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## **Swedish Microwave Days 2023 Abstract**

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### **Integrating Antenna and Wireless Connectivity Simulation to Accelerate Product Design and Testing**

From a mobile phone through a wireless switch to a smart watch. More and more devices are becoming wireless, where all of them need at least one or two antennas. The performance of an antenna changes when integrated in the real device and environment and this can have a huge impact on range, coverage and battery life. And newer technologies like 5G require new designs with multiple antennas to deliver faster speeds. But not only the antennas are very important. It is key to at the same time ensure a proper and reliable wireless end-to-end connectivity. For multiple wireless technologies the performance of the communication strongly depends on the radio channel, especially in indoor and urban scenarios. This presentation will showcase how organizations are using antenna and radio coverage simulation to design better and smarter products.

