

Western access to Heathrow and the Heathrow Hub proposition

Presentation to ACTVaR

19th September 2008

ARUP



Arup's record of delivery

- Global firm of designers, engineers, planners and business consultants
- Outstanding solutions, innovation and value characterise our work
- Employee-owned company with history of investment in project creation – promoted and delivered CTRL
- 5 Arup airport terminals commissioned this year worldwide
- 3 years investment in developing 'Heathrow Hub' as a private sector project

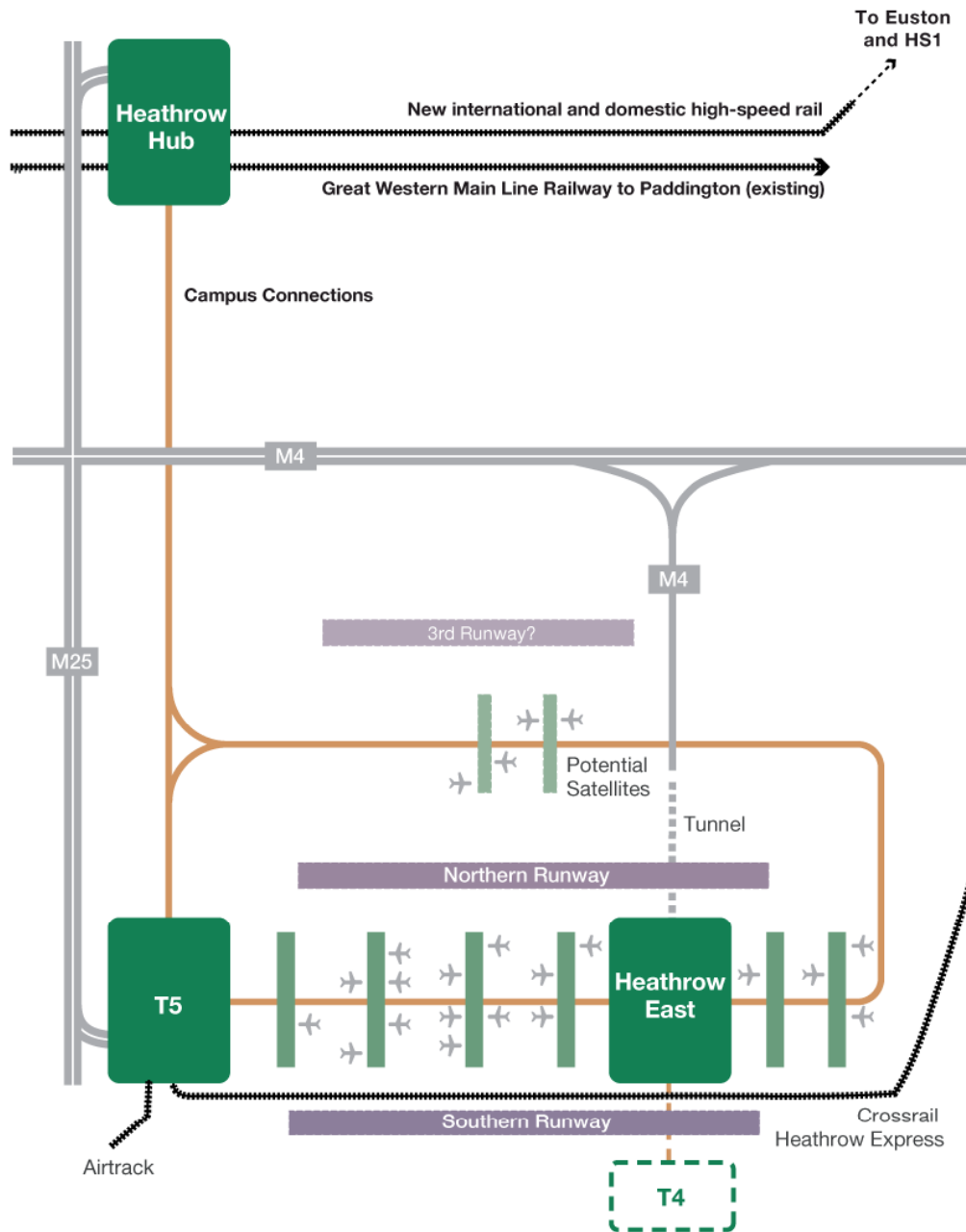
ARUP



The Heathrow Hub Proposal:

Our view of the challenge

- The UK's premiere airport, important for economy
- Losing market share, due partly to poor accessibility and capacity constraints
- Environmental challenges, particularly road congestion, noise and local air quality
- Other than from central London, poor access by public transport

