

## DATA AND INFORMATION SHARING PROTOCOL

The collection, reporting, and analysis of non-proprietary data and information associated with this project / engagement shall be governed by the terms of the existing Data and Information Sharing Protocol, attached herewith

### 1. Introduction

Ontario's Autonomous Vehicle Innovation Network (AVIN) initiative, funded by the Government of Ontario and delivered by OCE, seeks to capitalize on the economic potential of automotive technology and mobility solutions, such as connected and autonomous vehicles (CAVs), and support the preparation and adaptation of the province's transportation systems and infrastructure to these advanced and emerging technologies. Ontario's investment supports research and development (R&D) projects that foster partnerships among industry, post-secondary institutions, small- to medium-sized enterprises (SMEs), and governments; creates regional sites to grow technology clusters across the province in support of development, testing and commercialization of new technologies; and attracts and grows talent in the automotive and mobility sector.

### 2. Objectives

A major component of the AVIN initiative is the generation and analysis of data and information to support the operation of Ontario's automotive and mobility ecosystem including governments, industry, post-secondary institutions, transportation authorities, and the public.

**The AVIN initiative will not be collecting, analyzing, or otherwise handling and disseminating data and information considered by industry partners and participants to be proprietary. For a definition of "proprietary information", please refer to Section 4 of this Protocol. OCE will work with industry partners and program participants to ensure that the collection of information supports their interests and reflects their project design and business needs.**

The analysis and reporting of the non-proprietary information collected by OCE is essential to advance the development and adoption of automotive technologies and mobility solutions, such as CAVs, across Ontario and benefit all parts of the ecosystem. In particular, the sharing and analysis of information will:

- Advance knowledge and awareness to support the development and commercialization of leading-edge technologies.
- Provide Ontario's automotive and mobility ecosystem with insights and information to improve products, technologies, and processes.
- Inform changes to business models and operations throughout Ontario's economy.

- Help maintain Ontario’s position as a leading global automotive parts and technology supply jurisdiction and centre for research and development.
- Allow Ontario and its municipalities to shape their infrastructure and transportation management systems to support and advance the deployment and adoption of emerging transportation technologies such as CAVs.
- Contribute to government decision-making around technology deployment, including regulation, policy, programs, and investments.
- Contribute to building public education and awareness around automotive and mobility technologies, such as CAVs.

### 3. General Principles

The AVIN 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.
- Outline the reporting requirements of the AVIN programs.
- Protect the commercial interests of the AVIN participants.
- Foster openness and collaboration within Ontario’s automotive and mobility ecosystem.

### 4. Protocol Scope

The protocol focuses on data and information elements that describe and assess the performance of Ontario’s automotive and mobility ecosystem in general and the AVIN initiative in particular. 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 ecosystem, their capabilities, possible adoption scenarios, interoperability requirements, and contribution to the overall automotive and mobility 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, their market readiness, associated risks, and performance characteristics under different environmental conditions. Examples of these data and information elements include stage of development, reliability, and factors affecting road safety for all transportation system users.

3. External requirements for technology operations such as cellular and WiFi connectivity, remote computing, preferred infrastructure design elements, preferred regulations, and encryption protocols.
4. Program performance: data and information elements that characterize the overall performance of the AVIN initiative such as number of project proposals received, number of 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.

Intellectual property and trade secrets information are outside the scope of the Protocol and will be excluded from any reporting requirements. Information will be considered to be an 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.

## 5. Roles and Responsibilities: Program Partners and Participants

**Program Partners** are defined as organizations that are working with OCE to deliver the AVIN Demonstration Zone and Regional Technology Development Sites programs.

**Program Participants** are parties that utilize the programs, services, and infrastructure funded through AVIN, which include the AV R&D Partnership Fund, WinterTech Development, Demonstration Zone, Regional Technology Development Sites, and Talent Development programs.

