

Crossrail / Elizabeth Line – An Update

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Railfuture Autumn 2018 Conference

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Novotel Reading

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The Elizabeth line



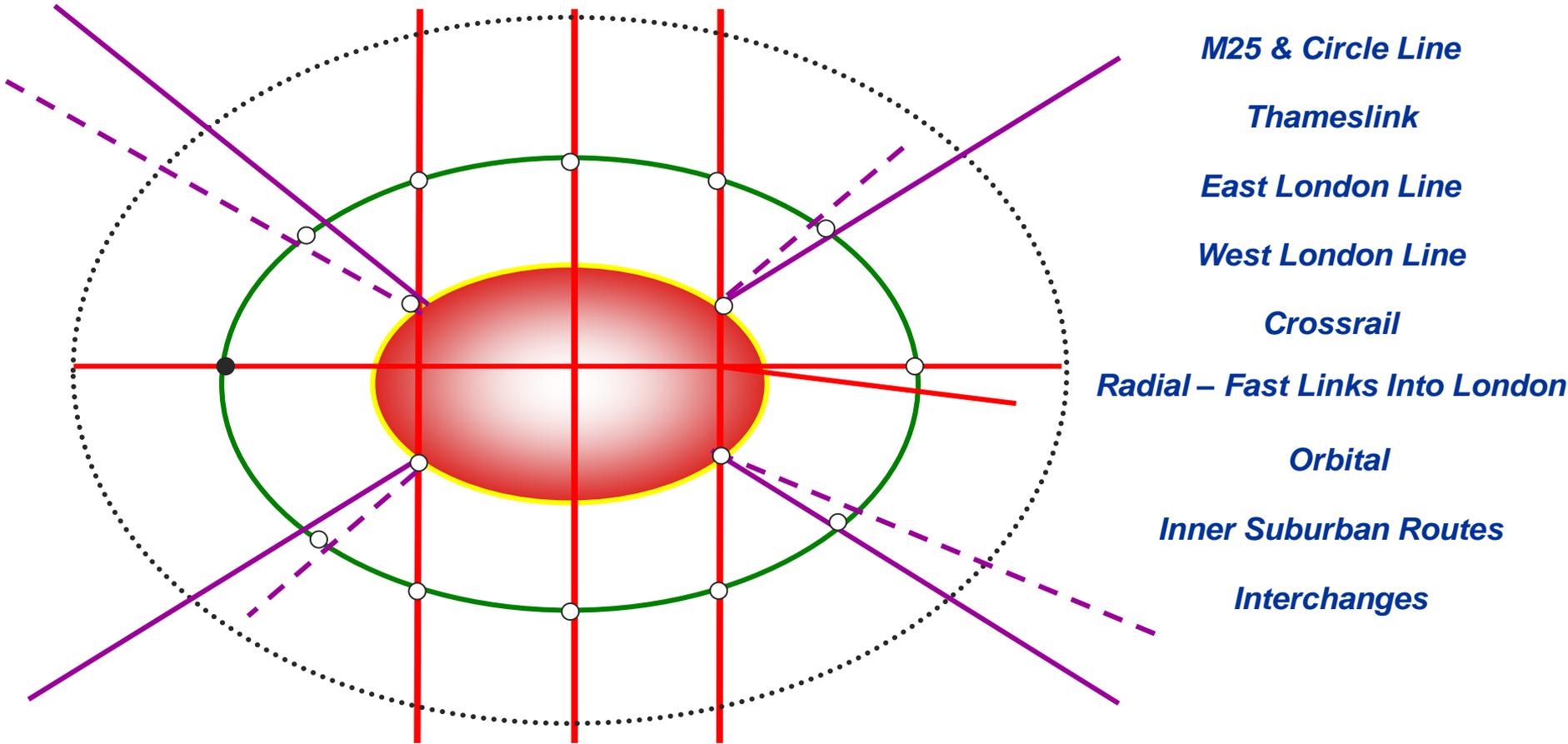
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A different type of railway...

