

**AUTONOMOUS VEHICLE INNOVATIONS NETWORK DEMONSTRATION ZONE –
TECHNOLOGY SUPPLIER AGREEMENT**

THIS AGREEMENT made this _____, day of _____, 20__ (the “**Effective Date**”)

B E T W E E N:

AUTOMOTIVE PARTS MANUFACTURERS’ ASSOCIATION (“APMA”), a non-share capital corporation incorporated under the Corporations Act, Ontario, with a principal place of business at 10 Four Seasons Place, Suite 801, Toronto, Ontario M9b 6H7

-and-

ABC Ontario Inc. (“ABC Inc.”), a share capital corporation under the *Corporations Act, Ontario* with a principal place of business at 123 Main St., Ontario Town, Ontario A1B 2C3 (the “**Supplier**”)

WHEREAS the APMA is Canada’s national association representing Original Equipment Manufacturers (OEM) producers of parts, equipment, tools, supplies, advanced technology, and the fundamental objective of the APMA is to promote the original equipment (O.E.) automotive supply manufacturing industry both domestically and internationally

AND WHEREAS the APMA has entered into an agreement with the Province of Ontario and the Ontario Centers of Excellence (OCE) for the purposes of establishing and managing a robust demonstration site wherein connected and automated vehicle technologies from Ontario based Small and Medium Sized Companies (SMEs), OEM, Multinational Enterprises (MNE) and other potential customers are able to test their technologies in real life and time scenarios using demonstration vehicle platforms (“**Automated Vehicle Project**”);

AND WHEREAS the APMA has entered into an agreement with the City of Stratford (the “**City**”) to provide the physical testing ground for the Automated Vehicle to utilize the City as the principle real life, real time, automated test site to test approximately twenty automated vehicles over a period of five (5) years (“**Demonstration Zone**”);

AND WHEREAS ABC Inc. will provide the Technology (the “tech”) listed in Schedule “A” of this Agreement to be installed on ___ (*number of vehicles*) vehicles for the purposes of testing the tech within the Demonstration Zone and the Automated Vehicle Project.

AND WHEREAS Studio 63 Inc. (“Studio 63”) and/or National Research Council (NRC – London) is a share capital corporation under the *Corporation Act, Ontario*, and has been retained by the APMA to perform all of the installations of the technologies within the Automated Vehicle Project;

AND WHEREAS the National Research Council (NRC-London) is an agency of the Government of Canada, reporting to Parliament through the Minister of Innovation, Science and Economic Development, which is governed by a council of appointees drawn from its client community and has been retained by the APMA to perform all of the installations of the technologies within the Automated Vehicle Project.

AND WHEREAS Ontario Regulation 306/15 made pursuant to the provisions of the Highway Traffic Act governs the pilot project for automated vehicles;

NOW THEREFORE this Agreement witnesses that in consideration of the mutual agreements, covenants, promises and undertakings contained herein, the Parties covenant and agree as follows:

Technology and Use

1. The Supplier will provide the Technology System (“*name of tech*”) on ___ number of APMA owned vehicles as listed in Schedule “A” of this Agreement, for a period of time in which the parties agree and or until such time as the APMA decides to decommission the vehicle. With the term of this agreement the Supplier shall provide all necessary updates to the Tech, where required.
2. The Supplier, confirm and agree that the Tech, which is being provided is for the purpose and use of providing a demonstration of the Tech applicability within the larger Demonstration Zone and for the purpose of demonstrating the Supplier’s tech, showcasing the Supplier to OEMs and upper level Tier Companies and for the Automated Vehicle Project at large.

Installation

1. Studio 63/NRC - London shall furnish all necessary labour, materials, and other services required to accomplish installation at the installation sites as specified by Studio 63/NRC-London. Installation shall be performed during normal business hours, and the Supplier with assistance from the APMA, shall make all the necessary arrangements to allow Studio 63/NRC-London sufficient time and access to the Tech to complete the installation. Studio 63/NRC-London along with the Supplier will ensure that the Tech has passed all hardware/software functionality test, the Supplier shall certify to the APMA that the Tech is ready and available for use.