**OCE will sign Funding Agreements with partners for the Demonstration Zone and Regional Technology Development Sites, and with participants for the AV R&D Partnership Fund, WinterTech Development, and Talent Development. Partners will sign agreements with participants who use the Demonstration Zone and Regional Technology Development Sites.**

- It is the responsibility of AVIN participants to identify, from the list of data and information elements provided in Appendix 1, the elements that they consider proprietary and include it as part of their funding agreements with OCE or AVIN partners. AVIN partners and participants shall provide sufficient justification for removing any of these data and information elements from their reporting requirements as per the amendment process discussed in section 7.

- AVIN partners and participants shall gather, assemble and compile **all** corresponding, non-proprietary data and information elements from the list of elements described in Appendix 1, and report them to OCE over the duration outlined in the funding agreement of their AVIN-funded projects / engagements and per the reporting requirements in section 7.
- It is the responsibility of the AVIN partners and participants to make sure that the reported data is true, accurate, complete, and updated. The AVIN partners and participants shall acknowledge and agree that 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 funding agreement.
- AVIN partners must ensure that participants who receive support to research, develop, prototype, test and / or demonstrate technologies through, or as a result of, AVIN funding are contractually obligated to provide the reporting requirements indicated in section 7 and Appendix 1. Reporting will take place in accordance with the terms of the agreement between OCE and partners.
- All AVIN participants who use the Demonstration Zone and / or Regional Technology Development Sites shall have the option to share the data and information elements they report to OCE with representatives from the Demonstration Zone or Regional Technology Development Site(s) they are engaged with.

**Note: Program participants will retain full ownership of the data and information provided to OCE.**

## **6. Role and Responsibilities: OCE**

OCE will collect, manage, assess, and provide insights from the data and information gathered from the AVIN programs and conduct additional research and scanning (e.g., literature reviews and surveys), over a period ending December 31, 2023. The collection will take place through OCE's partners that manage the Demonstration Zone and Regional Technology Development Sites, and through program participants that are part of the AV R&D Partnership Fund, WinterTech Development, and the Talent Development programs. OCE will also ensure sufficient additional research and scanning is done to publish quarterly specialized reports and annual comprehensive reports on the CAV sector.

Specific responsibilities of OCE regarding collection and use of the data and information include:

- Design methods and mechanisms through which data, whether quantitative or qualitative, is collected from the AVIN program partners and participants.
- Design data cleansing, data improvement, data inspection, and data monitoring mechanisms to improve the quality of the collected data and information.
- Manage the integrity of the data through collection, curation, storage, security, and access.
- Conduct analysis to generate insights, identify trends, and perform knowledge translation to help bridge technology and policy.
- Develop material and reports to present and share the information with the automotive and mobility ecosystem.
- Provide all public-facing reports and material at no cost to the user.

## 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 program performance data listed in Appendix 1, will be limited to OCE staff directly involved in the AVIN initiative, unless otherwise specified by the data and information owner.
  - Data and information elements reported to OCE by all AVIN participants who use the Demonstration Zone and /or Regional Technology Development Sites will be shared with representatives from the Demonstration Zone or Regional Technology Development Site(s) they use, upon receiving a consent to share from these participants.
  - Program performance data will be shared with other organizations providing funding or co-funding to the initiative as per the contractual agreements with OCE and in accordance with the OCE's privacy policy<sup>1</sup>.
- OCE will take any further security and privacy precautions that are agreed upon and specified in agreements between OCE and AVIN program partners and participants.

**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 will NOT be liable for any loss or damage that result from the reporting process.**

## **7. Reporting of Data and Information by AVIN Partners and Participants**

### Reporting Requirements

Appendix 1 of this Protocol identifies the list of data and information elements required to be reported to OCE as a condition of funding or participation. AVIN program partners and participants shall collect and prepare a complete list of non-proprietary information and data elements and report them using the data collection methods and mechanisms which will be specified by OCE. The data owner is responsible for identifying any proprietary information and justifying requests for this proprietary information to be removed from the reporting requirements as per the amendment process described in this section. The frequency of the reporting and any proprietary data that will be excluded from the reporting process will be specified as part of the relevant funding agreements between program participants and OCE; program participants and program partners; and program partners and OCE.

