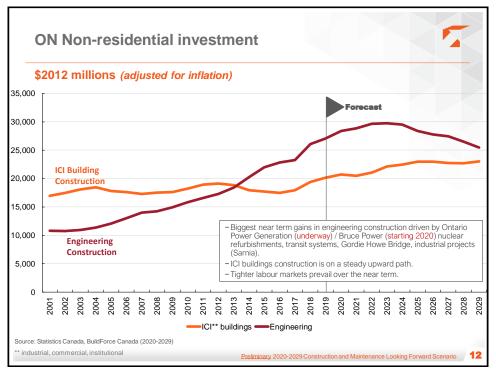
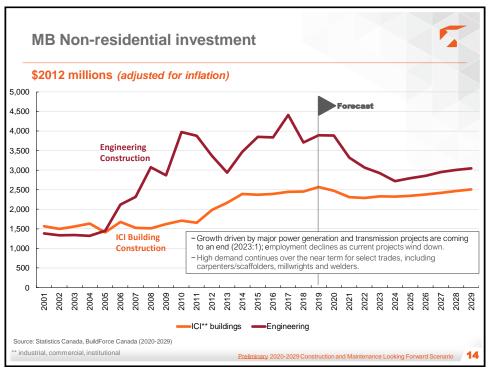
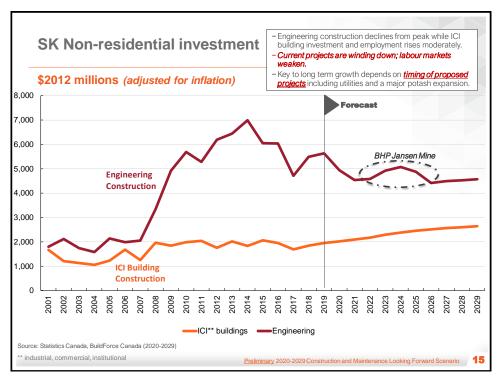


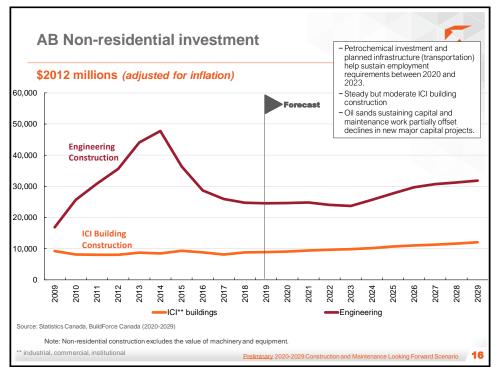
Company: Project Name	Region	Anticipated Construction Dates	Estimated Value (\$Millions)	
- Transportation			(4	
Ontario Line - Transit Expansion	GTA	2022-2027	11.000	
Eglington Crosstown LRT	GTA	2016-2021:3	9,100	
Go Expansion: OnCorr: GO RER electrification project	GTA	2021-2028	6,800	
onge Subway Extension (YSE) North	GTA	2023-2030	5,000	
Scarborough Subway Extension	GTA	2023-2029	5,000	
glington Crosstown LRT - West Extension to airport	GTA	2022-2029	4,000	~ \$55 Billion
inch LRT West	GTA	2020:2-2023:4	2,500	
Ottawa Confederation Line Extension Project	East	2019:1-2026:4	3,500	
Hurontario LRT	GTA	2020:2-2022:4	2,000	
Toronto Union Go Transit Electrification Expansion	GTA	2022-2026	2,000	
Barrie Go Rail Corridor Expansion	Central	2020-2024	1,848	
Sheppard East LRT Expansion	GTA	2025-2029	1,000	
Hamilton LRT	Central	2021:-2025:4	1,000	
- Utilities				1
DPG - Darlington Nuclear Refurbishment	GTA	2016-2025	13,500	~ \$26.5 Billion
Bruce Nuclear Refurbishment	SW	2020-2033	13,000	320.3 Billion
- Manufacturing				1
Nova Chemicals -SCLAIRTECH technology facility (AST2)	SW	2018:2-2021:3	2,000	1
and Corunna Phase 3				~ \$2.6 Billion
Maple Leaf Foods: Poultry Processing Plant	SW	2019:1-2020:4	660	\$2.0 Billion
- Health services		<u> </u>		1
Ottawa Civic Hospital	East	2023-2027	2,500	
Mississauga Health Trillium	GTA	2023-2026	2,000	
Vindsor Acute Care Hospital Facility	SW	2026-2030	1,500	~ \$10.5 Billion
Mackenzie Vaughn Hospital	GTA	2016:4-2020:4	1,300	
Vest Park Healthcare Centre	GTA	2019:3-2023:4	1,200	
CAMH Queen Street Redevelopment - Phase D	GTA	2023-2025	1,000	
Queensway Health Centre	GTA	2022-2025	1,000	1
- Roads, highways and bridges		2010 1 2000 1	0.500	
Gordie Howe Bridge - Detroit River International Crossing	Southwest	2018:4-2022:4	2,500	
Gardiner Rehab 107 Extension - Phase 2	GTA	2018-2024	2,200 1,200	~ \$6.5 Billion
	GTA	2016-2020:1	1,200	T 0.5 Billion