2. APMA, Studio 63/NRC-London and the Supplier have jointly developed the Implementation Plan (Schedule “B”). The Implementation Plan describes the action items and events, responsible individuals and entities, and any other information pertinent to the implementation of the Tech and related services under this Agreement. The implementation and installation of the Tech shall be in accordance with the Implementation Plan. No variation, modification or amendment thereof shall be made without the prior mutual consent of each party. At all times, APMA, Studio 63/NRC-London and the Supplier, shall strictly adhere to the schedule of events and timings as set out in the Implementation Plan (Schedule “B”).

Licenses

If required under law, the Supplier shall grant the APMA and Studio 63/NRC-London any and all licenses, to the Tech, if need be, for the purpose of using the Tech in the manner as described by this Agreement. The parties acknowledge that Studio 63/NRC-London and APMA are receiving only the right to use the original and permitted duplicate copies of the Tech as described herein and does not acquire any rights of ownership in the Tech which rights shall remain exclusively with the Supplier. The Licence shall commence upon delivery of the Tech and shall remain in force as long as the in use within the Demonstration Zone, and that the Parties are in compliance with all the provisions of the agreement.

Warranties

1. The Supplier warrants that the Tech will meet or exceed the performance standards specified in Schedule “A” at the activity levels and data storage capacity levels described therein. In the event that the Tech, operating either as installed or at the current levels identified in Schedule “A”, fails to perform at the levels specified at any time within five (5) years after the installation of the Tech, the Supplier will provide at no additional cost to the APMA additional hardware and software necessary to bring the Tech into compliance with these requirements.
2. The Supplier warrants that it has all commercial and legal rights and interest over the Tech as described herein, and warrants that such rights are not subject to any third party with any claim or interest in the intellectual property of the tech, which may inhibit the use of the Tech by the APMA in the Demonstration Zone.
3. The Supplier warrants that it has all commercial and legal rights and interest over any equipment, software or hardware relating to the Tech as described herein, and warrants that such rights are not subject to any third party with any claim or interest in the intellectual

property of the equipment, software or hardware relating to the Tech, which may inhibit the use of the Tech by the APMA in the Demonstration Zone.

4. The Supplier warrants that the any and all documentation delivered hereunder contains a complete description of the Tech and is a complete guide to the operation and implementation of the Tech.
5. The Supplier warrants that the Tech is original in design and operation and is proprietary to the Supplier and at the date of this agreement there are no claims, actions, applications in court or before any regulatory body made nor pending or threatened regarding the ownership of the Tech.
6. The Supplier warrant that the Tech has met all safety and regulatory standards applicable to its application in autonomous vehicles pursuant to Ontario Regulation 306/15 within the Highway Traffic Act.
7. The Supplier warrants that the Tech is ready for market and commercial application and is not a test model, or trial application of the Tech.
8. The Supplier warrants that they have executed all necessary contracts and agreements with Studio 63/NRC-London with respect the installation of the Tech at their site, and by their personnel.
9. If a chemical or hazardous material is deemed necessary to conduct a service, it is the responsibility of the Supplier to provide all safety information (i.e. Material Safety Data Sheet) and appropriate levels of management, handling and storage 4 weeks in advance to Studio 63/NRC-London. If the Supplier requests that employees of Studio 63/NRC-London shall perform any of the above actions (manage, handle or store a chemical or hazardous material), a pre-contract assessment shall be conducted to determine if the Laboratory has the appropriate training levels, personal protective equipment and storage equipment and environment, as per directions taken from the MSDS sheet. Any supplementary costs to either the APMA or Studio 63/NRC-London to ensure the safe management, handling and storage of such chemical or hazardous material shall be borne by the Supplier and identified as such in the implementation plan. It is also the suppliers responsibility to remove from NRC property and dispose of any hazardous materials once testing has concluded.