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 five different phases of AVIN projects: proof of concept phase, design phase, development phase, evaluation phase, and demonstration phase, where projects in the demonstration phase have the highest level of reporting requirements. AVIN program participants will declare the level of maturity and types of their technologies, products, and / or services as part of their reporting process. If there is disagreement between OCE and

<sup>1</sup> <http://www.oce-ontario.org/privacy-policy>

program participants, or program partners and program participants, OCE shall determine which elements apply to any particular engagement. Appendix 1 also highlights the expected analytical outcomes to be produced by OCE, as an output of the data collection processes. These outcomes are defined to support the objectives outlined in section 2 of this protocol.

### Amendments

AVIN program partners and participants may request to amend the list of required data and information specified in Appendix 1 to reflect their specific engagement, project design, and business needs. When requesting an amendment, AVIN program partners and participants must identify information they cannot report due to the project / engagement 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 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 program participants and OCE; program participants and program partners; or program partners and OCE.

OCE may change the reporting requirements, specified in Appendix 1, based on its internal data monitoring / inspection processes and according to the consultation and review process described in section 9. Changes may include adding, editing, or removing data and information elements; adding, editing, or removing product / technology / service types; and adding, editing, or removing analytical outcomes.

## **8. Public Reporting of Information and Analysis by OCE**

### Reporting Structure

OCE will produce, at a minimum, three types of public reports that may use the data and information provided by AVIN partners and participants pursuant to this Protocol, and / or from any additional research and analysis they conduct. Reporting will take place over a period ending December 31, 2023.

1. Annual comprehensive reports

Each annual report will include:

- a description of the state of the CAV sector and related technologies and trends,
- a summary of latest research and results, and
- any relevant developments and findings from other jurisdictions and research or technology entities.

2. Quarterly updates and / or specialized reports focused on a particular topic related to the automotive and mobility sector.

3. Monthly bulletins highlighting recent announcements, news, and decisions impacting the mobility sector.

All products for public reporting will be made available on the AVIN initiative website, managed by OCE, and may also be distributed in soft and hard copies, as necessary. OCE may also share information and analysis related to the AVIN initiative through additional publications or reports, as it sees fit.

### Report Content

- OCE will report, as part of the annual comprehensive reports and / or the quarterly reports described above, on its analysis of the data and information collected from the AVIN programs and its own research.
  - The analytical outputs will be focused on information that is considered to be of use to the automotive and mobility ecosystem in Ontario, as determined through OCE's consultation and ongoing engagement with members of the ecosystem.
  - OCE will determine which information and analytical products should be featured in its reports based on:
    - its understanding of the sector, including areas of knowledge or awareness that require further development;
    - requests from the automotive and mobility ecosystem received by AVIN; and
    - pertinence to developments in the global and Ontario automotive and mobility sector.
- Any information that is shared or used to produce the public reports will be anonymized and, if possible, aggregated across projects / engagements to provide summary-level information.

**NOTE:** We advise that "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 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>

## 9. Protocol Updates

On an annual basis, OCE will review and consult with the automotive and mobility ecosystem to ensure that the Protocol is up-to-date and captures all relevant data and information that is of interest to members of the automotive and mobility ecosystem. Any changes proposed as a result of the review and consultation will be subject to approval.

