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## **Product and Technology Communications**

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# Automotive and Mobility Industry Leaders Publish First-of-its-Kind Framework for Safe Automated Driving Systems

- Key companies in the automaker, supplier and technology industries combine expertise
- Joint document describes the framework for development, testing and validation of safe automated systems

July 2<sup>nd</sup>, 2019 – "Safety First for Automated Driving" (SaFAD) white paper emphasizes the importance of safety by design for automated vehicles

Emphasizing safety by design, 11 industry leaders across the automotive and automated driving technology spectrum today published "Safety First for Automated Driving," (SaFAD), a non-binding organized framework for the development, testing and validation of safe automated passenger vehicles.

These 11 leaders — Aptiv, Audi, Baidu, BMW, Continental, Daimler, FCA US LLC, HERE, Infineon, Intel and Volkswagen — comprise the broadest representation across the industry and have published, to date, the largest report on how to build, test and operate a safe automated vehicle.

The SaFAD white paper authors' purpose is to emphasize the importance of safety by design, along with verification and validation, as the industry works toward creating standards for automated driving.

For the first time, SaFAD offers automated vehicle (AV) developers and operators a system for clear traceability that proves AVs to be "safer than the average driver" through components such as cameras or steering systems.

It is also the first time presenting a summary of widely known safety by design and verification and validation methods of Level 3 and Level 4 automated driving as defined by the SAE (J3016).

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The foundation of the SaFAD white paper is its 12 Guiding Principles, which are further refined into capabilities of the automated vehicle, from which safe-by-design elements are derived to support the capability and achieve the guiding principles. "Safety First for Automated Driving" combines the expertise from key companies in the automaker, supplier and technology industries to help direct development of safe automated vehicles.

Interest and development of automated driving technology has grown at a dramatic rate the past several years, fueled by the goal of reducing fatalities related to vehicle crashes, improvement of traffic flow and the introduction of new mobility concepts. This rapid growth brings a wide range of development methodologies from established companies and the growing roster of new enterprises.

With publication of "Safety First for Automated Driving," authors and experts from each of the participating partners will present the group's work at industry and technology conferences internationally over the next several months.

Note: In the spirit of collaboration, the companies are issuing a common press release. Journalists seeking more details are encouraged to contact one or more of the listed media contacts.

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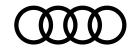
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\*Fuel consumption and CO<sub>2</sub> emissions figures given in ranges depend on the tires/wheels used and chosen equipment level. Further information on official fuel consumption figures and the official specific CO<sub>2</sub> emissions of new passenger cars can be found in the "Guide on the fuel economy, CO<sub>2</sub> emissions and power consumption of all new passenger car models," which is available free of charge at all sales dealerships and from DAT Deutsche Automobil Treuhand GmbH, Hellmuth-Hirth-Str. 1, 73760 Ostfildern-Scharnhausen, Germany (www.dat.de).

The Audi Group, with its brands Audi, Ducati and Lamborghini, is one of the most successful manufacturers of automobiles and motorcycles in the premium segment. It is present in more than 100 markets worldwide and produces at 18 locations in 13 countries. 100 percent subsidiaries of AUDI AG include Audi Sport GmbH (Neckarsulm), Automobili Lamborghini S.p.A. (Sant'Agata Bolognese, Italy) and Ducati Motor Holding S.p.A. (Bologna, Italy).

In 2018, the Audi Group delivered to customers about 1.812 million automobiles of the Audi brand, 5,750 sports cars of the Lamborghini brand and 53,004 motorcycles of the Ducati brand. In the 2018 fiscal year, AUDI AG achieved total revenue of €59.2 billion and an operating profit before special items of €4.7 billion. At present, approximately 90,000 people work for the company all over the world, more than 60,000 of them in Germany. Audi focuses on sustainable products and technologies for the future of mobility.