



Today, TomTom is really excited to be collaborating with Renault for the connected, autonomous and EV programme SYMBIOZ Demo car. And it's great to be part of this demo drive here in France.

For an autonomous vehicle to operate safely and efficiently, it is crucial that it must be able to locate itself with extreme accuracy. That's why, in the scope of the SYMBIOZ Demo car, TomTom is providing the TomTom High Definition (HD) Map with RoadDNA, a revolutionary digital map-based product that helps automated vehicles precisely locate themselves on the road.

We're also bringing engineering support on all of our navigation technologies (such as software, TomTom Standard Definition (SD) maps, online services, and NavKit) to Renault and its SYMBIOZ Demo car partners.

The Renault SYMBIOZ Demo car is a fantastic proving ground for our commercially-available autonomous offering.

#### **TOMTOM IN SYMBIOZ DEMO CAR**

The TomTom HD Map makes autonomous driving safe and comfortable.

Enabled by its real-time map infrastructure, TomTom's HD Map provides a highly accurate and realistic representation of the roadway profile, including curvature and terrain information. The HD Map extends the range of view for the vehicle while enabling smoother, safer and more efficient driving scenarios. The HD Map can also be leveraged to fulfill a broad range of advanced driving applications. The first generation of the HD Map focuses on highway driving; support for other environments including urban and rural will follow as autonomous driving evolves.

Robust positioning and localisation for autonomous vehicles with TomTom RoadDNA

TomTom has developed RoadDNA, a localisation layer in the TomTom HD Map that enables accurate and robust localisation for autonomous vehicles. TomTom's patented RoadDNA technology delivers a highly optimized, 3D lateral and longitudinal view of the roadway. With this, a vehicle can correlate RoadDNA data with data obtained by its own sensors. By doing this correlation in real time, TomTom RoadDNA precisely locates a vehicle on the road, even while travelling at high speeds.

#### **ABOUT US**

TomTom created the easy-to-use navigation device, as one of the most influential inventions of all time. Since then, we have grown from a start-up, into a global technology company – still with an entrepreneurial spirit.

Our software and navigation technologies power millions of devices and applications across the globe. This includes advanced telematics fleet management systems, embedded automotive navigation solutions; innovative personal navigation devices and apps, and real-time location-based products. Now, we're shaping the future, taking a front seat in contributing to autonomous driving and smarter cities.

Read our story – [www.tomtom.com](http://www.tomtom.com)