uRLLC: Remote Controlled Excavator

What opportunities do 5G networks offer for heavy machinery? You can discuss the answer to this question with the developers, while controlling an 18 t wheeled excavator with a game controller via 5G Campus network with low latency. Control signals as well as sensor variables for real-time visualization are provided interoperably via OPC UA – an industry driven standard for every type of machine.

An interdisciplinary team within the joint research project Bauen 4.0 developed this demonstrator: fluidtronic chair, construction machinery chair, Vodafone chair.

Bauen 4.0

Fabrikstraße 48, 01159 Dresden
bauen40@mailbox.tu-dresden.de

TECHNISCHE UNIVERSITÄT DRESDEN   **5G⁺ Lab GERMANY**   **BAUEN**