Future Warfare Capability Requirements (Panel)

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Disclaimer

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» Images used in this presentation may be of real or imaginary equipment and are intended to be representative of the general capabilities described. Their appearance here does not imply that Canada favours or will acquire that specific equipment.
1. Emerging and Evolving Threats to Land Forces

2. Future Security and operating Environment
   - Close Engagement Concept
   - Requirements to Operate

3. Canadian Army Capability Development Process
1. Emerging and Evolving Threats to Land Forces

- New Generation Warfare (Political, Economic, Informational and Military)
- Hybrid Warfare (Conventional Warfare combined with Insurgent tactics)
- Smugglers, Militant Separatist and Jihadists
2. Future Security and Operating Environment

Marked by:
- Continued Volatility
- Rapid Change
- Uncertainty
- Global Warming
- Resource Shortage
- Natural Disasters
- Economic hardship
- Refugee flows

Challenges:
- Increasingly diverse group of actors
- Use of social media
- New and more deadly weaponry
- Likelihood of rise of great power and regional conflict
- Technological advantages
Close Engagement Concept

• Adaptive Force
• Close engagement
  – Set of mission activities
    • conducted by soldiers and leaders
    • among the people
    • Understanding
    • Influence
    • Exercise of control over people
      – Violent or non-violent means
Requirements to Operate

- Networking
- Versatility and resilience
- Adaptability and durability
- Dispersed operations
- Operational reach
- Develop and share understanding
- Command and Sustain deployed forces
3. Canadian Army Capability Development

Future Army
Conceptual

Army of Tomorrow (AoT)
Aspirational
Digitized and Networked, JIMP and ADO-capable

Army of Today

Chief of Force Development (CFD) ‘Horizons’
The Vision

Future Soldier System
Future Indirect Fire Capability
Future Network Cyber Capability
Future Service Support System
Future Air Defence Capability
Future Aviation Systems
Future Direct Fire Capability
Future Integrated Training System
Future Intelligence, Surveillance & Reconnaissance Capability
Force Mobility
Unmanned Ground Systems
Family of Land Combat Vehicles
### Upcoming Canadian Army Projects

<table>
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<tr>
<th>Project</th>
<th>Description</th>
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<tr>
<td>Logistics Vehicle Modernization (LVM)</td>
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<tr>
<td>Combined Joint Intelligence Modernization (CJIM)</td>
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<td>Common Heavy Equipment Replacement (CHER)</td>
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<td>CF Land Electronic Warfare Modernization (CFLC)</td>
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<tr>
<td>LCSS Tactical Comms Modernization (LCSS Tac Comms Mod)</td>
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<td>LCSS Intelligence Surveillance Recce Modernization (LCSS ISR Mod)</td>
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<td>LCSS Tac Comd &amp; Control Info System Mod (LCSS TacC2IS Mod)</td>
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<td>Armoured Combat Support Vehicle (ACSV)</td>
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<tr>
<td>Ground Based Air and Munitions Defence (GBAMD)</td>
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<td>Bridge &amp; Gap Crossing Modernization (BGCM)</td>
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<td>Light Force Enhancement</td>
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<td>Indirect Fire Modernization (IFM)</td>
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<td>LUV Project</td>
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<td>Domestic &amp; Arctic Mobility Enhancement (DAME)</td>
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<td>84mm Carl Gustav Upgrade</td>
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<td>Anti Tank Guided Missile Replacement</td>
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<td>FOO/FAC Modernization (FFM)</td>
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<td>Close Combat Modular Fighting Rig (CCMFR)</td>
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<td>Pistol Replacement</td>
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<td>C16 Digital Compass Upgrade</td>
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<td>Body Armour Modernization (BAM)</td>
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<td>Tactical Power Systems (TPS)</td>
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<td>Camp Sustain</td>
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<td>Unit Weapons Training System (UWTS)</td>
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<td>Advanced IED Detection and Defeat</td>
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<td>Modular Pack System (MPS)</td>
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<td>Night Vision System Modernization</td>
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Defence Acquisition Site

- Defence Acquisition Guide (DAG)
  - Allow companies to better align themselves with defence acquisition needs
  - DAG is periodically updated, but not all listed capabilities will result in acquisition
- Dates and milestones are developed based on many factors – some of which are unknown or difficult to determine
  - Fastest and best way to understand the timelines and/or submit your ideas on a particular project is to communicate with DLR directly
- The DAG can provide resources and tools to help you align your business development to Canadian priorities
