

Network Rail's Trackside Connect Services

Enabling superfast connectivity along
the Rail corridor





The unknown national telecommunications provider

- 180 years of experience providing telecommunications services to the railway
- The third largest telecoms operator in the UK by assets and reach
- A public sector-owned network with government investment

Trackside Connect Services:

A superfast network to meet tomorrow's needs

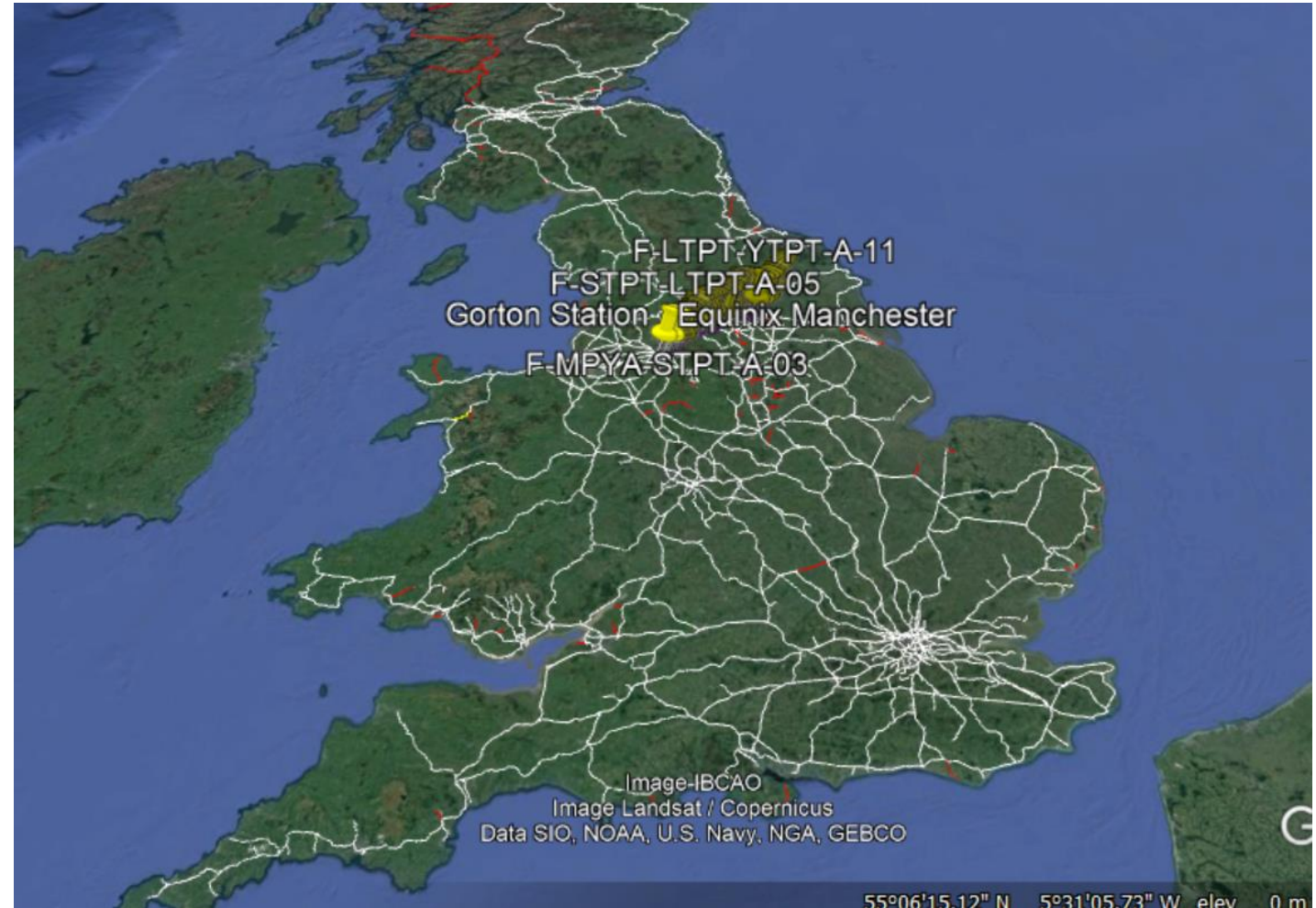
What is Network Rail National Fibre Network