## Appendix 1

The tables below specify the data and information types and elements required to be reported to OCE by AVIN program participants and partners. 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. Separate data and information reporting requirements are outlined for the five AVIN programs. Within each program, data and information elements will differ according to the category of the technology, product, or service under development and its implementation phase. The five programs are:

- **AV R&D Partnership Fund** - The program supports collaborative development, prototyping, and validation projects, including technologies in vehicles or innovations in transportation systems- and infrastructure-related R&D.
- **WinterTech Development** - The program supports collaborative development, validation, testing, and demonstration of new products and technologies designed to meet the demands of winter weather conditions.
- **Regional Technology Development Sites** - Entrepreneurs, startups and SMEs can leverage Regional Technology Development Sites to develop, prototype, and validate new CAV products and technologies; use specialized equipment, hardware, and software; and access business advisory services.
- **Demonstration Zone** - The Demonstration Zone, located in Stratford, Ontario, is a site where SMEs can validate and test technologies in live scenarios and weather conditions using vehicle platforms such as city buses, fleet vehicles, and OEM vehicles.
- **Talent Development** - Interns and fellows will have an opportunity to apply their expertise, leading-edge knowledge, and tools to solve industry problems related to automotive and mobility technologies.

Reporting requirements, based on the following tables, will be agreed upon between OCE and AVIN funding recipients, and do not replace or modify any regulatory reporting requirements to the Government of Ontario that may apply to the testing of products or technologies funded through AVIN. In particular, program partners and participants will be required to comply with Ontario Regulation 306/15 made under the Highway Traffic Act<sup>2</sup> and all related reporting requirements, as applicable.

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<sup>2</sup> <https://www.ontario.ca/laws/regulation/r15306>

## AV R&D Partnership Fund / WinterTech Development

Program Performance Data	
<p><b>Expected Analytical Outcome:</b></p> <ul style="list-style-type: none"> <li>• <b>Measure economic benefits to the Province</b></li> </ul>	
<p><b>Reporting requirements for all projects</b></p>	<ul style="list-style-type: none"> <li>• Number of project proposals received</li> <li>• Number of projects funded (breakdown by firm size and in-vehicle or out-of-vehicle)</li> <li>• Total value of partnerships funded (the program partner recipients and industry matching)</li> <li>• Number and types of prototypes developed</li> <li>• Number of patents developed or filed resulting from program</li> <li>• Licensing of technologies resulting from program</li> <li>• Jobs created or retained</li> <li>• International exports</li> <li>• Follow-on investment received</li> <li>• Incremental sales (in Canada and internationally)</li> <li>• Value of private investment leveraged</li> <li>• Areas of expertise, certifications and qualifications of the product development team and companies involved in partnerships</li> </ul>
Technology / Product / Service Characteristics and Performance Data	
<p><b>Expected Analytical Outcomes:</b></p> <ul style="list-style-type: none"> <li>• <b>Provide information about technologies / products / services developed within the AVIN Project, the capabilities of these technologies / products / services, and potential uses / applications.</b></li> <li>• <b>Identify potential risks associated with technology / product / service deployment to support making informed decisions about how to manage or avoid these risks.</b></li> <li>• <b>Identify possible adoption scenarios and highlight the potential applications of the new technologies developed within the automotive and mobility ecosystem.</b></li> <li>• <b>Identify policies, regulations, and programs that could be changed to accelerate the adoption of the future mobility technologies, and hence, maintain Ontario’s position as a global leader in the space.</b></li> <li>• <b>Identify barriers and enablers to future mobility technologies and products, and potential improvements to processes and business models adopted within the automotive and mobility ecosystem.</b></li> <li>• <b>Inform transportation authorities of infrastructural changes and design features that could be considered to support the adoption of future mobility technologies.</b></li> </ul>	

