Rail and Underground Panel



Date: 12 February 2015

Item 9: Crossrail – Moving to the Operating Railway

This paper will be considered in public

1 Purpose

- 1.1 The accompanying presentation provides an overview of the transition of Crossrail into an operating railway.
- 1.2 The presentation covers the following areas:
 - (a) the Crossrail project highlighting the phases of the project and the progress made to date;
 - (b) forthcoming stages;
 - (c) the Crossrail Train Operating Concession;
 - (d) the takeover of services in May 2015 and the planned improvements to be undertaken:
 - (e) the rolling stock interim and the introduction of new rolling stock in 2017;
 - (f) the services to be introduced under stages 2 and 3;
 - (g) the handover from a project to an operational railway highlighting the deliverables, scope and responsibilities pre and post transfer; and
 - (h) the services to be operated under stages 4 and 5, including the service frequencies once stage 5 is fully operational in December 2019.

2 Recommendation

2.1 The Panel is asked to note this paper and presentation

List of Background Papers:

None

List of appendices to this report:

Appendix 1 – Crossrail presentation

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- Crossrail Moving to the Operating Railway Rail and Underground Panel 12 February 2015
 - **◆ Howard Smith, Operations Director** Crossrail

Areas To Cover



- Crossrail the Project
 - Progress
 - Next Steps
- The Operating Railway
 - Objectives
 - Staged Opening 2015-19
 - Handover

