



ENABLING VEHICLE INTERACTION WITH
TRAFFIC MANAGEMENT

Masterplan Roadmap

Version 1.0

The purpose of this document is to present a short (2020), medium (2025) and long-term (2030) vision to support the goals of TM 2.0.

The material for collecting opinions of the future of TM 2.0 consisted of three parts; two workshops and one survey.

The outcome shows that there is a gradual change from manual traffic management and cooperation with service providers always interpreted through a human in a vehicle, toward the digitalisation of the process on the management side, the intermediary side and the executive side. Primarily traffic management could be done directly with the vehicle with or without the service provider as an intermediary interpreting and personalising the traffic management action. Parallel or secondarily the process can, with the input from connected vehicles and other data sources, become more automated at the management side. These concepts could be called Direct Traffic Management and Automated Traffic Management and should be important deliveries of TM 2.0 in the future since there is a large need for dialogue, testing and standardisation between both service providers and original equipment manufacturers in these applications.

Conclusively, if all the data from workshops and surveys are compiled and summarised and complemented with the concepts for traffic management, the following result appears:



	2020	2025	2030
TM 2.0	<p>Define concept and business model Coordination mechanism Deployment to more cities Data protection Comparability tool</p>	<p>Direct Traffic Management concept (CCAM) Deployment to more countries and cross border Speed and lane management</p>	<p>Automated Traffic Management concept (AI) TM 2.0 Toolkit Large stakeholder involvement</p>
Public Authority	<p>Standardisation and comparison of Traffic Management NAP development and harmonisation</p>	<p>Transition to CAD Traffic Management as congestion solution Proactive Traffic Management Defined service requirements</p>	<p>Automated Traffic Management systems Traffic Management as a Service High Level traffic orchestration</p>
Service Provider	<p>Cooperation with Public Authority in Traffic Management (Socrates)</p>	<p>Traffic Management within same transport mode (Nav.) Traffic Management between transport modes (MaaS)</p>	<p>High level personalisation of services</p>
Original Equipment Manufacturer	<p>Level 3 AD</p>	<p>Level 4 CAD Private transport solutions providers</p>	<p>Towards Level 5 CAD</p>
External developments	<p>Geofencing, V2X, 5G, C-ITS directive</p>	<p>Legislation of connectivity, blockchain, smart parking, slot management, negotiating transport system</p>	<p>CCAM, Mixed traffic, MaaS with CAD, Interoperable traffic management (ports etc.)</p>