

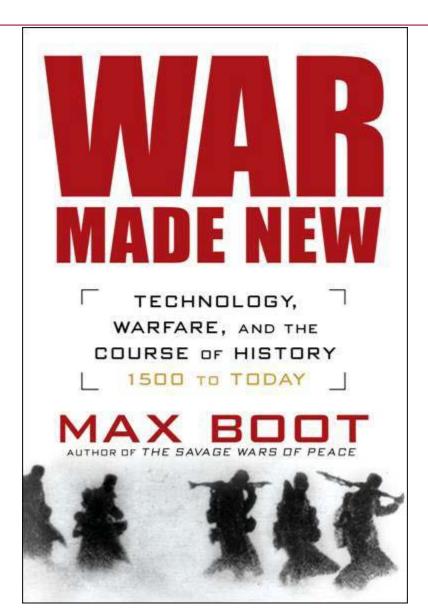


Aegis International & BMD: A New Interoperability Network

Track 9: Networks and Networking

Mr. Frank Anderson Mr. George Galdorisi Ms. Amanda George Ms. Rachel Volner







"My view is that technology sets the parameters of the possible; it creates the potential for a military revolution."

Max Boot
War Made New



Outline

- ▼U.S. BMD: Ready To Meet The Global Threat
- **▼**U.S. Naval BMD: Leading the Way
- ▼ Lab-based Initiatives
- ▼Into the Future



"What if free people could live secure in the knowledge their security did not rest upon threat of protection of the United States from the the retaliation ..., but instead that we could in ile attack is a critica p**stræteg**iowi**liadistvo**den EVIPOPER MISSIBLIE BAHISTIC MISSIFFER TO CHAMISE deterrence by providing an untresident Barratectionanta forward-deployed forces and friends and allies, while contributing to the larger architecture for defense of the United States."

A Cooperative Strategy For 21st Century Seapower



U.S. BMD: Ready To Meet The Global Threat

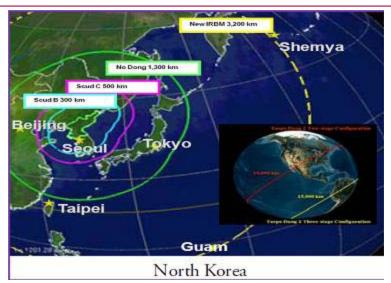


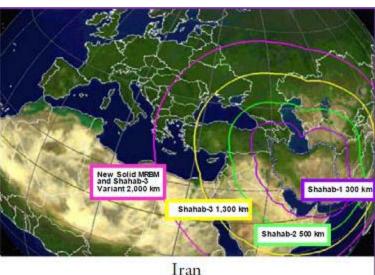
"The threat posed by ballistic missile delivery systems is likely to increase while growing more complex over the next decade ... Ballistic missile systems are becoming more flexible, mobile, survivable, reliable, and accurate while also increasing in range."

Ballistic Missile Defense Review Report



U.S. BMD: Ready To Meet The Global Threat





- ▼ The global BMD threat has grown both qualitatively and quantitatively
- ▼ In response, the U.S. has adopted the Phased Adaptive Approach (PAA)
- ▼ The Aegis Weapons System is the cornerstone of the PAA



U.S. Naval BMD: Leading The Way



"We are no longer building systems anchored in one place and welded to current threat assessments. We know that the capabilities of potential adversaries do not always progress according to intelligence assessments. Our program must adapt accordingly in the face of evolving and unpredictable threats."

Michele Flournoy, Undersecretary of Defense, Policy Ashton Carter, Undersecretary of Defense, AT&L *The Way Forward on Missile Defense*Wall Street Journal, June 17, 2010



U.S. Naval BMD: Leading the Way





- ▼ The Aegis Weapons System boasts 50 years of research and development
- ▼ The Aegis system occupies a key position within the national BMDS
- ▼ Demand far outpaces supply, and is expected to continue to do so



Lab-Based Initiatives



"We will win – or lose – the next series of wars in our nation's laboratories."

Admiral James Stavridis
EUCOM Commander
"Deconstructing War"
U.S. Naval Institute Proceedings
December 2005



Lab-Based Initiatives

▼ Research and Development

Testing and Evaluation

Ongoing Support



Research and Development

- **▼ SSC PAC and PEO C4I aligned with Missile**Defense Agency (MDA) for C4I Systems
 Development, Integration, and Test
 - Command and Control (C2)
 - Tactical Data Links (TDLs)
- Tactical Networks
- CommunicationsShip & Shore
- Battle Space Awareness
 - Ship & Shore Integration
- ▼ Partner with NSWC PHD, NSWC Dahlgren, NSWC Corona, Lockheed Martin, JHU/APL, Northrop Grumman



International BMD Support

▼ Japan Aegis BMD (JABMD)

- SSC PAC instrumental in providing operational capability for JABMD
 - Teaming with MDA/International for C4I systems integration on Japanese Ships
 - Japanese Flight Test Missions (JFTM 1-4)
 - Proven Interoperability during Real World Events





Israeli Missile Defense

- SSC PAC teaming to support Arrow Weapons Systems and Bi-National Interoperability
 - Developing solutions for Link 16 systems and Israeli Missile Defense Architecture
 - Teamed with MDA, PEO C4I, and Fleet
 Commanders to execute BMD system level testing



Ongoing Support

▼ European Phased Adaptive Approach (PAA)

- Aegis Ashore Assured C4I (A3C4I) T&E Lead
- Evaluating C4I requirements to support Aegis Ashore (AA)
- Coordinating with PEO, MDA AB, and NAMDC

▼ Continued Operational and Integration support for MDA

Helping to bring BMD capability to the Fleet and Warfighter



Into the Future



"I believe that cooperative missile defense with Russia has enormous potential, since the sharing of our technologies and information, which we currently college about missile launches from third countries, can make both of our countries more secure."

President Barack Obama

May 14, 2010 19



Into The Future

- Opportunities abound: Aegis expected to be installed in 60 cruisers & destroyers by FY2024; the system will also boast significant upgrades as the PAA is implemented.
- ▼ Challenges persist: Need for integration & interoperability both with coalition partners and with emerging capabilities (i.e., non-kinetic capabilities).
- ▼ The success of the Aegis Weapons System and the Phased Adaptive Approach will be dependent on continued high-level commitment and funding

May 14, 2010 20



Questions?

May 14, 2010 21