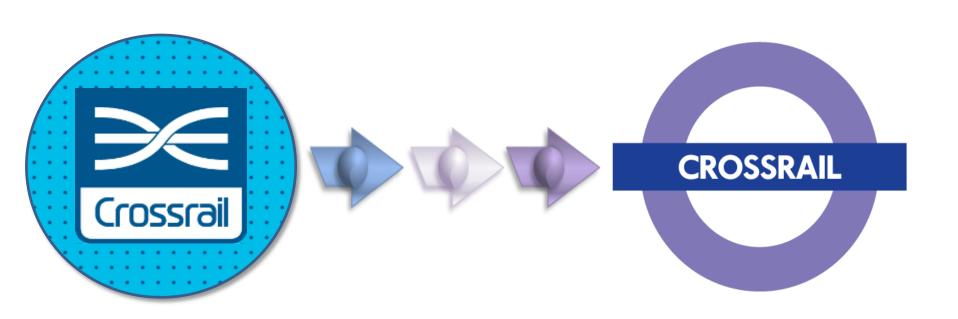






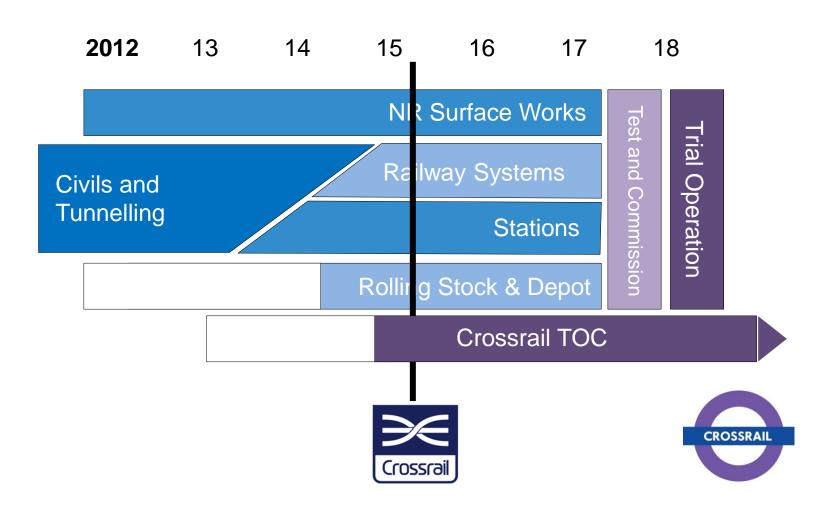


The Crossrail journey



Project Phasing





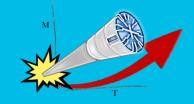






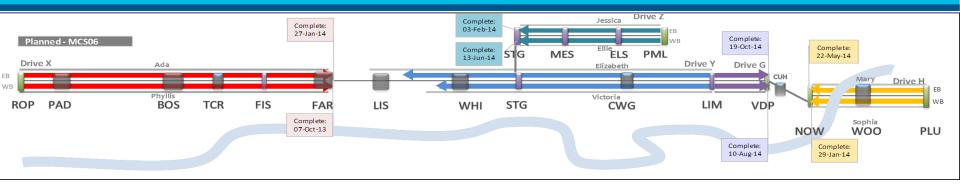


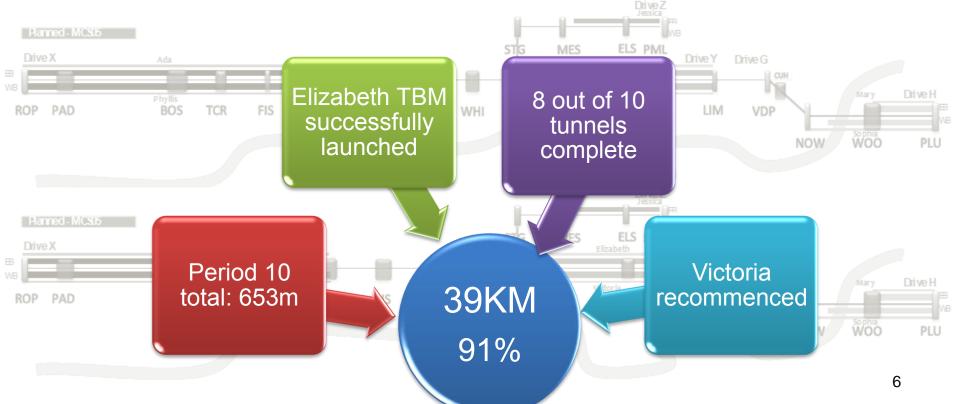




2015 Progress

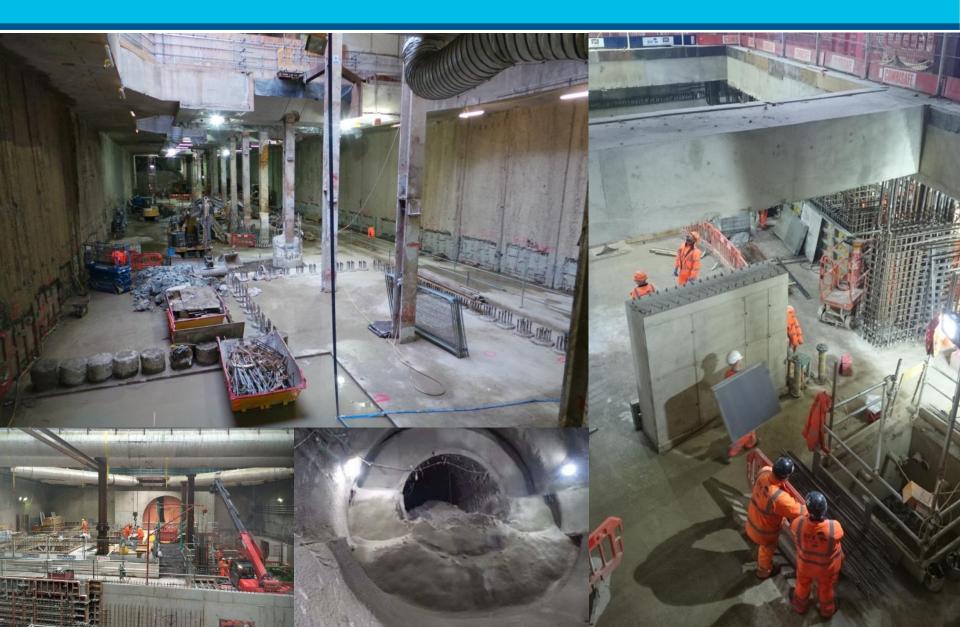






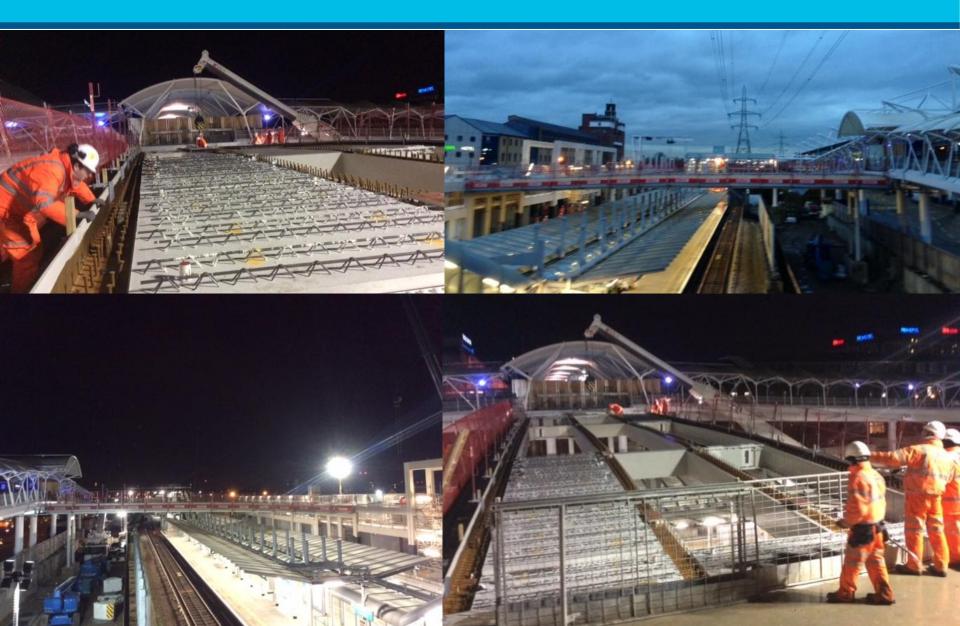
Current Delivery - West





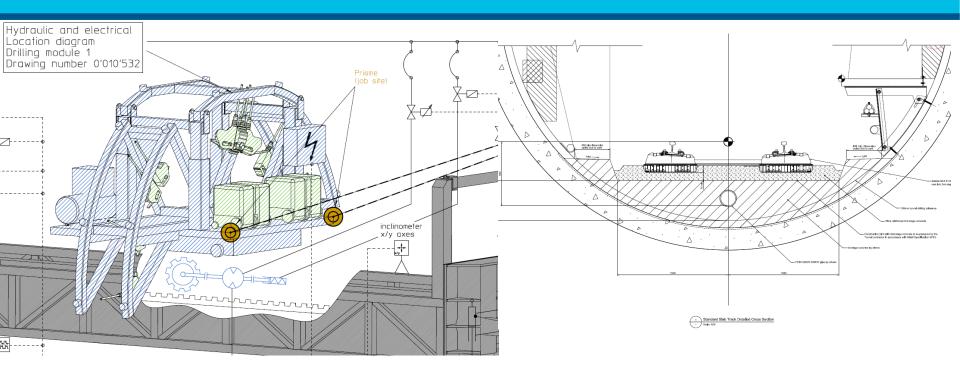
Current Delivery - East



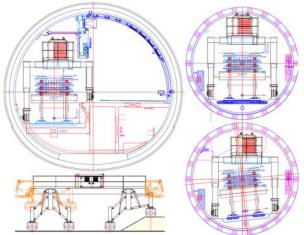


Next Steps - Systems





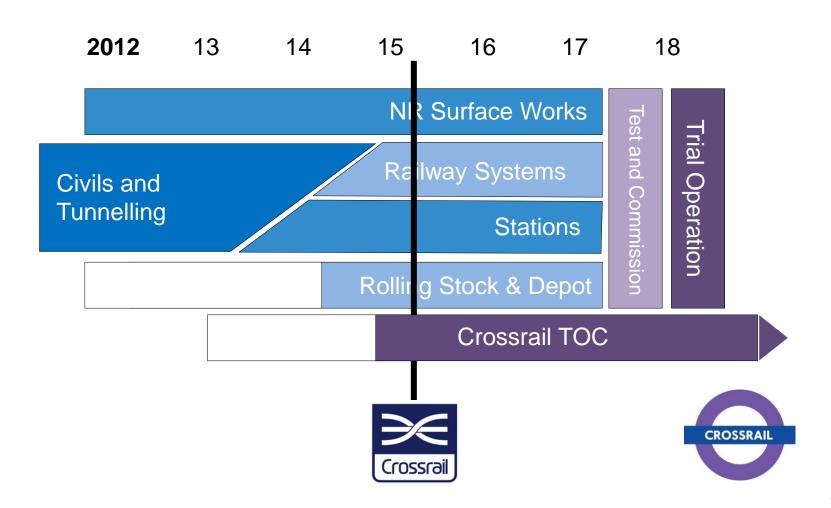






Project Phasing





Crossrail Train Operating Company



- Won by MTR, who run railways in Hong Kong, Melbourne, Stockholm and are 50% of LOROL (London Overground)
- Starts operations 31 May 2015 taking over existing Shenfield-Liverpool Street services
- Based upon highly successful London Overground structure
 - Paid by performance, no revenue risk transfer
 - Partnership between the Operator and TfL





Timing of Concession



- Establish the operating business
- Early interface with Crossrail Project
- Prepare and implement their Staged Opening Plan
- Start recruiting new drivers and station staff
- Engage in new Rolling Stock design and delivery
- Support on network and stations works

May 2015



- Take over 'metro' services Liverpool Street - Shenfield
- 12 stations Stratford to Brentwood
- Existing timetable
- Stations and trains branded TfL Rail



Immediate Improvements 2015-16



- All stations staffed first to last
- Stations
 - Deep cleaned
 - New ticket machines 2015-16
 - Secure Stations accredited
 - New gatelines by December 2016
 - Cleaned twice daily and maintained to improve standards
- Turn up and go for all
- Better security
- Trains
 - Deep cleaned and refreshed (seating, signage, panels)
 - Turn round cleans and exterior washing

























Immediate Improvements 2015-16



- Included on TfL's maps and journey planner
- TfL fares and ticketing including 'Contactless'
- Pre and post journey customer contact via TfL's Customer Contact Centre
- TfL Twitter and other media for information and service updates



