<table>
<thead>
<tr>
<th>MCSC</th>
<th>PEO LS</th>
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<tbody>
<tr>
<td>• LAV</td>
<td>• EFV, MPC</td>
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<td>• AAV</td>
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<td>• Tank</td>
<td>•?JLTV?</td>
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<td>• HMMWV/ECV</td>
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<td>• MRAP</td>
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</table>
Hybrid threats exploit the complex terrain of the urban littoral to maximize their disruptive capacity.
Combat Vehicles

- LAV
- AAV
- Tank

Tactical Wheel Vehicles

- HMMWV
- MTVR
- LVS
- MRAP

Blurring The Lines
**HMMWV Timeline**

- **1984**: First HMMWV fielded to fleet
- **1998**: HMMWVA2 fielded
- **2003**: M1114 fielded
- **2006**: M1151/M1152 produced
- **2012**: M1151 4-dr w/ A/C Armament Carrier

Planned fielding of JLTV
MTVR Armor System Timeline

- **2001**: MTVR IOC
- **2005**: MAS Installs Commence
- **2007**: Underbody Blast MAS Upgrade Install
- **2008**: Reducible MAS Install
- **2023**: MTVR Service Life 22 yr
LVS Timeline

1984: LVS Fielding
1993: LVS A2 Fielding
2006: LVS MAK I
2009: LVS MAK II
2012: LVSR Fielding
Marine Corps Challenges

- Funding
- Timing
- Expeditionary
Industry Challenge

• Requirements
• Funding
• RAM
Questions
Back-ups
MRAP All Terrain Light Combat Vehicle

- Mobility and Protection
MTVR Blast Protection Upgrade
(UUNS - 06303UB)