



### CASE STUDY 2: METRO

Project: Connect  
Project value: £7.2 million  
Client: London Underground Ltd.  
Main Contractor: Thales Security, Solutions & Services Ltd.  
Dates: June 2006 – ongoing

#### Background:

London Underground has invested in new communications to help improve safety and reliability, as well as provide better voice, data and image communications. It will also allow London Underground to enable use of mobile phones in even the deepest underground stations and tunnels.

Thanks to our growing reputation for technical competence and proven delivery in the telecoms sector, Kelly I.T.S. secured a contract to work with Thales Security, Solutions and Services Ltd to install the new communications infrastructure.

#### Scope of work:

The main elements of the project are a new, integrated terrestrial radio, transmission and Closed Circuit Television (CCTV) system to replace the existing legacy systems. These new services will enable train drivers to make emergency calls from their cabins, instead of having to use line-side telephones. They will also facilitate data communication between stations, allowing them to inform passengers instantly if there are any service problems.

##### Telecom services:

- Fibre cable installation
- Coax radio feeder cable installation
- Copper voice and data cable installation
- Joint, terminate and test fibre, copper and coax cables
- Install CMS in Tunnels, CERs and SERs
- Install radio antennae
- Install CCTV circuits, cameras and monitors
- Install and build equipment racks in SERs and CERs
- Install signal data management control equipment
- Test and commission (SDH and PDH)
- Cut over redundant equipment, decommission and recover

##### Electrical services

- LV power
- Test and commissioning
- Install power control and monitoring equipment
- Conduct periodic inspections
- Provide certification of new installations
- Install tray work and trunking for new electrical installations
- Install electrical upgrades as per client design
- Cut over redundant equipment, decommission and recover