Insurance

1. The Supplier shall be required to purchase, maintain in force, or provide at its own expense (including the payment of all deductibles) and for the duration of this Agreement, the following policies of insurance, which policies shall be in a form and with an insurer

acceptable to the APMA. A certificate of these policies originally signed by the insurer or an authorized agent of the insurer must be delivered to the APMA prior to the commencement of the installation of the Tech:

- a. Professional Liability (errors and omissions coverage) for the performance of Services by the Supplier providing that the policy is:
 - (i) in the amount of not less than [One Million Dollars (\$1,000,000)];
 - (ii) designed to extend to infringement of copyright and other intellectual property, including misuse of trade secrets;
 - (iii) not to be construed as a limit of the liability of the Supplier in the performance by them of the Services under this Agreement;
 - (iv) notwithstanding anything to the contrary contained in this Agreement, kept in full force and effect for a period of time ending no sooner than two years (2) after the termination or expiry of this Agreement, as the case may be.
 - b. Comprehensive General Liability, provided that the policy:
 - (i) is in the amount of not less than [Two Million Dollars (\$2,000,000)] per occurrence;
 - (ii) adds the Customer as additional insured;
 - (iii) has provisions for cross-liability as between the Supplier and the APMA, broad form contractual liability, owner's/ contractor's protective liability, contingent employer's liability, employer's liability, non-owned automobile liability and personal injury liability;
 - c. provides for thirty (30) days' prior written notice of cancellation or material change.
2. At the expiry date of the policy, the Supplier shall provide original signed Certificates evidencing renewals or replacements to the APMA prior to the expiration date of the original policies, without notice or request by the APMA.
 3. The Supplier shall also maintain Worker's Compensation, and Employer's Liability Insurance to cover all its personnel engaged in the performance of the services herein described, as well as damages arising as a result of the performance of such services. The Supplier further agrees to require its subcontractor(s), if any, to maintain General Liability Insurance, Worker's Compensation, and Employer's Liability Insurance. The amount of such coverage shall be as reasonably determined by the owner.

Indemnification

1. The Supplier shall defend or settle any suit or proceeding brought against APMA based on a claim that any Tech made to The Supplier's design and furnished under this agreement constitutes an infringement of any existing Canadian patent, provided The Supplier is notified promptly in writing and is given complete authority and information required for the defense of such a claim and The Supplier shall pay all damages and costs awarded in the claim against Customer, but shall not be responsible for any cost, expense or compromise incurred or made by Customer without Supplier's prior written consent
2. APMA shall not be liable for any infringement or claim based upon use of the Tech, any device in combination with other devices or with software not supplied by Supplier, or with modifications made by a third party.
3. The foregoing states the entire liability of Supplier for all loss and damage to APMA arising from patent infringement

Intellectual Property

1. The Supplier will be responsible or having executed any and all non-disclosure agreements with any third parties, in relation to this Agreement, including Studio 63/NRC-London with respect to any intellectual property matters with respect to installation of the Tech.
2. The Supplier will indemnify and hold harmless the APMA for any claim against the intellectual property of the Tech, and the APMA make no warranty or condition to the Supplier as to any infringement of any third-party with respect to same.

Data Collection and Storage

1. As per the agreement between the OCE and the APMA, the APMA is subject to the Data and Information Sharing Protocol ("DISP"). The Supplier confirms that they have read and understood the DISP and its appendices, attached herein and marked as Appendix 1 to this Agreement.
2. The Supplier and the APMA confirm and agree that the DISP its recitals and appendices from part of this agreement, and are binding on the parties herein.
3. All data obtained through the use of the Tech in the Demonstration Zone will be stored in a manner as agreed upon by the parties and subject to the terms of the DISP and will be held and controlled by the APMA. Both APMA and the Supplier will have all rights to

access the data collected and may not use the data in any manner without written consent of the parties or in contravention to the DISP.

Withdraw

1. The Parties acknowledge that the tech placed on the vehicles will be potentially combined with other tech from other suppliers. The Parties agree that the Supplier, for reasons that include but are not limited to; trade-secrets, intellectual property, commercial reasons and competition reasons, that the Supplier may withdraw their tech and participation in the Automated Vehicle Project.
2. The Supplier agrees that if they decide to withdraw from the Automated Vehicle Project, notice of the Supplier's withdraw will be provided in writing to the APMA not less than thirty (30) days prior to any installation taking place.
3. The Supplier agrees that if they decide to withdraw, and the installation has commenced, any and all costs for its removal shall be borne by the Supplier, and not the APMA.