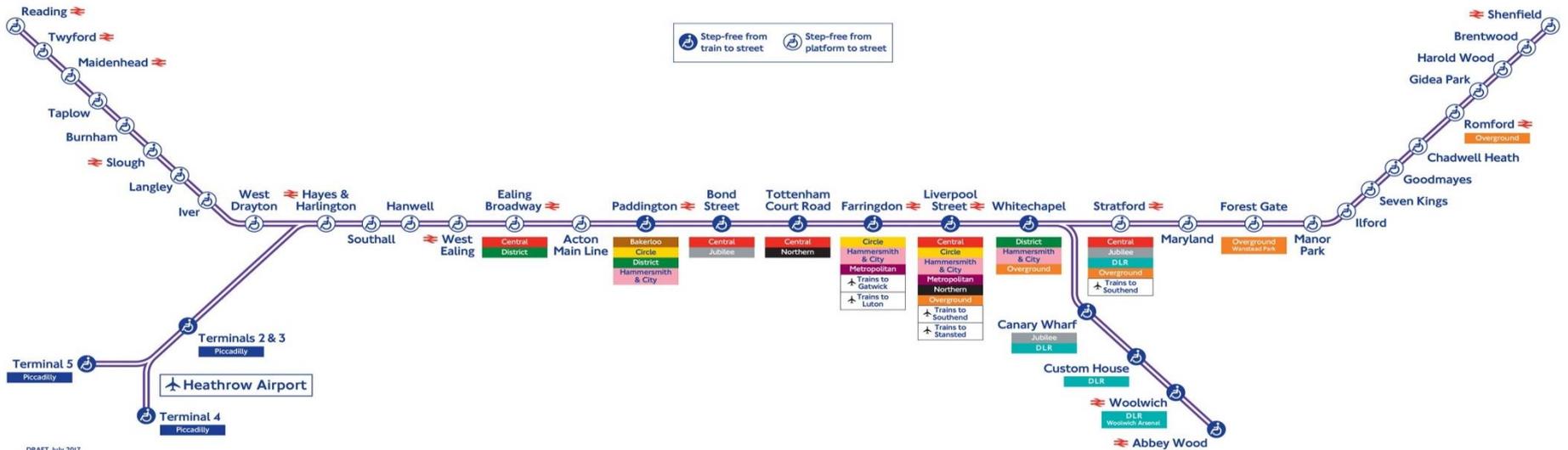


...and so is the Elizabeth Line

An idea that has come to fruition



The Elizabeth line



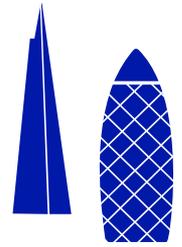
DRAFT July 2017



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When open, the Elizabeth line will...

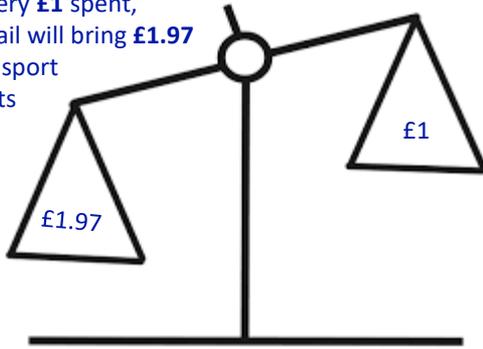
- Support regeneration and boost the UK economy by £42bn
- Increase rail capacity in central London by 10%
- Transform rail travel and cut journey times across the city
- Reduce congestion on the Tube network
- Bring an extra 1.5 million people within 45 minutes of key employment districts
- Support thousands of new jobs and homes in London and the South East
- Serve an estimated 200 million annual passengers



Crossrail Business Opportunities & Property

Impacts

For every **£1** spent, Crossrail will bring **£1.97** of transport benefits



Over 60% of planning application cite Crossrail as justification for planning to proceed within 1km of a station



3 in 5



... businesses in Crossrail's supply chain are SMEs.