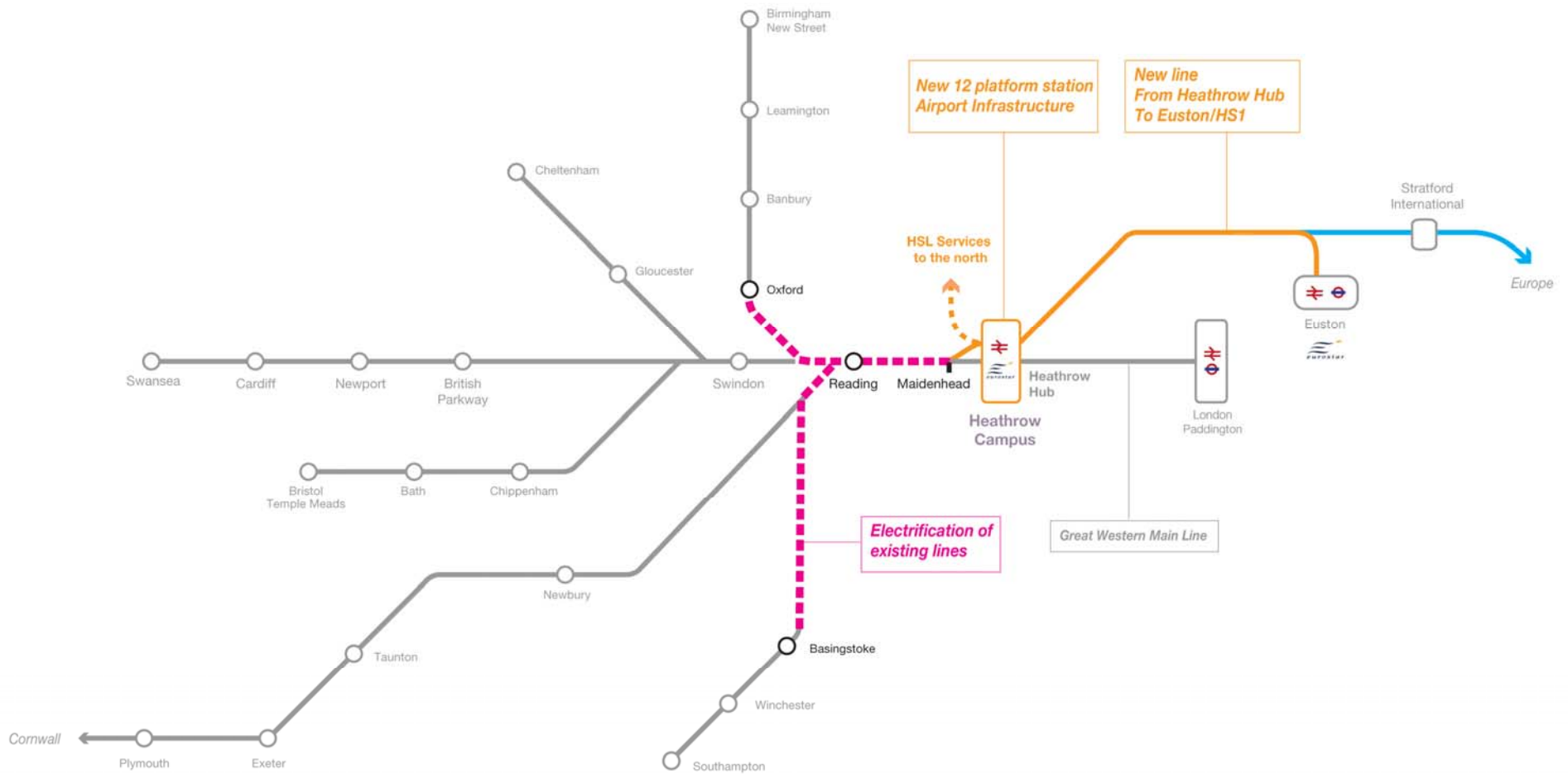


The Heathrow Hub Proposal:

Our proposition

- New Heathrow transport interchange
- Major domestic and international Rail station on GWML, linked to CTRL
- Campus connectivity to enhance access within airport
- Proposition works with or without R3
- Extendable to be part of a future HSL to the Midlands and North