Non-Assignability

Neither party shall assign any of its rights or obligations under this agreement, without the written consent of the other party, and such consent shall not be unreasonably withheld.

No Waiver

No waiver of any breach of any term or condition of this agreement shall be construed to waive any subsequent breach of the same or any other term or condition of this agreement.

Force Majeure

The parties will exercise every reasonable effort to meet their respective obligations hereunder shall not be liable for delays resulting from force majeure or other causes beyond their reasonable control, including, but not limited to, compliance with any government law or regulation, acts of God, or omissions, fires, strikes, lockouts, natural disasters, wars, riots, transportation problems and/or any other cause whatsoever beyond the reasonable control of the parties. Any such cause will extend the performance of the delayed obligation to the extent of the delay so incurred.

Publicity

Supplier agrees to submit to APMA all press releases, advertising, sales promotions, and other publicity matters related to any product furnished by Supplier to the Customer wherein the Customer's name is mentioned. Excluding the Supplier customer list, Supplier shall not publish nor knowingly permit to be published any such material without the prior written consent of the Customer. Supplier must obtain prior consent to use the Customer personnel as a reference.

Severability

If any provision of this agreement shall be held to be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired.

Governing Law

This agreement shall be governed by the laws of the Province of Ontario

Entire Agreement

This agreement including the documents incorporated by reference contains the entire understanding of the parties hereto and neither it nor the rights and obligations hereunder may be changed, modified or waived except by an instrument in writing signed by the parties hereto.

IN WITNESS WHEREOF the parties have caused this agreement, which shall inure to the benefit of and be binding upon the successors of the respective parties, to be signed and entered as of the date first mentioned above.

**Automotive Parts Manufacturers’
Association**

ABC INC.

Per:

Per:

Name:

Name:

Title: -

Title: -

(I have authority to bind the corporation)

APPENDX 1

DATA AND INFOMRATION SHARING PROTOCOL

1. Objectives

A major component of the Project will be the generation and analysis of discrete and continuous data and information for the efficient operation of the Ontario C/AV ecosystem.

OCE and/or APMA do not intend to collect, analyze or otherwise handle and disseminate data and information considered by Participants (as defined in Schedule A) to be proprietary. OCE and/or APMA will work with Participants to help ensure that the collection of information supports their interests and reflects their project design and business needs.

2. Reporting Requirements

Appendix 1 of this Protocol identifies the list of data and information elements required to be reported biannually to OCE by Participants that receive support to research, develop, prototype, test and / or demonstrate technologies through, or as a result of Project funding. APMA shall ensure that Participants collect and prepare a complete list of non-proprietary information and data elements pursuant to the Project, and that Participants report it to OCE using the data collection methods and mechanisms which will be specified by OCE.

APMA shall work with Participants to help them identify any proprietary information and justify requests for this proprietary information to be removed from the reporting requirements as per the

amendment process described in section 7. Any proprietary data that will be excluded from the reporting process will be specified as part of the relevant funding agreements between Participants and APMA.

As identified in Appendix 1, the list of required data and information elements will vary according to the level of maturity and the type of technology, product or service. The protocol differentiates between two different phases of demonstration projects: evaluation phase, and demonstration phase, where projects in the demonstration phase have the highest level of reporting requirements.

APMA shall help Participants declare the level of maturity and types of their technologies, products, and/or services as part of their reporting process.

NOTE: If there is disagreement between OCE and Participants, or APMA and Participants, OCE shall determine which data and information elements apply to any project.

NOTE: If during technology research, development, prototyping, testing and / or demonstration Participants cannot provide data and information for agreed upon data elements because there was no data or information generated matching the particular data element, and/or a particular data element becomes Intellectual Property or a trade secret, APMA will work with Participants to provide a written justification to OCE. OCE shall review the justification and may allow for an exception.

