



@CITY - a complete success: MAN and project partners pave the way for autonomous urban transport

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For around 48 months, MAN Truck & Bus worked with 14 partners from the automotive and supplier industries, software development, and science to develop and test automated driving functions for the safe, efficient, and comfortable urban traffic of the future as part of the @CITY ("Automated Cars and Intelligent Traffic in the City") initiative. MAN focused on public transport applications and enabled buses to approach bus stops autonomously and with high precision. On June 22, 2022, the partners presented the results on the premises of the Aldenhoven Testing Center.

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- **MAN and partners successfully complete @City research and development project on autonomous driving in cities**
- **Results make important contribution to safety, efficiency and comfort in urban traffic of the future**
- **MAN city bus drives to stops with high-precision automation in @City project**
- **The benefits: optimal boarding and alighting for passengers, increased safety through digital interaction with other autonomous vehicles, reduced tire wear**

"Automated driving is an important component in making urban mobility fit for the future," says Walter Schwertberger, Project Manager @CITY at MAN Truck & Bus. "That's why we supported the research initiative and worked together to develop solutions to the challenges of bringing automation technology to urban road transport."

Modern urban traffic is even more complex than traffic in clearly structured environments such as highways: A wide variety of road users move with individual dynamics and diverse directions of movement in a very confined space. As a result, urban areas present a completely different mobility framework for the establishment of automation technologies than, for example, hub-to-hub transport by truck on the highway.

MAN Truck & Bus is one of Europe's leading commercial vehicle manufacturers and transport solution providers, with an annual revenue of just under 11 billion euros (2021). The company's product portfolio includes vans, trucks, buses/coaches and diesel and gas engines along with services related to passenger and cargo transport. MAN Truck & Bus is a company of TRATON GROUP and employs more than 34,000 people worldwide.



@City joint project on automated driving in urban environments

In order to be able to exploit the potential of automated vehicles for greater safety, energy efficiency and quality of life in urban mobility as well, 15 partners from the automotive industry, supplier industry, software development, science and research institutes joined forces in 2017 in the @CITY joint project funded by the German Federal Ministry of Economics and Climate Action (BMWK). In various subprojects, they addressed the diverse technical requirements of automated driving in turbulent urban traffic with other motor vehicles, pedestrians and cyclists: the precise detection of the vehicle environment by means of various sensors and the correct understanding of situations, the correct derivation of courses of action, but also the exact localization to within a few centimeters using digital maps as well as communication with other traffic actors. Building on this, automated driving functions were implemented as prototypes in test vehicles and tested under realistic conditions. MAN Truck & Bus focused on the development of technologies for city buses that enable automated approaching of stops.

MAN Lion's City drives to stop with high-precision automation

At the official presentation of the @City project results on June 22, 2022, at the Aldenhoven Testing Center, MAN demonstrated the sensitive precision of the bus, because the highly accurate approach to the curb of the bus stop not only determines whether passengers can get on and off the bus with optimum accessibility, but also helps to protect the tires and thus reduce wear and costs. The automated MAN bus in the @City project has also already mastered communication with other vehicles for safe exit from the stop: when the left turn signal is set, an electronic signal is simultaneously sent to automated cars approaching from behind so that they slow down and wait until the bus has safely left the stop again. "@CITY has given us important insights on the way to automated city bus transport and has shown us how we can use autonomous driving functions but also communication with other vehicles sensibly in practical operation," Walter Schwertberger summed up at the end of the two-day project demonstrations in Aldenhoven.

Weitere Informationen zum Projekt @CITY: www.atcity-online.de