# Survey for DG MOVE study on Real Time Traffic Information

## Consent Agreement

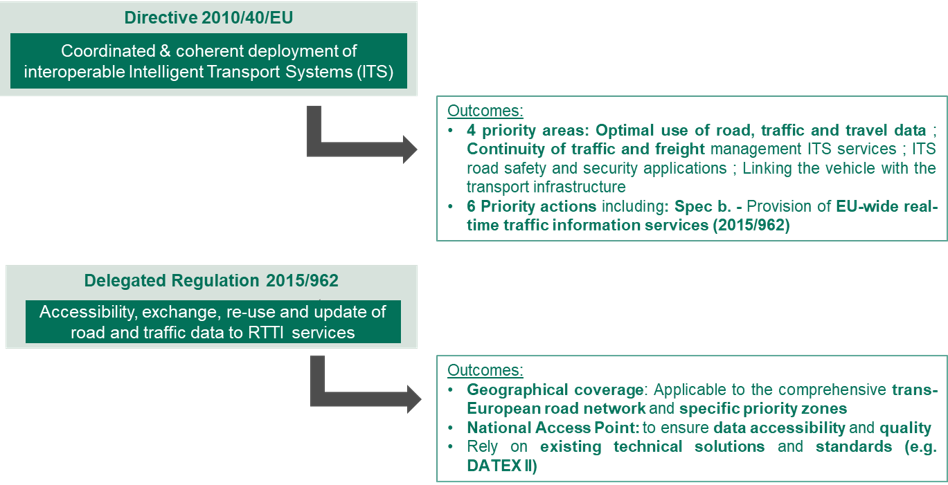
#### 1) The information collected in this survey will solely be used as part of the Supporting Study on Activities 3.2, 3.3 and 3.4 of the new working programme of the Intelligent Transport Systems (ITS) Directive (Directive 2010/40/EU). We only collect and use your personal data to the extent permitted by law. Please read our privacy policy here: http://www.vva.it/en/privacy-notice/. The personally identifying information collected in this survey will be kept in strictest confidence. Prior to analysing the data, personally identifying information and the data represented in the published results will be aggregated and summarised at a group level. You can also submit an anonymous response (see Question 1). If you have any requests for clarification, questions or complaints, please contact the study team at:  rtti@vva.it.  \*

( ) I agree with the conditions

## Introduction

Real-time traffic information has become an essential part of every commuter’s journey. With the growing use of navigation devices and applications on mobile phones, these information services are now at everyone’s fingertips, allowing better and more personalized information to make journeys smoother and more efficient. To make these information services function correctly, a vast amount of data is required from both public and private stakeholders. In turn, these same stakeholders also benefit from increased availability and accessibility to data as new insights are unlocked which make their work more efficient.  
  
Regarding the provision of EU-wide real-time traffic information services, there are two main pieces of legislation: the Directive 2010/40/EU, and the Delegated Regulation 2015/962.

* The Directive 2010/40EU created a framework in support of the coordinated and coherent deployment and use of Intelligent Transport Systems (ITS). Provision of EU-wide real-time traffic information services is among the six priority actions covered in the Directive.
* This topic is further covered by the Delegated Regulation (DR) 2015/962, aiming to enhance the accessibility, exchange, re-use and update of the road and traffic data for Real Time Traffic Information (RTTI) services. The potential revision of this DR 2015/962 is the subject of the survey.

Figure 2: Overview of the Directive 2010/40/EU and Delegated Regulation 2015/962 [[Link]](https://ec.europa.eu/transport/themes/its/road/action_plan/traffic-information_en)  
  
  
**VVA Brussels**, together with Coffey and TIS, have been appointed by the European Commission – Directorate General for Mobility and Transport (MOVE) – to carry out a study to investigate the impacts of **extending the geographical scope** of specification set by **Delegated Regulation 2015/962** for some data types and the possibility to **include** **new data types**, such as Urban Vehicle Access Regulations (UVARs).  
  
The study focuses on the three areas identified in the Working Programme of the study for possible inclusion in the revised Delegated Regulation 2015/962, which are the following:

* Revision of current specifications for EU-wide real-time traffic information services;
* Recharging/refuelling points; and
* Access to vehicle generated data for road operation purposes.

This survey aims at providing insights on **objectives** and **services** introduced by the Delegated Regulation 2015/962, quantifying **data gaps** and optimal geographical coverage of RTTI data, understanding the opportunity of **in-vehicle generated data** for road operation purposes, and monitoring the current status of National Access Points **(NAPs)**.  
  
To answer this survey please pay attention to the following points:

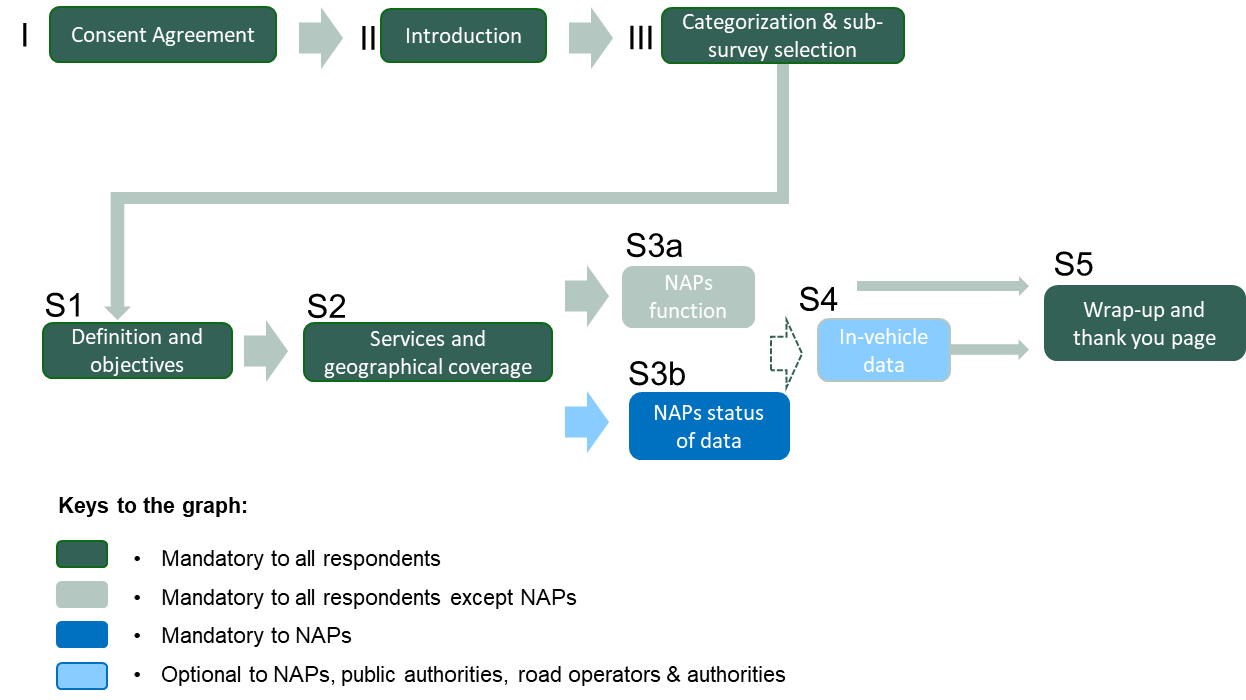
* [Availability](https://www.surveygizmo.eu/s3/90222192/DG-MOVE-Study-RTTI-data)
* [Accessibility](https://www.surveygizmo.eu/s3/90222192/DG-MOVE-Study-RTTI-data)
* [National Access Points (NAPs)](https://www.surveygizmo.eu/s3/90222192/DG-MOVE-Study-RTTI-data)