3. General Principles

The Data and Information Sharing Protocol (the “Protocol”) is intended to:

- Support assessment of the performance of the AVIN programs and related investments
- Enable the collection of relevant data and information by OCE from projects funded through the AVIN programs and its own research, while helping ensure that the commercial interests and intellectual property of Participants is not being violated
- Outline the data and information sharing reporting requirements
- Outline the analysis and public reporting to be undertaken by OCE for the benefit of the entire ecosystem
- Foster openness and collaboration within Ontario’s C/AV ecosystem

4. Protocol Scope

The protocol focuses on data and information elements that describe and assess performance pursuant to the Project. A detailed list of these data and information elements is outlined in Appendix 1 of the Protocol. These elements can be classified into the following categories:

1. **Technology, product, and service characteristics:** data and information elements that describe the different products developed within the Project, their capabilities, possible adoption scenarios, interoperability requirements, and contribution to the overall C/AV

ecosystem. Examples of these data and information elements include level of automation, communication standards and protocols, safety and mobility impacts, vehicle and infrastructure types targeted, and potential applications.

2. **Technology, product, and service performance and efficacy:** data and information elements that describe the capabilities of developed products and technologies, within the Project, their market readiness, associated risks, and performance characteristics under different environmental conditions. Examples of these data and information elements include stage of development, types of conditions tested, amount of testing, reliability, level of precision, margin of error, and factors affecting road safety for all transportation system users (e.g., human behaviour, design changes, and interactions with the infrastructure and other equipment).
3. **External requirements for technology operation:** data and information elements that describe cellular and wifi connectivity, remote computing, preferred infrastructure design elements, preferred regulations and encryption protocols.
4. **Project performance:** data and information elements that characterize the overall performance of the Project such as number of project proposals received, number of research projects funded, number of Participants, number and types of prototypes developed, value of private investment leveraged, jobs created or retained, customer interactions, and events hosted.

OCE and/or APMA do not intend to collect, analyze or otherwise handle Intellectual Property or trade secrets. Information will be considered to be Intellectual Property or a trade secret if:

- i. it is required for, or contributes to, a pending patent or copyright publication;
- ii. it is a formula, pattern, program, device, or method which is unique to the business and cannot be shared without risking copy or theft by a competitor; or
- iii. the Participant has demonstrated, according to the amendment process described in section 7, that sharing the information or data with OCE and broader ecosystem would be detrimental to the Participant's business prospects and IP interests.

5. APMA Roles and Responsibilities

- APMA shall work with Participants to help Participants identify, from the list of data and information elements provided in Appendix 1, the elements that Participants consider proprietary and exclude these proprietary elements from Participants' reporting requirements as part of their legal agreements with APMA.
- APMA shall work with Participants to provide sufficient justification for removing any proprietary data and information elements from their reporting requirements as per the amendment process outlined in section 7.
- If during technology research, development, prototyping, testing and / or demonstration Participants cannot provide data and information for agreed upon data elements because there was no data or information generated matching the particular data element, and/or a

particular data element becomes Intellectual Property or a trade secret, APMA will work with Participants to provide a written justification to OCE. OCE shall review the justification and may allow for an exception.

- APMA shall work with Participants to gather, assemble and compile **all** corresponding, non-proprietary data and information elements from the list of elements described in Appendix 1, and report it to OCE over the duration outlined in the Agreement.
- APMA shall work with Participants to ensure that data and information reported is true, accurate, complete and updated.
- APMA shall ensure that Participants who receive support to research, develop, prototype, test and / or demonstrate technologies through, or as a result of, Project funding are contractually obligated to provide the reporting requirements indicated in Appendix 1.
- APMA shall ensure that Participants report at a minimum biannually, in accordance with the terms of the Agreement between OCE and APMA.
- APMA acknowledges and agrees that Participants failing to provide the reporting requirements indicated in section 7 and Appendix 1 may result in the termination, suspension or revocation of OCE's obligations and payments described in the Agreement.

