

# **CANADIAN ARMY SUPPORT VEHICLES**

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# Agenda

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

MSVS

- LVM
- ERC

# Canadian Army Support fleets

# **LUVW MIICOTS**

MILCOTS fleet of 1061 veh Training Procured in 2003



AURUNA

LUVW SMP

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

# 2010 Obsolescent Replacement planned

### 2020 Replacement planned

# LSVW

Fleet of 2800 vehicles Insufficient protection Limited deployability





### MLVW

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

# 2015 (Self Divestment) To be replaced by LVM

# 2008 (Obsolete) Being replaced by MSVS

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# **Canadian Army Support fleets**

**HLVW Recovery** 

Life extended

**Limited protection** 



### HLVW

Fleet of 1200 vehicles Life-extended until 2019/20 Insufficient armour protection Heavy Workhorse (10T/16T)

Limited capability Obsolescent Being replaced by ERC

# Obsolescent To be replaced by LVM

# HESV

MILCOTS fleet (59 vehicles) Engineer Units Life extended until 2019





### **AHSVS**

UOR fleet of 97 trucks Afghanistan Good protection Life expectancy 2019

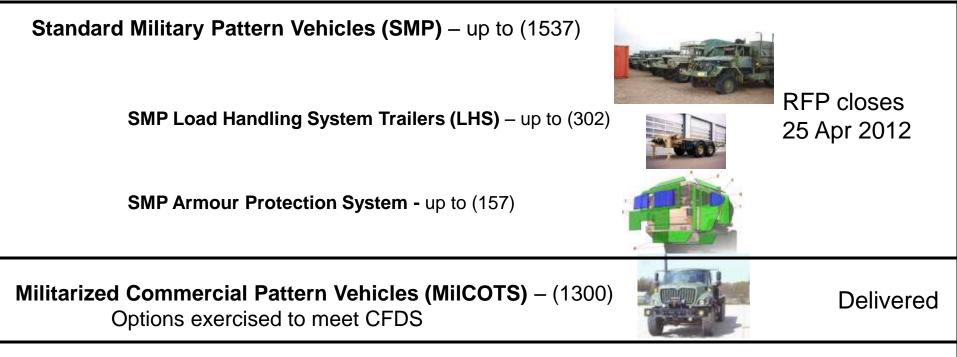
Obsolescent To be replaced by LVM

### **Combine with LVM**



# Medium Support Vehicle System -MSVS

# **MŠVS Scope**



Specially Equipped Vehicles Kits (SEV) - (1040)

895 Baseline shelter

Kitting for 868 shelters



Under contract

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RFP closes 29<sub>6</sub> Jan

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# MilCOTS

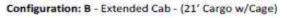
895



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



128





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



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

100

SEV

being

kitted

Fielding Spring 2012

32

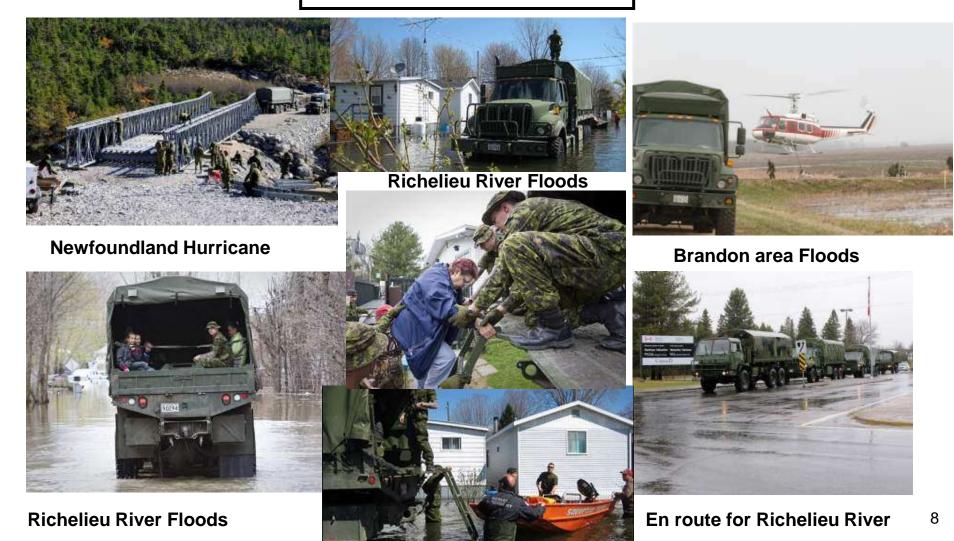


Configuration: E - 9 Man Cab - (13'Artillery w/ Tarp)



