Component Technology