Currently some of **the data types** in the scope of the **Delegated Regulation 2015/962 are:**

* [Static road data](https://www.surveygizmo.eu/s3/90222192/DG-MOVE-Study-RTTI-data)
* [Dynamic road data](https://www.surveygizmo.eu/s3/90222192/DG-MOVE-Study-RTTI-data)
* [Traffic real-time data](https://www.surveygizmo.eu/s3/90222192/DG-MOVE-Study-RTTI-data)

**The Delegated Regulation** [[Link]](https://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX%3A32015R0962) **in its current form applies to the comprehensive trans-European road network (TEN-T Network) as well as motorways not included in this network and priority zones identified by national authorities.**

**Survey question tree:**

****

# Categorisation

#### 2) Do you want to answer to the survey anonymously  \*

( ) No [after completing the survey, you could be invited to an expert group meeting on RTTI data]

( ) Yes

### 3) Name and Surname \*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### 4) Organisation \*

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### 5) Email address

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 6) Place of establishment

( ) Austria

( ) Belgium

( ) Bulgaria

( ) Croatia

( ) Cyprus

( ) Czechia

( ) Denmark

( ) Estonia

( ) Finland

( ) France

( ) Germany

( ) Greece

( ) Hungary

( ) Ireland

( ) Italy

( ) Latvia

( ) Lithuania

( ) Luxembourg

( ) Malta

( ) Netherlands

( ) Poland

( ) Portugal

( ) Romania

( ) Slovakia

( ) Slovenia

( ) Spain

( ) Sweden

( ) UK

( ) Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 7) Do you represent a National Access Point (NAP)?\*

( ) Yes

( ) No

#### 8) Which of following organisation types do you represent? ****(possibility to select multiple items)****\*

[ ] Public Authorities

[ ] ITS Service Providers

[ ] Fleet managers

[ ] Road authorities

[ ] Road operators

[ ] Vehicle manufacturers

[ ] Transport operators

[ ] Recharging point operators /e-mobility service providers

[ ] Operators of other alternative fuels infrastructure

[ ] Operators of other conventional fuels infrastructure

[ ] ICT technology suppliers

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 9) What is the geographical scope of your activity? ****(possibility to select multiple items)****\*

[ ] All MS and UK

[ ] Austria

[ ] Belgium

[ ] Bulgaria

[ ] Croatia

[ ] Cyprus

[ ] Czechia

[ ] Denmark

[ ] Estonia

[ ] Finland

[ ] France

[ ] Germany

[ ] Greece

[ ] Hungary

[ ] Ireland

[ ] Italy

[ ] Latvia

[ ] Lithuania

[ ] Luxembourg

[ ] Malta

[ ] Netherlands

[ ] Poland

[ ] Portugal

[ ] Romania

[ ] Slovakia

[ ] Slovenia

[ ] Spain

[ ] Sweden

[ ] United Kingdom

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In this survey you will be able to take part in the following section:  
  
**Section 1: Definition and objectives** - This section focuses on the objectives of the Delegated Regulation 2015/962 and essential services that could benefit from and/or require the availability and accessibility of data. (This section is mandatory)  
  
**Section 2: Services and data type geographical coverage** – This section considers, for specific data types, the possible geographical extension of the current specifications for EU-wide real-time traffic information services and possible additional data types, in particular relevant data at urban level (e.g. UVARs). (This section is mandatory)

#### And ****Section 3: NAPs functions**** – this section covers objectives for NAPs and the availability and accessibility of each (new) data types on NAPs (This section is mandatory) ****Please be aware that completing this survey will give you the possibility to be invited to the next expert group webinar hosted by the EC.****

#### 10) In addition to the ones above, would you like to answer additional questions:\*

( ) **Section 4: In-vehicle generated data - Optional** : the section covers RTTI-services and data needs when it comes to access to in-vehicle generated data for the purpose of asset management (i.e. management and maintenance of road infrastructure) and traffic management (estimated additional survey length: 5 minutes)  
Access to in-vehicle generated data would only be available for public authorities in charge of road operations for use in specific use-cases

( ) No (estimated survey length: 30-45 minutes)

# Section 1: Definition and objectives

This section focuses on the objectives of Delegated Regulation 2015/962 and essential services that could benefit from and/or require the availability and accessibility of data. For complementary information please refer to the DG MOVE SRTI & RTTI webpage [[Link](https://ec.europa.eu/transport/themes/its/road/action_plan/traffic-information_en)]. **To recall, the objectives of the Delegated Regulation are:**

* To promote the optimal use of road traffic and travel data;
* To enhance cooperation and continuity of ITS across the EU;
* To support applications linking vehicles and transport infrastructures;
* To ensure data security and protection;
* To promote cost-effective, fast and low risk deployment of ITS; and
* To support the penetration of advanced mobility services for citizens.

**However, in the meantime, the circumstances have changed, and other topics have gained importance, such as:**

* **The European Green Deal**, it is a EU roadmap with actions to make European economy more sustainable. It includes actions to boost the efficient use of resources by moving to a clean and circular economy and restore biodiversity and cut pollution. For more details see the official website [[Link]](https://ec.europa.eu/info/strategy/priorities-2019-2024/european-green-deal_en).
* **The European strategy for data**, it aims at creating a single market for data that will ensure Europe’s global competitiveness and data sovereignty. For more details see the official website [[Link]](https://ec.europa.eu/digital-single-market/en/policies/building-european-data-economy).

**The following questions aim to provide input for the possible revision of the definition and objectives of the Delegated Regulation.**

#### 12)  According to you, which of the following topics are relevant to be addressed through the revision of the Delegated Regulation 2015/962? Please also rank their relevance as Low, Medium, High or indicate if Not Relevant.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Low** | **Medium** | **High** | **Not relevant** |
| Accessible and free data to be used by essential services | ( ) | ( ) | ( ) | ( ) |
| Addressing social exclusion, discrimination and various forms of inequalities (i.e. through a more equally spread-out use of ITS services) | ( ) | ( ) | ( ) | ( ) |
| Decarbonisation (e.g. support the uptake of alternative fuels - in line with the European Green Deal initiatives) | ( ) | ( ) | ( ) | ( ) |
| Supporting road operations through re-using vehicle data to improve traffic and asset management | ( ) | ( ) | ( ) | ( ) |
| Cooperative, connected and automated mobility | ( ) | ( ) | ( ) | ( ) |
| Urban vehicle access regulations (UVARs) | ( ) | ( ) | ( ) | ( ) |
| Intelligent Speed Assistance (ISA) and other safety features of the General Safety Regulation | ( ) | ( ) | ( ) | ( ) |
| Ensuring European access to data aligned with the European Strategy for data | ( ) | ( ) | ( ) | ( ) |
| Informing on recharging/refuelling points | ( ) | ( ) | ( ) | ( ) |
| Harmonisation of RTTI services across MS | ( ) | ( ) | ( ) | ( ) |
| Multimodal transport | ( ) | ( ) | ( ) | ( ) |

## Essential Services using RTTI data

**This part of the survey will assess which Essential Services (both current and future)  make use of the data mandated by the Delegated Regulation 2015/962** [[Link]](https://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX%3A32015R0962)

#### 13) Initial findings indicate that RTTI data is relevant for the existing services below. Please rank each service you deem relevant as Low, Medium, High or indicate if not relevant.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Low** | **Medium** | **High** | **Not relevant** |
| Road Traveller Information Services – combining dynamic/static road and traffic-related data to provide information related to roads | ( ) | ( ) | ( ) | ( ) |
| Traffic monitoring and traffic management services | ( ) | ( ) | ( ) | ( ) |
| Asset management services – use of data to optimise the management of the road infrastructure | ( ) | ( ) | ( ) | ( ) |
| Refuelling stations – including conventional and alternative fuels | ( ) | ( ) | ( ) | ( ) |
| Recharging points – electric charging points | ( ) | ( ) | ( ) | ( ) |
| Parking-related services | ( ) | ( ) | ( ) | ( ) |
| Road navigation – including access restrictions and driving recommendations | ( ) | ( ) | ( ) | ( ) |
| Big data analysis – including historical data | ( ) | ( ) | ( ) | ( ) |
| Don’t know / no opinion | ( ) | ( ) | ( ) | ( ) |

