IOTWHAT IS IT?



- Internet of Things
- Simple explanation: "The Internet of Things means taking all the things in the world and connecting them to the internet."

IOT

- 1. Sensors that collect information and then send it.
- 2. Computers that receive information and then act on it.
- 3. Things that do both.









IOT EXAMPLES



Sensors placed in:

- Autonomous and Connected Vehicles.
- AR/VR
- Smart Watches, Fitness Trackers, Wearables and "Hearables".
- Machine-to-Machine (M2M) Connected Devices.
- Drones.
- Smart Campus: Energy, Transportation, Parking, Environment.
- Healthcare: patient monitoring.
- Smart buoys (Coast, backwater).

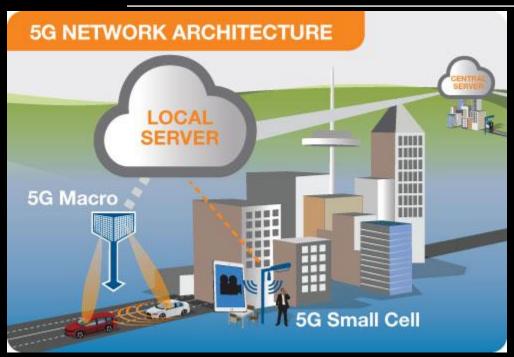
IOT RESEARCH

IoT possibilities

- If your research uses sensors, consider using an IoT-enabled sensor
- Collaboration with T-mobile
- Research driven
- Excellent coverage on the campus and in NL
- T-mobile has contract with multiple providers within the EU

5G MOBILE

INDOOR CONNECTIVITY UNIVERSITITY OF TWENTE MEANDER (I.C.U.M)



Surf contest won by the UT.

Goal

- The goal of the contest was to test indoor GSM coverage with an Distributed Antenna System (DAS)
- A multiple provider DAS has been installed in Meander, only T-mobile connected so far.
- A private 3,Ghz LTE small cell network has also been installed in Meander.

5G MOBILEPRIVATE LTE

5G TECHNOLOGY OVERVIEW 10x-100x Expecte Connect speed Lower cost ed up to 1 than Devices Gbps previous generation X10 faster than 4G 10x Battery Life for Low

- Private = Our own sim-cards
- 3,5Ghz network not commercially available yet in the Netherlands!
- Research the future.

UNIVERSITEIT TWENTE.



