



**Trends Communications**  
Regina von Katte  
Phone: +49 841 89 988411  
E-mail: [regina.von-katte@audi.de](mailto:regina.von-katte@audi.de)  
[www.audi-mediacyenter.com](http://www.audi-mediacyenter.com)

In cooperation with:



Stadt Ingolstadt

## **Audi, the city of Ingolstadt and Telekom cooperate on 5G technology**

- **Pioneering technology partnership between AUDI AG, the city of Ingolstadt and Deutsche Telekom on 5G cellular network technology**
- **5G test field as of 2020 in Ingolstadt for safe, digital and connected mobility**
- **5G cellular standard opens up new technological possibilities for the mobility of the future**

**Ingolstadt/Bonn, October 2, 2019 – Audi and Deutsche Telekom are entering into a pioneering 5G technology partnership together with the city of Ingolstadt. This was announced by the three partners at the signing of a memorandum of understanding in Ingolstadt on Wednesday. The goal is to use the new 5G technology to make urban mobility safer, more digital and more sustainable.**

The memorandum of understanding is the basis for the development of a digital transport infrastructure that in the long term will offer people greater road safety, better traffic flows and real-time digital services. The city council of Ingolstadt had already approved the cooperation and an application to set up a 5G model region in July.

### **5G as a technological prerequisite for connected mobility**

The future 5G cellular network standard will allow significantly higher bandwidths and virtually real-time network responses. 5G is thus an essential technological basis for communication between different road users, automated driving and connections to the Internet of Things (IoT).

One possible 5G application is connected traffic signals at road junctions that exchange anonymized movement data with cars and other road users via the 5G network. This will enable drivers or cars themselves to react more quickly to unforeseen movements. Mobile 5G devices of pedestrians and cyclists can also be integrated into real-time communication between infrastructure and cars, so that all road users can be connected as comprehensively as possible. Furthermore, new technologies such as 5G can reduce the time spent searching for parking spaces, which is a significant proportion of increased traffic volumes in cities. Free parking spaces will be communicated to drivers as real-time information so that they can navigate directly to them.



### **Ingolstadt as an innovation cluster**

The city of Ingolstadt will comprehensively support the installation and development of the cellular infrastructure of Deutsche Telekom, thus supporting application-oriented developments in the mobility sector, for example. As well as Audi, other industrial companies will be able to use the local 5G infrastructure.

In order to actively inform and involve the local population, a public event is planned at which the three partners will provide information on the technology, measures to be taken and specific fields of application of the 5G initiative.

“As a technology location, Ingolstadt is open to and welcoming to innovations. Together with companies and scientists, we are prepared to cooperate here in the testing and development of applications. Because if new technologies promise an advantage, we should also use them for the benefit of people. We see cooperation on the ‘Ingolstadt Test Field’ as a contribution towards securing qualified jobs in our city and as a demonstration of our efforts as a location for digital mobility. As with all innovations, however, the population must also be involved in 5G and actively informed about the technology and related projects,” says **Dr. Christian Lösel, Mayor of Ingolstadt.**

“As a technology leader, Deutsche Telekom is supporting the city of Ingolstadt and Audi with the implementation of their innovative ideas. We are bringing 5G not only to the people of Germany, but also to the country’s industry. In the future, innovation and 5G will be inseparable. We are therefore delighted to be working with Audi and the city of Ingolstadt,” says **Martin Knauer, Head of Cellular Sales for Business Customers at Telekom Deutschland.**

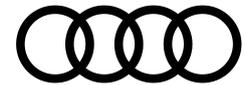
“Consistently connected – that’s our goal along the way to the mobility of tomorrow. On the basis of 5G technology, Audi as an automobile manufacturer can contribute towards improving mobility in cities. Together, we are developing integrated solutions for the city of the future,” says **Peter Steiner, Managing Director of Audi Electronics Venture GmbH.**

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**Audi Electronics Venture GmbH (AEV)** has been developing new technologies for the automobiles of the Audi brand since October 2001. The 100-percent subsidiary of AUDI AG works on new functions and new software, scouts the globe for innovative technologies, invests in startups and cooperates with companies from other industries. In order to meet the challenges of the dynamic high-tech environment, AEV focuses on combining its own strengths with those of its partners. In this way, AEV accelerates its development cycles and thus effectively extends Audi’s *Vorsprung durch Technik*.

**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 approximately 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.

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