Welcome to ETAS

We excel in providing innovative solutions that drive the development of embedded systems for the automotive industry and related sectors. As a systems provider, we offer a comprehensive portfolio of integrated tools and tool solutions as well as engineering services, consulting, training, and support. Holistic security solutions for the Internet of Things (IoT) are offered under the ESCRYP'T brand.

Foundation: 1994 as subsidiary of Robert Bosch GmbH
Associates: over 1,400 (January 1, 2019)
Sales revenue: 312 million euros (2018)
International presence: 12 countries in Europe, Asia, and the Americas
Customers: automakers, automotive component suppliers, ECU suppliers, and engineering service providers
Portfolio expansion: engineering and consulting services, training programs, and premium-class customer service
The automotive industry is undergoing fundamental change. New, energy-efficient vehicle powertrains, (partially) autonomous driving, digitalization, connectivity, and cybersecurity – the list of innovations has never been so long. At the same time, new systems must be brought to market faster. Key technologies are electronics and software, which is exactly where ETAS’ strengths lie. Our solutions are used at all stages of embedded software development. We have divided our products and services into five key segments to reflect our customers’ application areas.

**Software Engineering**
Using simulation and rapid prototyping, new and modified functions can be demonstrated in vehicles at an early stage of development. The following product families are available for this: SCODE for description and optimization, ASCET for secure modeling and code generation, and ISOLAR for AUTOSAR integration. For rapid prototyping, EHOOKS supports bypass hook insertion, and the integration and configuration platform INTECRIIO supports the use of functional models from a remarkable variety of modeling tools.

**Test and Validation**
Model-in-the-Loop (MIL), Software-in-the-Loop (SIL), and Hardware-in-the-Loop (HIL) test systems play a key quality assurance role in the early stages of ECU development. They simulate the Driver-Vehicle-Environment (DVE) system, enabling developers to test the functions or diagnostic behavior of electronic control units, either on a PC or in the lab. Intelligent, electronically controlled functions that make the car automated, connected, and environment-friendly must be totally safe and secure and must work reliably under all circumstances. The ETAS LABCAR Hardware-in-the-Loop test system helps to check these functions extensively and efficiently.

**Measurement, Calibration, and Diagnostics**
Software tools from the INCA product family and vehicle-compatible hardware in the shape of measurement instruments, interfaces, and memory emulators for ECUs support the acquisition of measurement data during test drives, the calibration of powertrain functions, and the validation of onboard diagnostics. For model-based calibration, ETAS ASCMO is the ideal solution.

**Real Time Applications**
Offer a comprehensive product and service portfolio to help customers obtain reliable and safe embedded software. Included are RTA Basic Software and Tools for the efficient development of application software for vehicle ECUs, RTA Engineering Services for the development of tailor-made embedded software, as well as RTA Consulting Services to provide professional support services for the optimization of development processes.

**Cybersecurity Solutions**
Increasing connectivity and the real-time communication of vehicle systems and other electronic systems make comprehensive and cost-efficient protection necessary. ESCRYP'T has the expertise to provide customized and holistic IoT security solutions – with its security products for embedded devices, backend services, lifecycle management, and consulting.