Heathrow Hub: Infrastructure development



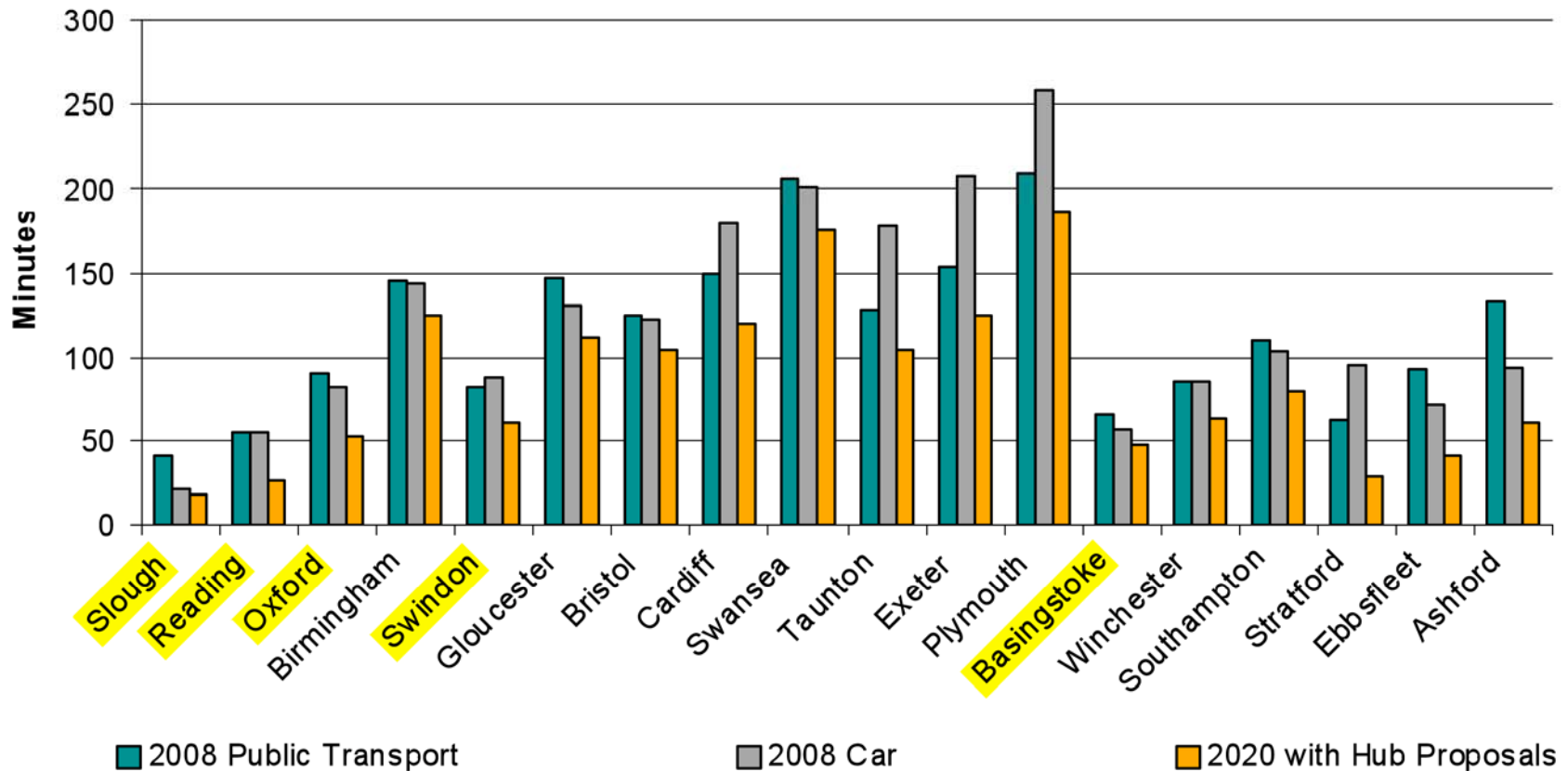
The Heathrow Hub Proposal:

Benefits

- New high speed international and domestic rail services to Heathrow – improving journey times; transforming accessibility by public transport
- Improves local air quality
- Enhances competitive position of Heathrow through improved capacity and flexibility for operator and airlines
- Potential to release runway slots
- Provides additional rail capacity and new services
 - Linking Thames Valley, West and South West to London and Europe
 - For future extension of high speed rail to Midlands and North
- Economic benefits for Thames Valley, London and Thames Gateway

