The Navy and Marine Corps Team

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Outline

• Strategic Environment
• ASN (RDA) Vision and Goals
• Acquisition Volatility
• Success Story for Collaboration
• Resetting the Force
• Question/Comments
Strategic Environment

- Engaged in the Global War on Terrorism
- Quadrennial Defense Review
- Fiscal Challenges (FY07 Budget Submitted to Congress)
ASN (RDA) Vision

To provide weapons, systems and platforms for the men and women of the Navy/Marine Corps that support their missions and give them a technological edge over our adversaries.
ASN (RDA) Goals

- Expedite GWOT acquisition programs as much as possible without compromising safety.
- Reduce volatility in ongoing and current acquisition programs.
- Develop and investment/transition strategy for Science and Technology (S&T) to ensure future technological edge.
- Lead the Acquisition Enterprise component of the Naval Enterprise, in collaboration with OPNAV/HQMC and the fleet to include the Marines.
Acquisition Volatility

• Definition – tending to vary often or widely
• Program characteristics that affect acquisition program volatility:
  – Program complexity
  – Requirements fluctuation
  – Budget instability
  – Schedule demands
  – Contractor/PM optimism
**Next Generation Fighting Vehicle**

- **Existing platform – Amphibious Assault Vehicle (AAV7A1):**
  - Transports Marines from amphibious ships to the shore
  - Provides firepower and transportation while ashore

- **Next generation – Expeditionary Fighting Vehicle (EFV):**
  - Faster – going from 7 knots to 39 knots for maximum water speed
  - Expanded operational reach – on land and in the water
  - Initial Operational Capability in FY2011
Success Story – Amphibious Assault Vehicle Turret Trainer (AAV-TT)

- Initiated by Marines from the 3\textsuperscript{rd} Assault Amphibian Battalion, 1\textsuperscript{st} Marine Division
- Collaborative program established between the Office of Naval Research and MCSC Program Manager Training Systems (PMTRASYS), leveraging work by ONR, DARPA, and the commercial gaming industry
- Urgent USMC need to prepare Marines for Iraq despite the lack of a live range where this training can be delivered
Success Story – Amphibious Assault Vehicle Turret Trainer (AAV-TT)

- The AAV-TT is a stand-alone trainer that uses a surplus AAV Turret and Indoor Simulated Marksmanship Trainer (ISMT) weapons (M-2 & Mk-19) to provide individual, crew, and section gunnery training
- System consists of instructor/operator station, driver station, AAV turret, and intercom system
- The Trainer uses commercial Windows and Linux PCs, government owned software and terrain databases, and a commercial game engine (Gamebryo)

AAV Turret Trainer prototype installed and training at Camp Lejeune, NC
Success Story – Amphibious Assault Vehicle Turret Trainer (AAV-TT)

• The ONR led development team included BMH (small business), Lockheed Martin, NAVAIR Orlando, and VR Sonic (small business)

• In less than one year, the AAV Turret Trainer was developed and tested

• USMC is procuring 16 trainers from T.J. Incorporated (8A firm)
Successful Collaboration

- Rapid development of capability need to support GWOT
- Leveraged existing research and development efforts from industry and government
- Low cost development and acquisition due to leveraging and innovation
- Teaming of large industry, small business and government activities
Resetting the Force

• Definition: Reset means restoring /enhancing combat capability for Marine Corps Units impacted by GWOT:
  – Approximately 30% of all Marine Corps ground equipment is being used in Iraq and Afghanistan
  – High operational tempo and harsh environmental conditions are rapidly aging our equipment
  – Unit readiness is degrading, due to higher usage of equipment than predicted, with subsequent repair and replacements needed.
Resetting the Force

• Example: Light Armored Vehicle estimated Service Life was 30 years in 2001.

• Current estimate is 6 years for LAV’s supporting Operations Iraqi Freedom and Enduring Freedom
Combat Equipment Losses
Summary

• Resetting the Force will be a challenge.

• Navy/Marine Corps and Industry working together can develop and field systems quickly to support the Warfighter.

• We need industry’s commitment to quality products and their creativity to produce them at higher quantities at reduced costs.
Questions?