VEHICLE TECHNOLOGY TESTING ON MANITOBA ROADS

Online public engagement Summer 2021





Purpose of Online Engagement

- To raise public awareness about vehicle technology testing and automated vehicles.
- To seek public and stakeholder feedback about vehicle technology testing on Manitoba roads, which will inform development of future regulations and a permitting system.





Background

- Manitoba Government committed to develop a legislative framework to test automated vehicles on roads.
- Manitoba's priority is to advance Manitoba businesses and to foster an environment for local companies to thrive as transportation technologies emerge.



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Background

- Bill 20, The Vehicle Technology Testing Act, received Royal Assent on May 21, 2021. It enables future testing of vehicle technology and vehicle types on Manitoba roads, including automated vehicles.
- Testing on public roads will be permitted through a new regulation and a permit issued by the Minister of Infrastructure with eligibility requirements and conditions to maintain road safety.



What are Automated Vehicles?

- Autonomous or automated vehicles (AVs) are commonly known as self-driving cars.
 - AVs use a combination of sensors, onboard computers, and controllers that allow the vehicle to control driving functions.







Potential Benefits of Automated Vehicles

- Create economic opportunities
- Improve road safety and reduce collisions
- Improve traffic flow and reduce congestion
- Reduce greenhouse gas emissions
- Connect rural and urban communities
- Enhance mobility and mobility equity





Levels of Automated Vehicles

- AVs are classified based on a progressing scale of automation.
- Levels 0 2: Driver support features are engaged.
 - Level 0 2 are currently available for sale and use in Canada. Some of the features include: adaptive cruise control and park assist.
- Levels 3 5 are vehicles that can drive without human assistance.
 - Not for sale and use in Canada.
 - Available for testing under certain conditions.



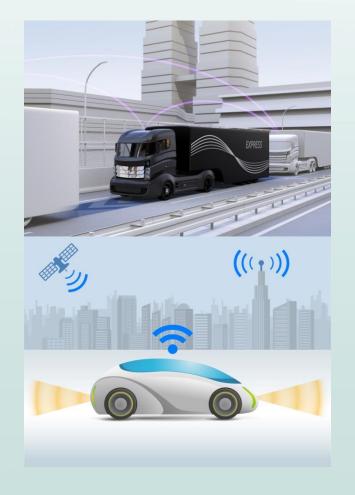
Levels of Automated Vehicles





What are Connected Vehicles?

- Wireless information flows to the vehicle and driver.
- The vehicle communicates with other vehicles and transportation infrastructure such as traffic lights and roads.





What is Manitoba's role?

- In Canada, the federal government regulates vehicles; however, provinces and territories regulate the use of vehicles on public roads.
- Before automated driving systems are deployed for public use on roads, testing of vehicles on roads is required.
- Manitoba wants to allow the safe testing of vehicle technology on roads to support local industry and prepare for future deployment of automated vehicles.



Why is allowing testing vehicle technology important?

- Supports Manitoba's agriculture, trucking, vehicle manufacturing and technology development sectors, and attracts companies to the province to test in our climate and geography.
- As new transportation technology emerges, Manitoba is proactively planning for inevitable introduction of automated vehicles and implications for road safety, mobility, infrastructure and land use planning.







Areas for feedback and input

- This public engagement includes feedback on:
 - Awareness of automated vehicles
 - Issues or concerns related to testing vehicle technology on roads and sidewalks
 - Testing time of year, geographic areas and other conditions
 - Remote driver (driverless) testing
 - Cooperative truck platooning



What's next

- Provide your feedback through an online questionnaire or submit comments on the EngageMB website
- Results from online public engagement will be posted on the EngageMB website
- We will:
 - Review and consider public and stakeholder input
 - Develop a new regulation and permitting system informed by the engagement results, with the regulation subject to public consultation





Thank You!

Connect with us: policymi@gov.mb.ca