c. £5.5bn additional residential & commercial property value



Estimated **55,000** jobs being supported by Crossrail across the UK

Supports **57,000** new homes



Improved journey times

Romford to Bond Street:
Current: 44 minutes
Elizabeth line: 34 minutes

Canary Wharf to Paddington:
Current: 33 minutes
Elizabeth line: 17 minutes

Canary Wharf to Heathrow:
Current: 55 minutes
Elizabeth line: 39 minutes



Custom House to Liverpool Street:
Current: 24 minutes
Elizabeth line: 10 minutes

Bond Street to Heathrow
Current: 38 minutes
Elizabeth line: 27 minutes

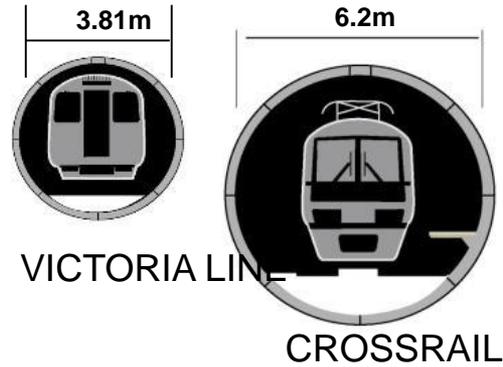
Maidenhead to Bond Street
Current: 59 minutes
Elizabeth line: 39 minutes



Crossrail Ltd announcement

- Crossrail Ltd recently announced that more time is needed to complete the works and, as a result, the central tunnelled section of the Elizabeth line (between Paddington and Abbey Wood) will now open in Autumn 2019
- The revised schedule is required to complete the final infrastructure and extensive testing required to ensure a safe and reliable railway for our customers from day one
- The focus remains on opening the full Elizabeth line, from Reading and Heathrow in the west to Shenfield and Abbey Wood in the east, as soon as possible after the central tunnels open

Crossrail Construction



- 8 tunnel boring machines
- 4.5million tonnes of excavated material shipped to Essex to create a 1,500 acre RSPB nature reserve
- 250,000 concrete segments to line the tunnel wall
- 10,000 people working across 40 construction sites
- 400,000 tonnes of steel



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Start of TfL Rail services in the East

In May 2015, TfL Rail services were introduced between Liverpool Street and Shenfield.

- **All stations staffed from first to last train**
 - Passengers needing assistance can travel without advance notice, ‘turn up and go’
 - Someone always on hand to provide information
- **Safety & security**
 - Secure station accreditation
 - Regular patrolling including 24 hours at weekends
- **Customer experience**
 - Cleaned and maintained stations and trains
 - Station lifts remain in service throughout the day
 - Reduced ticketless travel

