



ZF Shaping the Future of Automated Driving Development on Multiple Fronts

- **New partnerships accelerating technical expertise**
- **Three-dimensional environmental mapping to help enhance existing 360 degree sensing**
- **Enhanced functionality in highway driving including exit capability**

Friedrichshafen. ZF continues its quest of enabling the next generation of vehicles to See, Think and Act as it shapes the future of mobility. Through new partnerships and a broad spectrum of internal technical expertise, ZF is developing advanced automated functions and the capability to deliver higher levels of autonomous driving in the future.

“In the past year alone ZF has established a 40 percent stake in solid state lidar developer Ibeo; announced its partnership with NVIDIA to bring the ProAI, the world’s first Artificial Intelligence electronic control unit to market; taken a 45 percent stake in ultra-high frequency radar maker Astyx; and most recently established a partnership with interiors giant Faurecia to help design the cockpit of the future with safety as a critical goal,” said ZF CEO Dr. Stefan Sommer.

Additionally, the ZF advanced engineering teams are developing high resolution radar and how it can be combined with laser technology to help yield a three-dimensional representation of the vehicle environment. This will enhance capabilities already being developed for 360 degree viewing capability around the vehicle such as the combination of the Tri-Cam three lens camera and the AC2000 radar applications for forward and side views.

A current point of emphasis remains on developing Level 2 and Level 3 automated functions. For example, ZF continues to refine and enhance its Highway Driving Assist system with new functions



such as automated exit support. This function gives drivers the ability to choose the exit lane from which they opt to leave the highway and the lane change into the exit lane will be automatically performed.

This can be used in conjunction with GPS mapping devices where a button can be pressed on the touch screen to indicate the exit lane of choice – the system can evaluate the maneuver and then executes it.

“Automation must go hand-in-hand with safety as people will only choose to use the transportation modes in which they feel confident and secure. Therefore, we are following a path that balances the acceleration of new technologies with systems proven on the roadways – we will work to enhance, test and validate new innovations that will benefit transportation users across a broad spectrum of mobility and industrial applications,” Sommer concluded.

Caption:

- 1.) The Electromechanical Roll Control (ERC) roll stabilization system helps eliminate most unwelcome movement in the vehicle body.

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ZF is a global leader in driveline and chassis technology as well as active and passive safety technology. The company has a global workforce of around 137,000 with approximately 230 locations in some 40 countries. In 2016, ZF achieved sales of €35.2 billion. ZF annually invests about six percent of its sales in research & development – ensuring continued success through the design and engineering of innovative technologies. ZF is one of the largest automotive



suppliers worldwide. ZF allows vehicles to see, think and act. With its technologies, the company is striving for Vision Zero – a world of mobility without accidents and emissions. With its broad portfolio, ZF is advancing mobility and services in the automobile, truck and industrial technology sectors.

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