#### 14) Initial findings indicate that RTTI data could be relevant for the future services below. Please rank each service you deem relevant as Low, Medium, High or indicate if Not Relevant.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Low** | **Medium** | **High** | **Not relevant** |
| Connected and automated mobility – combining cooperative network management and area routing | ( ) | ( ) | ( ) | ( ) |
| Emergency services and travellers’ assistance | ( ) | ( ) | ( ) | ( ) |
| Safety related services – event (accident) data record, Intelligent Speed Assistance, lane keeping | ( ) | ( ) | ( ) | ( ) |
| Intelligent Parking Services (i.e. automated parking) | ( ) | ( ) | ( ) | ( ) |

# Section 2: Services and data type geographical coverage

This section considers, for specific data types, the possible **geographical extension** of the current specifications for EU-wide real-time traffic information services and **possible** **additional data types**, in particular relevant data types at urban level (e.g. Urban Vehicle Access Regulations), priority area I of the [ITS Directive](https://www.surveygizmo.eu/s3/90222192/DG-MOVE-Study-RTTI-data)  
  
Important definitions for this section:

* [Availability](https://www.surveygizmo.eu/s3/90222192/DG-MOVE-Study-RTTI-data)
* [Accessibility](https://www.surveygizmo.eu/s3/90222192/DG-MOVE-Study-RTTI-data)

#### 15) The following real-time traffic information service categories are identified as relevant for the use of data. In the next sections, you will be asked to indicate the essential data types and geographical coverage relevant for each service category. Please select below the service categories you would like to provide inputs for (possibility to select several categories):

[ ] Road Traveller Information Services – combining dynamic/static road and traffic-related data to provide information related to roads

[ ] Traffic monitoring and traffic management services

[ ] Asset management services – use of data to optimise the management of the road infrastructure

[ ] Refuelling and Recharging points-related services – including conventional and alternative fuels as well as electric charging points

[ ] Parking related services

[ ] Road navigation – including access restrictions and driving recommendations

[ ] Safety related services – event (accident) data record, Intelligent Speed Assistance, lane keeping

[ ] Don’t know / no opinion

[ ] Other

## Section 2a – Optional: Road Traveller Information Services

#### 16) For Road Traveller Information Services, which scope of geographical coverage would be required for each data category?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Static road data (e.g. road geometry, road classification, speed limits) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic road data (e.g. road works, bridge closures, accidents, poor road conditions, cost of parking, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Historic traffic data (e.g. historic traffic volume, average speed, average traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Real-time traffic data (e.g. traffic volume, speed, traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| UVARs | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 17) If other - please write in

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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#### 18) Please indicate below which, if any, are the data categories requiring a different coverage per sub data type to deliver the service (possibility to select several categories).

[ ] Static road data

[ ] Dynamic road data

[ ] Real-time traffic data

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[ ] None of the above

#### 19) STATIC ROAD DATA - Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Road geometry | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road width | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road - number of lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road junctions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road gradients | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - access conditions for tunnels | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - permanent access restrictions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - other regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic circulation plans | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Freight delivery regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of tolling stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Identification of tolled roads, applicable fixed road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of parking places and service areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of charging points for electric vehicles and the conditions for their use | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of compressed natural gas, liquefied natural gas, liquefied petroleum gas stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of public transport stops and interchange points | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 20) DYNAMIC ROAD DATA - Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Road closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Lane closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Bridge closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Overtaking bans on heavy goods vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Roadworks | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Accidents and incidents | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Direction of travel on reversible lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Poor road conditions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Temporary traffic management measures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of parking places | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Variable road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Cost of parking | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of charging points for electric vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Weather conditions affecting road surface and visibility | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 21) REAL-TIME TRAFFIC DATA TYPES - Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Traffic volume - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location and length of traffic queues - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Travel times - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Waiting time at border-crossing to non-EU Member States - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 22) Other data types - Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Please write in for which data types** | **Geographical coverage** | | | | | | |
|  |  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Vehicle speed | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield Wipers rain season | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| ESP- Electronic stability program | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle load (i.e. type, quantity, weight, etc.) | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| State of Charge (SoC), battery capacity, battery voltage | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 1 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 2 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 3 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

## Section2b – Optional: Traffic monitoring and traffic management services

#### 23) For Traffic monitoring and traffic management services, which scope of geographical coverage would be required for each data category?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Static road data (e.g. road geometry, road classification, speed limits) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic road data (e.g. road works, bridge closures, accidents, poor road conditions, cost of parking, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Historic traffic data (e.g. historic traffic volume, average speed, average traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Real-time traffic data (e.g. traffic volume, speed, traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| UVARs | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 24) If other - please write in

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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#### 25) Please indicate below which, if any, are the data categories requiring a different coverage per sub data type to deliver the service (possibility to select several categories).

[ ] Static road data

[ ] Dynamic road data

[ ] Real-time traffic data

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[ ] None of the above

#### 26)  STATIC ROAD DATA - Traffic monitoring  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Road geometry | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road width | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road - number of lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road junctions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road gradients | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - access conditions for tunnels | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - permanent access restrictions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - other regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic circulation plans | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Freight delivery regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of tolling stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Identification of tolled roads, applicable fixed road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of parking places and service areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of charging points for electric vehicles and the conditions for their use | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of compressed natural gas, liquefied natural gas, liquefied petroleum gas stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of public transport stops and interchange points | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 27) DYNAMIC ROAD DATA- Traffic monitoring  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Road closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Lane closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Bridge closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Overtaking bans on heavy goods vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Roadworks | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Accidents and incidents | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Direction of travel on reversible lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Poor road conditions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Temporary traffic management measures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of parking places | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Variable road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Cost of parking | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of charging points for electric vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Weather conditions affecting road surface and visibility | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 28) REAL-TIME TRAFFIC DATA TYPES - Traffic monitoring  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Traffic volume - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location and length of traffic queues - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Travel times - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Waiting time at border-crossing to non-EU Member States - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 29) Other data types - Traffic monitoring  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Please write in for which data types** | **Geographical coverage** | | | | | | |
|  |  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Vehicle speed | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield Wipers rain season | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| ESP- Electronic stability program | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle load (i.e. type, quantity, weight, etc.) | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| State of Charge (SoC), battery capacity, battery voltage | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 1 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 2 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 3 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

## Section 2c – Optional: Asset management services

#### 30) For Asset management services, which scope of geographical coverage would be required for each data category?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Static road data (e.g. road geometry, road classification, speed limits) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic road data (e.g. road works, bridge closures, accidents, poor road conditions, cost of parking, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Historic traffic data (e.g. historic traffic volume, average speed, average traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Real-time traffic data (e.g. traffic volume, speed, traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| UVARs | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 31) If other - please specify

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 32) Please indicate below which, if any, are the data categories requiring a different coverage per sub data type to deliver the service (possibility to select several categories).

