AUTOMATED VEHICLES TACTICAL PLAN

TORONTO

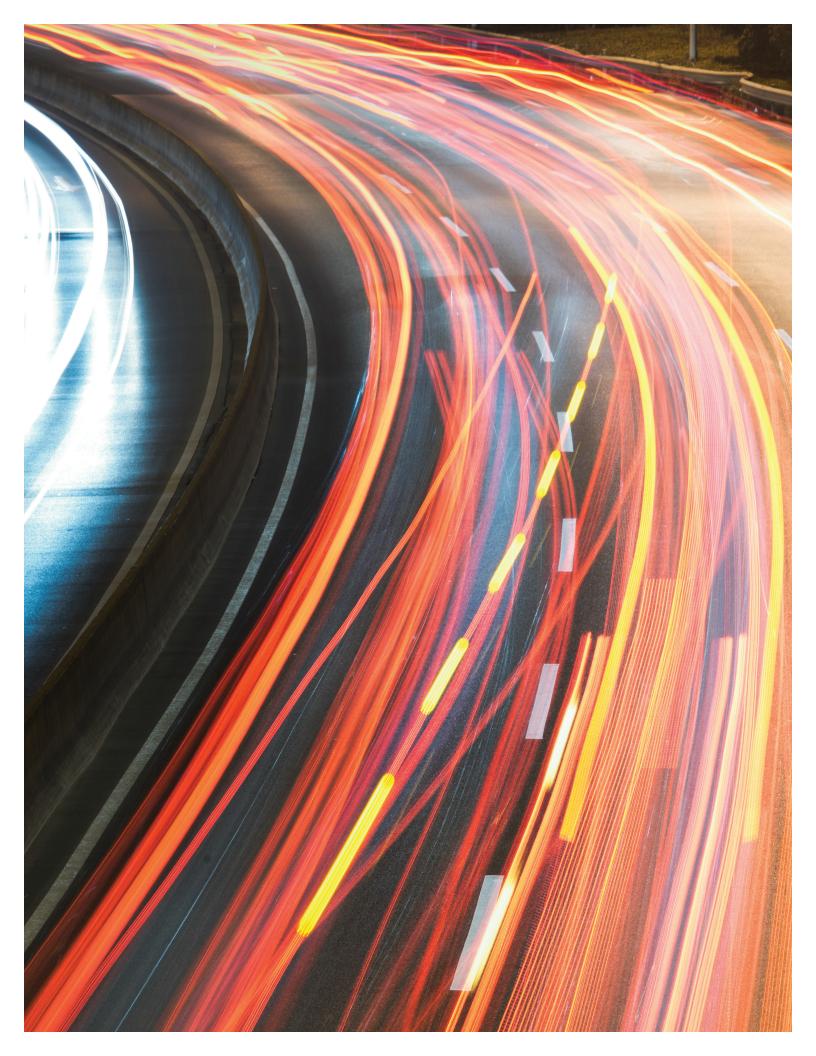# PART II
TACTICAL PLAN

PART II: TACTICAL PLAN

Technological innovation can be an exciting, beneficial, yet disruptive force. There are few areas in which this is more apparent than when looking to automated vehicles (AVs) and the possible ways in which they could transform cities.

The Automated Vehicles Tactical Plan was created to fill a gap: between emerging technical understandings of AVs and the City of Toronto's existing long-term visions, strategies, and plans of a healthy, equitable, livable and sustainable City. The AV Tactical Plan outlines how the City should prepare for AVs and how it can influence the direction of the technology in these early stages. The overall goal is to be proactive, ensuring that Toronto is well-placed to both maximize opportunities and mitigate impacts arising from the arrival of AVs in the City.

In 2016, City Council requested staff to report on preparations, potential implications and public acceptance of AVs. Since then, staff have developed this Tactical Plan to articulate a City vision in response to the opportunities and challenges arising from automated vehicle technology – ensuring that all tactics included in the Plan support existing policies, plans, strategies, and directives approved by City Council. It is important to note that the scope of this Plan only addresses vehicles operating on public roads and streets. It is not intended to address automation systems controlling the movement of trains, aircraft, off-road vehicles, and unmanned aerial vehicles (UAVs – commonly known as drones).

This Plan recognizes the division of roles and responsibilities between other orders of government, industry, academia and the community. The City of Toronto also understands that the impacts of AVs could span across stakeholder groups and jurisdictional boundaries and is committed to building effective relationships with these groups to comprehensively prepare for and address vehicle automation.

The Automated Vehicles Tactical Plan consists of seven broad Directions, and three additional sections for internal operations and further study. Each Direction statement is built on a foundation comprised of existing City policies, plans and strategies. The seven Directions are:

Social Equity & Health
Environmental Sustainability
Economic Sustainability
Privacy
Road Safety & Security
Integrated Mobility
Transportation System Efficiency

The Plan is divided by each Direction, and includes a brief description of its purpose, followed by its guiding policies and strategies. Following the introduction for each Direction, there are key performance indicators (KPIs) included for monitoring the progress of the AV Tactical Plan. These KPIs are connected to a 2050 Goal.

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Goals paint a mental image of what life in the City of Toronto could be like in 2050 if the City has successfully harnessed the potential of automated vehicles to achieve its broader vision. Goals are a long-term outcome, meant to be achieved any time before 2050; they are not specific targets to be met in the year 2050. Goals in this Plan form subsections for each Direction. Underlying actions or "tactics" contribute to the success of these Goals.

Tactics and their explanations form the bulk of this Plan. Each section will list the 2050 goals, followed by the underlying tactics that should be taken to achieve it. Tactics can be completed sometime between tomorrow and before 2050 – and vary in their timelines. Most Goals have more than one Tactic to support them and outline the associated automated vehicle impact that the City can address. The Plan will include the stated Tactic, a brief explanation of its intent, followed by proposed progress for the City to 2022.

The City acknowledges that not all Tactics are equally urgent. Some impacts from automated vehicles will need to be addressed in the long term, while some actions can be taken today to begin proactively preparing for this technology. As such, the proposed progress for 2022 outlines the specific initiative the City will undertake in order to contribute to or implement the Tactic in the next three years.

Following the seven Directions, there are three additional sections for further study and internal operations that focus on:

Public Service Vehicles
Additional Research & Future-Proofing
Tactical Plan Governance

These sections also include Tactics, descriptions and proposed progress to 2022 for items that are either more operational in nature or correlated to many of the remaining unknown factors surrounding AVs.

The *Glossary and References* sections provides additional information on terms and resources used in this Plan.