



Autonomous ZF Shuttle Receives CLEPA Innovation Award

- **European Association of Automotive Suppliers honors the technology company's autonomous transport system in the Connectivity and Automation category**
- **ZF offers a clean, safe, and on-demand urban transport solution that can be implemented today**
- **Autonomous transport systems from ZF have been in use since 1997 and covered more than 100 million kilometers for the transport of more than 14 million passengers**

Friedrichshafen, Germany/Brussels, Belgium. ZF's autonomous shuttle wins the Innovation Award from CLEPA, the European automotive supplier association, in the Connectivity and Automation category. CLEPA has recognized ZF's new mobility concept as a clean, safe, and on-demand local transport solution that is ready for implementation now. The system has been extensively tested: In various projects worldwide, the vehicles have already covered more than 100 million kilometers autonomously and carried more than 14 million passengers – without safety drivers. This reduces costs and makes the shuttles operational 24 hours a day.

Whether transport operators, manufacturers, or suppliers, the mobility industry faces numerous and fundamental challenges. One of the greatest is the urgent need to reduce CO₂ emissions in the fight against climate change. In addition, city centers are overcrowded, and more and more motorized vehicles occupy public space. It is necessary to reduce the number of vehicles to avert constant traffic congestion and to use these spaces in urban areas more effectively.

Another factor is the inadequate connection of suburbs and rural areas to urban centers. ZF can support municipalities and transport authorities in the project planning and implementation of shuttle systems for their respective areas as well as in the service and maintenance of autonomous shuttles.

"With its holistic autonomous transport system, ZF offers an effective solution to these challenges," says Torsten Gollewski, Head of Autonomous Mobility Systems at ZF. "ZF offers all aspects of autonomous driving systems: sensors, software, and high-performance computers as well as the actuators needed for precisely accelerating,



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braking and steering the vehicle. This is how we contribute to enhanced road safety. We have mastered the technological challenge of self-driving shuttles with a fully redundant Level 4 vehicle – based on automotive graded components.”

ZF now offers a European mobility solution that meets international standards. ZF shuttles are already available today and are able to operate in urban traffic at up to 40 km/h, which is faster than the average speed in major European cities. A network of electrically powered, driverless shuttles, with on-demand scheduling and seamless connection to other public transport systems such as buses and trains, represents a true alternative to privately owned cars. These vehicles can even be operated economically on less busy routes – and for longer as well. The electric shuttles protect the environment and can provide enhanced air quality.

Every year, the European association CLEPA recognizes outstanding innovations from the entire ecosystem of automotive suppliers. In addition to the connectivity and automation category, an international expert jury recognizes awards in the areas of cooperation, environment, and safety. Last year, ZF received the CLEPA Innovation Award for its environmental friendly eTrailer, a prototype semitrailer with integrated electric drive. In 2017, WABCO and ZF won an innovation award for their jointly developed Evasive Maneuver Assist for commercial vehicles.

Caption:

Vanessa Bauschatz and Michael Hoffmann from ZF Mobility Solutions GmbH are delighted to receive the CLEPA innovation award in the connectivity and automation category for ZF’s autonomous shuttle.

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About ZF

ZF is a global technology company supplying systems for passenger cars, commercial vehicles and industrial technology, enabling the next generation of mobility. ZF allows vehicles to see, think and act. In the four technology domains of Vehicle Motion Control, Integrated Safety, Automated Driving, and Electric Mobility, ZF offers comprehensive



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product and software solutions for established vehicle manufacturers and newly emerging transport and mobility service providers. ZF electrifies a wide range of vehicle types. With its products, the company contributes to reducing emissions, protecting the climate and enhancing safe mobility.

In fiscal year 2020 ZF reported sales of €32.6 billion. The company employs more than 150,000 associates at approximately 270 locations in 42 countries.

For further press information and photos please visit: www.zf.com