



**Asia-Pacific
Economic Cooperation**

**Advancing
Free Trade for Asia-Pacific
Prosperity**

Economy Report - Canada

April 23-24, 2018 – TPTWG-45

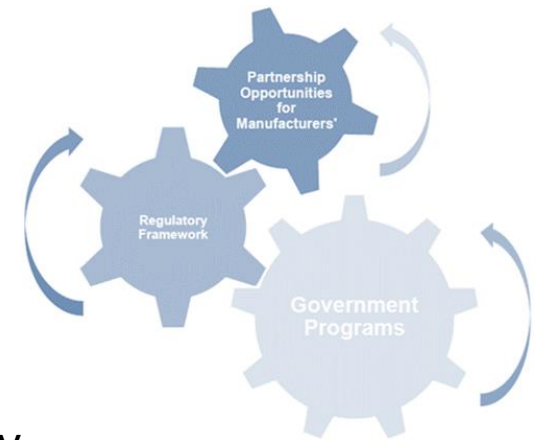
Presented by
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Canadian Considerations: Connected and Automated Vehicles (CV/AVs)



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- In Canada, all levels of government have distinct jurisdictional responsibilities that will be impacted by the introduction of CV/AVs
- Governments must work together to bring about the most beneficial outcomes
- Testing and deployment of CV/AVs depends on an open dialogue and partnerships between governments and industry
- There is a need to address significant technical, policy and regulatory issues to ensure technologies are deployed safely and effectively



- CV/AV technology is quickly advancing and has far-reaching implications on transportation, and on the economy and society as a whole

Key Anticipated Benefits of CV/AVs



- **Efficiency:** Traffic congestion costs the Canadian economy more than \$6 billion annually. CV/AVs will help increase competitiveness by reducing transportation costs and decreasing congestion.
- **Safety:** In Canada, there are over 500,000 motor vehicle collisions annually, resulting in more than 1,800 fatalities. CV/AVs will improve road safety by significantly reducing the severity of these collisions.
- **Environment:** CV/AVs have the potential to reduce environmental impacts by improving traffic flows, and facilitating the movement of goods/people.
- **Accessibility and Mobility:** CV/AVs will improve access to transportation and the mobility of Canadians who cannot drive a vehicle, including individuals with disabilities.

Considerations for Policy Makers



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- Regulating vehicle safety
 - The primary safety challenge could be during the transition period from human to computer drivers
- Aligning regulations and standards
- Encouraging innovation
- Educating the public
- Protecting data privacy and security
- Building and upgrading infrastructure

Canada's Policy, Program, and Regulatory Initiatives



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- **Transportation 2030:** The Minister's strategy for the future of transportation in Canada highlights innovation as a priority
- **Budget 2017:** Canada is investing \$50 million to develop regulations and standards for CV/AVs and drones; and to work with stakeholders to ensure the safe integration of these technologies
- **Program to Advance Connectivity and Automation in the Transportation System (ACATS):** Helps prepare Canadian jurisdictions (provinces/territories, municipalities, Indigenous groups, academia, and not-for-profit organizations) for emerging technical, regulatory, and policy issues
- **Proposed amendments to the *Motor Vehicle Safety Act*:** To help facilitate innovations, amendment will provide greater flexibility to implement cutting-edge technology, vehicle innovations, and alternative fuel systems

Canadian CV/AV Centres of Expertise



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Transport Canada's Motor Vehicle Test Centre

- Leader in testing in North America – supporting development of guidelines, standards, regulations, and crash counter-measures
- Conducts research on crash avoidance and human factors needs, and shares results with industry



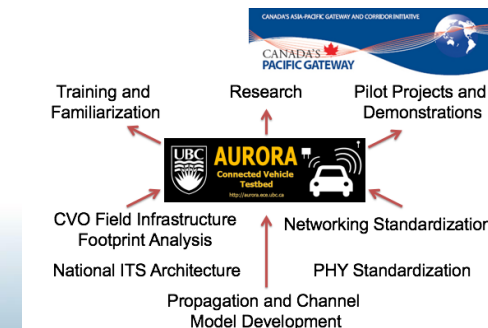
Waterloo Centre for Automotive Research

- Canada's largest automotive/academic enterprise, with synergy across IT and automotive clusters
- Develops real-time communication solutions for seamless connectivity between vehicles, infrastructure, and wireless devices



Active-Aurora Project

- Evaluates CV technologies for safety, traffic management, and wireless communications for freight security and efficiency
- Unique partnership among governments, academia, and industry, consisting of 4 test beds and 2 laboratory test environments



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