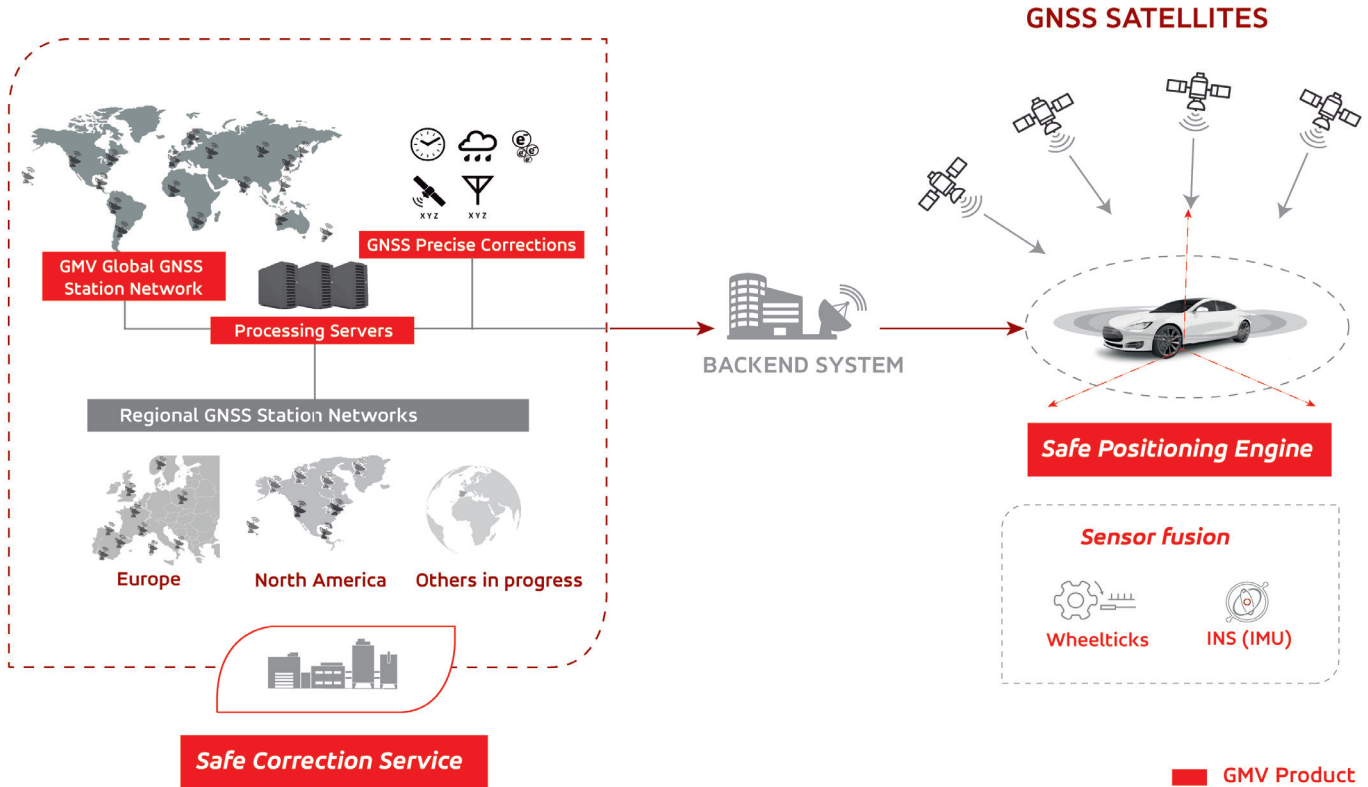


GMV GSharp®

SAFE HIGH-ACCURACY RELIABLE POSITIONING
FOR AUTOMOTIVE



AUTOMOTIVE GMV's safe precise positioning for autonomous driving



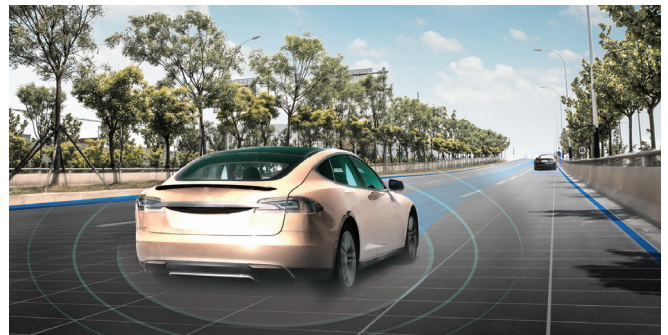
What is **GMV GSharp®** for Automotive?

- Complete GNSS Positioning Suite: **Positioning Engine & Correction Service**
- **Precise and safe algorithmic** solution for highly demanding **Autonomous Driving (AD)**
- **Integrity layer** for Safety-Critical Applications (ASIL B) (ISO 26262 - ISO 21488)
- **Multi-constellation** and **multi-frequency**
- **Proprietary Global GNSS**
- **PPP-RTK technology** with standard PPP messages (RTCM-SSR, IGS-SSR) and RTK SSR2OSR conversion
- **Highly configurable & Flexible** to **Automotive Grade components** and **customers**
- **Hybridisation with other sensors** (IMU, odometers...)
- **Cybersecurity (ISO 21434)** for a reliable position with the necessary level of protection
- **Compatible with V2X** applications

What is our performance?

- Integrity Risk < up to $10^{-7}/h$
- Service Availability (SLA) > 99,9 %
- Horizontal Accuracy < 10 cm (95%)*
- Convergence Time < 30 s
- Almost Instantaneous Reconvergence Time
- Service 24/7

* Nominal accuracy achieved with a mass-market automotive GNSS receiver under open sky conditions



Cutting-edge safety technology based on our experience in EGNOS & GALILEO as responsible for GNSS safety critical elements and high accuracy positioning systems



High accuracy & integrity
- SubLane-level accuracy
- TIR 10⁻⁷/hour



ASIL-B (ISO 26262 certified) plus additional standards fulfilled:
- ISO 21448 (SOTIF)
- ISO/SAE 21434
- A-SPICE CL3



Cutting-edge Safety validation
- RFSIM
- Edit & Replay
- Driving



Trusted by OEMs
Solution already installed in vehicles in production