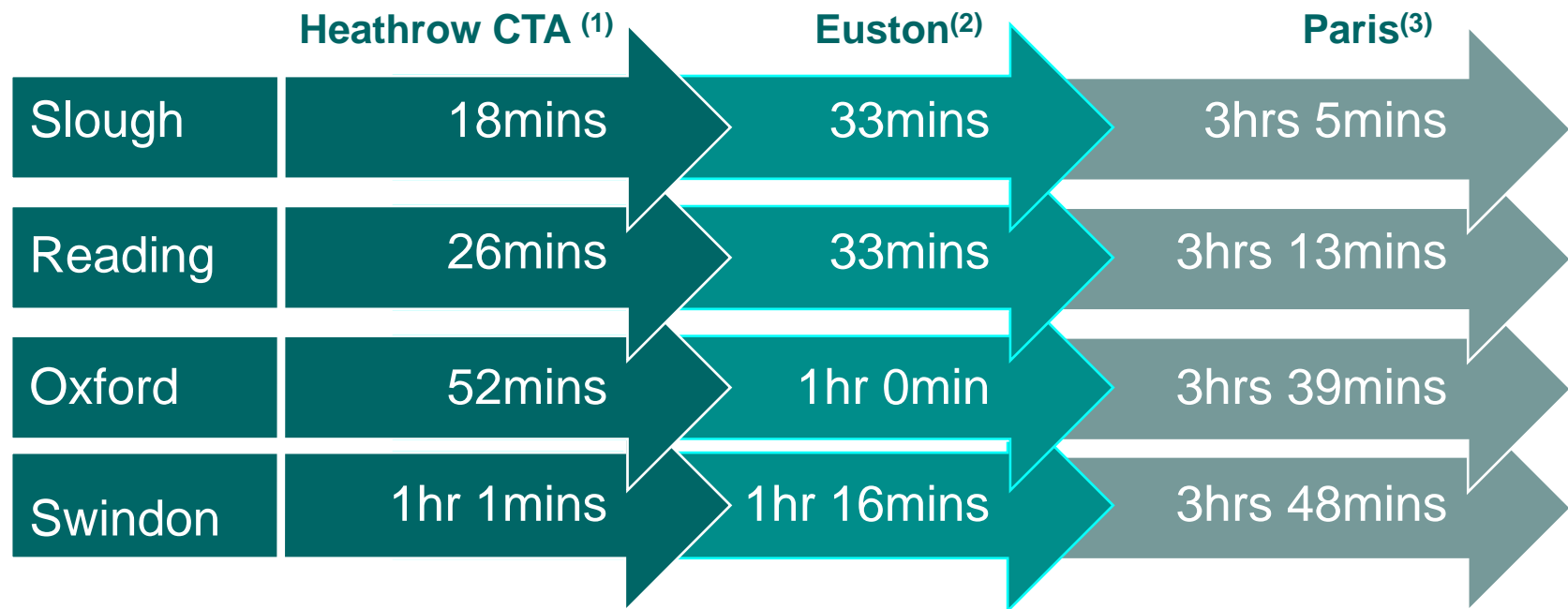
Transforming access to Heathrow

For many surface access journeys, it will be quicker to use the train than car



Transformation in rail services for the Thames Valley

- Rail becomes the fastest route into Heathrow Airport from Thames Valley centres
- 17 minutes from Heathrow Hub to Euston opens a new route into central London
- 30 minutes quicker to Paris by rail than going via St. Pancras



