



Connected London

August 2021



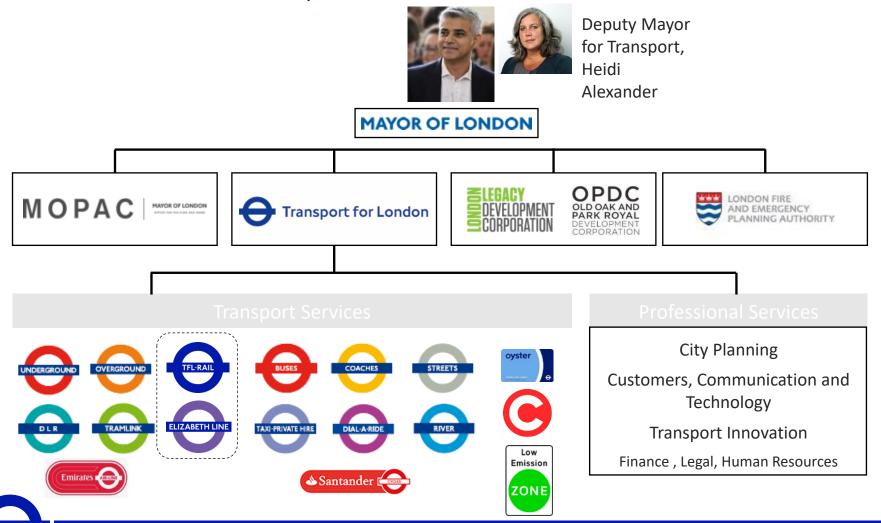
bai communications

CONFIDENCIAL AND PROPRIETARY



Governance - The Mayor, through Transport for London, is responsible

for most of London's transport



TfL – Our Scale

9,330 目目 Buses on the TfL network

自自自自自自 6,365 Traffic signals operated

by TfL

On an average day in London, there are more than million journeys

Trains on the TfL network $\mathbb{A} \mathbb{A} \mathbb{A} \mathbb{A} \mathbb{A} \mathbb{A}$

580km TfL-operated / highways

720km TfL-operated Rail and London Underground routes

*pre pandemic



Two key factors for Getting Mobile Delivered on the Tube

Commercial

- We understood that any partner investing needed a return on their investment and so we modelled their business case rather than our own
- We extended the scope to include all assets, this also maximises the connectivity improvements
- We ensured fair access for all
- We contracted for the long term with a partner with similar ambition
- Solution had to be at no cost to TfL

Technical

The focus was on reducing risk:

- The successful pilot delivered connectivity on the Jubilee line and reduced technical risk
- Time pressure was reduced by enabling works with nearly 400 km of leaky feeder and 65 stations cabled up already
- Partnership with the Home Office