[ ] Static road data

[ ] Dynamic road data

[ ] Real-time traffic data

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[ ] None of the above

#### 33) STATIC ROAD DATA- Asset management services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Road geometry | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road width | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road - number of lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road junctions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road gradients | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - access conditions for tunnels | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - permanent access restrictions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - other regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic circulation plans | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Freight delivery regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of tolling stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Identification of tolled roads, applicable fixed road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of parking places and service areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of charging points for electric vehicles and the conditions for their use | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of compressed natural gas, liquefied natural gas, liquefied petroleum gas stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of public transport stops and interchange points | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 34) DYNAMIC ROAD DATA- Asset management services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Road closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Lane closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Bridge closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Overtaking bans on heavy goods vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Roadworks | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Accidents and incidents | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Direction of travel on reversible lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Poor road conditions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Temporary traffic management measures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of parking places | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Variable road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Cost of parking | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of charging points for electric vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Weather conditions affecting road surface and visibility | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 35) REAL-TIME TRAFFIC DATA TYPES - Asset management services  Please indicate their geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Traffic volume - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location and length of traffic queues - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Travel times - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Waiting time at border-crossing to non-EU Member States - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 36) Other data types - Asset management services  Please indicate their geographical coverage

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Please write in for which data types** | **Geographical coverage** | | | | | | |
|  |  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Vehicle speed | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield Wipers rain season | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| ESP- Electronic stability program | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle load (i.e. type, quantity, weight, etc.) | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| State of Charge (SoC), battery capacity, battery voltage | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 1 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 2 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 3 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

## Section 2d – Optional: Refuelling and recharging points-related services

#### 37) For Refueling and recharging points, which scope of geographical coverage would be required for each data category?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Static road data (e.g. road geometry, road classification, speed limits) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic road data (e.g. road works, bridge closures, accidents, poor road conditions, cost of parking, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Historic traffic data (e.g. historic traffic volume, average speed, average traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Real-time traffic data (e.g. traffic volume, speed, traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| UVARs | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 38) If other - please specify

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 39) Please indicate below which, if any, are the data categories requiring a different coverage per sub data type to deliver the service (possibility to select several categories).

[ ] Static road data

[ ] Dynamic road data

[ ] Real-time traffic data

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[ ] None of the above

#### 40) STATIC ROAD DATA- Refueling and recharging  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Road geometry | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road width | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road - number of lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road junctions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road gradients | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - access conditions for tunnels | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - permanent access restrictions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - other regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic circulation plans | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Freight delivery regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of tolling stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Identification of tolled roads, applicable fixed road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of parking places and service areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of charging points for electric vehicles and the conditions for their use | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of compressed natural gas, liquefied natural gas, liquefied petroleum gas stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of public transport stops and interchange points | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 41) DYNAMIC ROAD DATA- Refueling and recharging Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Road closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Lane closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Bridge closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Overtaking bans on heavy goods vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Roadworks | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Accidents and incidents | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Direction of travel on reversible lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Poor road conditions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Temporary traffic management measures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of parking places | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Variable road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Cost of parking | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of charging points for electric vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Weather conditions affecting road surface and visibility | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 42) REAL-TIME TRAFFIC DATA TYPES - Refueling and recharging  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Traffic volume - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location and length of traffic queues - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Travel times - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Waiting time at border-crossing to non-EU Member States - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 43) Other data types - Refueling and recharging  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Please write in for which data types** | **Geographical coverage** | | | | | | |
|  |  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Vehicle speed | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield Wipers rain season | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| ESP- Electronic stability program | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle load (i.e. type, quantity, weight, etc.) | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| State of Charge (SoC), battery capacity, battery voltage | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 1 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 2 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 3 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

## Section 2e – Optional: Parking related services

#### 44) For parking related services, which scope of geographical coverage would be required for each data category?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Static road data (e.g. road geometry, road classification, speed limits) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic road data (e.g. road works, bridge closures, accidents, poor road conditions, cost of parking, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Historic traffic data (e.g. historic traffic volume, average speed, average traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Real-time traffic data (e.g. traffic volume, speed, traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| UVARs | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 45) If other - please specify

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 46) Please indicate below which, if any, are the data categories requiring a different coverage per sub data type to deliver the service (possibility to select several categories).

[ ] Static road data

[ ] Dynamic road data

[ ] Real-time traffic data

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[ ] None of the above

#### 47) STATIC ROAD DATA- Parking related services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Road geometry | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road width | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road - number of lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road junctions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road gradients | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - access conditions for tunnels | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - permanent access restrictions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - other regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic circulation plans | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Freight delivery regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of tolling stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Identification of tolled roads, applicable fixed road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of parking places and service areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of charging points for electric vehicles and the conditions for their use | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of compressed natural gas, liquefied natural gas, liquefied petroleum gas stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of public transport stops and interchange points | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 48)  DYNAMIC ROAD DATA - Parking related services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Road closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Lane closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Bridge closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Overtaking bans on heavy goods vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Roadworks | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Accidents and incidents | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Direction of travel on reversible lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Poor road conditions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Temporary traffic management measures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of parking places | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Variable road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Cost of parking | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of charging points for electric vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Weather conditions affecting road surface and visibility | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 49) REAL-TIME TRAFFIC DATA TYPES - Parking related services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Traffic volume - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location and length of traffic queues - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Travel times - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Waiting time at border-crossing to non-EU Member States - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 50) Other data types - Parking related services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Please write in for which data types** | **Geographical coverage** | | | | | | |
|  |  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Vehicle speed | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield Wipers rain season | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| ESP- Electronic stability program | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle load (i.e. type, quantity, weight, etc.) | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| State of Charge (SoC), battery capacity, battery voltage | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 1 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 2 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 3 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

## Section 2f – Optional: Road navigation

#### 51) For Road navigation services, which scope of geographical coverage would be required for each data category?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Static road data (e.g. road geometry, road classification, speed limits) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic road data (e.g. road works, bridge closures, accidents, poor road conditions, cost of parking, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Historic traffic data (e.g. historic traffic volume, average speed, average traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Real-time traffic data (e.g. traffic volume, speed, traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| UVARs | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 52) If other - please specify

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 53) Please indicate below which, if any, are the data categories requiring a different coverage per sub data type to deliver the service (possibility to select several categories).

[ ] Static road data

[ ] Dynamic road data

[ ] Real-time traffic data

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[ ] None of the above

#### 54) STATIC ROAD DATA- Road navigation services Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Road geometry | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road width | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road - number of lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road junctions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road gradients | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - access conditions for tunnels | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - permanent access restrictions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - other regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic circulation plans | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Freight delivery regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of tolling stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Identification of tolled roads, applicable fixed road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of parking places and service areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of charging points for electric vehicles and the conditions for their use | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of compressed natural gas, liquefied natural gas, liquefied petroleum gas stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of public transport stops and interchange points | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 55)  DYNAMIC ROAD DATA - Road navigation services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Road closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Lane closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Bridge closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Overtaking bans on heavy goods vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Roadworks | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Accidents and incidents | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Direction of travel on reversible lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Poor road conditions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Temporary traffic management measures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of parking places | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Variable road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Cost of parking | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of charging points for electric vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Weather conditions affecting road surface and visibility | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 56) REAL-TIME TRAFFIC DATA TYPES - Road navigation services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Traffic volume - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location and length of traffic queues - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Travel times - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Waiting time at border-crossing to non-EU Member States - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 57) Other data types - Road navigation services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Please write in for which data types** | **Geographical coverage** | | | | | | |
|  |  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Vehicle speed | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield Wipers rain season | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| ESP- Electronic stability program | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle load (i.e. type, quantity, weight, etc.) | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| State of Charge (SoC), battery capacity, battery voltage | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 1 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 2 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 3 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

## Section 2g – Optional: Safety related services

#### 58) For Safety related services, which scope of geographical coverage would be required for each data category?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Static road data (e.g. road geometry, road classification, speed limits) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic road data (e.g. road works, bridge closures, accidents, poor road conditions, cost of parking, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Historic traffic data (e.g. historic traffic volume, average speed, average traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Real-time traffic data (e.g. traffic volume, speed, traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| UVARs | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 59) If other - please specify

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 60) Please indicate below which, if any, are the data categories requiring a different coverage per sub data type to deliver the service (possibility to select several categories).

