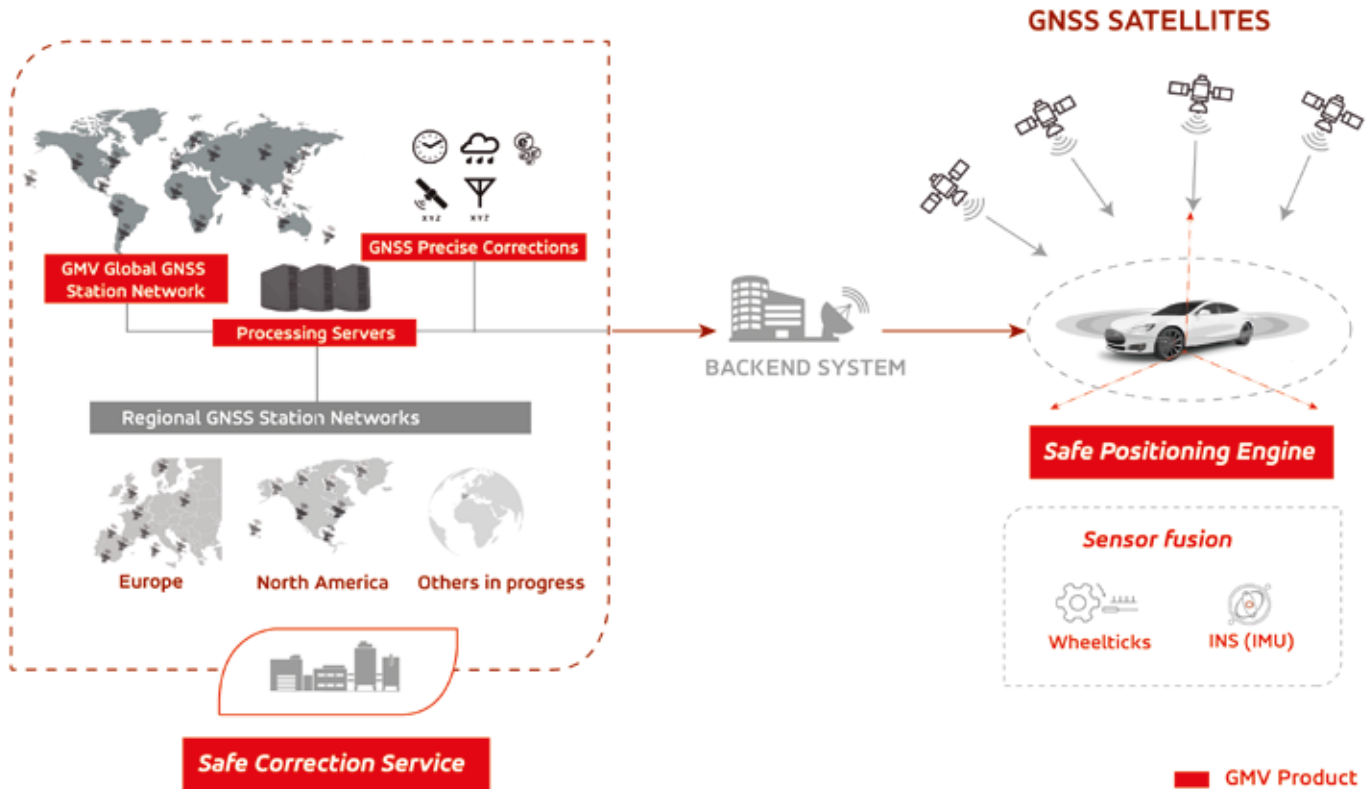


# GMV GSharp®

SAFE HIGH-ACCURACY RELIABLE POSITIONING  
FOR AUTOMOTIVE



AUTOMOTIVE  
**GMV's safe precise positioning  
for autonomous driving**



## What is **GMV GSharp®**?

- Complete GNSS Positioning Suite: Positioning Engine & Correction Service
- Precise and safe algorithmic solution for highly demanding ADAS and Autonomous Driving (AD) ranging from L2+ up to L5
- Integrity concept compliant with SOTIF (ISO 21488)
- System suitable for Safety-Critical Applications (ASIL B certified as per ISO 26262)
- 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 for different 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

