FACILITIES

SMLL ROADSIDE COMMUNICATIONS AND MONITORING INFRASTRUCTURE

The **SMLL Testbed infrastructure features 196 fixed monitoring and roadside communication sites across 24km of real-world public roads in London.**

This network is split across the Royal Borough of Greenwich, and Queen Elizabeth Olympic Park, enabling our customers to test their solutions, trial services and undertake research in a wide range of road environments.

Supported by a 10gbps private fibre network the infrastructure provides feeds into our dedicated on premises data centres at both the Woolwich HQ and the Plexal office on the QEOP.

These feeds are available to clients to support testing, validation activities and any other video analytics they may want to perform when testing their technologies.
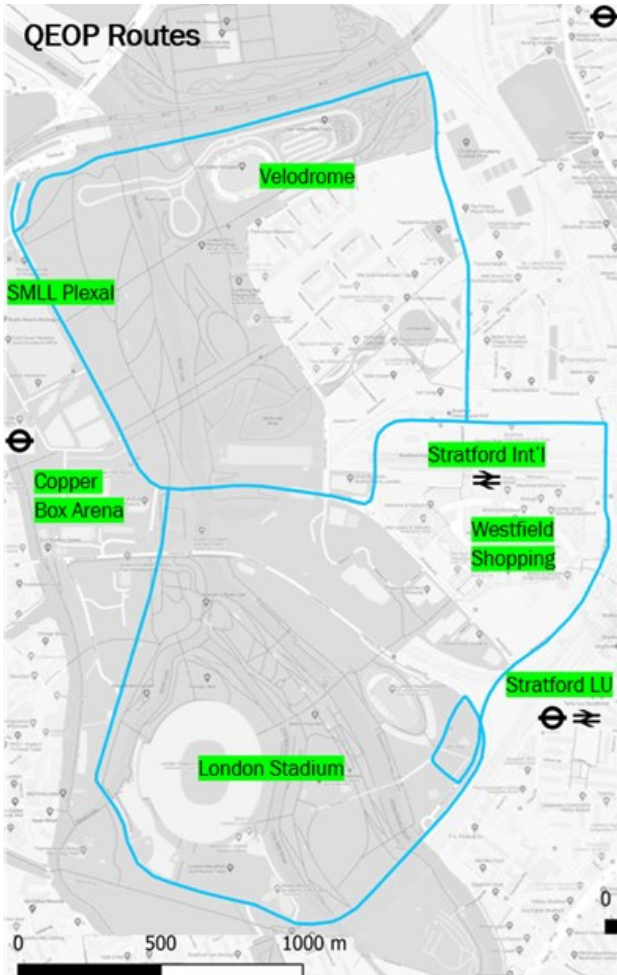
The network has the capability to integrate client provided infrastructure at the roadside and the data centre to support their development.

Road Environment

- 24km of highly instrumented urban roads in London (including roundabouts and single / multi-lane roads)

- 1000+ unique and characterised road features, each presenting a different challenge given their local setting (and categorised accordingly to enable targeted research)

- Variety of urban, residential, commercial, industrial, and retail environments

- Presence of bridges, underpasses, overpasses and denied GNSS locations

- Major trip generators on the route (shopping centres, major public transport interchanges, 60,000+ seater stadium, numerous sports and events arenas)

- Areas that present pragmatic challenges for data transmission / connectivity (e.g. tree lined streets, bridges, high-sided buildings, wifi enabled buses)

