

## Press release



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## Fully charged: Bosch is putting electric vans on the road

- Bosch solution makes electrical powertrains for delivery vehicles cheaper and more efficient.
- Huge market potential: three-fourths of Germany's commercial vehicles are vans.
- Bosch management board member Heyn: "Bosch's electrical powertrain for commercial vehicles has the potential to change the face of urban delivery traffic."
- More information about the powertrain for electric vans can be found [here](#).

Stuttgart, Germany – Ordered with two clicks and conveniently delivered to your door the same day: the boom in online shopping is stretching delivery traffic in major cities to its limits. Vans and heavy trucks squeeze their way through city centers, where a lack of loading zones often leads them to double park. The result: blocked roads, noise, and emissions. In cities around the world, this is also causing traffic jams and fueling discussions about driving bans. And it's not just delivery services that are affected, but also tradespeople and other small companies that make customer visits in vans. "To keep pace with goods supply in cities, there's no avoiding a rethink of delivery traffic," says Dr. Markus Heyn, member of the board of management of Robert Bosch GmbH. This is one objective Bosch is looking to fulfill with its new electric powertrain for light commercial vehicles. The first vehicles to have this under the hood will launch in 2019.

### Quiet deliveries

Deutsche Post has already initiated change in urban deliveries with its StreetScooter, which uses a Bosch drive system. Now Bosch is going a step further by launching an electrical powertrain suitable for the vast majority of delivery vehicles. The idea behind this electromobility campaign is for electric vans to handle last-mile deliveries from distribution centers to recipients. The kind of stop-and-go traffic this entails is one area in which electric vehicles are

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particularly efficient, because they can recuperate the energy from constant braking, which increases their range. Most delivery routes amount to less than 80 kilometers a day – a distance easily covered on a single battery charge. Fleets can then be recharged overnight at the depot. Any driving bans in city centers would not affect electric fleets, since their powertrains cause zero local emissions. And it's not just cities that are keen to see package and courier services make resource-sparing deliveries. For 61 percent of Germans, whether an online retailer makes deliveries with electric vehicles is a key criterion in their choice (source PwC). One further advantage is that electric vehicles make less noise, which should also increase people's willingness to accept deliveries later into the evening. This could relieve traffic at peak times and provide for more flexible delivery windows. "Bosch is bringing e-mobility to where it really makes sense – urban deliveries," Heyn says.

### **Ready for the mass market**

There are [two versions](#) of Bosch's eCityTruck powertrain: one with a transmission and one without. The goal is to create solutions that are quick to integrate and accommodate automakers' differing requirements. These powertrain solutions can be scaled for light commercial vehicles weighing two to 7.5 metric tons, making them suitable for a large section of the commercial vehicle market. How? Small vans are very common; approximately three-fourths of all commercial vehicles registered in Germany belong to this class, and that number is on the rise (source: Shell). "Bosch's electrical powertrain for commercial vehicles has the potential to change the face of urban delivery traffic. We're getting electric vans ready for the mass market," Heyn says. With its new eCityTruck powertrain concept, Bosch has taken multiple components such as an electric motor and power electronics and combined them into one unit. This economizes on parts, making the powertrain not only far more efficient, but more affordable as well. Thanks to the easily integrated solution, customers no longer have the time-consuming task of developing new components. One further advantage for automakers, both established names and new players, is that the Bosch solution lets them bring vehicles to market quickly.

Bosch already offers an all-in-one solution for passenger cars – the [e-axle](#) – which significantly shortens vehicle development times. By expanding its product portfolio to include light commercial vehicles, Bosch is taking another decisive step in supporting automakers with their electrification strategies.

Bosch's plans for the electrification of commercial vehicles go beyond vans. Together with the Nikola Motor Company, a U.S. start-up, Bosch is developing a powertrain that raises the bar for electric range. For Bosch, these powertrain technologies for delivery traffic are another milestone on the path toward achieving a leading global position in the electromobility mass market set to emerge after 2020, and toward making its vision of emissions-free, accident-free, and stress-free mobility a reality. Bosch sees the future of mobility as automated,

connected, and electrified.

More information about the electrical powertrain for commercial vehicles can be found in the relevant [web special](#).

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## Basic information:

Mobility Solutions is the largest Bosch Group business sector. In 2017, its sales came to 47.4 billion euros, or 61 percent of total group sales. This makes the Bosch Group one of the leading automotive suppliers. The Mobility Solutions business sector pursues a vision of mobility that is accident-free, emissions-free, and stress-free, and combines the group's expertise in the domains of automation, electrification, and connectivity. For its customers, the outcome is integrated mobility solutions. The business sector's main areas of activity are injection technology and powertrain peripherals for internal-combustion engines, diverse solutions for powertrain electrification, vehicle safety systems, driver-assistance and automated functions, technology for user-friendly infotainment as well as vehicle-to-vehicle and vehicle-to-infrastructure communication, repair-shop concepts, and technology and services for the automotive aftermarket. Bosch is synonymous with important automotive innovations, such as electronic engine management, the ESP anti-skid system, and common-rail diesel technology.

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.

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