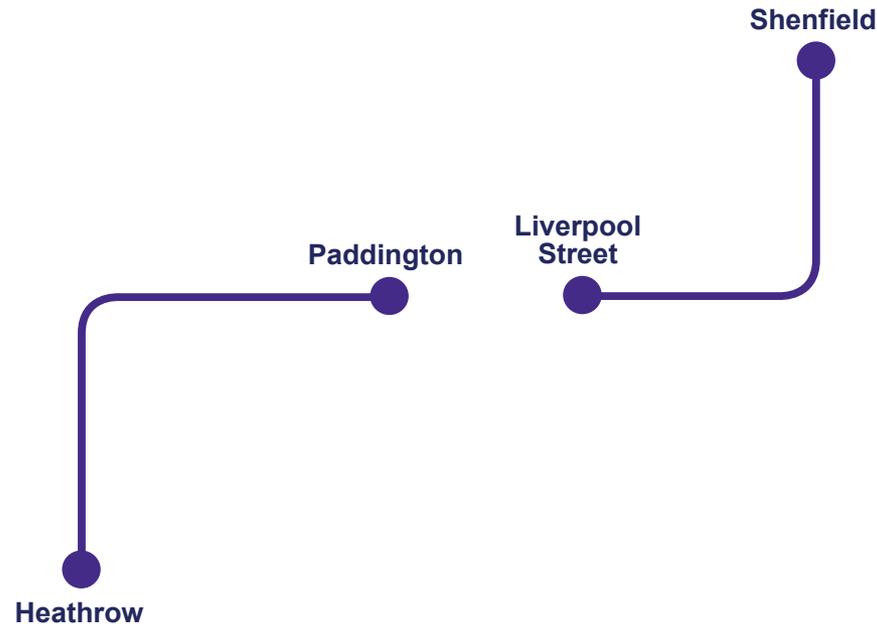


New trains in the East June 2017



Start of TfL Rail services in the West

In May this year, TfL Rail services were introduced between Paddington and Heathrow Terminals 2/3 and 4, replacing the existing Heathrow Connect service and part of the Great Western inner suburban service



TfL Rail services are operated by MTR Crossrail



New trains in the West May 2018





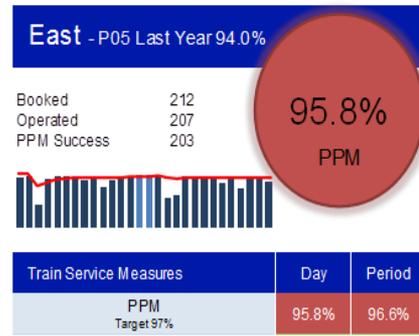
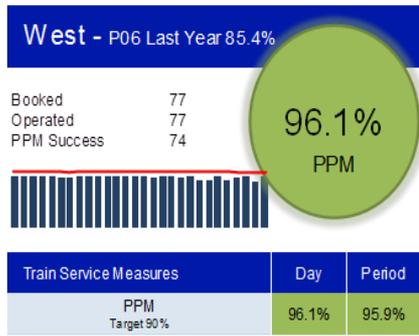
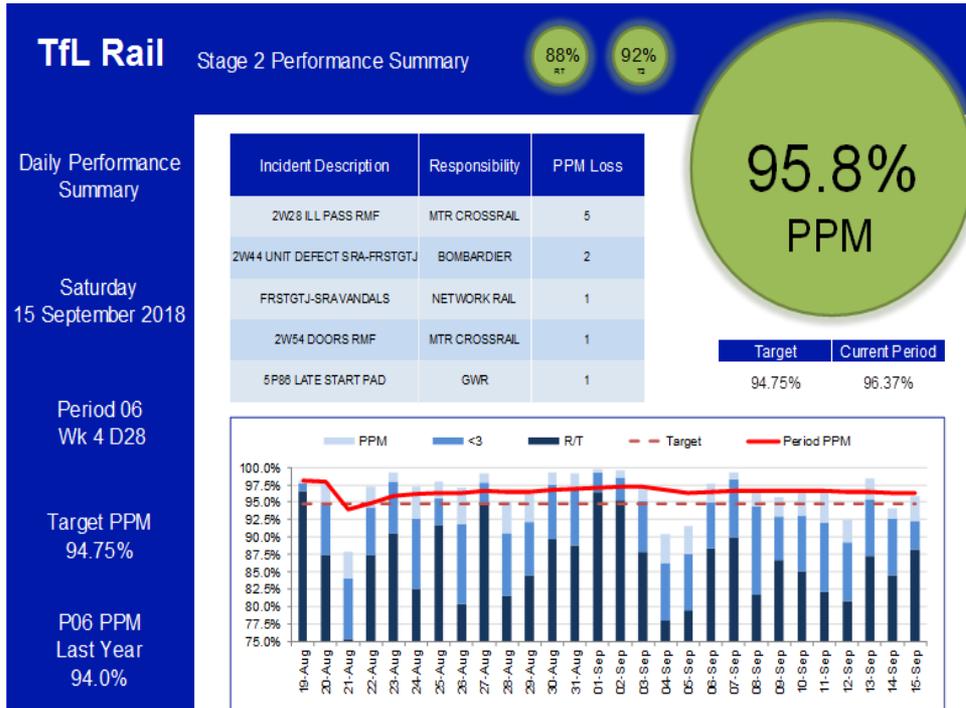
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Heathrow - May 2018