FACILITIES

SMLL ROADSIDE COMMUNICATIONS AND MONITORING INFRASTRUCTURE
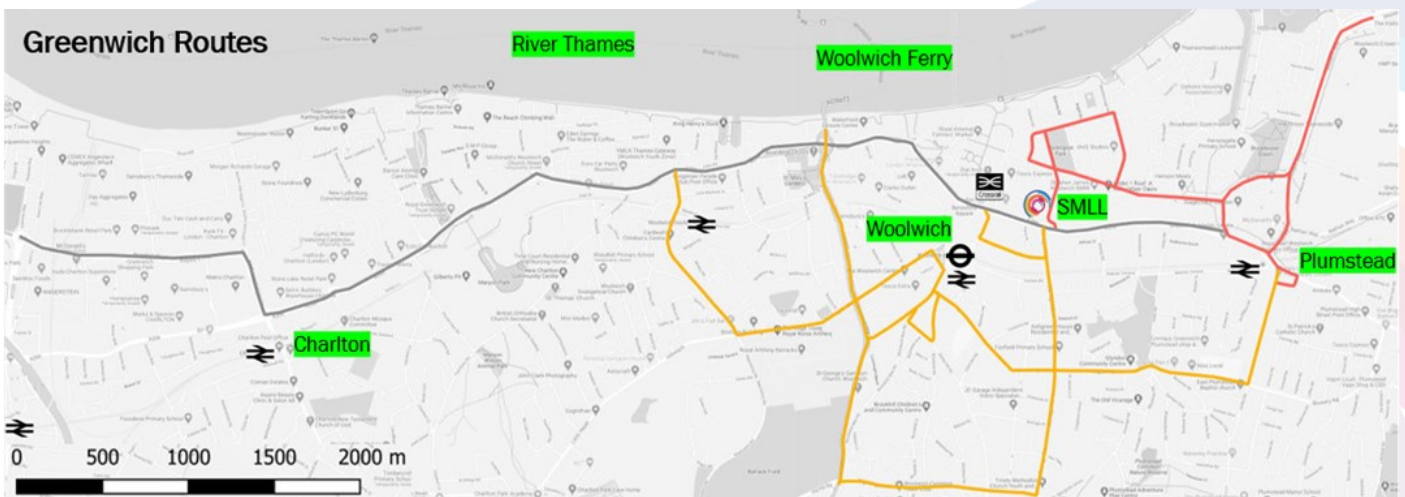

QEOP Routes

Roadside Monitoring Equipment

- 276 CCTV (infrared enabled to support day/night testing)
- 35 V2X Cohda DSCRC roadside units
- 10 pop-up monitoring sites (flexibly deployed monitoring infrastructure)
- 36 connected traffic lights
- 196 Wireless Access Points
- Environmental monitoring
- Ability to incorporate additional equipment onto the infrastructure
- Scalable roadside infrastructure

Connectivity

- WLAN (ETSI G5, IEEE 802.11p, 802.11ac)
- High speed 10gbps private fibre backhaul
- LoRaWAN
- LTE
- 4G backhaul
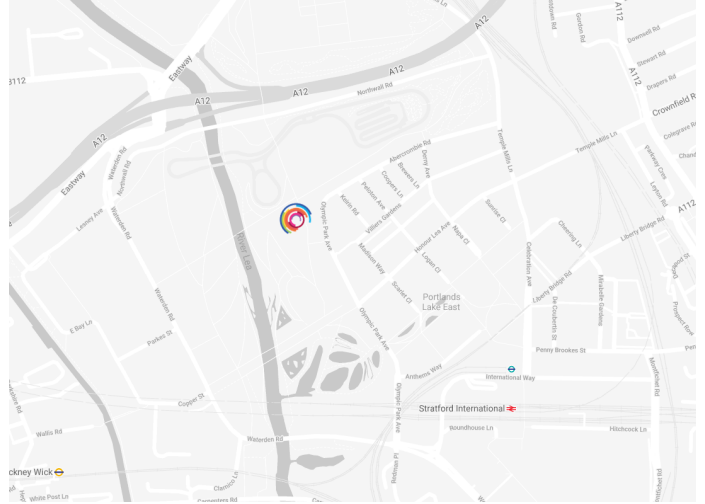- 5G-ready
- Support for IoT devices

Greenwich Routes

FACILITIES

SMLL ROADSIDE COMMUNICATIONS AND MONITORING INFRASTRUCTURE

Woolwich

Plexal

Address

Smart Mobility Living Lab
Unit 7, 14 Victory Parade
Plumstead Road
Woolwich
London
SE18 6FL

Google Maps Link

Getting Here

- Parking: The nearest public car park is Cannon Square Car Park located within the same development as the SMLL Office

- Tube: DLR Woolwich Arsenal

- Train: NR Woolwich Arsenal

- Airport: London City Airport

Address

Smart Mobility Living Lab
Queen Elizabeth Olympic Park,
Plexal,
Here East,
London
E20 3BS

Google Maps Link

Getting Here

- Parking: The nearest public car park is Here East car park located over the road from Plexal

- Tube: Stratford Jubilee Line

- Train: Hackney Wick London Overground

- Airport: London City Airport