6. Data Management and Security

- OCE will store all collected data and information on a secure server that is aligned with Shared Services Canada protocols.
- All collected data and information will be password protected.
- Access to collected data and information in its raw format, except for the project performance data listed in Appendix 1, will be limited to OCE staff directly involved in the AVIN, unless otherwise specified by the data and information owner.
- Project performance may be shared with Ontario and in accordance with the OCE's privacy policy and the Agreement between Ontario and OCE.
- No person, organization, specific product or service will be singled out or identified in any public reporting, unless approval is obtained from this person or organization and in accordance with the OCE's privacy policy (<http://www.oce-ontario.org/privacy-policy>).

NOTE: Reported data and information is the sole responsibility of the entity that makes them available. OCE will not be liable for false data or misrepresentation of the data. Additionally, OCE and Ontario will not be liable for any loss or damage that result from the reporting process.

NOTE: Participants will retain full ownership of the data and information provided to OCE.

7. Process to Amend Data and Information Sharing Requirements

Prior to signing agreements with Participants, APMA shall work with Participants who request to amend the list of required data and information specified in Appendix 1 to reflect their specific project design and business needs.

APMA shall work with Participants who must identify information they cannot report due to their project not generating that specific data or concerns around the proprietary nature of the data, and provide a sufficient justification of why the identified information cannot be reported. OCE will review the amendment requests on a case-by-case basis, and, if applicable, modify the requirements for the specific Participant to minimize the effect of the missing information on the overall quality of the collected data. Approved changes have to be included in the relevant funding agreements between Participants and APMA.

NOTE: We advise that Ontario Centres of Excellence Inc. ("OCE") is not an institution for the purposes of the Freedom of Information and Protection of Privacy Act (Ontario) ("FIPPA"). As a result, OCE is not subject to the provisions of FIPPA, including its freedom of information provisions. OCE may furnish data and information to Ontario which is subject to the FIPPA.

OCE is a not-for-profit corporation with a mandate to support the commercialization of technology for the benefit of Ontario. OCE works closely with its funders, including the Government of Ontario, to ensure its mandate is carried out in an efficient, effective and fair manner.

OCE also carries out its mandate with openness and transparency. OCE-supported projects are listed in the "Our projects" section of the OCE website at <http://www.oce-ontario.org/projects>, along with comprehensive information about each project. This information may be accessed by the public in a manner that is searchable by category, program, company name, academic institution and sector.

At the same time, OCE respects the privacy of individuals and the personal information OCE collects about them. For information on our privacy practices, please visit <http://www.oce-ontario.org/privacy-policy>.

8. Protocol Updates

APMA and OCE shall meet at a minimum once per Fiscal Year to discuss potential improvements to the Protocol. The first meeting shall occur within 30 days of the first intake date for the Project

APPENDIX 1.1
(APPENDIX TO THE DISP PROTOCOL)

The tables below specify the data and information types and elements required to be reported to OCE by APMA and/or Participants. Reporting requirements are designed to adapt to the different types of the technologies developed within the ecosystem and the maturity level of each technology / product. Reporting requirements do not replace or modify any regulatory reporting requirements to Ontario. In particular, APMA and Participants will be required to comply with Ministry of Transportation’s (MTO's) Automated Vehicle (AV) Pilot Project (O. Reg. 306/15, under Highway Traffic Act, R.S.O. 1990, c. H.8) and other applicable laws and regulations, and all related reporting requirements, as applicable.

All Participant-specific data and information shall be provided directly to OCE, not APMA. All Participants shall be advised that they are required to provide data and information with the exception of data or information that contains IP, trade secrets and is proprietary. Participants will be asked to provide generalized data and information in aggregate.

Project Performance Data	
Reporting requirements for all Participants that receive support to research, develop, prototype, test and / or demonstrate technologies through, or as a result of, Project funding	<ul style="list-style-type: none"> • Number of requests to use Project assets. • Number of companies that demonstrate technology. • Number of companies visiting Stratford to engage in Project activities. • Number of companies engaging with the Project to view or purchase technology. • Prototypes developed or launched. • Number of customer interactions / meetings facilitated at Business Centre. • Number of visits by members of the public and / or media at the Business Centre. • Media tags. • Prototypes developed. • Patents filed. • Licensing of technologies. • Jobs created or retained. • International exports. • Follow-on investment received. • Incremental sales (in Canada and internationally). • Number and type of events hosted. • Value of private investment leveraged. • Names of companies using or visiting Stratford to engage with the Project.