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Performance – On Network



Old Oak Common





ELIZABETH LINE

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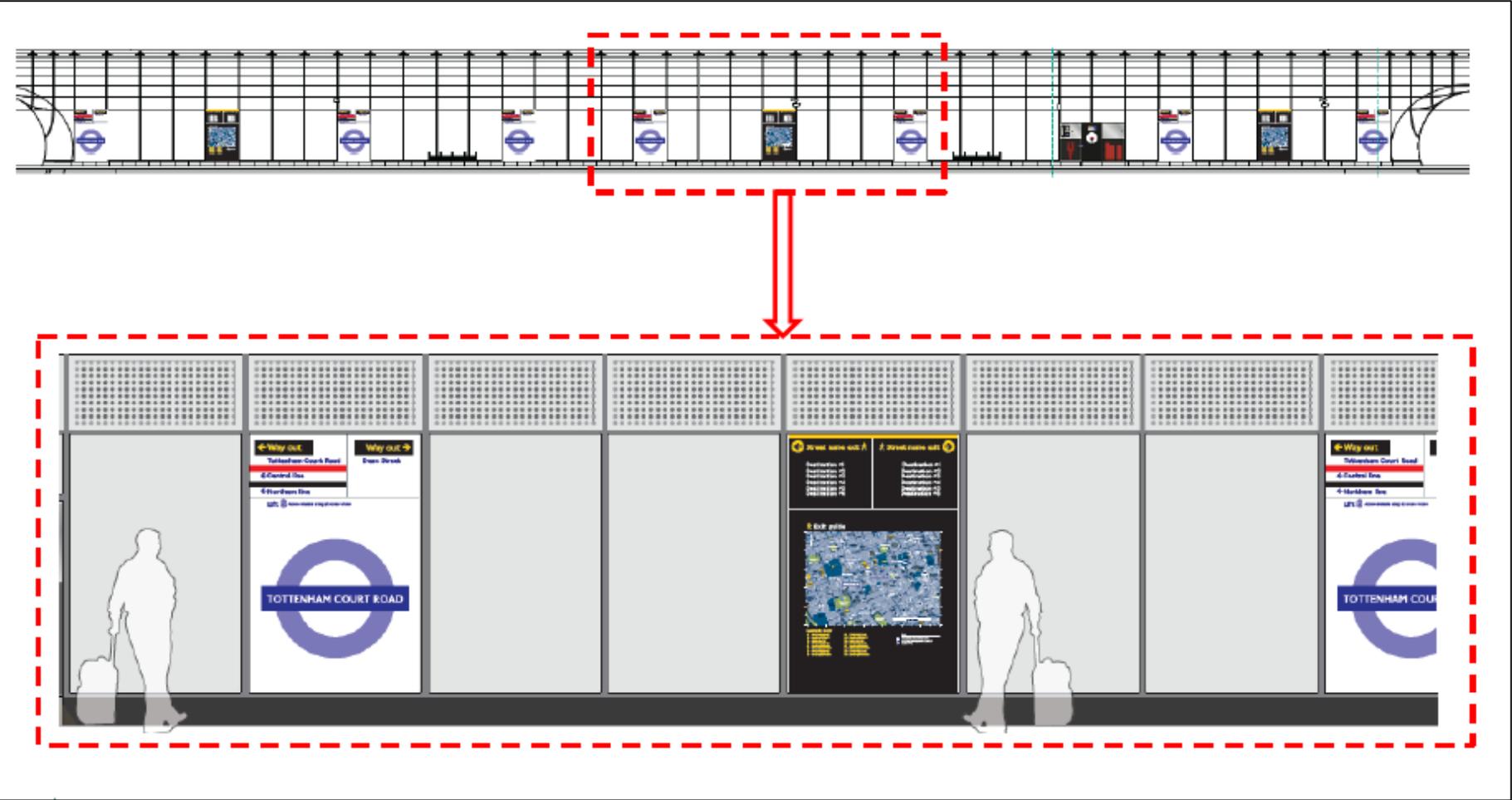






