



Smart City Expo World Congress 2018 in Barcelona

Bosch is making the cities of the future safer and more intelligent

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Stuttgart, Germany / Barcelona, Spain - Three-quarters of the world's energy production is consumed in cities, even though they make up only 2 percent of the earth's surface area. New technical developments are helping to drastically reduce energy consumption in cities and lower operating costs. Making a city smart can also help fulfill urban dwellers' high expectations of safety, energy efficiency, and convenience. Cities become smart when software and sensors combine to provide intelligent connectivity between vehicles, buildings, and devices. At the Smart City Expo World Congress 2018 in Barcelona (November 13–15), Bosch is presenting solutions and projects that will make the lives of people in such cities better and healthier.

Seville: smart crowd management

Since 2018, Bosch has been operating an intelligent crowd management system in Seville, the capital of Spain's Andalusia region, to increase safety in this city of some 700,000 people. Using the video analysis functions of Bosch cameras as smart sensors, the system gathers real-time information on data flow and crowds and it detects fast-moving objects or large vehicles in pedestrian zones. The system comprises an intelligent lighting system, a highly precise function for counting people and vehicles, and mechanisms for crowd control that will provide greater control and safety – in particular at large events in the city's historic center.

Kelsterbach: battery storage system for decentralized energy supply

A new microgrid including battery storage for 180 townhouses is being tested in Kelsterbach, in the German state of Hesse. In the future, local solutions based around the integration of a PV system, a cogeneration plant, and a central storage solution will guarantee power supplies to residential areas. At the same time, automated evaluation and real-time optimization of storage control will ensure that operation is efficient and steadily improves over time. For the area and the people living there, this system will offer a decentralized power supply, increase consumption of locally generated power, and reduce load peaks.

Helsingborg: smart solutions for everyone

In the Swedish port city of Helsingborg, Bosch is collaborating with two seniors organizations, KPR (Kommunala Pensionärs Rådet) and Seniornet, and with the local city authority. The aim of their joint project is to include older people in digitalization and make sure all people benefit from digital solutions for a smart and safe city. Seniors can use Bosch's [Vivatar](#) app to connect more easily and effectively with family members and people within their own neighborhood. The smart app is designed to help people whenever they are out and about, both in harmless situations and in emergencies. This increases users' sense of security and means they can go about their lives for longer without outside help. Following a pilot phase, the solution will soon be launched more widely on the market.

Development of a citizens' account as a smart city cloud solution

One cloud for a whole city. A pipe dream? Not for Bosch. In Ludwigsburg near Stuttgart, people's lives are set to become more connected over the coming years, and simpler and better as a result. Up to now, getting access to much of what the city offers has been a time-consuming process. Now those offers will be digitalized, making them easier to use. This includes such municipal services as web-based document retrieval, online access to childcare and other city service providers, and information about public events. With their own password, residents will be able to access these online from their own citizens' account.

Solutions for mobility, energy, buildings, safety, and e-governance

Demand for safety, security, energy efficiency, and convenience in cities is growing. These are just a few of the challenges that are resulting from growing urbanization. The key to overcoming them is cities that are intelligent and connected – cities that are “smart,” in other words. In many places, such cities are already a reality: Bosch has a range of solutions that are helping to make

cities smarter and increase quality of life for their inhabitants. For smart cities, Bosch offers solutions in the areas of mobility, energy, buildings, safety, and e-governance (i.e. digital city administration). In the area of mobility, this means environmental monitoring, connected parking, fleet management, e-mobility, and multimodal transportation. The company's energy solutions include virtual power stations, energy-efficient heating, hot-water, and cooling systems, and energy storage. Under the heading of safety, Bosch offers systems for fire safety, access control, and video surveillance. Bosch's [smart hospital](#) solutions relieve the technical and administrative burden on hospital operators and staff. For residential buildings, the company offers smart home technology and connected appliances.

On November 13, Bosch experts will be making presentations about the **Living Lab Ludwigsburg – a collaborative approach** (Andrea Braeuning, 1:45 p.m.) and on **Rethink the City, Livable. Sustainable. Resilient, How IoT can change the life in a city** (Paulo Ferreira, 5:15 p.m.).

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The Bosch Group is a leading global supplier of technology and services. It employs roughly 402,000 associates worldwide (as of December 31, 2017). The company generated sales of 78.1 billion euros in 2017. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT company, Bosch offers innovative solutions for smart homes, smart cities, connected mobility, and connected manufacturing. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiary and regional companies in 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 125 locations across the globe, Bosch employs some 64,500 associates in research and development.

The company was set up in Stuttgart in 1886 by Robert Bosch (1861-1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-two percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a charitable foundation. The majority of voting rights are held by Robert Bosch Industrietreuhand KG, an industrial trust. The entrepreneurial ownership functions are carried out by the trust. The remaining shares are held by the Bosch family and by Robert Bosch GmbH.

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