



Product and Technology Communications

Christian Hartmann

Spokesman/Spokeswoman Audi Q7, Audi Q8, automated driving

Phone: +49 151 52844338

E-mail: christian.hartmann@audi.de

www.audi-mediacyenter.com/en

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 2nd, 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).



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.

Aptiv

Miranda Hlaing
+1 (818) 632-8452
miranda.hlaing@aptiv.com

Audi

Christian Hartmann
+49 151 52844338
christian.hartmann@audi.de

Baidu

Chen Yuwei
chenyuwei01@baidu.com



BMW Group

Bernhard Ederer
+49-176-601-28556
Bernhard.Ederer@bmwgroup.com

Continental

Sören Pinkow
+49 (0)151 4385 7590
Soeren.pinkow@continental.com

Daimler

Bernhard Weidemann
+49 (0)176 30925108
bernhard.weidemann@daimler.com

Fiat Chrysler Automobiles

Dale Jewett
+1 (248) 421-1986
dale.jewett@fcagroup.com

HERE Technologies

Jordan Stark
+1 (312) 316-4537
jordan.stark@here.com

Infineon

Oliver Scharfenberg
+49 (0)160 938 777 18
oliver.scharfenberg@infineon.com

Intel

Robin Holt
+1 (503) 616-1532
Robin.holt@intel.com



Volkswagen

Eric Felber

+49-511-798-4762

Eric.felber@volkswagen.de

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**Fuel consumption and CO₂ 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 CO₂ emissions of new passenger cars can be found in the "Guide on the fuel economy, CO₂ 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).*

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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.
