



Royal Canadian Air Force

CMEA National Conference

Infrastructure Panel 28 Nov 18

Presented by

LCol Ken Brooks, RAWC





Strong Secure Engaged



- Articulates critical role of air and space power throughout
- Allows for unique needs of RCAF personnel
- Requires infrastructure investment – we fight from our Wings







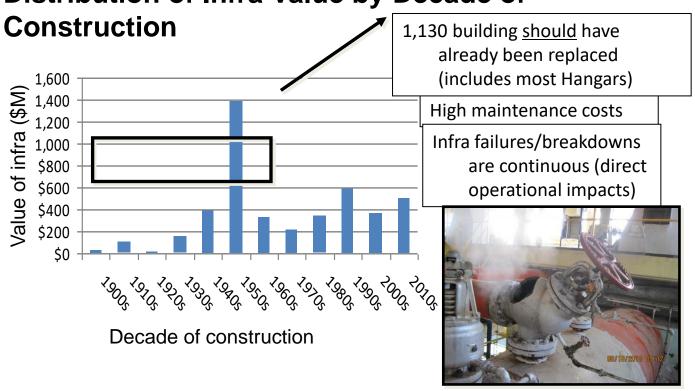
RENEW DEFENCE INFRASTRUCTURE

- Defence manages infrastructure assets worth roughly \$26 billion, including:
 - more than 20,000 buildings
 - 5,500 kilometres of roads
 - 3,000 kilometres of water works
 - over 2.2 million hectares of land
- Under Canada's Defence Policy, we will:
 - Improve infrastructure on bases and wings including housing for CAF personnel
 - Explore ways to partner with the private sector
 - Dispose of underutilized or obsolete buildings



State of RCAF Infrastructure

Distribution of Infra Value by Decade of



Steam Header Explosion – 17 Wg

Investments in the RCAF





- Replace the CF-18 fleet with 88 advanced fighter aircraft.
- Acquire space capabilities to improve situational awareness and targeting
- Acquire new command and control and communications systems.
- Replace the air-to-air tanker transport, utility transport and multi-mission aircraft fleets.
- Invest in medium altitude remotely piloted systems
- Modernize fighter aircraft air-to-air missiles.
- Upgrade air navigation, management, and control systems.
- Acquire new aircrew training systems
- Recapitalize existing capabilities until the arrival of next generation platforms.
- Sustain domestic search and rescue capability.
- Operationalize the new fixed-wing search and rescue aircraft fleet.

CISOE Project Infra Reqts



- 17 projects
- 10 cost-estimated @ \$3 B +

SSE#	Project	Intent for Infra	Location	(\$M) \$750	10C/FOC 2019/?
44, 54	Interim Fighter Capability Project (IFCP)	Construction of facilities required to house interim fighters. Anticipate pers increase in Cold Lake.	Cold Lake		
55, 56	Fixed Wing SAR Aircraft Replacement Project	Training Centre (Comox) and renos of existing hangars on four Wings to accommodate new aircraft. Cost of infra embedded in overall cost of aircraft.	Comox, Winnipeg, Trenton, Greenwoo	\$100	2020/2022
	AFEC Construct Storage Facility, 4 Wing	Construction of storage facility for training suite of deployable equipment.	Cold Lake	\$15.7	2021/2021
46	Tactical Integrated C3 Air Project (TIC3(Air))	Support to comms project - voice/data link to aircraft.	Multiple locations	?	2021/2024
54, 55	Cormorant Mid-Life Upgrade (CMLU)	Construction of facility to house simulator, training centre, & hangars.	Multiple locations	?	2022/2027
	Airlift Capability Project - Multi-Role Flight Service (ACP-MFS)	Unknown. Replace the of CC144 Challenger aircraft.	Ottawa	\$140	2023/2025
	AFEC Combined Mess and Dining, 3 Wing	Construction of Dining/Messing facilities required to support additional pers in Bagotville.	Bagotville	\$54.5	2024/2024
	AFEC Construct Accommodations, 3 Wing	Construction of accommodations to support additional pers in Bagotville.	Bagotville	\$17.3	2024/2024