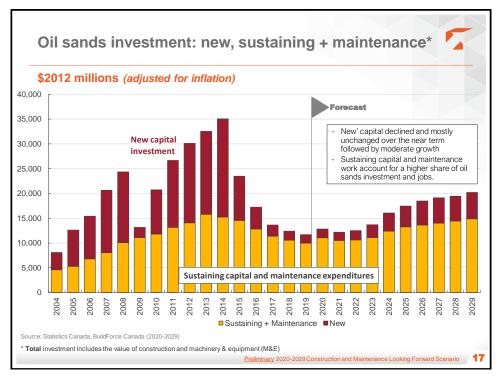




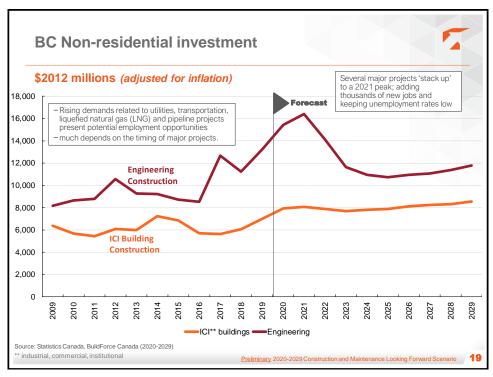








	COLECTS			
BC – Select current and proposed major projects				
Company: Project Name	Construction Dat			
Transportation & warehousing				
Shell: LNG Canada Facility	2018:1-2023:4			
TC Energy: Coastal Gaslink (Shell: LNG Canada Facility)	2019:1-2022:1			
Pacific Oil & Gas: Woodfibre LNG Facility	2019:3-2021:2			
Fortis BC Energy Inc: Eagle Mountain Gas Pipeline	2019:3-2021:2			
Trans Mountain Pipeline (TMX) Twinning	2020-2022			
Vancouver Airport Authority: International Airport Expansion	2019-2029			
BC MTI / TransLink: Millenium (Broadway) Line	2020:1-2025:4			
BC MTI / TransLink: Surrey LRT	2020:3-2024:3			
Vancouver Fraser Port Authority: Roberts Bank Container Expansion Program	2020-2026			
- Utilities				
BC Hydro: Peace River Site C Dam	2015:3-2024:4			
Elk Valley Water Quality Plan	2018-2022			
Capital Region District: Core Area Wastewater Management Program	2017:2-2020:4			
North Shore Wastewater Treatment Plant	2018:1-2021:3			
Health & educational services				
St. Paul's Hospital	2020:4-2027:4			
Royal Columbian Hospital Redevelopment - Phase 2/3	2020:2-2026:4			
Grandview Heights Secondary School	2019:2-2021:2			
Roads, highways and bridges				
TransLink: Patullo Bridge Replacement	2019:4-2023:4			
BC Ministry of Transportation: Highway 1 Improvements	2018:3-2023:3			
BC Ministry of Transportation: George Massey Tunnel Replacement	2024-2029			





