HTEC

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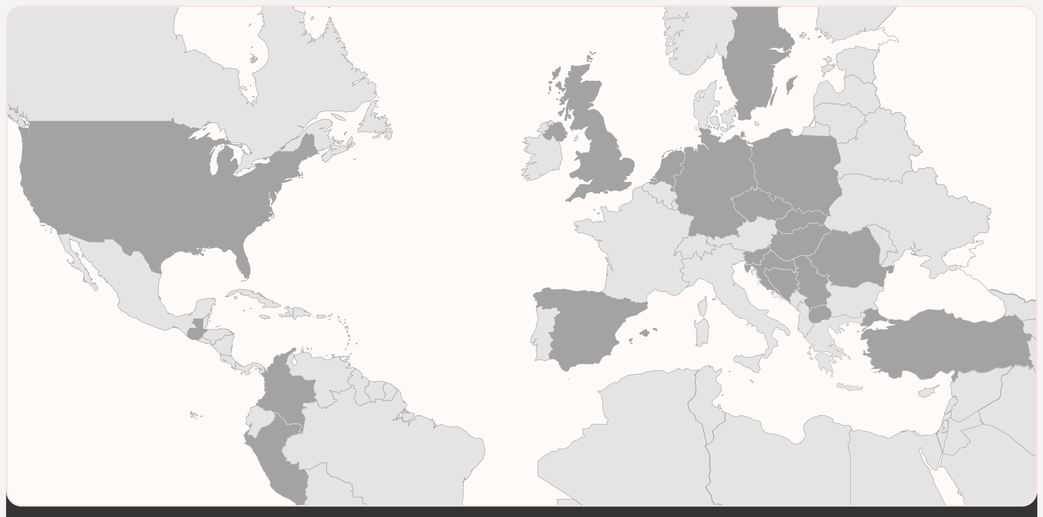
# Engineering the future of mobility – safe, connected, and intelligent

HTEC partners with global automotive leaders, including premium OEMs, Tier 1 suppliers, and chipmakers, to accelerate the shift to safe, connected, and intelligent mobility. As rising complexity, costly validation, and safety risks continue to pressure the industry, slower launches and fragmented platforms threaten competitiveness. We deliver AI-driven engineering, scalable validation, and connected systems that support innovation in electric and autonomous vehicles while ensuring compliance and reliability.



**30** Global locations

**3,000** Professionals

**45+** AI-first solutions across industries

## What we deliver for Automotive

HTEC delivers solutions across the automotive lifecycle, from autonomous driving and in-cabin systems to SDV platforms, connectivity, and data-driven services. Our expertise blends software, safety, and user experience with the creativity and flexibility needed to meet strict requirements and scale intelligent mobility.

### Autonomous driving

**Safer journeys with intelligent perception**

ADAS interpret traffic elements while driver and occupancy monitoring enhances safety and compliance.

### In-cabin experience

**Smarter, user-focused mobility**

Adaptive cockpits with Android integration enable personalized, compliant dashboard experiences.

### Verification and validation

**Cut validation time, increase reliability**

Compliant SIL/HIL automation increases test coverage while reducing costs for ECU and ADAS systems.

### AI and edge computing

**Optimized intelligence at scale**

AI/ML pipelines enhance performance and safety with accelerators and motor monitoring for reliability.

### Connectivity & SDV platforms

**New value through connected services**

V2X, OTA updates, and predictive diagnostics enable on-demand functionality and recurring revenue.

### Data management & processing

**Reliable insights from trusted data**

Scalable data pipelines power predictive maintenance and fleet analytics through ML-driven insights.

**~30%** Vehicle value from software & electronics by 2030 [1]

**~40%** R&D cost savings from platform standardization [2]

**>90%** New vehicles connected by 2030 [3]

**~25%** Annual revenue uplift per vehicle from connected services by 2030 [4]

**51%** Revenue from software & digital sources by 2035 [5]

## Our technology capabilities

### Embedded & safety systems

- AUTOSAR (Classic & Adaptive), RTOS, QNX, Linux
- ECU platforms, BSW & MCAL, real-time safety systems
- ISO 26262, ISO/SAE 21434, and ASPICE compliance
- Low-level software and secure system development

### ADAS & validation

- Sensor fusion, perception, mapping, and path planning
- HIL/SIL/MIL validation, simulation, and test automation
- AI/ML models for detection, decision-making, and safety assurance

### In-cabin & infotainment

- Android OS integration and multi-display infotainment
- Intelligent HMI and cockpit UX design
- Personalized in-car experiences with safety-first interfaces
- In-cabin monitoring and interior sensing

### Connected vehicle & data platforms

- V2X communication and OTA updates
- Cloud diagnostics, predictive maintenance, and digital twins
- Large-scale data ingestion, analytics, and ML pipelines

**Footnote/Reference:**

1. By 2030, software and electronics are expected to account for **~30% of a vehicle's value, up from about 20% in 2019.** Mapping the automotive software and electronics landscape through 2030, (McKinsey, 2021).
2. **Standardization of software and platforms can reduce R&D costs by up to 40%,** lowering complexity and accelerating development. Software-defined vehicles: The next big shift in automotive, (Deloitte, 2023).
3. More than **90% of new vehicles sold globally will be connected by 2030**, compared to about 50% today. Unlocking the full life-cycle value from connected car data, (McKinsey, 2021).
4. **Connected-car services could generate 20–25% annual revenue uplift per vehicle by 2030**, along with cost savings of $100–210 per year. Unlocking the full life-cycle value from connected car data, (McKinsey, 2021).
5. By 2035, **51% of automotive revenue is expected to come from digital and software sources,** up from 15% today. Automotive 2035: Competing for industry leadership in the new era of mobility, (IBM, 2022).

Accelerate launches, reduce complexity, and shape the future of mobility.

**Connect with our strategy team today.**