[ ] Static road data

[ ] Dynamic road data

[ ] Real-time traffic data

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[ ] None of the above

#### 61) STATIC ROAD DATA - Safety related services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Road geometry | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road width | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road - number of lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road junctions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road gradients | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - access conditions for tunnels | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - permanent access restrictions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - other regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic circulation plans | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Freight delivery regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of tolling stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Identification of tolled roads, applicable fixed road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of parking places and service areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of charging points for electric vehicles and the conditions for their use | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of compressed natural gas, liquefied natural gas, liquefied petroleum gas stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of public transport stops and interchange points | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 62) DYNAMIC ROAD DATA - Safety related services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Road closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Lane closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Bridge closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Overtaking bans on heavy goods vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Roadworks | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Accidents and incidents | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Direction of travel on reversible lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Poor road conditions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Temporary traffic management measures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of parking places | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Variable road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Cost of parking | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of charging points for electric vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Weather conditions affecting road surface and visibility | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 63) REAL-TIME TRAFFIC DATA TYPES - Safety related services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (incuding urban)** | **Not relevant** |
| Traffic volume - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location and length of traffic queues - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Travel times - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Waiting time at border-crossing to non-EU Member States - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 64) Other data types - Safety related services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Please write in for which data types** | **Geographical coverage** | | | | | | |
|  |  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Vehicle speed | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield Wipers rain season | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| ESP- Electronic stability program | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle load (i.e. type, quantity, weight, etc.) | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| State of Charge (SoC), battery capacity, battery voltage | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 1 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 2 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 3 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

## Section 2h – Optional: Other services

### 65) Other services you would like to mention - please specify below

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#### 66) For the other services you mentioned above, which scope of geographical coverage would be required for each data category?

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Static road data (e.g. road geometry, road classification, speed limits) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic road data (e.g. road works, bridge closures, accidents, poor road conditions, cost of parking, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Historic traffic data (e.g. historic traffic volume, average speed, average traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Real-time traffic data (e.g. traffic volume, speed, traffic queues, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| UVARs | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 67) If other - please specify

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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#### 68) Please indicate below which, if any, are the data categories requiring a different coverage per sub data type to deliver the service (possibility to select several categories).

[ ] Static road data

[ ] Dynamic road data

[ ] Real-time traffic data

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[ ] None of the above

#### 69) STATIC ROAD DATA- Other services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary Roads** | **Local level (including urban)** | **Rural road** | **Not relevant** |
| Road geometry | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road width | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road - number of lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road junctions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road gradients | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Road classification | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - access conditions for tunnels | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - permanent access restrictions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic signs - other regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic circulation plans | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Freight delivery regulations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of tolling stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Identification of tolled roads, applicable fixed road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of parking places and service areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of charging points for electric vehicles and the conditions for their use | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of compressed natural gas, liquefied natural gas, liquefied petroleum gas stations | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of public transport stops and interchange points | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 70) DYNAMIC ROAD DATA - Other services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Road closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Lane closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Bridge closures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Overtaking bans on heavy goods vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Roadworks | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Accidents and incidents | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Dynamic speed limits | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Direction of travel on reversible lanes | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Poor road conditions | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Temporary traffic management measures | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of parking places | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Variable road user charges and available payment methods | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of delivery areas | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Cost of parking | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Availability of charging points for electric vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Weather conditions affecting road surface and visibility | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 71) REAL-TIME TRAFFIC DATA TYPES - Other services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage** | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Traffic volume - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location and length of traffic queues - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Travel times - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Waiting time at border-crossing to non-EU Member States - real time | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 72) Other data types - Other services  Please indicate their required geographical coverage

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Please write in for which data types** | **Geographical coverage** | | | | | | |
|  |  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** |
| Vehicle speed | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield Wipers rain season | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| ESP- Electronic stability program | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle load (i.e. type, quantity, weight, etc.) | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| State of Charge (SoC), battery capacity, battery voltage | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 1 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 2 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data type 3 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

# Section 2: Gaps and new data types

#### 73) What do you consider the most important challenges which prevent expanding the geographical coverage of RTTI data? Please also rank their relevance as Low, Medium, High or indicate if Not Relevant.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Low** | **Medium** | **High** | **Not relevant** |
| Lack of human resources | ( ) | ( ) | ( ) | ( ) |
| Lack of financial resources | ( ) | ( ) | ( ) | ( ) |
| Lack of standardised format | ( ) | ( ) | ( ) | ( ) |
| Lack of data sharing | ( ) | ( ) | ( ) | ( ) |
| Lack of data collection | ( ) | ( ) | ( ) | ( ) |
| Lack of data accessibility | ( ) | ( ) | ( ) | ( ) |
| Lack of national legislation in place | ( ) | ( ) | ( ) | ( ) |
| Lack of local legislation in place | ( ) | ( ) | ( ) | ( ) |

#### 74) The question below will consider ****additional data types**** (in addition to the ones already included in the Delegated Regulation) that the Commission should consider to include as part of the revised Delegated Regulation. In particular, we consider UVARUrban Vehicle Access Regulations (or UVARs) regulate vehicular access to urban infrastructure.   Please click for which data category you want to identify their relevance for essential services and their required geographical coverage.

[ ] Historic traffic data e.g. restriction sign on the road, bicycle lane, pedestrian zone, data on emissions of anhydrite carbon dioxide

[ ] UVAR related Static datae.g. restriction sign on the road, bicycle lane, pedestrian zone, data on emissions of anhydrite carbon dioxide

[ ] UVAR related Dynamic datae.g. Passenger Car Units Per Hour, traffic status value, traffic headway, traffic flow, traffic speed, timing-vehicle, location vehicle, etc.

[ ] Static data for refueling and recharging points

[ ] Dynamic data for refueling and recharging points

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 75) Historic traffic data - Please indicate their relevance for essential services.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Which services would benefit from this data type - multiple choice** | | | | | | | | |
|  | **Road Traveller Information Services** | **Traffic monitoring and traffic management services** | **Asset management services** | **Refuelling and recharging points - related services** | **Parking-related services** | **Road navigation** | **Safety related services** | **Not relevant** | **Other** |
| Traffic volume - historic | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Speed | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Location and length of traffic queues - historic | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Travel times - historic | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Waiting time at border crossings to non-EU Member States - historic | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 76) If other - please specify

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#### 77) UVAR related static data - Please indicate their relevance for essential services.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Which services would benefit from this data type - multiple choice** | | | | | | | | |
|  | **Road Traveller Information Services** | **Traffic monitoring and traffic management services** | **Asset management services** | **Refuelling and Recharging points-related services** | **Parking-related services** | **Road navigation** | **Safety related services** | **Not relevant** | **Other** |
| Restriction sign on the road | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Bicycle lane | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Pedestrian zone | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Data on emissions of anhydrite carbon dioxide | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 78) If other - please specify

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#### 79) UVAR related dynamic data - Please indicate their relevance for essential services.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Which services would benefit from this data type – multiple choice** | | | | | | | | |
|  | **Road Traveller Information Services** | **Traffic monitoring and traffic management services** | **Asset management services** | **Refuelling and Recharging points-related services** | **Parking-related services** | **Road navigation** | **Safety related services** | **Not relevant** | **Other** |
| Passenger Car Units Per Hour | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic status value | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic headway | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic flow | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Traffic speed | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Timing-vehicle, location vehicle | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 80) If other - please specify

