



ADAS Map

Highly accurate map content for driver assistance

Overview

Next generation automotive applications and GIS business solutions require higher quality and more detailed map content to maximize safety, improve driving comfort and efficiency, and provide business critical insight. As a predictive sensor, TomTom ADAS (Advanced Driving Assistance Systems) Map enable drivers to anticipate the road ahead. TomTom ADAS Map can be sold as part of a navigation application or as a standalone solution.

TomTom ADAS Map, available and used commercially since 2012, enables more than 1 million vehicles SAE Level 1 and 2 driver

assistance functions as well millions of navigation applications. TomTom customers currently employ these attributes to increase fuel efficiency and improve overall driver safety.

The TomTom ADAS Map is available with tailor-made packages and TomTom Vehicle Horizon software which communicates this map data over the vehicle network. This is also available in ADASIS v2 format. This enables OEMs to develop driver assistance functions that lead to improved driver comfort and improved powertrain efficiency.

Features

Gradient

Curvature on road

Curvature at junction

Lane at junction

Traffic signs

Speed restriction

Benefits

Improves fuel efficiency

Aids safer driving through predictive speed control

Improves comfort and predictive gear shifting

Informs driver of lane marking and possible maneuvers

Provides warnings and visualization for drivers

Improves Euro NCAP ratings and overspeed warnings



End user benefits

TomTom ADAS Map provides some of the following end-user benefits:

- Improves navigation with guidance at junctions and traffic sign and overspeed warnings
- Compliant with Euro NCAP requirements and European Intelligent Speed Assist mandate for speed restriction content
- Increases powertrain efficiency by using map data for predictive gear shifting and coasting advice
- More sophisticated range calculation for EV and hybrid vehicles by considering road geometry and speed restrictions
- Using map data for speed control increases driver comfort, building trust with end-users

Product formats

ADAS Map features are available in the following formats:

- MultiNet-R
- Navigation Data Standard (NDS)

Sample applications

	Gradient	Curvature on Road	Curvature at Junction	Lane at Junction	Traffic Signs	Speed Restrictions
Highway assist	●	●	●	●	●	●
Predictive powertrain control	●	●	●		●	●
Range calculation	●	●				●
Intelligent speed assist					●	●
Lane change assist				●		
Eco-routing	●					

