CANADIAN ARMY SUPPORT VEHICLES

MGen Ian Poulter

6 Feb 2012
Agenda

- Canadian Army Support fleets
- Medium Support Vehicle System  MSVS
- Logistics Vehicle Modernization   LVM
- Enhanced Recovery Capability    ERC
Canadian Army Support fleets

**LUVW MiLCOTS**
- MILCOTS fleet of 1061 veh
- Training
- Procured in 2003

**2010 Obsolescent**
**Replacement planned**

**LSVW**
- Fleet of 2800 vehicles
- Insufficient protection
- Limited deployability

**2015 (Self Divestment)**
**To be replaced by LVM**

**LUVW SMP**
- Fleet of 1159 vehicles
- Life until 2020
- Limited protection
- Procured in 2004-2006
- 15% disposed to date

**2020**
**Replacement planned**

**MLVW**
- Fleet of 2760 vehicles
- End-of-life
- Insufficient protection
- Limited deployability
- M35 Cdn

**2008 (Obsolete)**
**Being replaced by MSVS**

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# Canadian Army Support Fleets

<table>
<thead>
<tr>
<th>Fleet</th>
<th>Description</th>
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</thead>
</table>
| **HLVW** | Fleet of 1200 vehicles  
Life-extended until 2019/20  
Insufficient armour protection  
Heavy Workhorse (10T/16T) |
| **Obsolescent** | To be replaced by LVM |
| **HESV** | MILCOTS fleet (59 vehicles)  
Engineer Units  
Life extended until 2019 |
| **Obsolescent** | Being replaced by ERC |
| **AHSVS** | UOR fleet of 97 trucks  
Afghanistan  
Good protection  
Life expectancy 2019 |
| **Obsolescent** | To be replaced by LVM |

**Combined with LVM**
Medium Support Vehicle System - MSVS
### MSVS Scope

**Standard Military Pattern Vehicles (SMP)** – up to (1537)

- SMP Load Handling System Trailers (LHS) – up to (302)
- SMP Armour Protection System - up to (157)

**Militarized Commercial Pattern Vehicles (MiCOTS)** – (1300)

Options exercised to meet CFDS

**Specially Equipped Vehicles Kits (SEV)** - (1040)

- 895 Baseline shelter
- **Kitting** for 868 shelters

- RFP closes 25 Apr 2012
- Delivered
- Under contract
- RFP closes 29 Jan
MiLCOTS

895

Configuration: A - Extended Cab - (21' Cargo w/ Seat & Tarp)

Configuration: B - Extended Cab - (21' Cargo w/Cage)

32

Configuration: C - Extended Cab - (16' Deck w/ Cargo Crane)

Configuration: D - Extended Cab - (21' Flatbed)

Fielding Spring 2012

94

Configuration: E - 9 Man Cab - (13' Artillery w/ Tarp)

Configuration: F - 9 Man Cab - (10' Deck w/Auger)

SEV being kitted

51

128
Op Lama, Lotus and Lustre

Newfoundland Hurricane

Richelieu River Floods

Brandon area Floods

En route for Richelieu River
**Baseline shelter Variants**

Variant 1 = 20 ft shelter w/mechanical rm

Variant 2 = 10 ft shelter w/mechanical rm

Variant 3 = 20 ft shelter 1 side expandable w/mechanical rm

Variant 4 = 20 ft shelter 2 side expandable w/mechanical rm

Variant 5 = 20 ft shelter wo/mechanical rm

Variant 6 = 20 ft shelter w/mechanical rm W/ enhanced AC
Logistics Vehicle Modernization
Logistics Vehicle Modernization

- LVM is Part of the Canada First Defence Strategy (CFDS), promulgated by Government of Canada in 2008
- It is a Capability replacement project created in 2008
- LVM Project Identification in 2010
- LVM Preliminary Project Approval (PPA) planned for Spring 2013
The Logistics Vehicle Modernization project will replace the in service Light and Heavy logistic vehicle fleets’ capabilities.
Combat Logistics Support Vehicle (CLSV)

- SEV Direction: The same shelter system will fit on both CLSV SMP and MilCOTS
  - Variants: Min:5 Max:59 (including ambulance, cargo, office/command post)
- Expeditionary (SMP)
  - Protected
  - Non-Protected
  - JP 8 Fuel
  - 2.2-3.5 Tonnes
  - Improved medium mobility
  - C-130
- Domestic Trucks (MilCOTS)
  - 2.2-3.5 Tonnes
  - Medium mobility
  - Rail transportation
Heavy truck requirements