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#### 81) Static data for recharging or refuelling points -  Please indicate their relevance for essential services.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Which services would benefit from this data type – multiple choice** | | | | | | | | |
|  | **Road Traveller Information Services** | **Traffic monitoring and traffic management services** | **Asset management services** | **Refuelling and Recharging points-related services** | **Parking-related services** | **Road navigation** | **Safety related services** | **Not relevant** | **Other** |
| Contact info for owner/operator installed power capacity | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Type of current (AC/DC) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Power phases (one or three phase) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Type and number of available connectors opening hours | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 82) If other please specify

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#### 83) Dynamic data for recharging or refuelling points - Please indicate their relevance for essential services.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Which services would benefit from this data type – multiple choice** | | | | | | | | |
|  | **Road Traveller Information Services** | **Traffic monitoring and traffic management services** | **Asset management services** | **Refuelling and Recharging points-related services** | **Parking-related services** | **Road navigation** | **Safety related services** | **Not relevant** | **Other** |
| Real-time availability (if the station is operational/ non-operational) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Real-time occupation status (free, occupied) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Ad hoc charging price | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 84) If other, please specify:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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#### 85) Other new data types - Please indicate their relevance for essential services.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Please provide a quick description of the new data type** | **Which services would benefit from this data type – multiple choice** | | | | | | | | |
|  |  | **Road Traveller Information Services** | **Traffic monitoring and traffic management services** | **Asset management services** | **Refuelling and Recharging points-related services** | **Parking-related services** | **Road navigation** | **Safety related services** | **Not relevant** | **Other** |
| Real-time availability (if the station is operational/ non-operational) | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Real-time occupation status (free, occupied) | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Ad hoc charging price | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| New data type 1 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| New data type 2 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| New data type 3 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| New data type 4 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

# Section 2: Roles of organisations for new data type

#### 86) With regards to ****Urban Vehicle Access Regulations (UVARs)****, which entity(ies) of the following list should ensure the correct level of accessibility"Accessibility of the data means a possibility to request and obtain the data at any time in a machine-readable format and data quality"Data is considered of sufficient quality when it matches essential services’ requirement and related standards (e.g. DATEX II, CEN/TS 17268:2018, etc.)? (possible to select multiple options)

[ ] National Access Points (NAPs)

[ ] Road Operators

[ ] National Road and Transport Authorities

[ ] Local Public Authorities

[ ] ITS Service Providers

[ ] Don’t know / no opinion

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 87) With regards to ****Historic Traffic Data****, which entity(ies) of the following list should ensure the correct level of accessibility"Accessibility of the data means a possibility to request and obtain the data at any time in a machine-readable format and data quality"Data is considered of sufficient quality when it matches essential services’ requirement and related standards (e.g. DATEX II, CEN/TS 17268:2018, etc.)? (possible to select multiple options)

[ ] National Access Points (NAPs)

[ ] Road Operators

[ ] National Road and Transport Authorities

[ ] Local Public Authorities

[ ] ITS Service Providers

[ ] Don’t know / no opinion

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 88) With regards to ****recharging/refuelling points****, which entity(ies) of the following list should ensure the correct level of accessibility"Accessibility of the data means a possibility to request and obtain the data at any time in a machine-readable format. and data quality"Data is considered of sufficient quality when it matches essential services’ requirement and related standards (e.g. DATEX II, CEN/TS 17268:2018, etc.)? (possible to select multiple options)

[ ] National Access Points (NAP)

[ ] Road Operators

[ ] National Road and Transport Authorities

[ ] Local Public Authorities

[ ] Charging Point Operators (CPOs)

[ ] E-Mobility Service Providers (EMSPs)

[ ] ITS Service Providers

[ ] Don’t know / no opinion

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 89) Would you like to mention additional RTTI data types not mentioned so far in the survey?

( ) Yes

( ) No

### 90) Please specify: (e.g. data type, geographical coverage, services fueled by this data)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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#### 91) With regards to other data types, which entity(ies) of the following list should ensure the correct level of accessibility"Accessibility of the data means a possibility to request and obtain the data at any time in a machine-readable format. and data quality"Data is considered of sufficient quality when it matches essential services’ requirement and related standards (e.g. DATEX II, CEN/TS 17268:2018, etc.)? (possible to select multiple options)

( ) National Access Points (NAP)

( ) Road Operators

( ) National Road and Transport Authorities

( ) Local Public Authorities

( ) ITS Service Providers

( ) Don’t know / no opinion

( ) Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 92) In case the current geographical coverage is extended for data types covered by the Delegated Regulation 2015/962, which organisations should ensure the correct level of accessibility"Accessibility of the data means a possibility to request and obtain the data at any time in a machine-readable format. and data quality"Data is considered of sufficient quality when it matches essential services’ requirement and related standards (e.g. DATEX II, CEN/TS 17268:2018, etc.)? (possible to select multiple options)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Organisations in charge (multiple choice possible)** | | | | | **If other-please specify** |
|  | **National Access Points (NAP)** | **Road Operators** | **National Road and Transport Authorities** | **Local Public Authorities** | **ITS Service Providers** |  |
| Road static"Road network physical attributes, road classification, traffic signs reflecting regulation, speed limits, traffic circulations plans, tolled roads and stations, delivery regulations, parking places, location of public transport stops, location of charging points for electric vehicles and the conditions for their use | [ ] | [ ] | [ ] | [ ] | [ ] | \_\_\_ |
| Road dynamic"Road/lane/bridge closures, roadworks, accidents/incidents, dynamic speed limits, temporary traffic management measures, direction of travel on reversible lanes, variable road user charges, delivery/parking availability and costs, road conditions, variable road user charges, weather conditions, availability of charging points for electric vehicles | [ ] | [ ] | [ ] | [ ] | [ ] | \_\_\_ |
| Traffic historic | [ ] | [ ] | [ ] | [ ] | [ ] | \_\_\_ |
| Traffic real-time | [ ] | [ ] | [ ] | [ ] | [ ] | \_\_\_ |
| Real-time traffic "Aggregated data reflecting the current traffic conditions on traffic volume, speed, location and length of traffic queues | [ ] | [ ] | [ ] | [ ] | [ ] | \_\_\_ |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | \_\_\_ |

#### 93) DATEX II"DATEX II is the electronic language format used in Europe for the exchange of traffic information and traffic data. This format allows road operators (i.e. traffic centres, access points, roadside stations) to cascade information to content/service aggregators, and then to service providers/OEMs, and then to the final driver. The usage of DATEX II for RTTI is mentioned in the Delegated Regulation (EU 2015/962)., TS 17268:2018"TS 17268:2018 standard provides content specification for the exchange of road-related spatial data. Based on the content specification, it defines a physical exchange format (structure and encoding) for the actual data exchange – focusing mainly on static road data., and IEC 63110"IEC 63110 is a standard for electric vehicles charging and discharging infrastructures. Is has been developed by JWG11 of IEC Technical Committee TC69. Initiated by France, Germany and Italy, it started in November 2017. are different standards for RTTI data types. Are you aware of any other relevant standards?

( ) Yes, there is other standards relevant for RTTI data - Please specify: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

( ) Yes, new standards should be created - Please specify: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

( ) No, these standards are covering RTTI data types

( ) I don’t know / N/A

# Section 3: NAPs functions

According to the specifications of the Delegated Regulation 2015/962, the National Access Point (NAP) should form a single point of access for users to road and traffic data. It includes data updates, provided by the road authorities, road operators and service providers.