Interim Rolling Stock

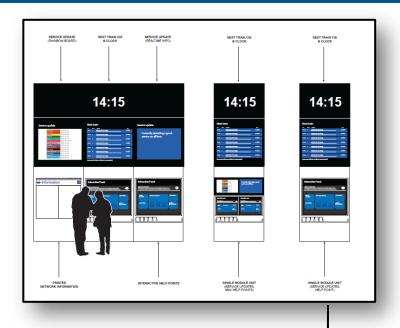






Stations Refurbishment and Access for All





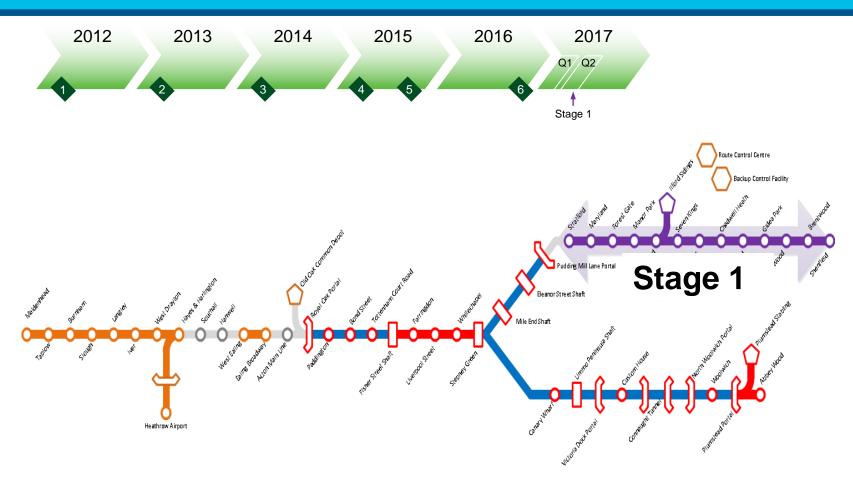






May 2017 New Rolling Stock





▶ Stage 1: May 2017 - Introduction of new rolling stock on Great Eastern – start of 'Crossrail'

The Class 345





Rolling Stock - Manufacture









- ▶ 65 x 205m long, 9 car, air-conditioned, walk-through trains
- Procurement completed February 2014 2 months ahead of programme
- Construction underway in Derby, trains enter service 2017
- Maintenance at Old Oak Common, Ilford and stabling at Plumstead and Maidenhead
- 74% of the value of the contract will be spent in the UK
- Support 840 UK manufacturing jobs building the trains in Derby



