Expeditionary Warfare Now and Into the 21st Century

Mr. Roger Smith
Deputy Assistant Secretary of the Navy for Expeditionary Warfare

21 Oct 2008
Summary:

Auth/Onbd

Military: 2/3
Civilian: 4/4
Total: 6/7
Detail: 3/2
Intern: 0/1
Cont: 0/0

Matrixed positions do not count against staffing levels.

- NECC Branch
  - Capt. T. Miller
  - Force Protection Branch
    - Tim Gaffney (ICAF)
    - EFV
    - JLTV
    - LAV
    - LW155
    - MPC
    - FCS
    - EFSS
    - HiMARS
    - M1A1 FEP
    - ITV

- Ground Combat Branch
  - Rick Ellis
  - Technology and Rapid Development Branch
    - Brian Kiviat
    - Joseph Vignali
    - JCTD
    - ACTD
    - JUONS
    - RDD
    - FNC
    - UUNS

- Ground Support Branch
  - LtCol C. Mckay
  - USMC Financial Management
    - Intern
    - Katherine Chung

- Administrative Assist.
  - J. Kelly
  - YB-2
## DASN ExW Portfolio

### Program R&D expenditures FY08 – FY15

<table>
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<tr>
<th>Program</th>
<th>APPN</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>Total</th>
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<td>Expeditionary Fighting vehicle</td>
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**Total:** $16.9B FY08 – FY15
New Acquisition Deliveries

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<th>FY10</th>
<th>FY11</th>
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Legend: Red indicates delivery, blank indicates no delivery.
Expedited Efforts
ISO GWOT

• MRAP
  – Produced to date
    • 13,346
    • 10,583 in theater
  – In Production
    • 2,492
    • 2,763 Awaiting GFE/in transit to theater
  – Executed >$24.1B

• CREW
  – Produced to Date
    • 9,163 CVRJs
    • 1,143 MMBJs
    • 9,417 Chameleons
    • 1,142 Hunters
  – In Production
    • 4,265 CVRJs
    • 595 MMBJs
  – Executed >$1.8B
Urgent Needs Rapid Response

Rapid Deployment Capability
• COTS/GOTS Fielding
  – gMAV — Rotary wing UAV for EOD
  – GBD-III Laser Dazzler – (pending approval)
  – Counter-Surveillance Sensors – (pending approval)

Rapid Development and Deployment
• Prototype Systems Development
  – Counter Suicide Bomber Sensor
  – Route Clearance Blade
  – Chem/Bio/Explosives Sensors for boarding teams
  – Small UAV RF Reconnaissance payload

Providing Immediate Response to MARCENT and NAVCENT Needs
Future World Dynamics
The Reality of Tomorrow

• Population Growth in Unsustainable Regions
• Rising Peer Competitors
  – China, India, Russia, Brazil
• Increased Resource Competition
  – Clean Water
  – Energy
• Technology Explosion – Narrowing of US Edge
  – Computation
  – Nanotechnology
  – Genetics and biotechnology
• Diminishing Economic Leverage
  – Globalization
  – Integrated Economies
Long War Guiding Principals

- Naval Character
- **Lethality**
- Deployability
- **Self-Sufficiency**
- Adaptability
- Interoperability
Lethality

• Triad of Ground Fires
  – High Mobility Artillery Rocket System
  – Lightweight 155MM Howitzer
  – Expeditionary Fire Support System

• Follow-on to SMAW

• Infantry Automatic Rifle
Self-Sufficiency

- Internally Transportable Vehicle
- Precision Aerial Delivery System
- Lightweight Water Purifier
- Expeditionary Fuel System
- Alternate Power Sources
Maneuver Warfare

• Legacy Platform Improvements
  – Amphibious Assault Vehicle
  – Light Armored Vehicle
  – M1A1 Main Battle Tank

• Next Generation
  – Expeditionary Fighting Vehicle
  – Marine Personnel Carrier
  – Joint Light Tactical Vehicle
Science & Technology

"Invest in science and technology to provide the 'seed corn' for future capabilities and prevent technological surprise."
J. T. Conway, CMC Planning Guidance

• Enhanced Small-Unit Situational Awareness
  – Sensors and Sensor Systems
  – Operational Culture Learning and Language
  – Tagging, Tracking and Locating
• Lethality and Survivability
  – Enhanced Organic Small-Unit Weapons Effect
  – Counter Improvised Explosive Devices
• Mobility
  – Individual Mobility & Combat Load Reduction
  – Small-Unit Mobility
Future Capability Process

Capabilities Futures
Concepts to Requirements

Combat Developer
MCCDC

Materiel Developer
SYSCOMs/PEOs

Technology Developer (S&T)
ONR

S&T Objectives (STOs)

R&D and Acquisition
Plan & Execute S&T

Technology Transition

Capability
Questions?????