19,000km National Network across
England, Scotland and Wales

Predominately 24 core fibre
deployment with 48/96 & 432

Services to most cities & towns that
have a train station

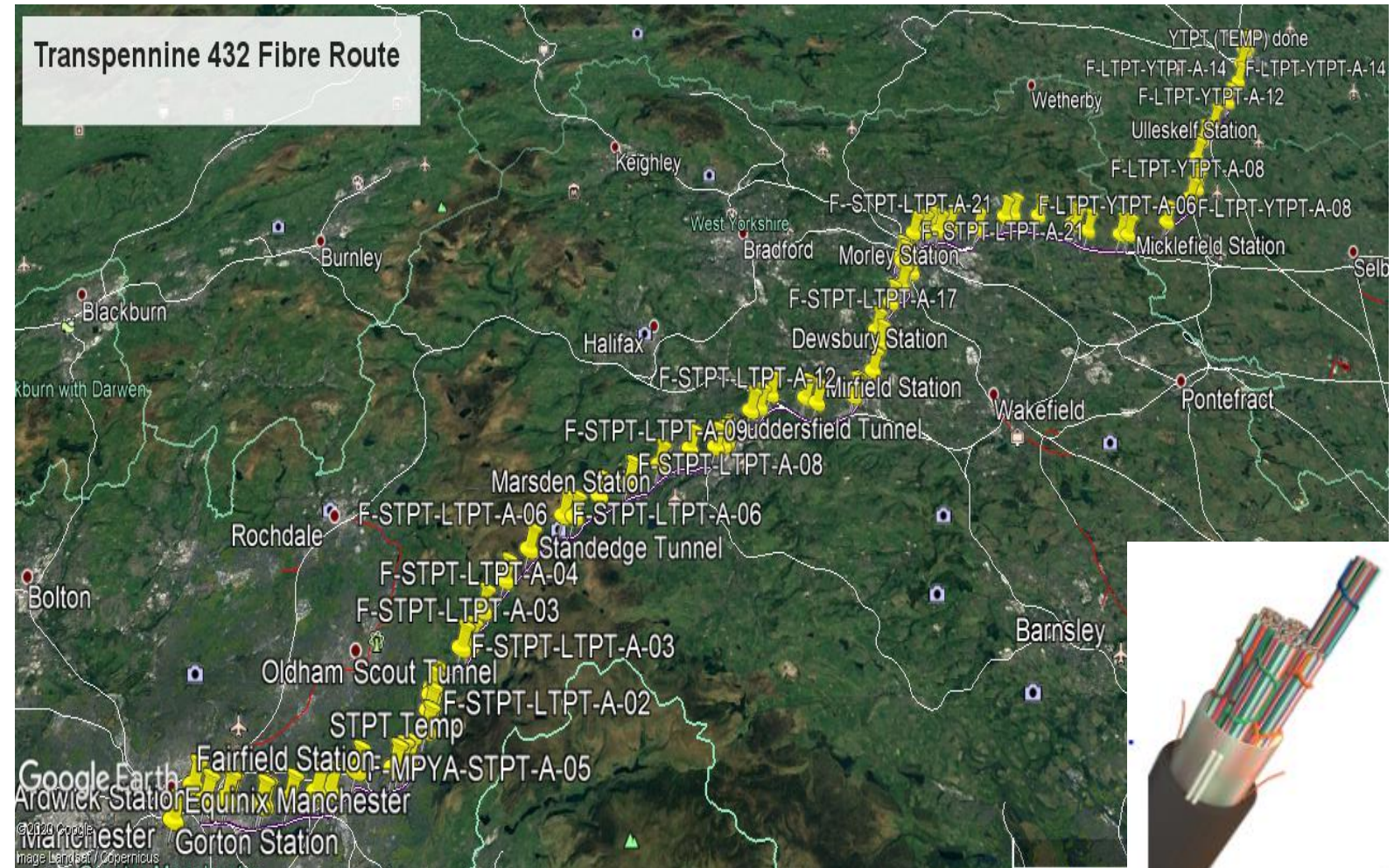
Future plans to upgrade and expand
capacity to support internal/external
requirements



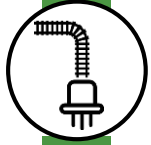
Trackside Connect Services: TransPennine Initiative

TransPennine Initiative (TPI)

- DCMS funded project
- 116 km of 432 250 μm Wrapping Tube Cable with SpiderWeb Ribbon® fibre
- Connecting Manchester to Leeds & York plus multiple towns in between
- Interconnects to DC at Manchester IX & Leeds aql
- Delivered with the rail corridor for diversity and security