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#### **Op Lama, Lotus and Lustre**



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# **Baseline shelter Variants**

Variant 1 = 20 ft shelter w/mechanical rm

one army. one team. one vision.



Variant 2 = 10 ft shelter w/mechanical rm



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

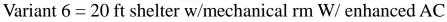


Variant 4 = 20 ft shelter 2 side expandable w/mechanical rm



Variant 5 = 20 ft shelter wo/mechanical rm









# **Logistics Vehicle Modernization**



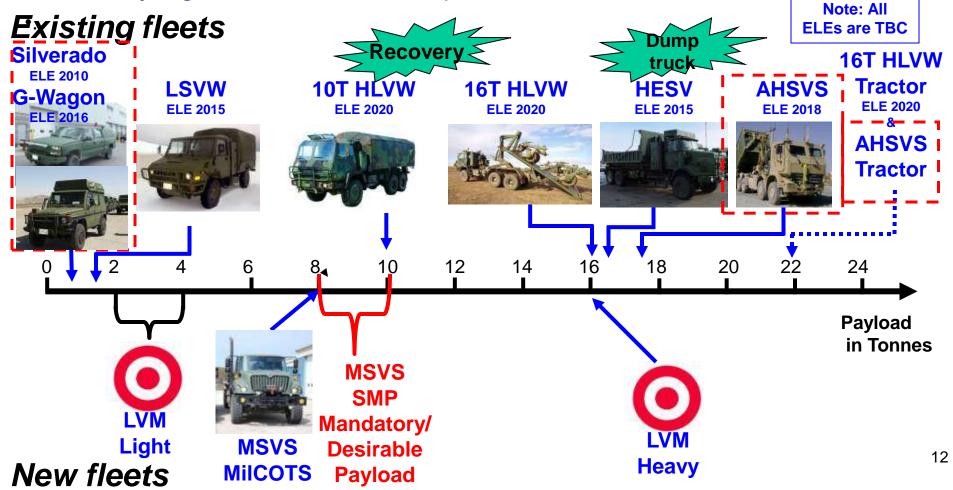
# **Logistics Vehicle Modernization**

- 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

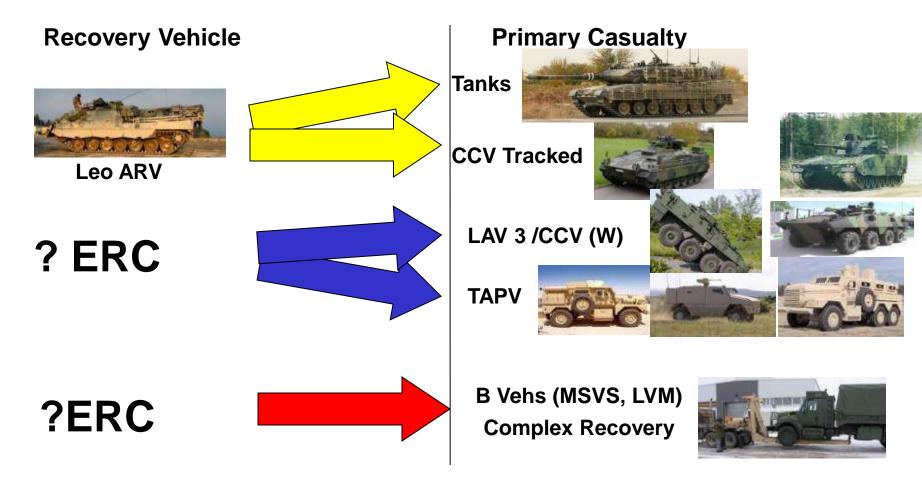
- Requirement for suitable resources to recover and backload disabled and immobilized vehicles expediently
- Significant problem that will grow exponentially in the next few years



