

Canadian Urban Transit Research & Innovation Consortium (CUTRIC) 2017

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May 12, 2017



Pillar #1 Zero-emissions & low-carbon propulsion systems with fueling & charging system integration

 Supporting battery electric (BEV), plug-in hybrid electric (PHEV), hydrogen fuel cell electric (FCEV), compressed/renewable natural gas (RNG) & dimethyl ether (DME) technologies for light- and heavyduty vehicle platforms.



Pillar #2 "Smart" vehicles and "smart" infrastructure

- Solutions in automated, autonomous and connected vehicle systems.
- Sensors, signaling, and control systems that advance the autonomy and digital connectivity of "smart" vehicle systems (on roads & rail) and infrastructure.

Pillar #3 Big data advanced mobility

- Optimization of public and private fleet networks (transit, integrated and urban mobility).
- Big data use in descriptive, analytic, and predictive mobility solutions.
- Artificially intelligent data-driven systems.



Pillar #4 Cybersecurity in mobility

 Securitization of low-carbon and smart mobility systems, including autonomous and connected vehicles as well as real-time communications for mobility applications.

Pillar #5 Light-weight materials & manufacturing

Development of advanced materials, such as composites, polymers, advanced metals, and multi-material designs for light-weight vehicles.





CUTRIC Pan-Canadian Electric Bus Demonstration & Integration Technology Trial



CUTRIC Pan-Canadian Electric Bus Demonstration & Integration Trial Transit Planning & Environmental Objectives



CUTRIC Pan-Canadian Electric Bus Demonstration & Integration Technology Trial Outcomes Phase I (2017-2020), II (2018 – 2021), III (2019 – 2022)





CUTRIC Pan-Canadian Electric Bus Demonstration & Integration Trial: Stakeholders (Phase I)



Thank you!

Questions?



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