Do IoT Fieldlab
Innovation in Internet of Things

DRONES

Unmanned Valley

Unmanned Valley is a dedicated testing environment for drones and unmanned systems. Develop and test sensors, automation and IoT devices in real airspace, with its own air traffic rules. Our outdoor (Beyond) 5G infrastructure and core can be configured to suit your application, so you test under realistic conditions instead of in a lab.

3850 MHz
outdoor (Beyond) 5G

26 GHz
mmWave for high capacity

Own core
data stays on site

Real airspace
with its own regulations

Network specifications

Parameter	Specification
Environment	Outdoor terrain and airspace at the former Valkenburg naval air base, with its own air traffic regulations
Technology	Private (Beyond) 5G, configurable per application
Licensed frequency	3850 MHz and 26 GHz (mmWave)
Radio	Outdoor 5G radios on site
Compute	Private 5G core on site; data does not leave the private network
Programme	Do IoT Fieldlab test location since 2021, together with Unmanned Valley

Typical use cases

Drone detection	Live camera streaming	Beyond-visual-line-of-sight links
Autonomous ground robots	Payload and sensor telemetry	Public safety and inspection