#### 94) Do you or does your organization access RTTI data from a NAP?\*

( ) Yes

( ) No

( ) N/A

#### 95) Which NAPs do you use to access data? (Multiple answers)

[ ] Austria

[ ] Belgium

[ ] Bulgaria

[ ] Croatia

[ ] Cyprus

[ ] Czechia

[ ] Denmark

[ ] Estonia

[ ] Finland

[ ] France

[ ] Germany

[ ] Greece

[ ] Hungary

[ ] Ireland

[ ] Italy

[ ] Latvia

[ ] Lithuania

[ ] Luxembourg

[ ] Malta

[ ] Netherlands

[ ] Poland

[ ] Portugal

[ ] Romania

[ ] Slovakia

[ ] Slovenia

[ ] Spain

[ ] Sweden

[ ] United Kingdom

[ ] All of the above

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 96) What categories of data do you access through the NAP? (multiple choice)

[ ] Static road data"Static road data: Road network physical attributes, road classification, traffic signs reflecting regulation, speed limits, traffic circulations plans, tolled roads and stations, delivery regulations, parking places, location of public transport stops, location of charging points for electric vehicles and the conditions for their use

[ ] Dynamic road data"Dynamic road data: Road/lane/bridge closures, roadworks, accidents/incidents, dynamic speed limits, temporary traffic management measures, direction of travel on reversible lanes, variable road user charges, delivery/parking availability and costs, road conditions, variable road user charges, weather conditions, availability of charging points for electric vehicles

[ ] Real-time traffic data"Real-time traffic data: aggregated data reflecting the current traffic conditions real-time data on traffic volume, speed, location and length of traffic queues

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 97) How do you access RTTI data if not through a NAP? (multiple choice)

[ ] Through third party providers

[ ] Direct agreement with public/road authorities to provide the data

[ ] Direct agreement with road operators to provide the data

[ ] Own data collection

[ ] Not accessing the data

[ ] Not relevant

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 98) For which services would it be relevant for NAPs to cover RTTI data in urban areas? (multiple choice)

[ ] Road Traveller Information Services - combining dynamic/static road and traffic-related data to provide all information related to roads

[ ] Traffic monitoring and management services - focusing on traffic management in urban areas

[ ] Asset management services – use of data to optimise the management of the road infrastructure

[ ] Refuelling/Recharging points-related services

[ ] Safety related services - event (accident) data record, Intelligent Speed Assistance, lane keeping

[ ] Road navigation – including access restrictions and driving recommendations

[ ] Parking-related services

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Section 4: In-vehicle generated data

The Commission Decision of 11.12.2018 [[Link](https://ec.europa.eu/transport/sites/transport/files/legislation/c20188264_en.pdf)] and the Communication on an EU strategy for mobility of the future [[Link](https://ec.europa.eu/transport/sites/transport/files/3rd-mobility-pack/com20180283_en.pdf)] have outlined the importance of having access to in-vehicle generated data (e.g. fuel consumption, engine status, outside temperature, etc.) for road operation (e.g. traffic management, bridge management, road maintenance, etc.) purposes. To do so, the Commission seeks to understand how in-vehicle generated data can support public authorities, road operators and other parties when it comes to road operations, in particular traffic and asset management. This section of the survey focuses on use cases using in-vehicle generated data which could improve traffic management and asset management and data needs in a Business to Government (B2G) context.  
  
**Access to in-vehicle generated data would only be available for public authorities in charge of road operations for use in specific use-cases**

#### 115) Do you currently provide vehicle data?

( ) Yes

( ) No

( ) Other - Write In: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### 116) If yes, how and under which conditions?

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#### 117) Do you currently use vehicle data?

( ) Yes

( ) No

( ) Other - Write In: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### 118) If yes, how and under which conditions?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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#### 119) Do you currently provide crowd-sourced data (mobile, navigation)?

( ) Yes

( ) No

( ) Other - Write In: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### 120) If yes, how and under which conditions?

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#### 121) Do you currently use crowd-sourced data?

( ) Yes

( ) No

( ) Other - Write In: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

### 122) If yes, how and under which conditions?

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#### 123) What is the relevance of making in-vehicle generated data accessible for the following use cases/purposes? Please indicate if Low, Medium, High or not relevant.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Low** | **Medium** | **High** | **Not relevant** |
| Real-time traffic monitoring (e.g. congestion management, traffic flow optimisation, route optimisation and monitoring of dangerous goods) | ( ) | ( ) | ( ) | ( ) |
| Asset management (e.g. current road condition, road maintenance, road works) | ( ) | ( ) | ( ) | ( ) |
| Traffic management (e.g. traffic jam ahead, weather condition) | ( ) | ( ) | ( ) | ( ) |
| Fleet management (e.g. for emergency and public services: remote diagnostics, driver behaviour, fleet replacement) | ( ) | ( ) | ( ) | ( ) |
| Urban Vehicle Access Regulations (UVARs) (e.g. dangerous goods, emission restrictions) | ( ) | ( ) | ( ) | ( ) |
| High Definition maps development and update (e.g. road geometry, access restrictions, traffic signs) | ( ) | ( ) | ( ) | ( ) |
| Transportation system planning (e.g. traffic flows, journey duration) | ( ) | ( ) | ( ) | ( ) |
| Emissions management (e.g. air quality, outside temperature, real-time emissions) | ( ) | ( ) | ( ) | ( ) |

#### 124) Which in-vehicle generated data types would be required to achieve objectives from the Delegated Regulation 2015/962? Please choose the service(s) for which you want to provide an answer.

[ ] Real-time traffic monitoring (e.g. congestion management, traffic flow optimization and route optimization)

[ ] Asset management (e.g. current road condition, road maintenance, road works)

[ ] Traffic management (e.g. traffic jam ahead, weather condition)

[ ] Fleet management (e.g. for emergency and public services: remote diagnostics, driver behaviour, fleet replacement)

[ ] Urban Vehicle Access Regulations (UVARs) (e.g. dangerous goods, overweighed, emission restrictions)

[ ] High Definition maps development and update (e.g. vehicle location, speed, steering angle)

[ ] Transportation system planning (e.g. traffic flows, journey duration)

[ ] Emissions management (e.g. air quality, outside temperature, real-time emissions)

[ ] Parking management

[ ] Other: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

#### 125) ****Real-time traffic monitoring**** -  Which in-vehicle generated data types would be required to achieve objectives from the Delegated Regulation 2015/962?

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage – multiple choice** | | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** | **Other** |
| Electric vehicles: state of charge (SoC), battery capacity, battery voltage | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Surrounding detection information | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Euro emission standard | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Anti-lock Braking System (ABS) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Electronic stability program (ESP) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle speed | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle dangerous load (i.e. type, quantity, weight, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield wipers / Rain sensors | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Fog lights | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 126) If you would like to mention other data types - please complete the box below or contact us at rtti@vva.it

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#### 127) ****Asset management**** -   Which in-vehicle generated data types would be required to achieve objectives from the Delegated Regulation 2015/962?

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage – multiple choice** | | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** | **Other** |
| Electric vehicles: state of charge (SoC), battery capacity, battery | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Surrounding detection information | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Euro emission standard | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Anti-lock Braking System (ABS) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Electronic stability program (ESP) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle speed | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle dangerous load (i.e. type, quantity, weight, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield wipers / Rain sensors | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Fog lights | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 128) If you would like to mention other data types - please complete the box below or contact us at rtti@vva.it

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#### 129) Traffic management -   Which in-vehicle generated data types would be required to achieve objectives from the Delegated Regulation 2015/962?