1) Including a 10 minute transfer from Heathrow Hub to CTA

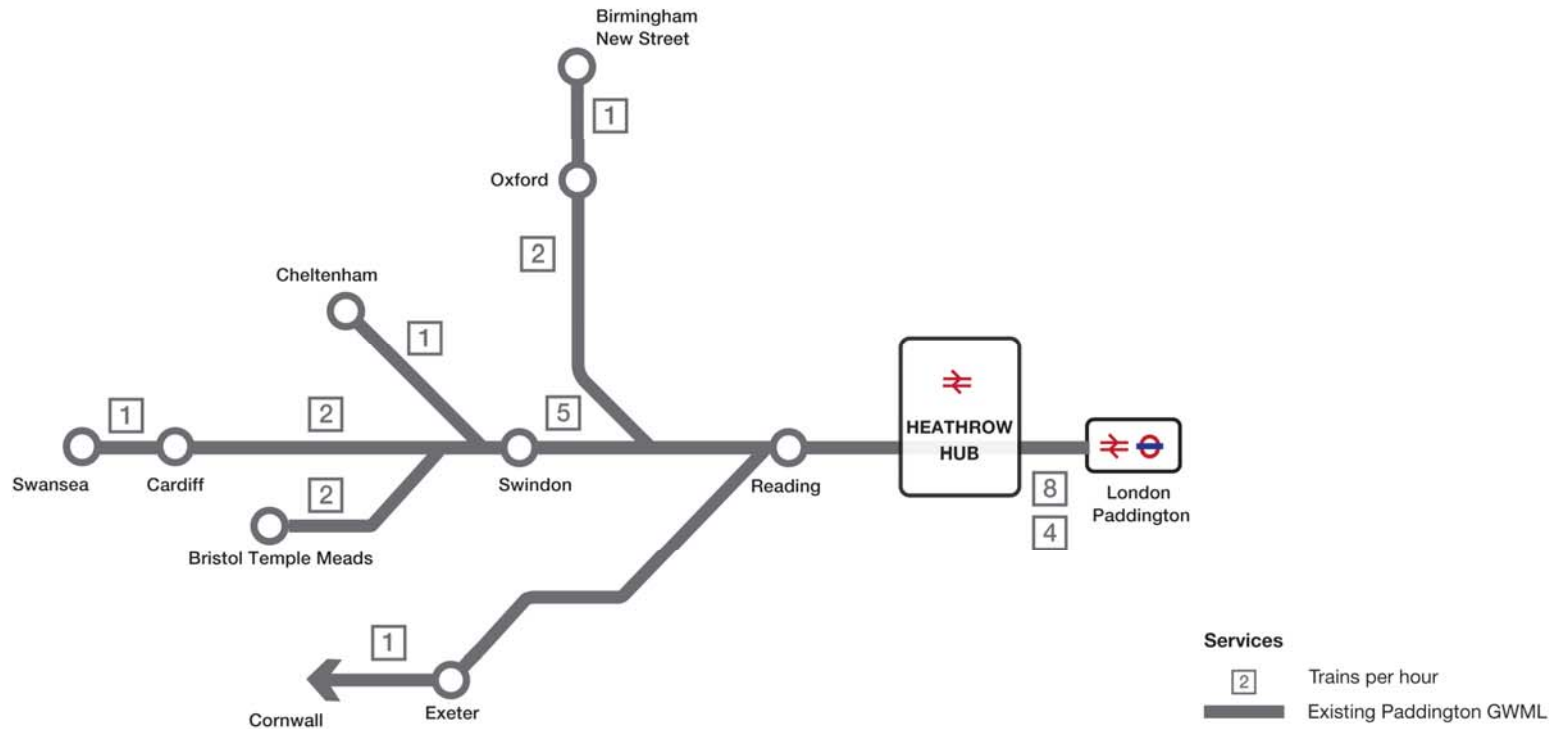
2) Slough & Swindon include an 8 minute transfer at the Heathrow Hub

3) Including a 30 minute change at Heathrow Hub

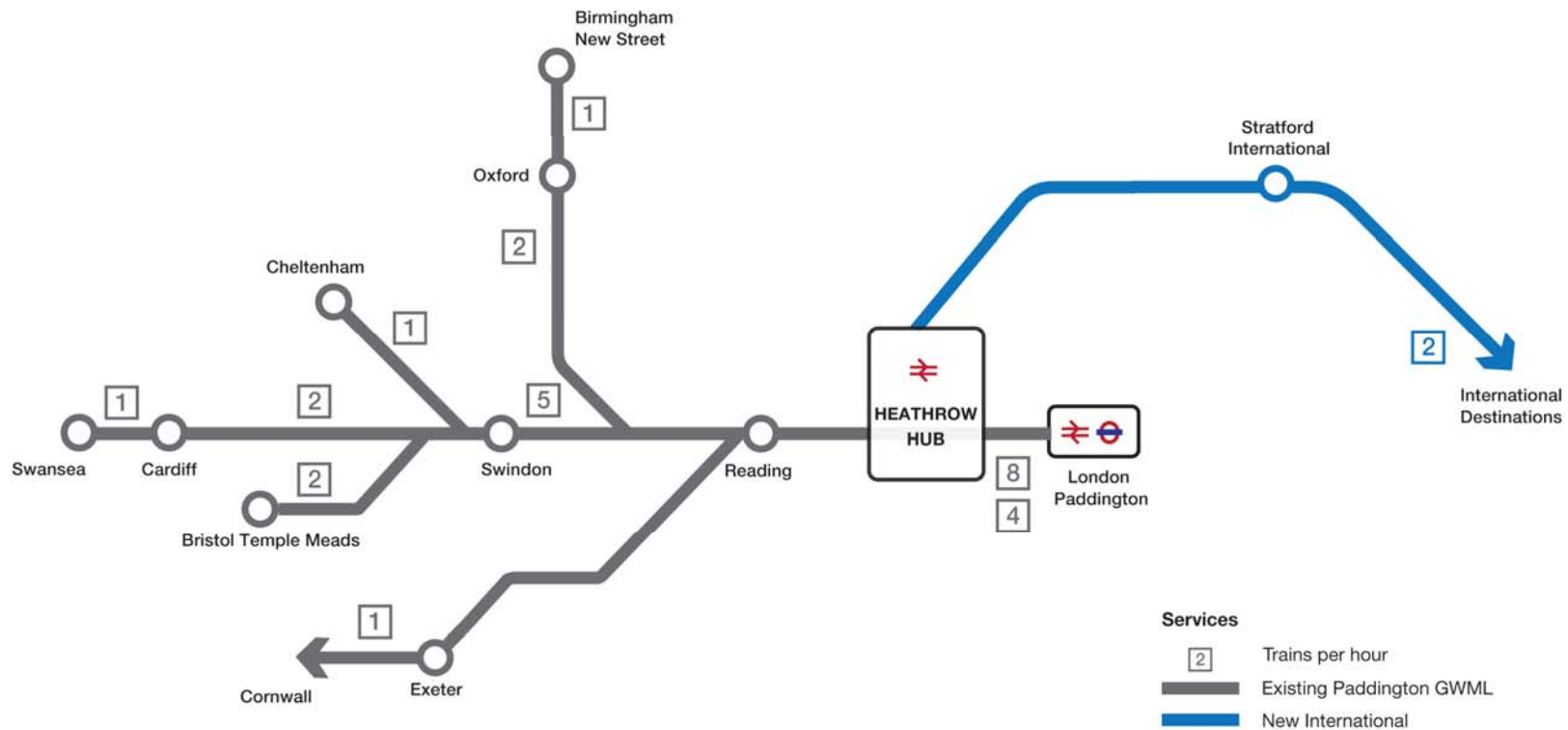
Proposed new services (hourly, off-peak)

