

UNIQUE TEST INFRASTRUCTURE FROM LAB TO VARIOUS REAL-LIFE ENVIRONMENTS



Wireless Lab

66x20 m²: 120 wireless, 20 mobile nodes + SDR, sensors LTE + 44 nodes in datacenter



GPU Lab Al/ML experiments 140 GPU's 570.000 cuda cores 1.8TB GPU RAM 100GB/S infiniband



Cloud lab 400+ bare metal servers Flexible network topology 1-10 Gb/s



Office Lab

120 nodes 3 floors of office building



Industrial IoT

Flexible factory Environment UWB localization Drones/AGVs Conveyor belts

10 Gbps Fiber interconnects



City Lab Wireless testbed City of Antwerp





🚌 Smart Highway

30 km rollout of LTE-V and IEEE 802.11p SDR-based CloudRAN

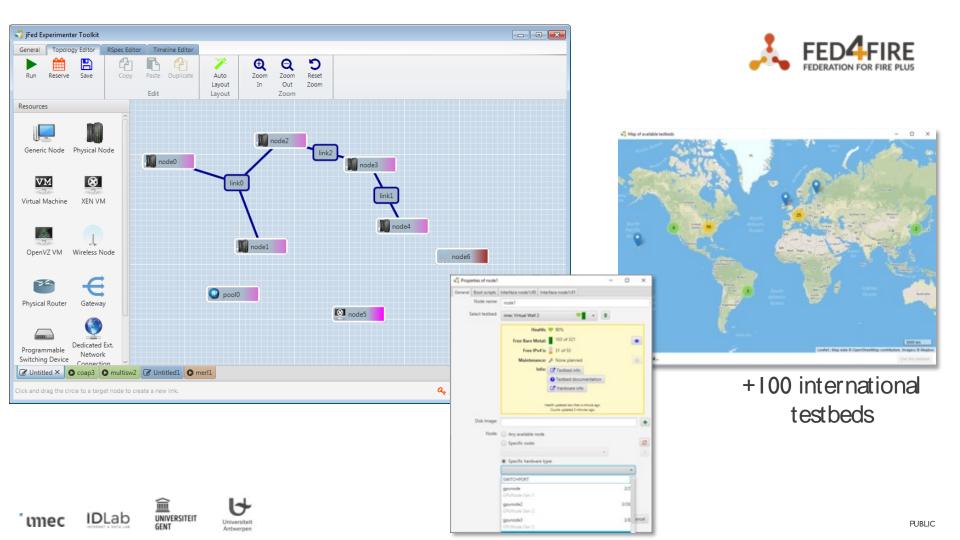


Home Lab Flexible home environment

https://doc.ilabt.imec.be

Portable 5G testbed

USRP x310 Benetel Radio Unit 4G modem Power unit Processing unit







Cloud infrastructure

Anomaly detection on sensor data

Video processing on mobile camera feed



Edge processing/filtering





WiFi

IDLab

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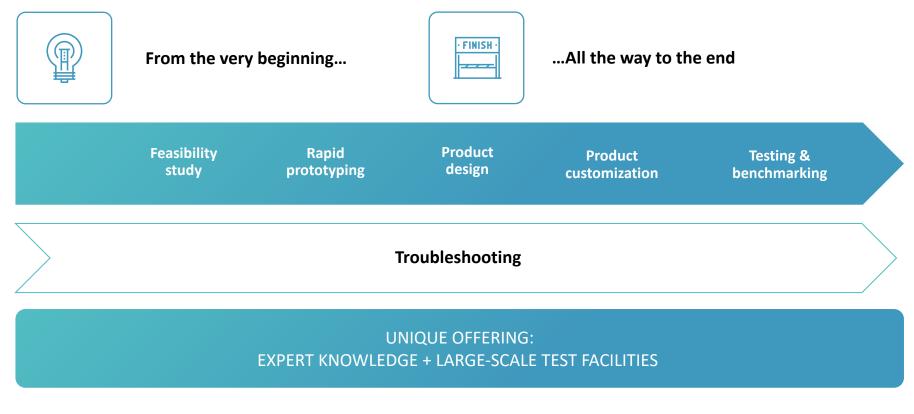
Mobility

Universiteit Antworpen



ML Algorithm @ GPULab

IMEC CAN HELP YOU









Industrie 4.0-proeftuin

Smart Connectivity







IMEC WIRELESS TESTBED