

# Roadside Communications & Monitoring Infrastructure

The TRL Living Lab 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 centre in Woolwich.

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)

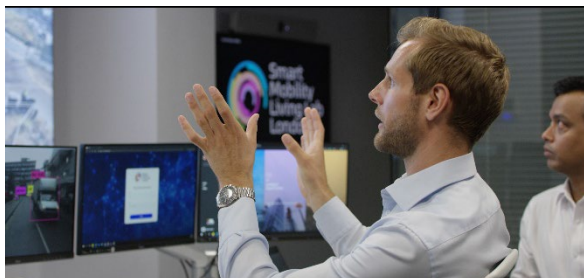
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## The Control Room

The control room allow the effective monitoring and coordination and centralised control of any testing taking place on the roads which make up the Living Lab testbed.

It provides access to all video feeds, GPS tracking of vehicles on the testbed and uses TRL's iMAAP software to assist with trial and incident management.

All feeds are displayed on a set of screens customised to the type of trial being conducted.



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## Where to find us

### Address

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 Living Lab.

**Tube:** DLR Woolwich Arsenal

**Train:** NR Woolwich Arsenal

**Airport:** London City Airport



Click here to take a quick video tour of what's available at the Living Lab and how it is used.