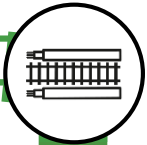


The Trackside Connect Services



The Dark Fibre service

- Single or multiple fibres available
- Unconstrained bandwidth for maximum speed and reduced traffic congestion
- Unrestricted capacity
- Long term IRU and lease contracts available



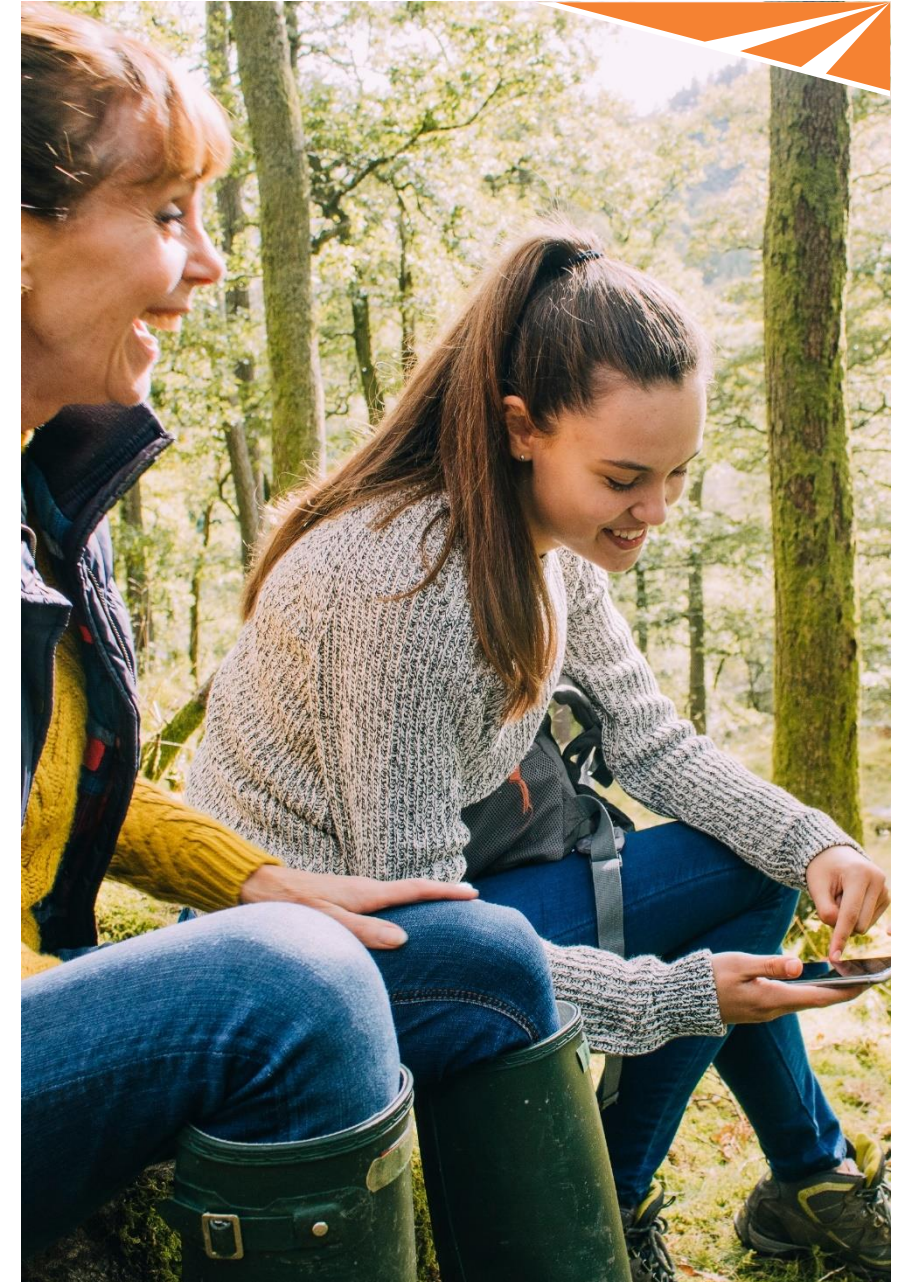
DC to DC Wavelength service

- Lit Wavelength options including 1Gb, 10Gb and 100Gb
- No fibre tax requirements
- Short, medium and long-term contracts