Wrecker (Towing) Capability Gap				l imeline - 20																		
Casualties	Wreckers	Qty	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
MSVS MILCOT		1300																				
MSVS SMP - Exp		1500																				
MSVS SMP - Dom																						
LVM Hvy - Exp		500																				
LVM Heavy - Dom																						
LVM Light - Exp		1500																				
LVM Lt - Dom								HL	VW	Wre	cke	r										
Total B Wheeled		4800																				
00	AHSVS Wrecker	7	High-use commercial truck, end-life 2018Possible life-extension - limited quantity																			
- And Martin	HLVW		Borderline to be used for the medium																			
	Wrecker	123	truck; Too small for future heavy trucks																			
Call and a second secon	HLVW										_											
	Tractor	46		<u>Use</u>	<mark>d w</mark> i	th a	FW	<mark>TRI</mark>	<mark>) fo</mark> i	r tov	ving											
Colorado	Future Wrecker	104								Red	com	mer	nd p	rocu	iring	thru	I ER	C ir	stea	ad o	f LV	Μ
Tracked Fighting Vehicles			11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Leo I		67	To I	be D	ives	sted																
Leo II		82	Rel	y on	two	Lec	) II A	RV	s on	loar	n, th	en 8	-12	futu	re Le	eo II	AR	Vs	_	_		
TLAV			Use	• MT	VR																	
CCV		108										No	Rec	ove	ery F	Plan						
Total Tracked		149++																				
	LeoIARV	8	To l	oe d	ives	ted																
- THE PARTY OF	Leo II ARV	8	Sufficient quantities for the Leo II tanks only, 8-12 to be procured																			
-	MTVR	23	Tow and recover the TLAV																			
Wheeled Fig	hting Vehicles																					
LAV 3		650								N	o R	eco	very		an							
TAPV		500			No Recovery Plan																	
Total A Wheeled		1150+																				

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# **Future Recovery Plan**



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# Fifth Wheel Towing and Recovery Device (FWTRD)





# **Fifth Wheel Towing and Recovery Device**

- Attachment to a tractor 5<sup>th</sup> 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





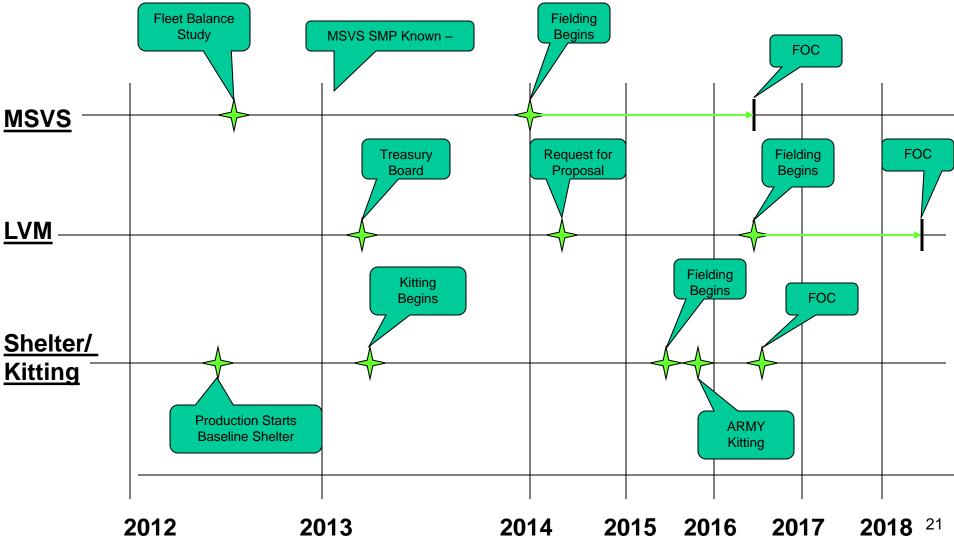
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A STREET

# TIMELINE



### **Faster Project Management**

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