	from Slough	from Reading	from Oxford	from Swindon	from M Maidenhead	from Basingstoke
Heathrow Hub	4 (Crossrail) 2 (GWML) 2 (TG Express)	4 (Crossrail) 8 (GWML) 2 (TG Express) 4 (Euston Express)	2 (GWML) 2 (Euston Express)	4 or 5 (GWML)	4 (Crossrail) 2 (TG Express)	2 (Euston Express)
Euston	4 via Hub	4 (Euston Express)	2 (Euston Express) 2 (via Hub)	4 via Hub	4 via Hub	2 (Euston Express)
Thames Gateway	2 (TG Express)	2 (TG Express)	2 via Hub	2 via Hub	2 (TG Express)	2 via Reading
International	2 via Hub	2 via Hub	2 via Hub	2 via Hub	2 via Hub	2 via Hub

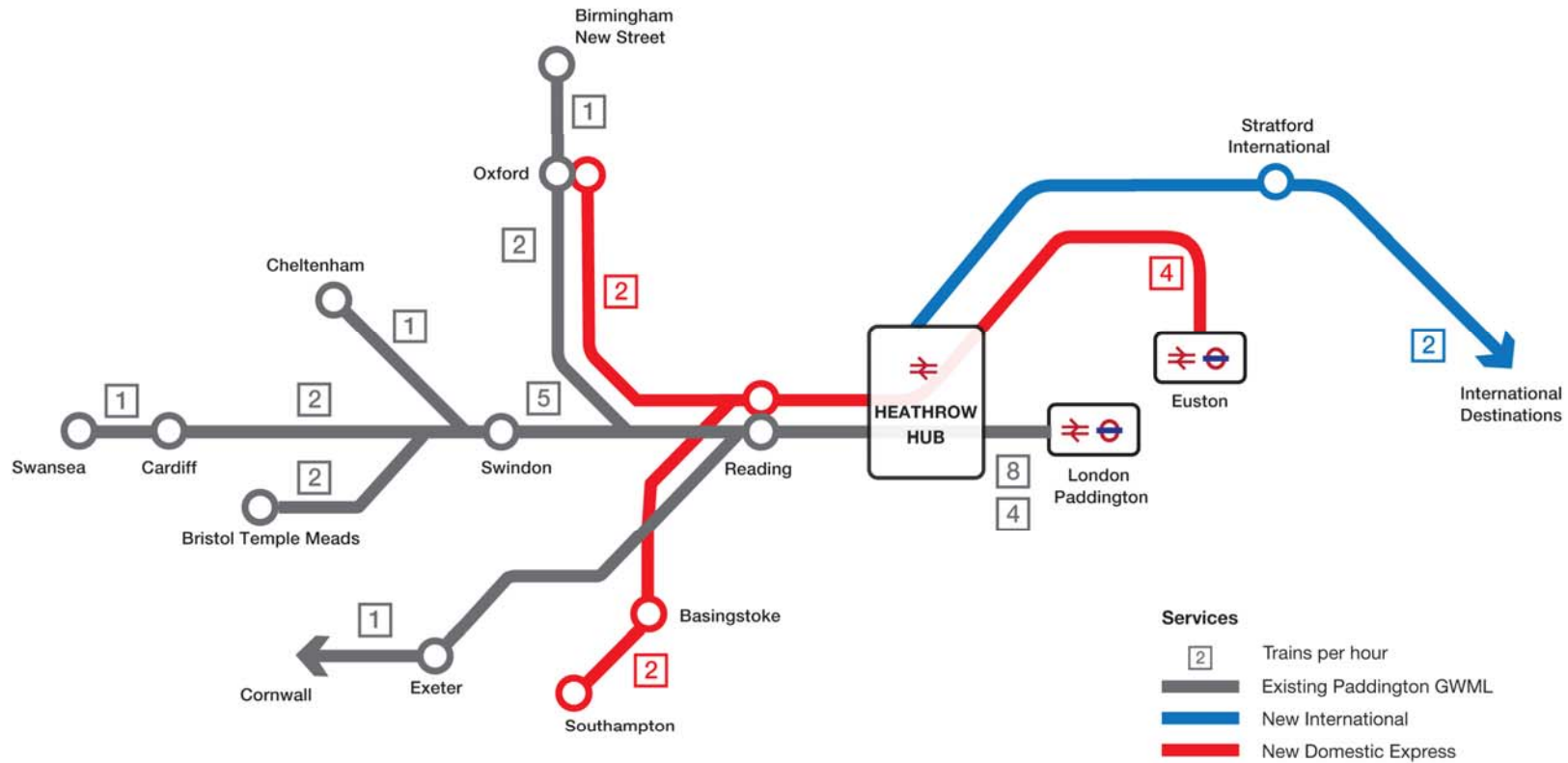
Heathrow Hub: Longer Distance Rail Services



