

# VEHICLE TECHNOLOGY TESTING ON MANITOBA ROADS

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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

## Level 0 - 2



## Level 3 - 5





# 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!

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