Promoting and Preparing for Connected and Automated Vehicles (CAVs) in Canada

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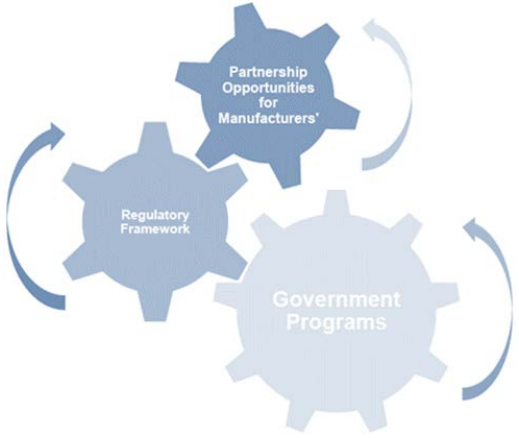
CAVs technology is quickly advancing and has far-reaching implications on transport, and the economy and society as a whole

In Canada, all levels of government have distinct jurisdictional responsibilities that will be impacted by the introduction of CAVs

Governments must work together to bring about the most beneficial outcomes

Testing and deployment of CAVs depends on an open dialogue and partnerships between governments and industry

Significant technical, policy and regulatory issues to ensure technologies are safely and effectively deployed



Governments need to consider numerous policy impacts of CAVs, and we need a better line-of-sight on issues and challenges

THE ROLE OF GOVERNMENTS

- ☑ Regulate Vehicle Safety
- ☑ Harmonize Standards within Canada and the US
- ☑ Encourage Innovation
- ☑ Protect Privacy of Individual Vehicle Users
- ☑ Educate the Public
- ☑ Build Data Expertise and Capacity
- ☑ Develop and Enforce Traffic Laws
- ☑ Oversee Insurance and Liability
- ☑ Ensure a Safe and Smooth Transition
- ☑ Build and Upgrade Transportation Infrastructure

How to prioritize actions over the short, medium and long-term: Some observations and considerations on the key issues and gaps

- **Regulating Vehicle Safety**
  All levels of government will need to assess technologies, develop standards, and facilitate the safe introduction of CAVs

- **Aligning Regulations and Standards**
  Harmonization across jurisdictions and building an integrated market will facilitate industry testing and safe deployment

- **Encouraging Innovation**
  Governments must be mindful of how CAVs regulation impacts innovation and economic growth

- **Educating the Public**
  Public outreach campaigns can inform citizens on the safety benefits and risks of CAVs

How to prioritize actions over the short, medium and long-term: Some observations and considerations on the key issues and gaps

- **Protecting Data Privacy and Security**

  Governments must advocate for and protect the privacy rights and security of individuals

- **Build and Upgrade Infrastructure**

  Significant physical infrastructure changes can be deferred until governments learn from early AV integration, but there are digital infrastructure needs to support wide-spread use

- **Transitioning Could be the Primary Safety Challenge**

  It is the transition period, when human drivers must interact with computer drivers, that poses the greatest uncertainty, challenge, and risk to public safety

Transport Canada's Policy, Program and Regulatory Initiatives

- **Transportation 2030:** Minister Garneau's strategy for the future of transportation in Canada highlights innovation as a priority

- **Budget 2017:** Transport Canada is investing $50 million to develop regulations and standards for CAVs, as well as unmanned aircraft systems; and to work with stakeholders to ensure the safe integration of these technologies

- **Program to Advance Connectivity and Automation in the Transportation System (ACATS):** Objective is to help prepare Canadian jurisdictions for the array of technical, regulatory and policy issues that are emerging

- **Proposed amendments to the *Motor Vehicle Safety Act*:** To help facilitate innovative technologies, by providing greater flexibility to allow and support cutting edge technology, vehicle innovations and alternative fuel systems

Concluding Comments

- Integration of CAV technologies into the Canadian transportation sector will require a high degree of collaboration and investment across all orders of government, industry and other stakeholders

  - **Develop a National Policy Framework**
  - **Jurisdictional Collaboration and Alignment**
  - **Promote and Invest in AV Testing**

Thank you!

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