

PRESS RELEASE

March 25, 2015

Ericsson cooperates with Technische Universität Dresden on 5G

- Joint research and development for innovative machine-type communication
- New Networking Concepts for Multimedia Delivery for tomorrow's end-users
- Cooperation underlines Ericsson 5G engagement in Europe

[Ericsson](#) and the [Technische Universität Dresden](#) (TU Dresden) today announced a collaboration on 5G research, to address some of the challenges the fifth generation of mobile communication faces in enabling the full potential of a Networked Society. One area of the cooperation with TU Dresden's [5G Lab Germany](#) will be low-latency and ultra-high reliability communication for critical use cases; for example, autonomous driving, management of Smart Energy grids and the Tactile Internet. Another topic will be on new network concepts for high-bandwidth multimedia delivery of future video services. Ericsson and the TU Dresden will work together on advanced technology solutions and develop proof of concepts showcases and prototypes on industry specific use cases.

Professor Dr. Gerhard Fettweis, coordinator of the 5G Lab Germany at TU Dresden, says: "Involving Ericsson as a leading player in cellular and 5G strengthens our strategy to drive our ideas to innovations and make the Tactile Internet happen. With Ericsson's system insights and know-how we can apply our new technological concepts, like frequency diversity exploitation techniques, to future mobile networking solutions for critical use cases."

The collaboration will work in harmony with Ericsson's cooperation with King's College London and build on other leading European research institute and university partnerships on 5G recently announced with the Royal Institute of Technology, Chalmers University of Technology and Lund University.

Valter D'Avino, Ericsson Head of Region Western and Central Europe, says: "The collaboration with TU Dresden and King's College will accelerate the momentum around smart cities and evolved industries powered by 5G in UK and Germany and underscores Ericsson's ongoing commitment to innovate in Europe and develop 5G with relevant partners as the basis of a networked society and of digitized economies in the next decades. We see 5G as an uplift for Europe."

5G is expected to begin commercial rollout in 2020. Around that time Ericsson believes that we will witness up to 50 billion connected devices, mainly in machine-to-machine communication. 5G networks will enable a wide variety of use-cases such as evolved mobile broadband services, a range of machine-to-machine communication, future media distribution.

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About Ericsson

Ericsson is the driving force behind the Networked Society – a world leader in communications technology and services. Our long-term relationships with every major telecom operator in the world allow people, business and society to fulfill their potential and create a more sustainable future.

Our services, software and infrastructure – especially in mobility, broadband and the cloud – are enabling the telecom industry and other sectors to do better business, increase efficiency, improve the user experience and capture new opportunities.

With approximately 115,000 professionals and customers in 180 countries, we combine global scale with technology and services leadership. We support networks that connect more than 2.5 billion subscribers. Forty percent of the world's mobile traffic is carried over Ericsson networks. And our investments in research and development ensure that our solutions – and our customers – stay in front.

Founded in 1876, Ericsson has its headquarters in Stockholm, Sweden. Net sales in 2014 were SEK 228.0 billion (USD 33.1 billion). Ericsson is listed on NASDAQ OMX stock exchange in Stockholm and the NASDAQ in New York.

About TU Dresden

Founded in 1828, Technische Universität Dresden (TUD) is a full-scale university with 14 faculties, covering a wide range of fields in science and engineering, humanities, social sciences and medicine. TUD has about 36,000 students and 4,400 permanent employees with 419 professors among them. TUD prides itself for its international flavour and has partnerships with more than 70 universities worldwide. Since 2012 TUD is one of eleven German universities that were identified as an “excellence university” by the Federal Government. TUD’s emphasis on applications in both teaching and research has been honoured by leading industrial companies with currently fourteen endowed chairs.

About 5G Lab Germany

Within the 5G Lab Germany, sixteen professors from TU Dresden collaborate in an interdisciplinary team with more than 500 scientists to advance research on the key technologies for the 5th generation of mobile communications (5G) and its applications. A key feature of 5G will be a short latency that will enable Tactile Internet applications, e.g. automated driving, robotic-aided tele-surgery, as well as new learning and trainings methods with special tactile-to-visual feedback. To achieve this goal, the researchers in the 5G Lab Germany are addressing the whole value chain: from the semiconductor chips across wireless data transmission, networking and mobile edge clouds to Tactile Internet applications.