

# The Global Automotive OEM Telematics Market



**The Global Automotive OEM Telematics Market** is the sixth consecutive report from Berg Insight analysing the latest developments on the connected car market worldwide.

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## ***Highlights from this report:***

- **Insights** from numerous executive interviews with market leading companies.
- **New data** on car populations and new car registrations worldwide.
- **Comprehensive overview** of the car OEM telematics value chain and key applications.
- **In-depth analysis** of market trends and key developments.
- **Detailed profiles** of 22 major car OEMs and their telematics propositions.
- **Updated market forecasts** by region lasting until 2025.



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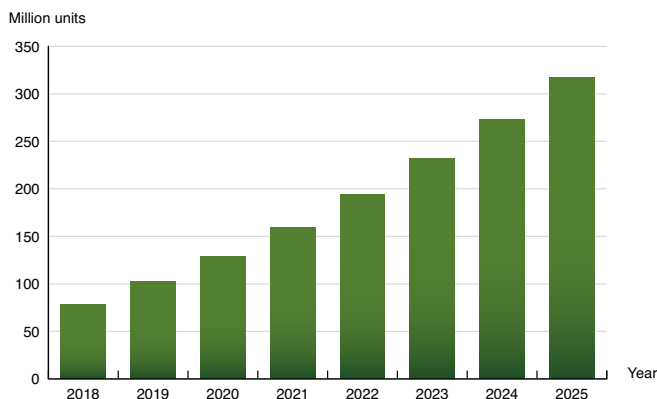


## The installed base of embedded OEM telematics systems to reach 317 million units by 2025

Telematics is a broad term that may be applied to a wide range of automotive connectivity solutions. Berg Insight's definition of a car telematics system in this report is an automatic system designed for passenger cars that incorporates some form of cellular communications. Mobile networks have enabled online connectivity with two-way communication at the same time as GPS technology has been commoditised to the extent that satellite positioning can be integrated into virtually any device. Automotive manufacturers can choose between several connectivity options when creating connected car services, which are not mutually exclusive. The main options are embedded telematics devices, tethered devices and integrated smartphones. Connectivity and intelligence can be built into the car in the form of embedded systems. Solutions relying on integrated smartphones leverage the connectivity and intelligence built into the smartphone. Carmakers often use a combination of these options to address different customer requirements and keep pace with the rapid development of mobile technology.

Several categories of car telematics applications are now offered on a commercial basis by most leading carmakers. Examples include eCall and roadside assistance, stolen vehicle tracking (SVT), vehicle diagnostics, over-the-air updates, connected navigation and infotainment, Wi-Fi hotspots as well as concierge services and convenience applications. Convenience applications mainly rely on embedded telematics devices to enable remote control of vehicle functions such as door lock/unlock, vehicle preconditioning (heating or cooling of the passenger compartment before a trip) and finding the last parking position. Several other applications also exist, for instance usage-based insurance, leasing and rental fleet management as well as electronic toll collection and road charging. However, these applications are in many cases offered by aftermarket service providers. Carmakers are also gradually exploring in-vehicle commerce platforms and data exchanges to offer telematics data to third-party service providers. During the past years, carmakers have supported third-party service providers with APIs enabling data access and SDKs for application development.

The connected car is a major trend in the automotive industry and virtually all of the world's leading carmakers have launched mass-market services in key regions. The drivers behind the adoption ►



Installed base of active embedded car OEM telematics units (World 2018–2025)

► of OEM telematics are both commercial and regulatory. Regulatory initiatives related to safety and security will have a decisive effect on the adoption of OEM telematics in Europe. The EU's eCall initiative and Russia's ERA-GLONASS have made an automatic emergency call device a mandatory safety feature in all new car models sold. In North America, commercial services have driven the adoption of OEM telematics services that have evolved from being a differentiator to a mainstream feature now offered by nearly all the leading car brands on a majority of their models.

Berg Insight estimates that more than 51 percent of all new cars sold worldwide in 2019 were equipped with an OEM embedded telematics system, up from 38 percent in 2018. North America is the most advanced market in terms of premium telematics services with an attach rate of 62 percent. The EU+EFTA region is picking up pace and had an attach rate of 61 percent. Other developed markets such as Japan and South Korea currently have attach rates of approximately 45 percent. China has emerged as an important market for telematics services with an attach rate of about 50 percent in 2019. In other regions, the attach rate is below 15 percent. GM, BMW, Mercedes-Benz and PSA are the leading adopters of embedded telematics, widely offering the technology as a standard feature across models and geographies. GM has offered telematics services for more than two decades, offering the technology as an integral part of its value proposition in North America, Europe and China. BMW introduced its ConnectedDrive service in North America and Western Europe in 1997. Other major car brands offering embedded telematics on a broad scale include Hyundai, Volkswagen, FCA Group, Volvo Cars, Toyota/Lexus, Renault, JLR and Tesla.

Berg Insight estimates that total shipments of embedded OEM telematics systems reached almost 39.6 million units worldwide in 2019. Growing at a compound annual growth rate of 10.3 percent, the shipments are expected to reach 71.2 million units in 2025. During the same time, the attach rate of embedded telematics units is forecasted to increase from about 51 percent in 2019 to 86 percent at the end of the forecast period. The number of telematics subscribers using embedded systems is forecasted to grow at a compound annual growth rate of 20.7 percent from 102.8 million subscribers in 2019 to 317.2 million in 2025.

### This report answers the following questions:

- What is the current status of the car OEM telematics industry?
- Which are the key OEM telematics applications?
- Which are the leading telematics service providers?
- How are mobile operators positioning themselves in the telematics value chain?
- What telematics offerings are available from the leading car OEMs today?
- What business models are used by car OEMs?
- How will the market evolve in Europe, North America, Latin America, Asia-Pacific and MEA?
- How will autonomous cars, electric vehicles and carsharing change the need for connectivity?

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