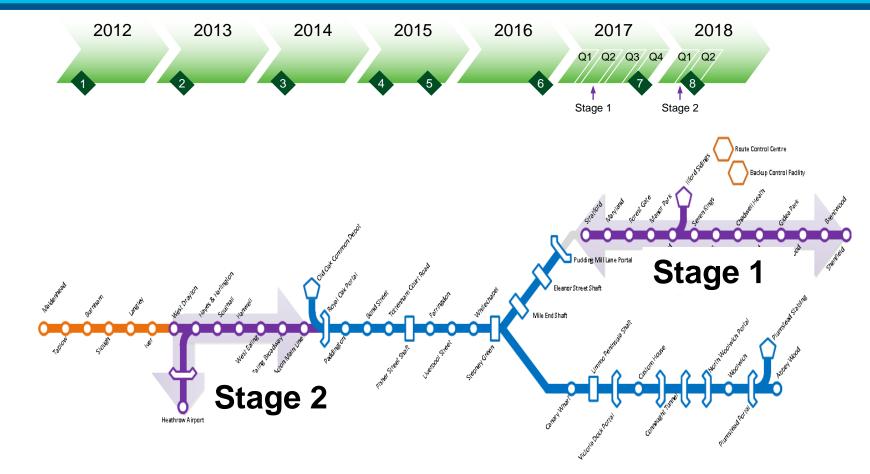
Old Oak Common Maintenance Facility





May 2018 Great Western Surface Services

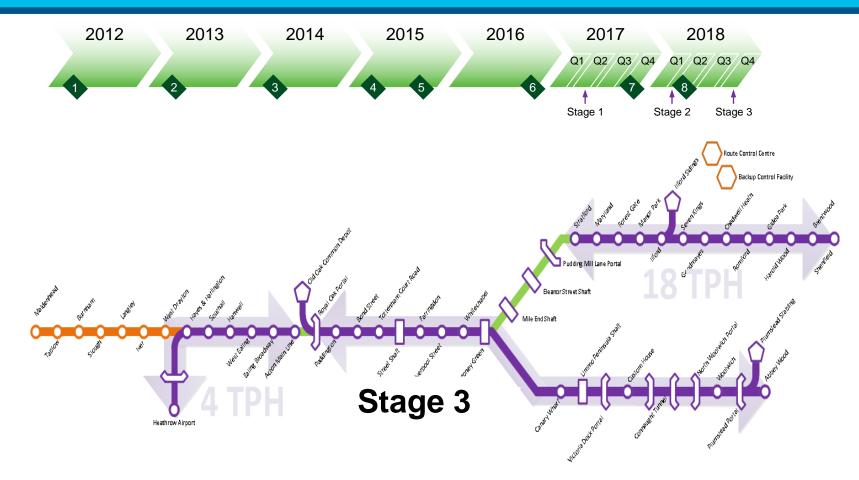




▶ Stage 2: May 2018 - Heathrow to Paddington - surface

December 2018 Central Section On Line





▶ Stage 3: December 2018 – Trains run through Central Section

What do we mean by "handover"? Crossrail



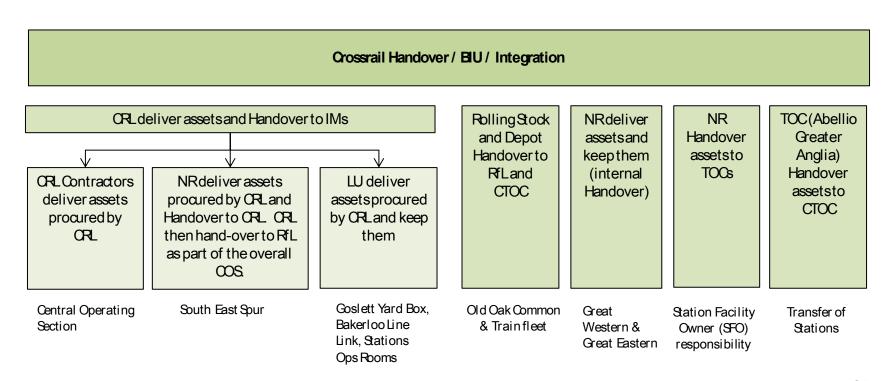
A comprehensive and complete Handover consists of seven key deliverables and activities

1. Accountabilities change:	IMs accept the transfer of accountability for the management and maintenance
2. Works are complete:	 The works are completed as per the contracts IM inspections completed Any remaining snags are documented with agreed close-out plan. All required spares and specialist plant and equipment by the responsible party and are available.
3. Handover documentation:	 Documentation transferred to the IM to support the assurance evidence, operations & maintenance activities. IM's asset databases are populated and ready to use
4. Agreements in place:	 Commercial, Land & Property, Undertakings & Assurances, Regulatory Approvals, Licences.
5. Warranties and liabilities:	 Relevant defects rectification and/or warranty provisions are transferred to the relevant IM
6. Complete Training:	CRL has delivered all necessary training to the IM.
7. IM readiness:	The IM demonstrates readiness to accept the assets (both maintenance and operational readiness)

