Strategy During Challenging Times

2010 NDIA Tactical Wheeled Vehicle Conference
Portola Plaza Hotel, Monterey, California
Monday, 8 February 2010
1. Uncertain fiscal future

2. Becoming more Energy Efficient

3. Maintaining our Expeditionary Nature
   - Survivability vs. Mobility
   - Survivability vs. Transportability

4. Balancing the “Iron Triangle” to deliver Critical Warfighting Capabilities
“The spigot of defense spending that opened on Sept. 11 is closing.”

“We must constantly guard against so-called “requirements creep,” validate the maturity of technology at milestones, fund programs to independent cost estimates, and demand stricter contract terms and conditions.”

“This department (DoD) must consistently demonstrate the commitment and leadership to stop programs that significantly exceed their budget or which spend limited tax dollars to buy more capability than the nation needs.”
**We will be more energy efficient... we have to be.**

General James T. Conway

Commandant of the Marine Corps

**We can do these things. We have to.**

Secretary of the Navy (SECNAV) The Honorable Ray Mabus

- 1. Cut oil consumption 50 percent by 2015.
- 2. By 2016, a Green Strike Group, consisting of nuclear and biofuel powered ships will be in service.
- 3. By 2020, 40% of the Navy’s total energy will come from fossil fuel alternatives and 50% percent of its onshore energy will come from renewable sources.
- 4. Lifetime energy costs for systems will be incorporated into Navy and Marine Corps award contracts.
- 5. Reduce petroleum use in the 50,000 commercial vehicle fleet by 50 percent by phasing in hybrid fuel and electric vehicles.
“Our concern is that right now, arguably since 2003, we have been serving as a second land Army. We believe in large doses of salt-sea-air. What we offer to the nation is an assured access from the sea. We don't want to weight these ships out before we cube them out. And all of that is at risk if you stay with heavy vehicles.”

General James Conway, CMC
The Technology Challenge

The $Fiscal$ Challenge

Energy Efficiency & Expeditionary Capability
What my GPS is telling me…
1. Working with our partners

2. Exploiting Science and Technology efforts

3. Balancing our Ground Combat Vehicle Strategy

4. Balancing through internal program management tools
“Our first step is to continue to work with our partners to exploit technology to meet the Warfighter’s needs…”
PEO LS has identified “5” High Priority Technologies for 2010 to increase Warfighting capabilities and effectiveness of the MAGTF

- Power & Energy
- Fuel Efficiency
- Survivability & Mobility
- Modeling & Simulation
- Fuel Containment & Fire Suppression
### Balancing Through a Tactical Vehicle Strategy

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<tr>
<th>ROMO</th>
<th>VEHICLES</th>
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<tr>
<td>Range of Military Operations</td>
<td>EFV (HEAVY-Track) Expeditionary Fighting Vehicle. Employed as a Maneuver Vehicle</td>
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<tr>
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<td>MPC (MEDIUM-Wheeled) Marine Personnel Carrier Employed as a Maneuver Vehicle</td>
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<td></td>
<td>JLTV (LIGHT-Wheeled) Joint Light Tactical Vehicle Employed as a Mobility Vehicle</td>
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<tr>
<td>FEO</td>
<td><em>Amphibious maneuver</em></td>
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<td>Forcible Entry Operations</td>
<td><em>High concentration of force and firepower</em></td>
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<td>MCO</td>
<td><em>CBRNE protection</em></td>
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<tr>
<td>Major Combat Operations</td>
<td><em>High all-around protection</em></td>
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<td></td>
<td><em>Speed and mobility = M1A1</em></td>
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<tr>
<td>Crisis Response</td>
<td><em>Balanced protected mobility</em></td>
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<td>Stability Ops</td>
<td><em>Reinforcement for the AE</em></td>
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<tr>
<td>Humanitarian Relief</td>
<td><em>Speed and mobility = M1A1</em></td>
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<td></td>
<td><em>Mobility for Combat Leaders, Weapons Company, Combat Support and Combat Service Support</em></td>
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<td><em>Urban Maneuver</em></td>
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<td><em>High Force Dispersion (3 per squad)</em></td>
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<td><em>Mine Protection</em></td>
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<td><em>IED Protection</em></td>
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**The Ground Combat Vehicle Strategy**
- Life Cycle Logistics (LCL)
  - PBL’s
- Program Maturity
  - PoPS
- Rigorous Systems Engineering
  - Technical Authority
  - Modeling & Simulation
  - Test & Evaluation
- Cost Estimation
- Science & Technology
“America needs to maintain a global Navy and a global presence for a lot of reasons, protection of our economic interests, projection of power to reassure allies, to deter future adversaries. I think that a fleet, and embarked Marines and associated Marine elements are one of our nation's strongest methods of doing that.”

Secretary of the Navy (SECNAV) The Honorable Ray Mabus
Questions?

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Backups
Program Portfolio

**Expeditionary Fighting Vehicle (EFV)**

**Logistics Vehicle System Replacement (LVSR)**

**Medium Tactical Vehicle Replacement (MTVR)**

**Lightweight 155 (M777)**

**Joint Light Tactical Vehicle (JLTV)**

**Ground Air Task Oriented Radar (G/ATOR)**

**Marine Personnel Carrier (MPC)**

**Common Aviation Command & Control System (CAC2S)**

**BAE Systems Land and Armaments**

**General Tactical Vehicles**

**Lockheed Martin Systems Integration**
<table>
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<th>Concept Refinement</th>
<th>Technology Demonstration</th>
<th>Engineering, Manufacturing, Development</th>
<th>Production and Deployment</th>
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<tr>
<td>MS-A</td>
<td>MS-B</td>
<td>MS-C</td>
<td>IOC</td>
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<tr>
<td>Marine Personnel Carrier (MPC)*</td>
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Current GCTV Strategy

- M1A1
- AAV
- EFV
- LAV
- ITV
- LVS/LVSR
- MTVR
- MRAP
- M-ATV
- HMMWV(A2) / ECV
- JLTV

Timeline:
- 2008
- 2010
- 2012
- 2014
- 2016
- 2018
- 2020
- 2022
- 2024

Other Equipment:
- PCP
- MMV
- LAV
- ITV
- M-ATV
- JLTV
Partnership within the Marine Corps

ASN (RD&A)

MARCORSYSCOM (BGen)

MCSC Competencies

Finance

Contracts

Sys Eng

Logistics

Additional Support such as Legal, PAO, etc..

PEO LAND SYSTEMS (SES)

MARCORSYSCOM PRODUCT GROUPS AND SEPARATE PM’S

MPC | JLTV | G/ATOR | EFV | LVSR | CAC2S | LW155 | MTVR

Partnership within the Marine Corps

Additional Support such as Legal, PAO, etc..
Top 3 Challenges for PEO LS

- The Technology Challenge
- The Fiscal Challenge
- The Iron Triangle Challenge