<p><b>Reporting requirements for all projects</b></p>	<p><b>Common Technology Classification Requirements</b></p> <ul style="list-style-type: none"> <li>• Type and core functionalities of technology, product, or service being researched or developed (e.g., collision avoidance system, obstacle detection system, positioning and navigation system)</li> <li>• Stage of technology, product, or service development and its market readiness (e.g., design, testing, and demonstration)</li> <li>• If applicable, targeted level of automation supported by the technology, product, or service</li> <li>• If applicable, targeted type of communication supported by the technology, product, or service</li> <li>• Types of vehicle and infrastructure supported</li> <li>• Targeted vehicle service (i.e., passenger vs. commercial vehicle service)</li> </ul> <p><b>Proof of Concept / Design Phases</b></p> <ul style="list-style-type: none"> <li>• All data elements outlined in the common technology classification requirements</li> <li>• If applicable, safety considerations and requirements for the safe use of technology, product, or service</li> <li>• Infrastructure features / systems required to support the deployment of product, technology, or service</li> <li>• All external data and communication requirements</li> <li>• If applicable, other external requirements for the technology, product, or service operation including special mechanical and electrical requirements</li> <li>• Expected impacts of using the designed technology, product, or service including: <u>1) Safety impacts</u> (e.g., reduced number of accidents); <u>2) Mobility Impacts</u> (e.g., reduced travel time and increased accessibility); and <u>3) Environmental Impacts</u> (e.g., reduced CO2 emissions)</li> <li>• Identified technological, regulatory, cost, and / or social enablers and barriers</li> <li>• Any additional research- / design-related information that could be beneficial to the AVIN ecosystem</li> </ul> <p><b>Development Phase</b></p> <ul style="list-style-type: none"> <li>• Updated version of all data elements outlined in proof of concept and design phases</li> <li>• Pace of development and anticipated release dates</li> </ul>
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	<ul style="list-style-type: none"> <li>Any additional development-related information that could be beneficial to the AVIN ecosystem</li> </ul> <p><b>Evaluation / Demonstration Phases</b></p> <ul style="list-style-type: none"> <li>Updated version of all data elements outlined in proof of concept, design, and development phases</li> <li>Plans after support from AVIN comes to an end</li> <li>Anticipated availability to market</li> <li>Public acceptance and interaction considerations for technology / service adoption</li> <li>Any additional evaluation- / demonstration-related information that could be beneficial to the AVIN ecosystem</li> </ul>
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### Regional Technology Development Sites

Program Performance Data	
<p><b>Expected Analytical Outcome:</b></p> <ul style="list-style-type: none"> <li><b>Measure economic benefits to the Province</b></li> </ul>	
<p><b>Reporting requirements for all engagements</b></p>	<ul style="list-style-type: none"> <li>Number of participants per site (breakdown by name of company, firm size, and area of business)</li> <li>Industry funds per site</li> <li>Number and types of prototypes developed</li> <li>Number of patents developed or filed resulting from program</li> <li>Licensing of technologies resulting from program</li> <li>Jobs created or retained</li> <li>Incremental International exports</li> <li>Follow-on investment received</li> <li>Incremental sales (in Canada and internationally)</li> <li>Value of private investment leveraged</li> <li>Areas of expertise, certifications, and qualifications of the technology development team</li> <li>Customer interactions</li> <li>Events hosted</li> <li>New companies or business ventures generated</li> </ul>