## **Key Highlights**



- General trends, investment slows:
  - more moderate employment growth compared to last two decades; stronger levels of activity in Ontario and British Columbia.
  - uncertainty around timing for proposed new resource development projects across Canada (e.g., FIDs mining, pipeline, oil and gas).
  - labour demand shifts more to infrastructure renewal, higher levels of industrial, commercial, and institutional (ICI) building construction and rising maintenance work.
- Market challenges:
  - replacing an aging workforce / expected retirements
  - slower population growth; less youth available to enter the labour force.
  - competition against other industries facing similar increases in age-demographic challenges.
  - sustain commitment to recruiting, training and retention, even during period of slow growth in some regions.
  - recruitment of underrepresented groups into the construction labour force women, Indigenous peoples, and new Canadians
  - Intra (across regions within a province) / inter (across provinces) mobility to meet peak demand needs (ON / BC).

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## **Demographic Trends**

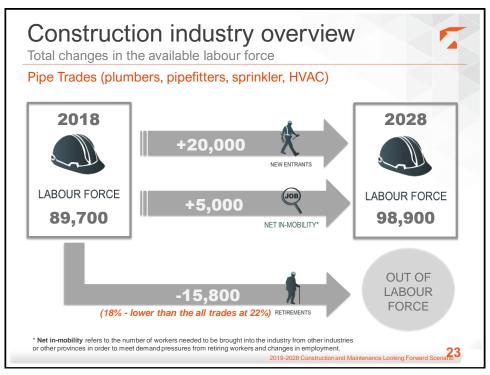


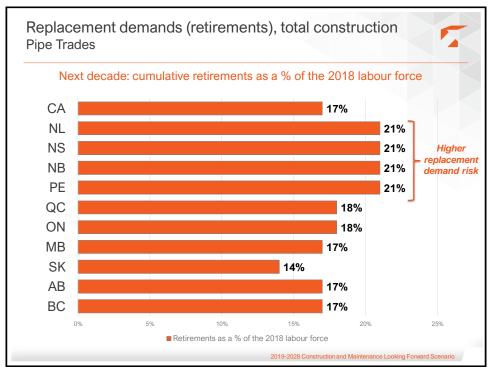


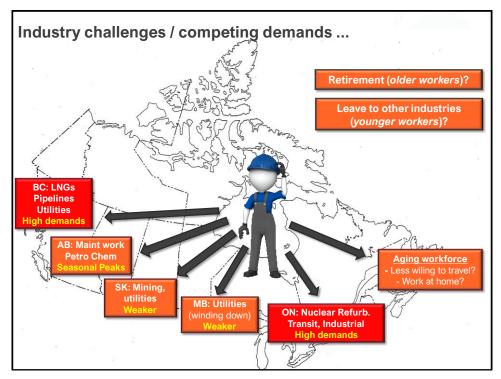
RETIREMENTS

- Canada-wide, over 22% of the current construction workforce is expected to retire over the next decade, or an estimated 261,000 workers.
  - Pipe trades (plumbers, pipefitters, sprinkler, HVAC); ~15,800 (18%, lower than the all trades 22% average)
  - Higher retirement risk in Atlantic Canada
- This represents a significant loss of skilled and experienced workers.
  - slower population growth; less youth available to enter the labour force.
  - competition against other industries facing similar retirement challenges.

2019-2028 Construction and Maintenance Looking Forward Scenario 22









## 10/16/2019

