

ANNEX 6 - Selected Physical Functions

Sub-system Name	Sub-system Location	Function Id	Function Name	Module
Data Center Layer	Supervisor Centre	2.1.2.1	Identify and Classify Emergencies	Elaboration Tasks
Data Sources Layer	Supervisor Centre	3.1.1.10	Collect Urban Traffic Data	Traffic Station Data Source
Data Center Layer	Supervisor Centre	3.1.1.11	Provide Updated Urban data for Digital Maps	Database
Data Center Layer	Supervisor Centre	3.1.1.14	Manage Urban Traffic Data	Data Center Collector
Data Center Layer	Supervisor Centre	3.1.1.5.10	Provide Urban Traffic Operator Interface	Post Elaboration Tasks
Data Center Layer	Supervisor Centre	3.1.1.5.18	Manage Urban Traffic Speeds and Headways	Post Elaboration Tasks
Front-ends Layer	Supervisor Centre	3.1.1.5.20	Output c&i to Drivers using Urban Roads	Variable Message Signs Front-End
Front-ends Layer	Supervisor Centre	3.1.1.5.22	Output s&g Commands to Urban Roads	Traffic Lights Front-End
Data Center Layer	Supervisor Centre	3.1.1.5.24	Implement Urban Traffic Strategies	Post Elaboration Tasks
Data Center Layer	Supervisor Centre	3.1.1.6	Manage Urban Static Traffic Data	Database
Data Sources Layer	Supervisor Centre	3.1.1.8	Collect Urban Data from Vehicles	Vehicle Data Source
Front-ends Layer	Supervisor Centre	3.1.1.9	Output Urban Traffic Data	Public Channels Front-End
Data Sources Layer	Supervisor Centre	3.1.2.10	Collect Inter-urban Traffic Data	Traffic Station Data Source
Data Center Layer	Supervisor Centre	3.1.2.13.1	Provide Inter-urban Road Operator Mgt Interface	Post Elaboration Tasks
Data Center Layer	Supervisor Centre	3.1.2.13.5	Manage Inter-urban Traffic Commands & Messages	Post Elaboration Tasks
Front-ends Layer	Supervisor Centre	3.1.2.14.2	Output c&i to Drivers using Inter-urban Roads	Variable Message Signs Front-End
Front-ends Layer	Supervisor Centre	3.1.2.14.4	Output Inter-urban Traffic Commands & Messages	Variable Message Signs Front-End
Data Center Layer	Supervisor Centre	3.1.2.15	Predict Short & Medium Term Inter-urban Conditions	Elaboration Tasks
Data Center Layer	Supervisor Centre	3.1.2.16	Manage Inter-urban Traffic Data	Database
Data Center Layer	Supervisor Centre	3.1.2.6	Manage Inter-urban Static Road Data	Data Center Collector
Data Sources Layer	Supervisor Centre	3.1.2.8	Collect Inter-urban Data from Vehicles	Vehicle Data Source
Front-ends Layer	Supervisor Centre	3.1.2.9	Output Inter-urban Traffic Data	Public Channels Front-End
Data Sources Layer	Supervisor Centre	3.1.4.1	Monitor numbers of vehicles in Car Parks	Parking Data Source
Data Center Layer	Supervisor Centre	3.1.4.4	Calculate Car Park Occupancy and Status	Elaboration Tasks
Data Center Layer	Supervisor Centre	3.1.4.8	Manage Urban Parking Data Store	Database
Front-ends Layer	Supervisor Centre	3.1.4.9	Output Car Park Information to Drivers	Public Channels Front-End
Data Sources Layer	Supervisor Centre	3.1.5.1	Monitor Service Area Vehicle Occupation	Parking Data Source
Data Center Layer	Supervisor Centre	3.1.5.2	Calculate Service Area Occupancy and Status	Elaboration Tasks
Front-ends Layer	Supervisor Centre	3.1.5.3	Output Service Area Messages	Public Channels Front-End
Data Center Layer	Supervisor Centre	3.1.6.2	Process Road Traffic Data	Pre Elaboration Tasks
Data Center Layer	Supervisor Centre	3.1.6.4	Manage Traffic Prediction Data Store	Database
Data Center Layer	Supervisor Centre	3.1.6.5	Provide Traffic Predictions Operator Interface	Post Elaboration Tasks
Data Center Layer	Supervisor Centre	3.1.6.6	Process Traffic Prediction Results	Post Elaboration Tasks
Data Center Layer	Supervisor Centre	3.2.10	Manage Store of Incident Data	Database
Data Center Layer	Supervisor Centre	3.2.12	Detect Incidents from Data	Elaboration Tasks
Data Center Layer	Supervisor Centre	3.2.13	Classify and Identify Incidents	Elaboration Tasks
Front-ends Layer	Supervisor Centre	3.2.14	Send Incident Details to Vehicles	Public Channels Front-End
Data Center Layer	Supervisor Centre	3.2.6	Assess Incidents and Devise Responses	Post Elaboration Tasks
Data Center Layer	Supervisor Centre	3.2.7	Provide Incident Mitigations to Traffic Management	Post Elaboration Tasks