Technology / Product / Service Characteristics and Performance Data

Reporting requirements for all Participants that receive support to research, develop, prototype, test and / or demonstrate technologies through, or as a result of Project funding

- Type of technology, product, or service being demonstrated (e.g., collision avoidance system, obstacle detection system, and positioning and navigation system)
- Stage of technology, product, or service development or market readiness (e.g., prototype, testing, demonstration, and market-ready)
- Main components of the system and their category (an in-vehicle component, a smart infrastructure component, or a C/AV service).
- Core functionalities of each identified component.
- If applicable, certifications and standards being sought.
- Expected impacts of using the demonstrated technology, product, or service including: *1) Safety impacts* (e.g., reduced number of accidents); *2) Mobility Impacts* (e.g., reduced travel time and increased accessibility); and *3) Environmental Impacts* (e.g., reduced CO2 emissions).
- Perceived technological / cost / social / regulatory enablers or barriers to deployment or commercialization of the demonstrated technology, product, or service.
- Collisions, property damage, or other potentially dangerous or unsafe situations arising from demonstrating the technology, if relevant.
- Public education and human behaviour considerations for technology adoption (e.g., observed level of comfort with technology, observed changes to behaviour of system users, and expressed concerns from the public)

Testing / Evaluation Phase

- Experimental procedure for the demonstration. For example, specification of test tracks, and environmental conditions.
- Types of tests performed (e.g., component tests, system tests, integration tests, and public awareness and acceptance tests)
- Amount of testing completed (measured in testing time, number of runs and / or distance).
- Types of conditions including *1) Environmental conditions:* lighting and weather conditions; *2)Traffic conditions:* traffic conditions and level of service; *3)Road Characteristics:* speed limits, number of lanes, road slope / gradient, curvature, lane width, road condition, etc.
- Field equipment / infrastructure systems required for controlled testing of the product (e.g., roadside units and GPS availability).
- Perceived barriers for testing of the product.
- Performance indicators that highlight the added value of the proposed technology, product, or service on one or more the following areas: driving performance and safety; precision and the reliability of the automated driving mode; drivers’ interaction with the system;

	<p>transportation system performance, environmental aspects; interaction / communication with transportation infrastructure and broader systems (e.g., emergency response systems); and users' acceptance.</p> <ul style="list-style-type: none"> • Any additional demonstration-related information that could be beneficial to the Ontario's C/AV ecosystem. <p>Demonstration Phase</p> <ul style="list-style-type: none"> • Updated version of all data elements outlined in the testing phase. • Identified uses of the demonstrated technology, product, or service. • Other products, technologies, or services that could benefit from the demonstrated technology. • Anticipated cost. • Anticipated availability. • Types of interfaces with drivers/users and surrounding environment (including other vehicles, pedestrians and infrastructure). • Preferred infrastructure design elements or regulatory changes to enable the deployment, commercialization and adoption of the technology. • If applicable, the interoperability requirements (e.g., communication standards) and required communication systems, information and infrastructure that support the operation or use of the technology, product, or service. • Any additional demonstration-related information that could be beneficial to the Ontario's C/AV ecosystem.
<p>Additional reporting requirements for Participants that receive support to research, develop, prototype, test and / or demonstrate technologies through, or as a result of Project funding involving an in-vehicle system</p>	<ul style="list-style-type: none"> • Targeted level of automation supported by the technology, product, or service. • Types of vehicle (e.g., cars, trucks, buses, recreational vehicles (RV), two wheelers, and trains). • If applicable, targeted type of communication supported by the technology/ product. • Specific new vehicle capabilities resulting from the proposed technology, product, or service. • If applicable, types of sensors used in automation (e.g., Lidar, Radar, and cameras), minimum capabilities of each sensing device (accuracy, sensitivity, etc.), and their limitations (range, power usage, coverage, weather conditions, etc.). • If applicable, types of other sensors, actuators, and communication devices used for the product, technology or service. • If applicable, specification of the communication requirements to support the tested product, technology or service (e.g. communication range, latency, bandwidth, and type of information transmitted). <p>Testing / Evaluation Phase</p>

