

# News Release

## Hyundai Motor's connected car technology enhances people's lives

- The Intelligent Personal Cockpit shows the development of connected car technology with Car-to-Home IoT capability including voice-control.
- Collaboration of Hyundai Motor and Cisco to develop future hyper-connected production vehicles.
- Strategic partnership with Aurora to bring self-driving Hyundai vehicles to market by 2021.

**March 6, 2018** –Hyundai's future technology recognises what today's drivers need to facilitate their lives, for example with the Intelligent Personal Cockpit. It showcases Hyundai's progress in connected car technology development. The cockpit employs multiple cutting-edge technologies ranging from voice recognition Artificial Intelligence (AI), Internet of Things (IoT) technology and even driver stress detection.

### **AI-based voice recognition and Car-to-Home IoT-capability**

New voice-recognition technology from SoundHound allows drivers to voice-control frequently used in-vehicle functions such as air-conditioning, sunroofs and door locks. In the future, there will be an entire suite of new voice-control capabilities inside the Intelligent Personal Cockpit including Car-to-Home IoT capability. Car-to-Home IoT extends the reach of the driver's voice beyond mobile applications and into the home environment. With voice commands, a driver cannot only play music in the car, but also turn on the lights at home and stream that same song right to their home audio system for a seamless transition from driveway to living room.

The Intelligent Personal Cockpit goes a step beyond most other voice recognition technology with the 'multiple-command recognition' function. The system recognises two separate commands of the driver in the same sentence and completes each task separately.

The Intelligent Personal Cockpit can act as a proactive assistant system, predicting the driver's needs and providing useful information. For example, the system may give an early reminder of an upcoming meeting and suggest departure times that take current traffic conditions into account.

### **The Intelligent Personal Cockpit includes Wellness Care**

Another important technology embedded in the Intelligent Personal Cockpit is Wellness Care. The function utilises two sensors placed on the steering wheel and the seat. The sensors monitor heart rate for sudden changes and may detect driver stress level. If the sensors detect stress, the system is equipped to take action and provide access to online visual consultation with a doctor or simply turn on a soothing playlist while dimming the cabin lighting for a more comfortable driving experience.

Developed by Hyundai's In-house start up called Tune!t, there are two additional advanced features as part

of the IoT cockpit. "Smart Tuning Package" enables the cockpit to turn into a personalised space. The seat position can be adjusted to the driver's height, and music is chosen to driver's preference using wireless IoT technology. Another striking feature is that you can open the door of the vehicle simply by knocking twice.

### **Next-Generation in-vehicle network technology**

To develop the next generation of hyper-connected production vehicles Hyundai Motor is collaborating with Cisco. The unique automotive and IT collaboration is focused on technology solutions for in-vehicle data demands, which will increase exponentially with autonomous driving and other connectivity needs. The flexible expansion of connections to handle large data sets coming from various components in the vehicle simultaneously is ensured through Ethernet-based software. Hyundai and Cisco have created a new platform that provides highly secure access to all the data in the vehicle. The platform utilises the first generation of 1Gbps architectures and Automotive Ethernet with QoS allowing for maximized bandwidth. The system is highly configurable and secure – and offers the flexibility to design and build new services. It will also accelerate innovation, provide 'over the air updates', and shorten the lifecycle in bringing new capabilities to market. With the In-Vehicle Network software scheduled to arrive in 2019, Hyundai Motor is poised to take a global lead with yet another key connected car technology.

### **Hyundai's next big step towards fully autonomous driving**

To bring self-driving Hyundai vehicles to market by 2021, the company recently entered into a strategic partnership with Aurora, a leader in autonomous vehicle technology. It will incorporate Aurora's self-driving technology into Hyundai vehicles starting with models custom-developed and launched in test programs and pilot cities. The All-New NEXO is the first model to be utilised in the test processes, which started in early 2018. The fuel-cell powertrain offers an ideal platform to implement autonomous driving technologies, which requires a massive amount of power to support the large amount of data communication as well as the operation of hardware such as sensors. Over the longer term, Hyundai and Aurora will work to commercialise self-driving vehicles worldwide. To start, the partnership will focus on the on-going development of hardware and software for automated and autonomous driving and the back-end data services required for Level 4 automation. Level 4 autonomous vehicles defined by SAE can operate without human input or oversight under select conditions. The goal of the partnership is to deploy autonomous driving quickly, broadly and safely.

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### **About Hyundai Motor Europe**

In 2017, Hyundai Motor achieved registrations of 523,258 vehicles in Europe – an increase of 3.5 per cent compared to 2016, growing stronger than the market. By mid-2018, Hyundai will have replaced 90 per cent of its model line-up to create the youngest car range in Europe. 85 per cent of the vehicles Hyundai sold in the region are models designed, engineered, tested and built in Europe to meet the needs of European customers, served by the company's extensive European infrastructure. This includes two factories in the Czech Republic and Turkey, which have a combined annual capacity of 600,000 units. Hyundai Motor sells

cars in 31 European countries through 2,500 outlets.

Hyundai Motor offers its unique Five Year Unlimited Mileage Warranty package with all new cars sold in the region, providing customers with a five-year warranty with no mileage limit, five years of roadside assistance and five years of vehicle health checks.

More information about Hyundai Motor Europe and its products is available at [www.hyundai.news](http://www.hyundai.news).

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### About Hyundai Motor

Established in 1967, Hyundai Motor Company is committed to becoming a lifetime partner in automobiles and beyond. The company leads the Hyundai Motor Group, an innovative business structure capable of circulating resources from molten iron to finished cars. Hyundai Motor has eight manufacturing bases and seven design & technical centers worldwide and in 2017 sold 4.5 million vehicles globally. With more than 110,000 employees worldwide, Hyundai Motor continues to enhance its product line-up with localized models and strives to strengthen its leadership in clean technology, starting with the world's first mass-produced hydrogen-powered vehicle, ix35 Fuel Cell and IONIQ, the world's first model with three electrified powertrains in a single body type.