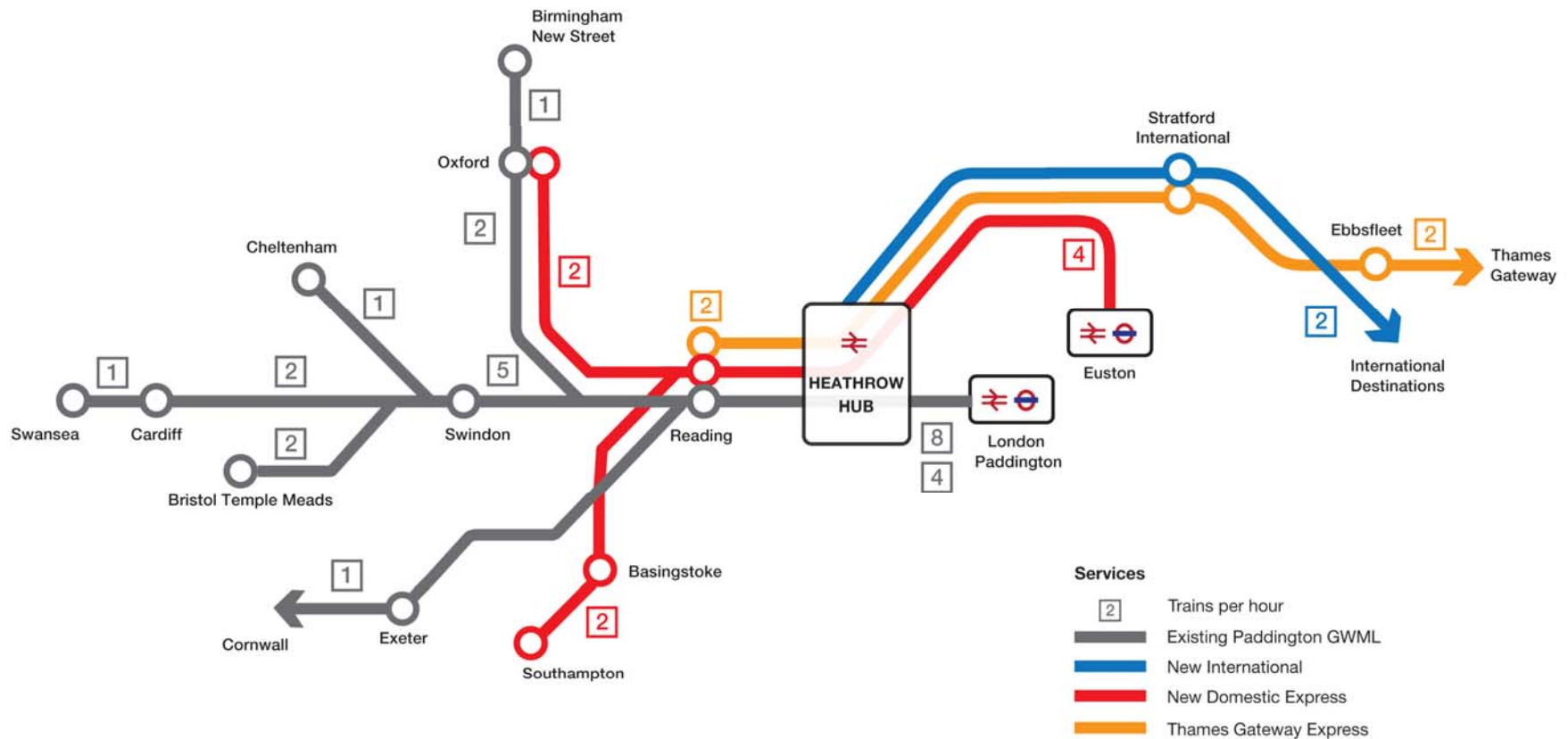
Heathrow Hub: Longer Distance Rail Services