- 16 Tonnes
- Variants
  - Cargo w/crane
  - Tractor
  - PLS
  - Cargo
- Protection level
  - Ready to accept STANAG Level 3 Ballistic
  - Level 2A/2B Blast (TBC)
  - Expeditionary Fleet must have the capacity to be protected
- MilCOTS requirement to be validated
Enhanced Recovery Capability - ERC
Enhanced Recovery Capability: Capability Deficiency

- Requirement for suitable resources to recover and backload disabled and immobilized vehicles expediently
- Significant problem that will grow exponentially in the next few years
## Wrecker (Towing) Capability Gap

<table>
<thead>
<tr>
<th>Casualties</th>
<th>Wreckers</th>
<th>Qty</th>
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</thead>
<tbody>
<tr>
<td>MSVS MiLCOT</td>
<td></td>
<td>1300</td>
</tr>
<tr>
<td>MSVS SMP - Exp</td>
<td></td>
<td>1500</td>
</tr>
<tr>
<td>MSVS SMP - Dom</td>
<td></td>
<td>1300</td>
</tr>
<tr>
<td>LVM Hvy - Exp</td>
<td></td>
<td>500</td>
</tr>
<tr>
<td>LVM Heavy - Dom</td>
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<td>1500</td>
</tr>
<tr>
<td>LVM Light - Exp</td>
<td></td>
<td>500</td>
</tr>
<tr>
<td>LVM Lt - Dom</td>
<td></td>
<td>1500</td>
</tr>
<tr>
<td><strong>Total B Wheeled</strong></td>
<td></td>
<td>4800</td>
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<tr>
<td>AHSVS Wrecker</td>
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<td>7</td>
</tr>
<tr>
<td>HLVW Wrecker</td>
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<td>123</td>
</tr>
<tr>
<td>HLVW Tractor</td>
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<td>46</td>
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<tr>
<td>Future Wrecker</td>
<td></td>
<td>104</td>
</tr>
</tbody>
</table>

### Timeline - 20...

- **Wrecker (Towing) Capability Gap**
  - **High-use commercial truck**, end-life 2018
  - **Possible life-extension - limited quantity**
  - **Borderline to be used for the medium truck; Too small for future heavy trucks**
  - **Used with a FWTRD for towing**
  - **Recommend procuring thru ERC instead of LVM**

### Tracked Fighting Vehicles

<table>
<thead>
<tr>
<th>Casualties</th>
<th>Qty</th>
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<tbody>
<tr>
<td>Leo I ARV</td>
<td>8</td>
</tr>
<tr>
<td>Leo II ARV</td>
<td>8</td>
</tr>
<tr>
<td>TLAV</td>
<td></td>
</tr>
<tr>
<td>CCV</td>
<td>108</td>
</tr>
<tr>
<td><strong>Total Tracked</strong></td>
<td><strong>149++</strong></td>
</tr>
</tbody>
</table>

### Wheeled Fighting Vehicles

<table>
<thead>
<tr>
<th>Casualties</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAV 3</td>
<td>650</td>
</tr>
<tr>
<td>TAPV</td>
<td>500</td>
</tr>
<tr>
<td><strong>Total A Wheeled</strong></td>
<td><strong>1150+</strong></td>
</tr>
</tbody>
</table>
Future Recovery Plan

Recovery Vehicle

- Leo ARV
- ?ERC
- ?ERC

Primary Casualty

- Tanks
- CCV Tracked
- LAV 3 /CCV (W)
- TAPV
- B Vehs (MSVS, LVM) Complex Recovery
Fifth Wheel Towing and Recovery Device (FWTRD)
Fifth Wheel Towing and Recovery Device

- Attachment to a tractor 5th wheel that turns a tractor into a wrecker
- Qty 40 to be procured as a stop gap measure
- ERC will have to integrate/refurbish/dispose once final solution is fielded
TIMELINE

2012

2013

2014

2015

2016

2017

2018

Fleet Balance Study

MSVS SMP Known –

Fielding Begins

FOC

Treasury Board

Request for Proposal

Fielding Begins

FOC

Kitting Begins

Kitting Begins

Fielding Begins

FOC

Production Starts Baseline Shelter

ARMY Kitting

FOC

Shelter/Kitting

MSVS

LVM
Faster Project Management