Technology / Product / Service Characteristics and Performance Data	
<p><b>Expected Analytical Outcomes:</b></p> <ul style="list-style-type: none"> <li>• Provide information about technologies / products / services developed within the site participation / use, the capabilities of these technologies / products / services, and potential uses / applications.</li> <li>• Identify potential risks associated with technology / product / service deployment to support making informed decisions about how to manage or avoid these risks.</li> <li>• Identify possible adoption scenarios and highlight the potential applications of the new technologies developed within the automotive and mobility ecosystem.</li> <li>• Identify policies and regulations that could be changed to accelerate the adoption of the future mobility technologies, and hence, maintain Ontario’s position as a global leader in the space.</li> <li>• Identify barriers and enablers to future mobility technologies and products, and potential improvements to processes and business models adopted within the automotive and mobility ecosystem.</li> <li>• Inform transportation authorities of infrastructural changes and design features that could be considered to support the adoption of future mobility technologies.</li> <li>• Provide information / statistics about the strengths and abilities of AVIN’s Regional Technology Development Sites.</li> </ul>	
<p><b>Reporting requirements for all engagements</b></p>	<p><b>Common Technology Classification Requirements</b></p> <ul style="list-style-type: none"> <li>• Type and core functionalities of technology, product, or service being researched or developed (e.g., collision avoidance system, obstacle detection system, positioning and navigation system)</li> <li>• Stage of technology, product, or service development and its market readiness (e.g., design, testing, and demonstration)</li> <li>• If applicable, targeted level of automation supported by the technology, product, or service</li> <li>• If applicable, targeted type of communication supported by the technology, product, or service</li> <li>• Types of vehicle and infrastructure supported</li> <li>• Targeted vehicle service (i.e., passenger vs. commercial vehicle service)</li> </ul> <p><b>Proof of Concept / Design Phases</b></p> <ul style="list-style-type: none"> <li>• All data elements outlined in the common technology classification requirements</li> <li>• If applicable, safety considerations and requirements for the safe use of technology, product, or service</li> </ul>

- Infrastructure features / systems required to support the deployment of product, technology, or service
- All external data and communication requirements
- If applicable, other external requirements for the technology, product, or service operation including special mechanical and electrical requirements
- Expected impacts of using the designed 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)
- Identified technological, regulatory, cost, and / or social enablers and barriers
- Any additional research- / design-related information that could be beneficial to the AVIN ecosystem

**Development Phase**

- Updated version of all data elements outlined in proof of concept and design phases
- Pace of development and anticipated release dates
- Any additional development-related information that could be beneficial to the AVIN ecosystem

**Evaluation / Demonstration Phases**

- Updated version of all data elements outlined in proof of concept, design, and development phases
- Plans after support from AVIN comes to an end
- Anticipated availability to market
- Public acceptance and interaction considerations for technology / service adoption
- Any additional evaluation- / demonstration-related information that could be beneficial to the AVIN ecosystem

**Regional Technology Development Sites Data**

- **Identify future needs of Regional Technology Development Sites to improve their efficiency and competitiveness.**
- **List of new tools / equipment that were ordered, purchased, and / or installed to support the AVIN initiative including a description of the tool, key functionalities, and the type of engagements that are expected to benefit from this tool.**
- **List of existing tools / equipment that are being used by AVIN sites.**

- List of new tools / equipment / resources that are suggested to support AVIN site engagements including a description of the tool / technology.

### Demonstration Zone

Program Performance Data	
<p><b>Expected Analytical Outcome:</b></p> <ul style="list-style-type: none"> <li>• Measure economic benefits to the Province</li> </ul>	
<p><b>Reporting requirements for all engagements</b></p>	<ul style="list-style-type: none"> <li>• Number of requests to use the Demonstration Zone</li> <li>• Number of companies using the Demonstration Zone to demonstrate technology</li> <li>• Number of companies visiting the Demonstration Zone to view or purchase technology</li> <li>• Names of companies using or visiting the Demonstration Zone</li> <li>• Prototypes developed or launched</li> <li>• Number of customer interactions / meetings facilitated at Demonstration Zone Business Centre</li> <li>• Number of visits by members of the public and / or media at the Demonstration Zone Business Centre</li> <li>• Media tags</li> <li>• Prototypes developed</li> <li>• Patents filed resulting from program</li> <li>• Licensing of technologies resulting from program</li> <li>• Jobs created or retained</li> <li>• International exports</li> <li>• Follow-on investment received</li> <li>• Incremental sales (in Canada and internationally)</li> <li>• Number and type of events hosted</li> <li>• Value of private investment leveraged</li> </ul>
Demonstration Zone Characteristics	
<p><b>Expected Analytical outcomes:</b></p> <ul style="list-style-type: none"> <li>• Identify future needs of the Demonstration Zone for displaying the effectiveness of developed AVIN technologies / products.</li> <li>• List of infrastructure changes / field equipment installations required to demonstrate the AVIN projects including a description of the equipment / infrastructure change, purpose, and number of projects requesting this change or equipment.</li> </ul>	

- List of infrastructure / field equipment features and capabilities that have been valuable to the demonstration of AVIN projects including a description of the feature / capability and how it is utilized by the demonstrated technologies.