	<ul style="list-style-type: none"> • If applicable, types of communication devices and protocols required to support the demonstrated product, technology, or service (e.g. DSRC, LTE, and 5G). • If applicable, infrastructure (e.g. Road side equipment, sensors or signals, signage, markings) required to support the tested product, technology, or service if deployed. <p>Demonstration Phase</p> <ul style="list-style-type: none"> • Updated version of all data elements outlined in the testing phase. • Safety considerations and requirements for the safe use of the proposed technology, product, or service including geographic and environment restrictions, handling malfunctions, response to unexpected events, infrastructure and communication requirements, and driver characteristics. • External requirements for the technology, product, or service operation including mechanical, electrical, and data storage requirements, data acquisition tools, encryption and cybersecurity requirements, external computing support (e.g., cloud services), and external mapping / information. • If applicable, test track specifications to demonstrate the technology.
<p>Additional reporting requirements for Participants that receive support to research, develop, prototype, test and / or demonstrate technologies through, or as a result of Project funding involving a smart infrastructure component</p>	<ul style="list-style-type: none"> • Targeted infrastructure types (highways, arterials, airports, railways, green infrastructure, etc.) • Specific infrastructure capabilities resulting from the proposed technology, product, or service. • If applicable, types of sensors, actuators, and communication devices used to enable the smart infrastructure functionality and its capabilities and limitations. <p>Demonstration Phase</p> <ul style="list-style-type: none"> • External requirements for the technology, product, or service operation including required infrastructure, field equipment, external data sources, mapping information, cellular / Wi-Fi connectivity, and remote / cloud computing.
<p>Additional reporting requirements for Participants that receive support to research, develop,</p>	<ul style="list-style-type: none"> • Type of communication supported by the technology, product, or service (e.g., V2V, V2I, and V2P). • Specific new vehicle or infrastructure capabilities resulting from the proposed connected vehicle technology, product, or service. • External cellular / Wi-Fi connectivity required and the characteristics of such communication (e.g., bandwidth and latency).

<p>prototype, test and / or demonstrate technologies through, or as a result of Project funding involving a connected vehicle component</p>	<p>Demonstration Phase</p> <ul style="list-style-type: none"> • Messaging and communication protocols • Purpose of communication (e.g. safety, traffic management, security, infotainment, and fleet management). • Encryption methods used for communicating messages. • If applicable, specification of the communication / network requirements to support the tested product, technology, or service (e.g. communication range, latency, bandwidth, and type of information transmitted). • If applicable, infrastructure (e.g. Road side equipment, sensors or signals, signage, markings) required to support the tested product, technology, or service if deployed. • External requirements for the technology, product, or service operation including required infrastructure, external data sources, mapping information, field equipment, cellular / Wi-Fi connectivity, and remote / cloud computing.
<p>Reporting requirements for Participants that receive support to research, develop, prototype, test and / or demonstrate technologies through, or as a result of Project funding involving a C/AV service</p>	<ul style="list-style-type: none"> • If applicable, level of automation and / or type of communication supported • Targeted vehicle types (e.g. cars, trucks, buses, Recreational Vehicles (RV), two wheelers, and trains). • Targeted infrastructure types (e.g. pavement, lighting, signage, bridges, etc.). • Specific new vehicle or infrastructure capabilities resulting from the proposed service. • External cellular / Wi-Fi / GPS connectivity required and the characteristics of such communication (e.g., bandwidth and latency). • Types of sensors, actuators, and communication devices, if applicable, used to enable the proposed service and their capabilities and limitations.

SCHEDULE "A"

THE TECH

SCHEDULE "B"

INSTALLATION SCHEDULE