DC to end point Wavelength service

- Lit Wavelength options including 1Gb, 10Gb and 100Gb
- Breakout at 26 TransPennine stations in phase 1
- Onward Lit services
- Short, medium and long-term contracts



Trackside Connect Services: Why Network Rail

What we deliver

Digitally connecting communities

Deliver services that are under supported/not commercially viable

Diverse routed option

Help drive the Gigabit Connectivity agenda

How/Why we deliver

Utilise the rail corridor to deliver fibre connectivity across the Northern Region

Infrastructure is in place

Robust and diverse connections with ultra-low latency

Interconnecting into two key Northern data centres

Asset and infrastructure reuse programme

Increased partnerships with national and local providers

Open For Business



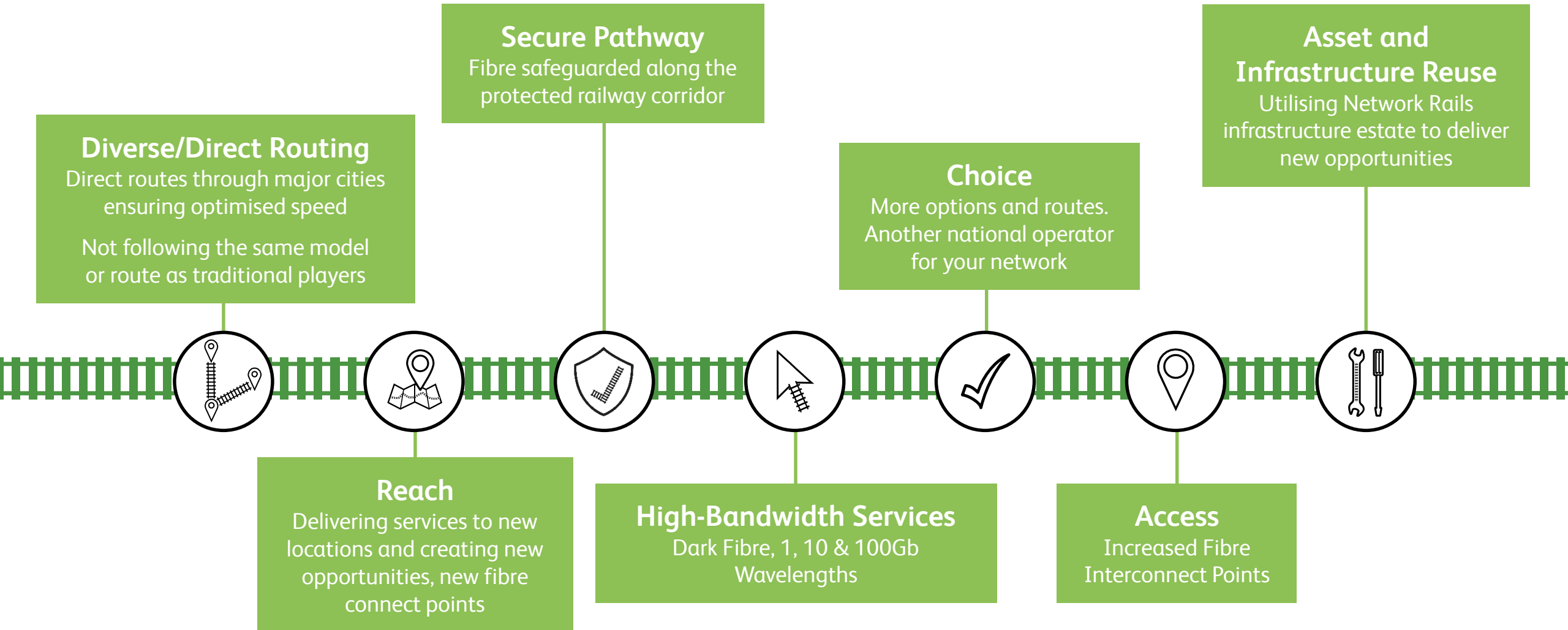
Asset and infrastructure reuse opportunities

In addition to Trackside Connect Services, Network Rail offers an asset and infrastructure reuse programme for customers along the TransPennine corridor.

- Support delivery of microwave and 4/5G services
- Reduced capital costs
- No external wayleaves
- Simplified planning permission
- Ability to connect to Network Rail fibre backbone
- Accelerated deployments
- New opportunities



How Trackside Connect Services are different



Why Network Rail for connectivity?

Working together to understand your...

Delivers...



Questions