Data Center Layer	Supervisor Centre	3.2.8	Send Incident Details to Others	Data Center Dispatcher
Front-ends Layer	Supervisor Centre	3.2.9	Send Incident Details to Information Providers	Public Channels Front-End
Data Sources Layer	Supervisor Centre	3.3.1	Receive Information on Travel Factors	User Data Source
Data Center Layer	Supervisor Centre	3.3.10	Review Demand Management Strategy Effects	Post Elaboration Tasks
Front-ends Layer	Supervisor Centre	3.3.13	Output Demand Management Information	Public Channels Front-End
Data Center Layer	Supervisor Centre	3.3.5	Provide Demand Management Operator Interface	Post Elaboration Tasks
Data Center Layer	Supervisor Centre	3.3.6	Analyse Data to find Demand Management Strategy	Post Elaboration Tasks
Data Center Layer	Supervisor Centre	3.3.7	Demand Management Strategy Implementation	Post Elaboration Tasks
Data Center Layer	Supervisor Centre	3.3.9	Manage Demand Management Data Store	Database
Data Sources Layer	Supervisor Centre	3.4.1	Monitor Weather Conditions	Meteo Data Source
Front-ends Layer	Supervisor Centre	3.4.10	Output Environmental Information	Public Channels Front-End
Data Center Layer	Supervisor Centre	3.4.11	Analyse Environmental Data and Implement Actions	Post Elaboration Tasks
Data Sources Layer	Supervisor Centre	3.4.2	Monitor Atmospheric Pollution	Environmental Station Sata Source
Data Center Layer	Supervisor Centre	3.4.7	Provide Environment Management Operator Interface	Post Elaboration Tasks
Data Center Layer	Supervisor Centre	3.4.8	Manage Environmental Conditions Data Store	Database
Data Center Layer	Supervisor Centre	3.5.12	Evaluate Need for Equipment Maintenance	Pre Elaboration Tasks
Data Center Layer	Supervisor Centre	3.5.8	Provide Maintenance Data Store Management	Database
Mobile probe system	Mobile system	5.12.7	Communicate with In-vehicle Systems	On-board Telematic Unit
Mobile probe system	Mobile system	5.13.6	Determine Vehicle Position	On-board Telematic Unit
Vehicle front-end	Mobile system	5.13.7	Prepare Extended Floating Car Data	
Mobile probe system	Mobile system	5.15.1.4	Detect Atmospheric Conditions near Host Vehicle	On-board Environmental Monitoring Unit
Mobile probe system	Mobile system	5.15.5	Collect & forward local Host Vehicle conditions	On-board Traffic Monitoring Unit
Mobile probe system	Mobile system	5.16.1	Manage Communication from Vehicle to Driver	Communication Unit
Mobile probe system	Mobile system	5.16.2	Output Commands and Dynamic Warnings	Human Machine Interface
RTTI application	Travel Information Service Provider	6.3.10	Implement Trip Plan and Track Traveller	
RTTI application	Travel Information Service Provider	6.3.13	Provide Traveller Trip Interface	
RTTI application	Travel Information Service Provider	6.5.10	Provide Traveller Trip Planning Interface	
RTTI application	Travel Information Service Provider	6.5.3.10	Obtain Data for Traveller Information	
RTTI application	Travel Information Service Provider	6.5.3.13	Provide Data & Routes to Fleet Operators & Drivers	
RTTI application	Travel Information Service Provider	6.5.3.3	Collect PT Data	
RTTI application	Travel Information Service Provider	6.5.3.7	Enable Operator Access to Tip Planning Data	
RTTI application	Travel Information Service Provider	6.5.3.8	Collect Data About Road Traffic	
RTTI application	Travel Information Service Provider	6.5.3.9	Plan Trip Details	
RTTI application	Travel Information Service Provider	6.6.1	Provide Traveller Information Interface	
RTTI application	Travel Information Service Provider	6.6.2	Produce Travel Information	
RTTI application	Travel Information Service Provider	6.6.3	Output Travel Information	
RTTI application	Travel Information Service Provider	6.6.4	Manage Travel Information Data Store	
RTTI application	Travel Information Service Provider	6.7.1	Define Traveller's General Trip Preferences	

RTTI application	Travel Information Service Provider	6.7.2	Evaluate Trip After Completion
RTTI application	Travel Information Service Provider	6.7.4	Manage General Trip Preferences Storage