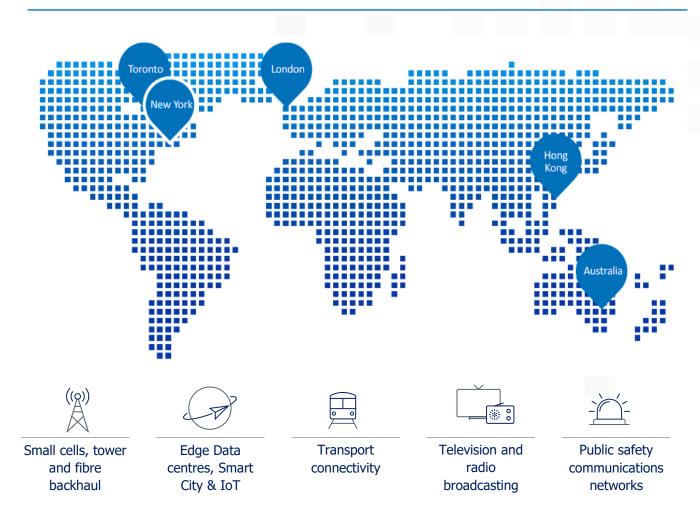


BAI Communications | Who are we

Key figures

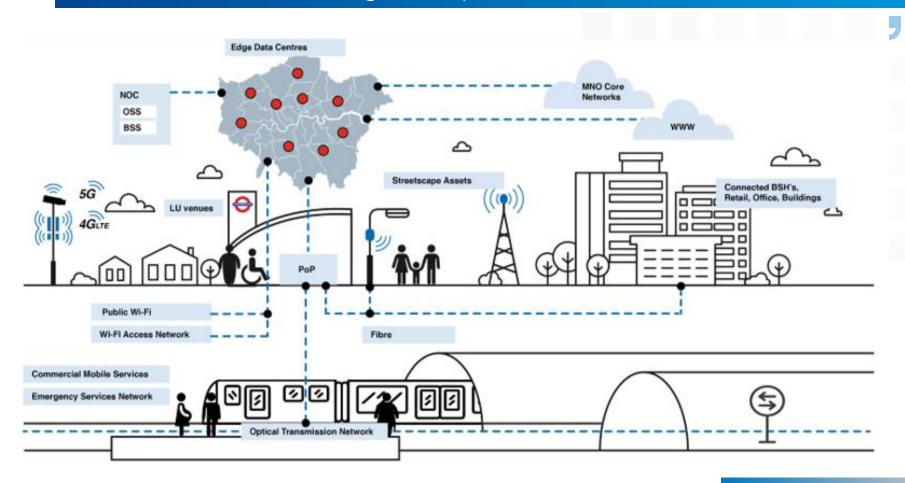
- +100 years operating in communications
- Majority owned by CPP Investments since 2009
- Global reputation of engineering excellence
- Tier 1 partnerships, vendors and supply chain
- 4bn passengers' connections each year
- Communications networks in 400+ subway stations and tunnels
- We operate on a wholesale model basis

Our footprint and portfolio of activities



BAI Communications | London's Digital Footprint

£1Bn+ of new infrastructure capable of accelerating and optimising the digital footprint in London



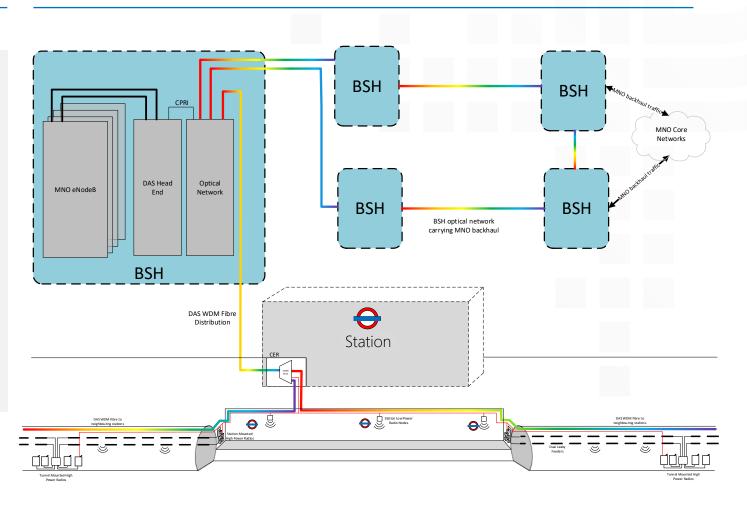
BAI Communications | Technology on a Page

Key aspects

Digital DAS system

- All technologies supported
- MNO equipment housed in edge Data Centres / Base Station Hotels off TfL premises
- Coverage provided in tunnels via radiating cable / 'leaky feeder' solution

Topology



BAI Communications | Connected London



- Neutral Host services throughout 136 stations, platforms and 200km tunnels
- Emergency Services Network rollout



TfL Public Wi-Fi

 Take on existing London Underground Wi-Fi service delivering Wi-Fi access to all stations, platforms and ticket halls



+200km dense underground fibre

 +200kms of dense fibre running through the London Underground



80k Small Cell locations

- 80k premiumTfL assets incl. LU stations, lampposts, CCTV poles, traffic signals and bus shelters
- Prime ducting routes



12 Edge Data Centres

- Base Station Hotels in 9 locations across the city
- Cross connections into 3 Major London Data Centres



24x7x365 NOC

- Fully managed 24x7x365 to support the mission critical nature of the network
- Service management and insights

Outcomes

- Resilient fixed and mobile coverage solutions, giving customers a great network experience
- A new alternative fibre backbone in London providing connectivity and a smarter city

