

AVL and Silicon Mobility Collaborate on the Efficiency of Electric Vehicles

Sophia Antipolis – France, Regensburg - Germany September 4th, 2019:

Silicon Mobility, technology player powering control solutions for a cleaner, safer and smarter mobility, and AVL Software and Functions GmbH, announced today a cooperation agreement for the collaboration of work to increase energy efficiency of electric and hybrid vehicles. The partnership provides an opportunity for both companies to draw upon each other's strengths to further develop and bring to market advanced technology of powertrains ready to use.

"This partnership will allow us to test and implement Silicon Mobility's advanced inverter and e-Motor controls technology, which will help us to continue our path of excellence in the development of e-Drive systems." says Dr. Georg Schwab, managing director of AVL Software and Functions. "By working together, we will pursue our mission to fulfill the high expectations of our customers with world class products and processes."

"Together with AVL, one of the most respected leaders in automotive powertrain systems, we will combine control technology and system knowledge to further improve the range of electric vehicles" said Bruno Paucard, CEO of Silicon Mobility. "It is a very exciting project to equip AVL's e-Drive system with OLEA control technology, so we can create together a reference system in energy efficiency!"

As part of the collaboration agreement, AVL and Silicon Mobility will build a 250kW inverter – e-Motor system based on the current AVL 250kW IGBT inverter. This system will be powered by OLEA® T222 FPCU and OLEA® APP INVERTER HE to extract the best energy efficiency delivered by the electric motor. The resulting system is planned to be made available for customers interested in design license, prototype or SOP projects. The efficiency of the combined solution will be measured on AVL test benches. The partners plan to extend their collaboration also to the drive and control of advanced Silicon Carbide (SiC) power technologies by OLEA® T222 FPCU and OLEA® APP INVERTER HE in the latest generation of AVL inverters.

About AVL Software and Functions GmbH:

With over 10.400 employees AVL is the world's largest independent company for development, simulation and testing technology of powertrains for passenger cars, trucks and large engines. AVL Software and Functions was founded in 2008, is a subsidiary to AVL and has been experiencing strong growth ever since. The focus is on technologically leading software and system solutions for intelligent and ecologically compatible mobility as well as system integration and electronics development. AVL has been designing and improving all types of drive systems for years and is realizing new visions for the future. On the one hand, AVL's software helps conventional cars and trucks to comply with the strict exhaust emission regulations, on the other hand, sophisticated functions control modern electric vehicles reliably.

For more information, visit: www.avl-functions.com

About Silicon Mobility:

Silicon Mobility is a technology leader delivering solutions for cleaner, safer and smarter mobility. The company designs, develops and sells flexible, real-time, safe and open semiconductor solutions for the automotive industry, that are used to increase energy efficiency and reduce pollutant emissions while keeping passengers safe. Its products control electric motors, battery and energy management systems of hybrid and electric vehicles. By using Silicon Mobility's technologies, manufacturers improve the efficiency, reduce the size, weight and cost of electric motors and increase the battery range and durability. Its technologies and products accelerate the car's powertrain electrification and the deployment of driverless vehicles for OEMs. Silicon Mobility is headquartered in Sophia-Antipolis, France, with a global presence in Germany, Silicon Valley, CA., China, and Japan.

For more information, visit: www.silicon-mobility.com

Communication/Press Contacts:

Dr. Thomas Frey, AVL E-Drive

Phone:

E-mail: thomas.frey@avl.com

David Fresneau, Silicon Mobility

Phone: +1 415 513 2426

E-mail: david.fresneau@silicon-mobility.com