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## Faurecia introduces its Active Wellness 2.0 seat, which predicts driver behavior and prepares occupants for autonomous driving

### Developed with support of two start-ups in Faurecia innovation ecosystem

At the Paris Motor Show today, Faurecia, one of the world's largest automotive suppliers, revealed its **Active Wellness™ 2.0** seat which will become a vital core components of the cockpit of the future. This advanced version of Active Wellness fuses physiological and behavioral data from sensors in and around the seats and activates systems to ready occupants for the new realities of autonomous driving and manage their well-being during their journey.

Active Wellness 2.0 is one of the first examples of how the cockpit of the future will become predictive through occupant monitoring and data management to ensure comfort and safety in different driving modes. It offers significant advancements over the original version of the seat, which Faurecia introduced last year. The new version expands the types of data collected to a dozen points using contactless sensors in the seat, infrared cameras and Bluetooth that provide far more extensive and accurate information on the driver's condition.

Through sensors, Active Wellness 2.0 collects and analyzes biological data and remembers the driver's behaviors and preferences, allowing it to predict how the driver will be most comfortable based on his physical condition, time of day, traveling conditions and whether in semi-autonomous or autonomous mode. Then the seat system applies countermeasures pertaining to detecting motion sickness, stress, discomfort, drowsiness and readiness to operate controls. Data gathered on the driver's condition is translated into a variety of actions and therapies that include adjusting the seat position; a five-program massage capability; seat ventilation and heating; and changes in ambient lighting or the audio environment.

The contactless sensors in the seat have been developed through a partnership with **Hoana**, a medical device company that invented sensors embedded in hospital beds as a way to obtain vital signs of patients. Faurecia has seamlessly and invisibly integrated this technology into a vehicle seat. Analysis of sensor data is carried out in the car as well as in the cloud. Faurecia works with its partner **CloudMade** to evaluate usage patterns and automatically adjust the seat for individualized comfort.

*"Faurecia is focusing in particular on the driver or vehicle occupant experience for different autonomous driving situations,"* said Faurecia Philippe Aumont, CTO of Faurecia Automotive Seating. *"Our aim is to ensure optimal comfort and safety at all times by merging biometric data, predictive analysis and the connected vehicle into an integrated technology for well-being. Faurecia's expertise in seat and vehicle interior architecture, mechatronics and comfort and its ability to work with best in class partners for data collection and management make it uniquely placed to develop systems such as Active Wellness."*

When a vehicle is in autonomous mode and the driver wishes to work or relax, for instance, Active Wellness 2.0 sees that the occupant is changing activity and the driver can command the seat automatically to adjust the headrest, seatback and armrest to the most comfortable relaxed position for the individual to minimize motion sickness. When preparing to leave autonomous mode, sensors in Active Wellness 2.0 evaluate the driver's position against a checklist, determining if he or she is ready to take back control of the vehicle.

Faurecia has mastered the challenges of filtering out road vibrations and other potential issues by testing Active Wellness 2.0 in multiple cars on the road in the U.S.A. and in Germany, evaluating the system under real-driving conditions. Numerous automakers have expressed interest in Active Wellness 2.0, and Faurecia is engaged in discussions with them that are likely to lead to its first production within the next five years.

## About Faurecia

Faurecia is one of the world's largest automotive equipment suppliers with global leadership positions in three activities: Automotive Seating, Interior Systems and Emissions Control Technologies. Its strong technology offer provides automakers with solutions for the cockpit of the future and sustainable mobility. In 2015, the Group posted total sales of €20.7 billion and employed 103,000 people in 34 countries at 330 sites and 30 R&D centers. Faurecia is listed on the NYSE Euronext Paris stock exchange and trades in the U.S. over-the-counter (OTC) market. For more information, visit [www.faurecia.com](http://www.faurecia.com)

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