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Wayfinding





↑ Way out
Farringdon

Lift →

↑ Way out
Farringdon

Way out →
Farringdon

Dynamic Testing





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Romford RCC





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Crossrail Skills Strategy & Development

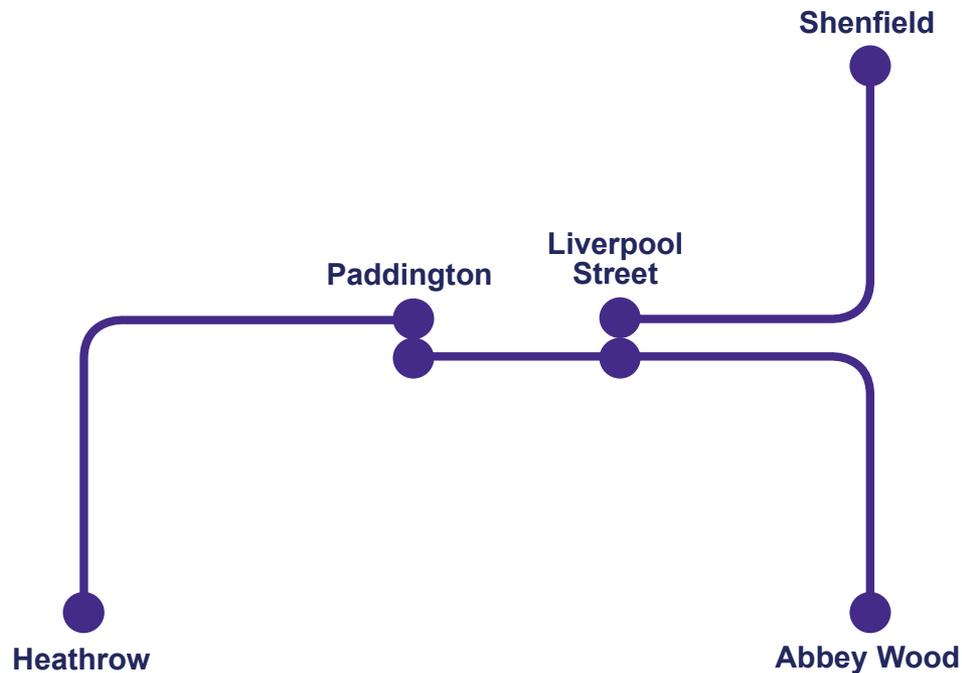
- Maintaining safety
- Inspiring future talent
 - More than 1,000 apprentice placements
 - ¼ of which were female apprentices
- Supporting local labour
 - In excess of 4,500 jobs for local people
- Revitalising the skills base
 - Over 15,000 enrolled at the Tunnelling & Underground Construction Academy (TUCA), Ilford



Autumn 2019 - Elizabeth line opens

When the Elizabeth line opens in autumn 2019, it will initially operate as three separate services:

- Paddington (Elizabeth line station) to Abbey Wood
- Paddington (mainline station) to Heathrow Terminals 2/3 and 4
- Liverpool Street (mainline station) to Shenfield

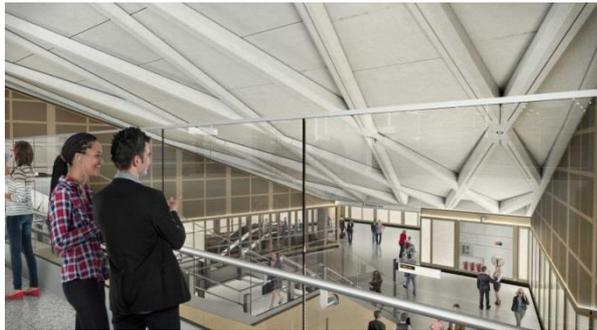


Improved connectivity

Farringdon

Farringdon will provide an interchange to key destinations across London and the South East.

- The Elizabeth line – new station (with a ticket hall at the existing station)
- London Underground – Circle, Hammersmith & City and Metropolitan lines
- Thameslink services – to the north and the south east
- Linking Gatwick, Luton and Heathrow airports





ELIZABETH LINE