CISOE Project Infra Reqts

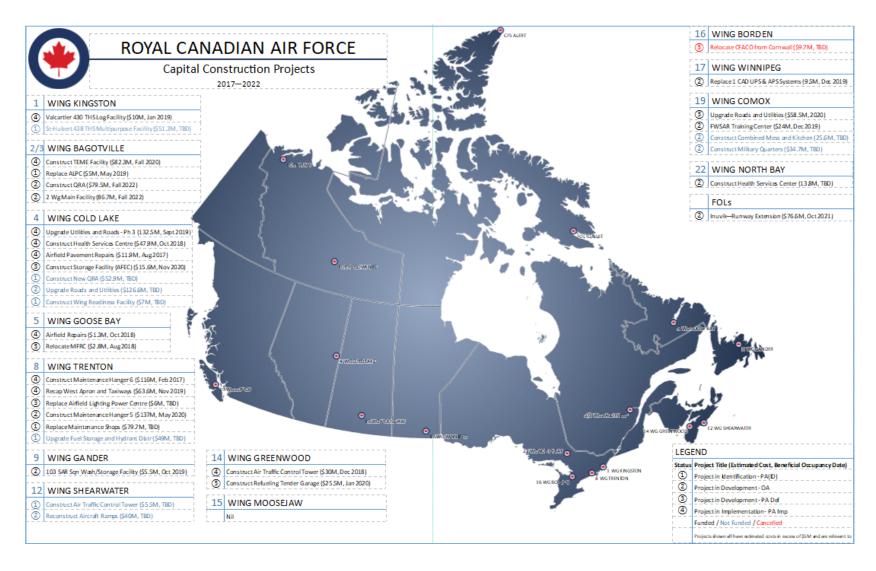


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	AFEC Construct Main Facility, 2 Wing	Construction of Operations/Administration/Stora ge Facility for newly-created 2 Wing, incl equipment.	Bagotville	\$103	2024/2025
53	Future Aircrew Training (FAcT)	To be developed; initial intent is to contract operation of facilities.	Moose Jaw	?	2024/2027
48	Utility Transport Aircraft (UTA)	Unknown. Aircraft capable of utility airlift into austere locations	Unknown	\$250	2024/2028
47	Strategic Tanker Transport Capability (STTC)	Unknown. Future fighter must be identified prior to development of project. Unknown impact from retirement of CC130H.	Trenton, Winnipeg	?	2026/2028
44	Future Fighter Capability Project (FFCP)	Construction of facilities required to house new fighters in Cold Lake, Bagotville, DOBs and FOLs.	Cold Lake, Bagotville, various	\$1300- 2,100	2026/2031
49	Multi-Mission Aircraft (CP-140 replacement)	Construction/renovation of facilities to house CP-140 replacement.	Comox, Greenwoo d	?	2033/2038
53, 54	Weapon System Trainer - CC177	Construction of facility to house simulator and training centre.	Trenton	?	Parked
50,91,97 ,68	Remotely Piloted Aircraft System (RPAS)	To be developed. Anticipate pers increase in Bagotville. Likely to involve other bases.	Multiple locations, Bagotville	\$175	Unknown
54	Tactical Reconnaissance Utility Helicopter (TRUH)	Project to deliver a CH146 replacement to encompass Reconnaissance, Escort, and Light Utility roles for Tactical Aviation	Various Locations	?	Unknown

Integration with Existing Program





Portfolio Elements (RP Ops)



- Changes to the RPOC 19-20 cycle
 - To enable mission command
 - Empower regions with resources and guidance to prioritize projects
 - DPP created 12 x Portfolio Elements (PE) categorized by asset type
 - RP Ops J5 with DPP, DRPPM and L1s guided investment targets across the various PEs
 - RPRC values were used to determine initial national goals for each PE (% of allocation)
 - PE goals will be adjusted by the RPOC board IOT account for the strategic/ operational importance of each PE and their relative states of repair
 - In the future, collective FCI levels will be used to guide PE bands (once VFA program matures)

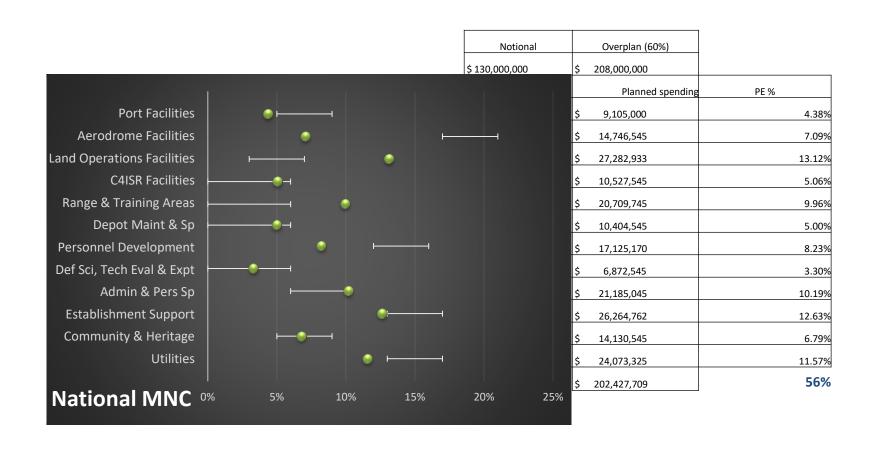
Portfolio Elements (Buildings, Works & Lands)



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Code	Portfolio Element	Definition			
PE01	Port Facilities	Jetties, fleet maintenance, supply, QHM, emergency services and security			
PEO2	Aerodrome Facilities	F Code s	Portfolio Element	Definition	
PE03	Land Operation Facilities	l PEO7	Pers. Development	DND/CAF force generation; recruiting, education, training perspective(includes Reserve blgs)	
PE04	C4ISR Facilities	C PEO8	Def Sci, Tech Eval & Expt	DND/CAF research, development, test and evaluation	
PE05	Range& Training Areas	(PE09 c	Admin & Pers Sp	Administration and offices, Food and Accommodation, Physical fitness, Hospital, Messes	
PE06	Depot Maint & Sp	C PE10	Establishment Support	Base technical services (Bulk fuel storage & distribution, civil works, Fire hall, guard house, maintenance workshop, Supply and storage, Security)	
		PE11	Community & Heritage	CANEX, Chapel, Sport and Recreation, Morale & Welfare ,PSP-lead building, Residential housing, Cadets	
		PE12	Utilities	Central heating plants, water treatment and supply, sewage treatment, electrical power distribution and roads(except RTA roads)	

C518 Program \$0-2.5 M





Parting Thoughts...



- Staying the SSE course
- Engr network remaining collaborative
- Managing expectations
- Exciting times ahead...potentially biggest construction boom in over half a century!