



# 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



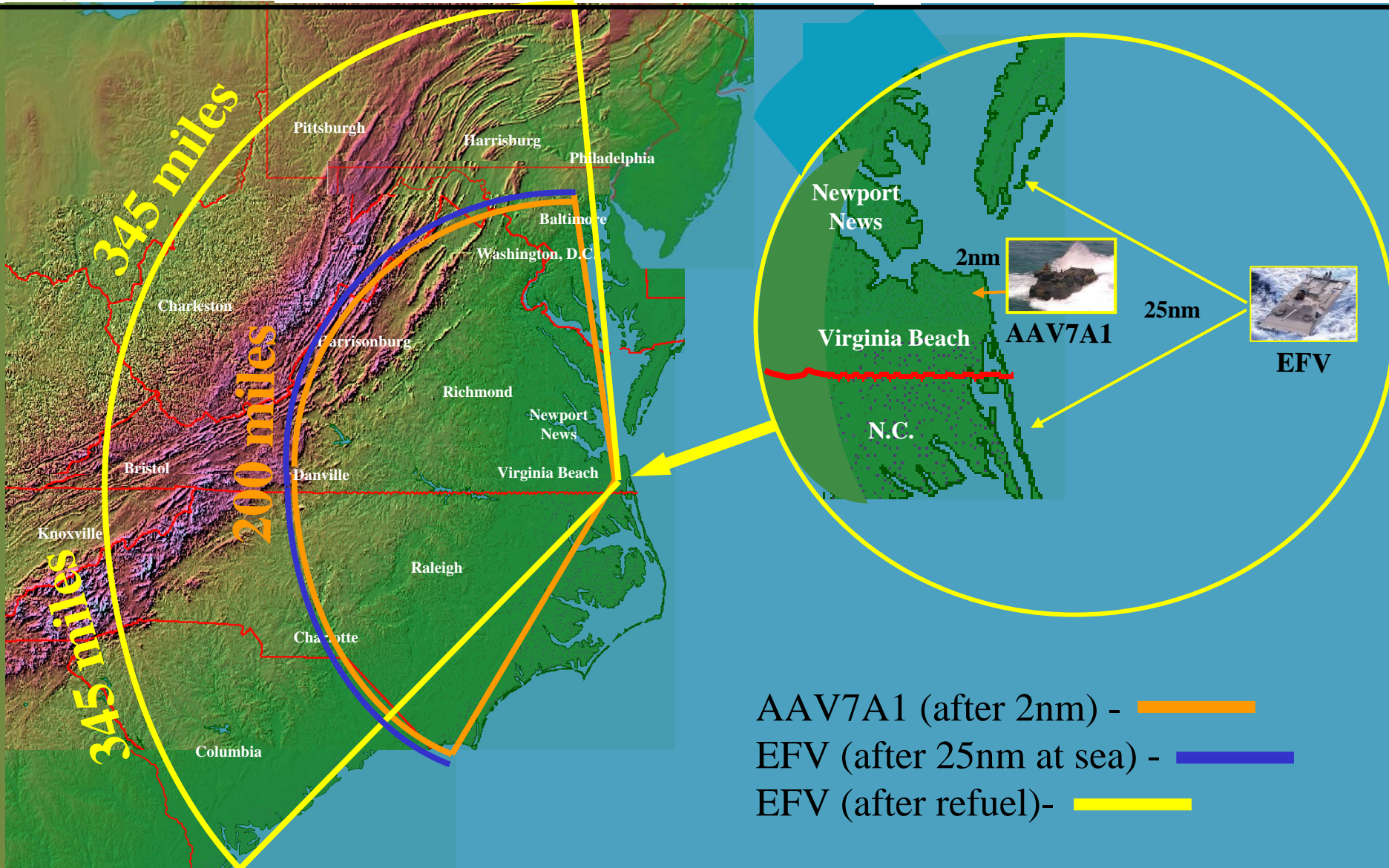
# Next Generation Fighting Vehicle

- 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





# MOVE - OPERATIONAL REACH







# Video of AAV and EFV

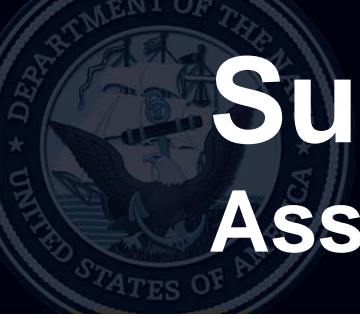




# Success Story – Amphibious Assault Vehicle Turret Trainer (AAV-TT)

- Initiated by Marines from the 3<sup>rd</sup> Assault Amphibian Battalion, 1<sup>st</sup> 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

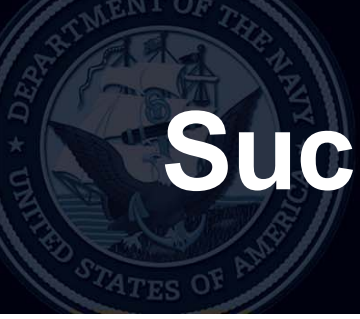




# Success Story – Amphibious Assault Vehicle Turret Trainer (AAV-TT)

- 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?