**Technology / Product / Service Characteristics and Performance Data**

**Expected Analytical outcomes:**

- Provide information about technologies / products / services developed within the zone participation / use, the capabilities of these technologies / products / services, and potential uses / applications.
- Identify potential risks associated with technology / product / service deployment to support making informed decisions about how to manage or avoid these risks.
- Identify possible adoption scenarios and highlight the potential applications of the new technologies developed within the automotive and mobility ecosystem.
- Identify policies and regulations that could be changed to accelerate the adoption of the future mobility technologies, and hence, maintain Ontario’s position as a global leader in the space.
- Identify barriers and enablers to future mobility technologies and products, and potential improvements to processes and business models adopted within the automotive and mobility ecosystem.
- Inform transportation authorities of infrastructural changes and design features that could be considered to support the adoption of future mobility technologies.
- Provide information / statistics about demonstrated technologies, their uses, functionalities, and characteristics.
- Provide information / statistics about the strengths and abilities of the Demonstration Zone.

**Reporting requirements for all engagements**

**Common Technology Classification Requirements**

- Type and core functionalities of technology, product, or service being researched or developed (e.g., collision avoidance system, obstacle detection system, positioning and navigation system)
- Stage of technology, product, or service development and its market readiness (e.g., design, testing, and demonstration)
- If applicable, targeted level of automation supported by the technology, product, or service
- If applicable, targeted type of communication supported by the technology, product, or service
- Types of vehicle and infrastructure supported
- Targeted vehicle service (i.e., passenger vs. commercial vehicle service)

**Proof of Concept / Design Phases**

- All data elements outlined in the common technology classification requirements
- If applicable, safety considerations and requirements for the safe use of technology, product, or service
- Infrastructure features / systems required to support the deployment of product, technology, or service
- All external data and communication requirements
- If applicable, other external requirements for the technology, product, or service operation including special mechanical and electrical requirements
- Expected impacts of using the designed 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)
- Identified technological, regulatory, cost, and / or social enablers and barriers
- Any additional research- / design-related information that could be beneficial to the AVIN ecosystem

**Development Phase**

- Updated version of all data elements outlined in proof of concept and design phases
- Pace of development and anticipated release dates
- Any additional development-related information that could be beneficial to the AVIN ecosystem

**Evaluation / Demonstration Phases**

- Updated version of all data elements outlined in proof of concept, design, and development phases
- Plans after support from AVIN comes to an end
- Anticipated availability to market
- Public acceptance and interaction considerations for technology / service adoption
- Any additional evaluation- / demonstration-related information that could be beneficial to the AVIN ecosystem

## Talent Development

Program Performance Data	
<b>Expected Analytical Outcome:</b> <ul style="list-style-type: none"> <li>• <b>Measure economic benefits to the Province</b></li> </ul>	
<b>Reporting requirements for all applications</b>	<ul style="list-style-type: none"> <li>• Number of applications received</li> <li>• Number of internships and fellowships granted or completed</li> <li>• Academic institution participants</li> <li>• Jobs created or retained</li> <li>• International exports</li> <li>• Follow-on investment received</li> <li>• Incremental sales (in Canada and internationally)</li> <li>• Number and type of events hosted</li> </ul>
Talent Characteristics	
<b>Expected Analytical Outcome:</b> <ul style="list-style-type: none"> <li>• <b>Identify talent needs and opportunity areas</b></li> </ul>	
<b>All applications</b>	<ul style="list-style-type: none"> <li>• Discipline</li> <li>• Level of education</li> <li>• Job title</li> <li>• Responsibilities</li> </ul>