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage - multiple choice** | | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** | **Other** |
| Electric vehicles: state of charge (SoC), battery capacity, battery voltage | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Surrounding detection information | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Euro emission standard | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Anti-lock Braking System (ABS) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Electronic stability program (ESP) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle speed | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle dangerous load (i.e. type, quantity, weight, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield wipers / Rain sensors | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Fog lights | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 130) If you would like to mention other data types - please complete the box below or contact us at rtti@vva.it

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#### 131) ****Urban Vehicle Access Regulations (UVARs)****  -  Which in-vehicle generated data types would be required to achieve objectives from the Delegated Regulation 2015/962?

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage - multiple choice** | | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** | **Other** |
| Electric vehicles: state of charge (SoC), battery capacity, battery voltage | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Surrounding detection information | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Euro emission standard | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Anti-lock Braking System (ABS) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Electronic stability program (ESP) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle speed | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle dangerous load (i.e. type, quantity, weight, etc .) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield wipers / Rain sensors | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Fog lights | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 132) If you would like to mention other data types - please complete the box below or contact us at rtti@vva.it

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#### 133) Fleet management  - Which in-vehicle generated data types would be required to achieve objectives from the Delegated Regulation 2015/962?

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage – multiple choice** | | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** | **Other** |
| Electric vehicles: state of charge (SoC), battery capacity, battery voltage | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Surrounding detection information | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Euro emission standard | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Anti-lock Braking System (ABS) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Electronic stability program (ESP) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle speed | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle dangerous load (i.e. type, quantity, weight, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield wipers / Rain sensors | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Fog lights | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 134) If you would like to mention other data types - please complete the box below or contact us at rtti@vva.it

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#### 135) ****High Definition maps development and update**** - Which in-vehicle generated data types would be required to achieve objectives from the Delegated Regulation 2015/962?

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage - multiple choice** | | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** | **Other** |
| Electric vehicles: state of charge (SoC), battery capacity, battery voltage | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Surrounding detection information | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Euro emission standard | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Anti-lock Braking System (ABS) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Electronic stability program (ESP) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle speed | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle dangerous load (i.e. type, quantity, weight, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield wipers / Rain sensors | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Fog lights | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 136) If you would like to mention other data types - please complete the box below or contact us at rtti@vva.it

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#### 137) Transportation system planning  -  Which in-vehicle generated data types would be required to achieve objectives from the Delegated Regulation 2015/962?

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage - multiple choice** | | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** | **Other** |
| Electric vehicles: state of charge (SoC), battery capacity, battery voltage | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Surrounding detection information | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Euro emission standard | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Anti-lock Braking System (ABS) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Electronic stability program (ESP) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle speed | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle dangerous load (i.e. type, quantity, weight, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield wipers / Rain sensors | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Fog lights | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 138) If you would like to mention other data types - please complete the box below or contact us at rtti@vva.it

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#### 139) ****Emissions management**** - Which in-vehicle generated data types would be required to achieve objectives from the Delegated Regulation 2015/962?

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage – multiple choice** | | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** | **Other** |
| Electric vehicles: state of charge (SoC), battery capacity, battery voltage | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Surrounding detection information | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Euro emission standard | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Anti-lock Braking System (ABS) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Electronic stability program (ESP) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle speed | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle dangerous load (i.e. type, quantity, weight, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield wipers / Rain sensors | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Fog lights | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 140) If you would like to mention other data types - please complete the box below or contact us at rtti@vva.it

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#### 141) ****Parking management****  -  Which in-vehicle generated data types would be required to achieve objectives from the Delegated Regulation 2015/962?

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Geographical coverage - multiple choice** | | | | | | | |
|  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** | **Other** |
| Electric vehicles: state of charge (SoC), battery capacity, battery voltage | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Surrounding detection information | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Euro emission standard | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Anti-lock Braking System (ABS) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Electronic stability program (ESP) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle speed | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle dangerous load (i.e. type, quantity, weight, etc.) | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield wipers / Rain sensors | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Fog lights | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

### 142) If you would like to mention other data types - please complete the box below or contact us at rtti@vva.it

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#### 143) If other data types to mention - Which in-vehicle generated data types would be required to achieve objectives from the Delegated Regulation 2015/962?

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Please write in** | **Geographical coverage - multiple choice** | | | | | | | |
|  |  | **All** | **TEN-T** | **Motorways** | **Primary roads** | **Rural roads** | **Local level (including urban)** | **Not relevant** | **Other** |
| Electric vehicles: state of charge (SoC), battery capacity, battery voltage | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Surrounding detection information | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Euro emission standard | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| ABS - Anti-lock Braking System | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| ESP - electronic stability program | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Outside temperature | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle position and heading | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle speed | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Vehicle dangerous load (i.e. type, quantity, weight, etc .) | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Windshield Wipers rain sensors | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Hazard light status | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Fog lights | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data types 1 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data types 2 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data types 3 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data types 4 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data types 5 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |
| Other data types 6 | \_\_\_ | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] | [ ] |

#### 144) How should in-vehicle generated data be provided by default?

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Way of providing data per default** | | | **If Other - please specify** |
|  | **Aggregated data from multiple vehicles** | **Data from individual vehicles** | **Other** |  |
| Electric vehicles: state of charge (SoC), battery capacity, battery voltage | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Surrounding detection information | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Euro emission standard | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Anti-lock Braking System (ABS) | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Electronic stability program (ESP) | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Outside temperature | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Vehicle position and heading | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Vehicle speed | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Vehicle dangerous load (i.e. type, quantity, weight, etc.) | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Windshield wipers / Rain sensors | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Hazard light status | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Fog lights | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Other | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |

#### 145) If you would like to list other data types - How should in-vehicle generated data be provided by default?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Please write in additional in-vehicle generated data types** | **Way of providing data per default** | | | **If Other - please specify** |
|  |  | **Aggregated data from multiple vehicles** | **Data from individual vehicles** | **Other** |  |
| Electric vehicles: state of charge (SoC), battery capacity, battery voltage | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Surrounding detection information | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Euro emission standard | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| ABS - Anti-lock Braking System | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| ESP - electronic stability program | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Outside temperature | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Vehicle position and heading | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Vehicle speed | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Vehicle dangerous load (i.e. type, quantity, weight, etc .) | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Windshield Wipers rain sensors | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Hazard light status | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Fog lights | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Other in-vehicle generated data type 1 | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Other in-vehicle generated data type 2 | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |
| Other in-vehicle generated data type 3 | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ | \_\_\_ |

#### 146) From which vehicle types should data be collected?

[ ] All vehicles

[ ] Freight vehicles data

[ ] Commercial fleet data

[ ] Passenger vehicles data

[ ] Public authority vehicles only (including emergency services)

[ ] Other - Please specify: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

[ ] None of the above

#### 147) Should in-vehicle generated data not related to safety"under Delegated Regulation 886/2013 data related to road safety are currently provided free of charge to the end user be provided for free?

( ) Yes - Please explain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

( ) No - Please explain: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

( ) No opinion

#### 148) With regards to in-vehicle generated data types, which organisation(s) of the following list should ensure the correct level of accessibility"Accessibility of the data means a possibility to request and obtain the data at any time in a machine-readable format. and data quality"Data is considered of sufficient quality when it matches essential services’ requirement and related standards (e.g. DATEX II, CEN/TS 17268:2018, etc.)? (multiple choice)

[ ] National Access Points (NAPs)

[ ] OEMs

[ ] Road operators

[ ] National Road and transport authorities

[ ] Local public authorities

[ ] Don’t know / no opinion

[ ] Other - Please specify: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Wrap - up questions

### 149) Would you have any final remarks that you would like to provide? ****Feel welcome to share additional comments at rtti@vva.it****

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#### 150) Would you be willing to be contacted for an interview should we require clarifications?

( ) Yes

( ) No

### 151) Please leave your contact details where we will be best able to contact you:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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## (untitled)

## (untitled)

## Thank You!