Handover Strategy - Scope

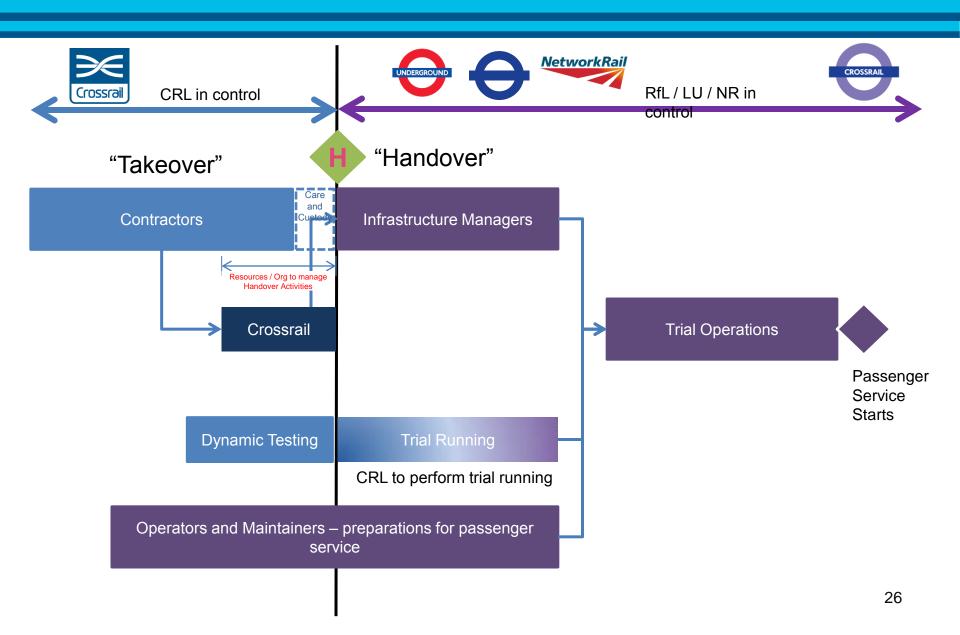


Handover Strategy defines our approach for the whole of Crossrail, with various types of handover for different assets:



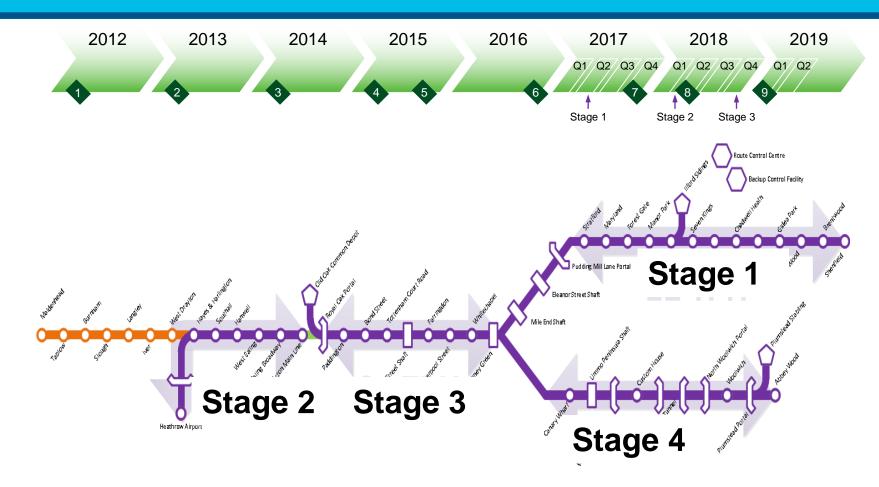


Handover



May 2019 NE Leg joins the tunnel

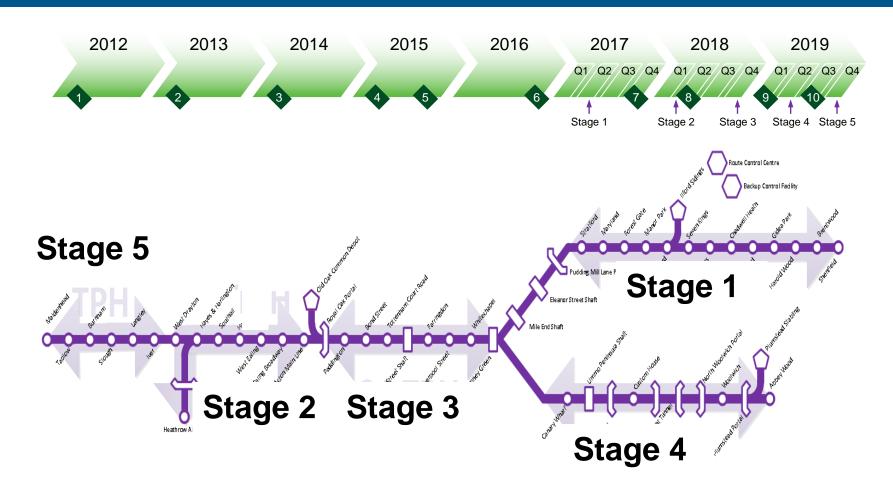




▶ Stage 4: May 2019 - Central Section passenger service connected to Great Eastern Surface Section



December 2019 GW Services Integrated



Stage 5: December 2019 – Full service operating including Reading

Peak Frequencies



