Do IoT Fieldlab
Innovation in Internet of Things

RESEARCH

TU Delft Campus research testbed

TU Delft Campus brings together research and production environments across faculties and fieldlabs. Researchers and SMEs can test in controlled conditions on networks we own and can open up, and work together to move innovations to higher Technology Readiness Levels. Do IoT Fieldlab is the 6G Fieldlab Delft within the national Future Network Services programme.

4 networks
600 MHz to 26 GHz

OpenRAN
network we can change

Own core
QoS, slicing, breakout

TRL 2 to 6
research to validation

Network specifications

Parameter	Specification
Environment	Research and production environments across TU Delft faculties and fieldlabs
Technology	Private 5G Standalone and Beyond-5G networks, OpenRAN at SAM XL, own configurable core
Licensed frequency	600 MHz (n71), 3750 MHz (n78) and 3850 MHz (n77) on campus; 3850 MHz and 26 GHz at Unmanned Valley
Radio	Outdoor low-band mast (Nokia, n71) and indoor radios at SAM XL (Benetel, n77) and Molengraaffsingel 29 (n78)
Compute	Low latency dark fibre connection to the TU Delft compute clusters
Programme	6G Fieldlab Delft in the Future Network Services programme, linked to TNO and the national 6G testbed

Typical use cases

Beyond-5G and 6G features	Ambient IoT and backscatter	Time synchronisation
NTN and satellite integration	Edge AI and offload	Resilient networks