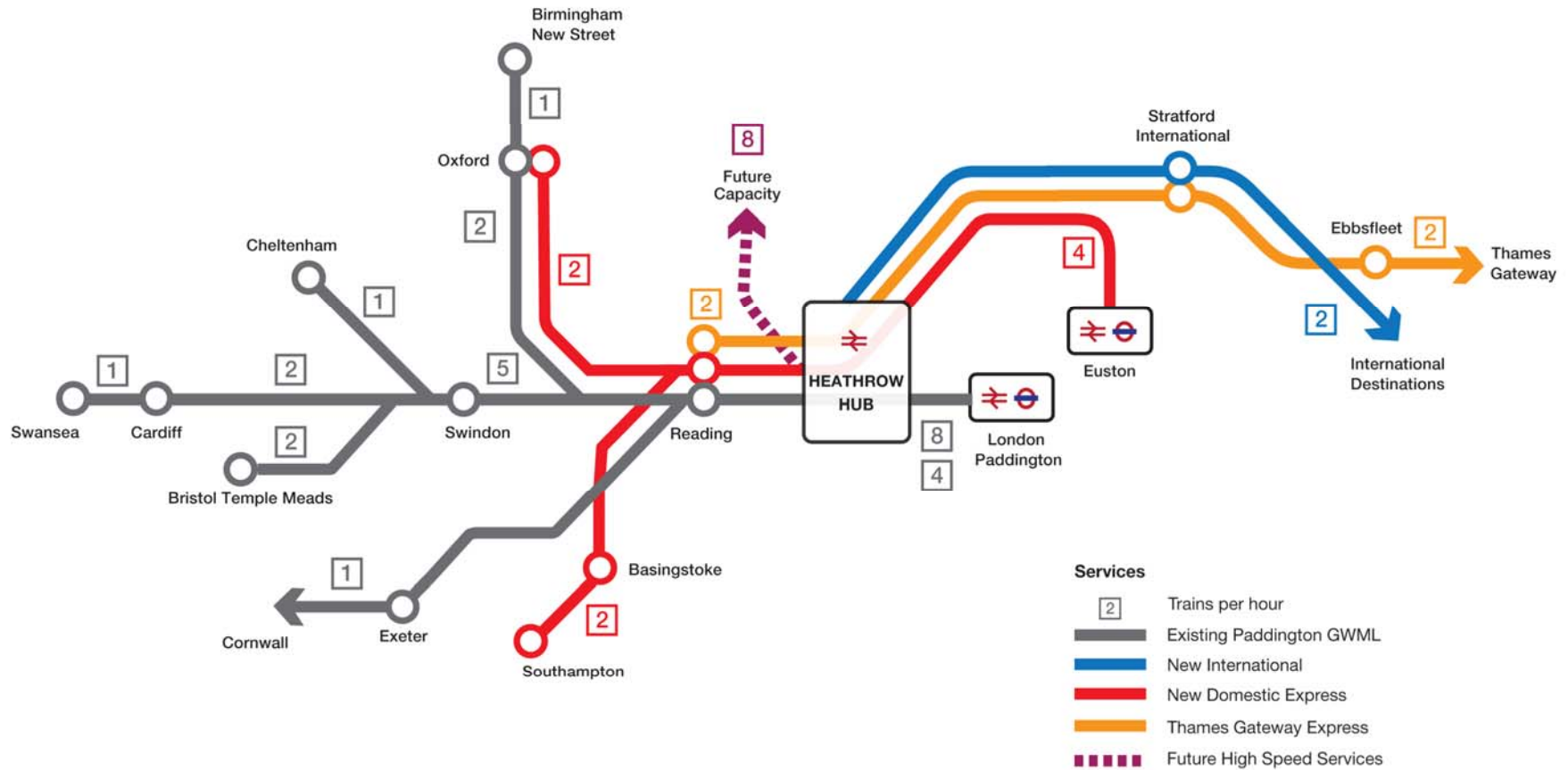
Heathrow Hub: Longer Distance Rail Services



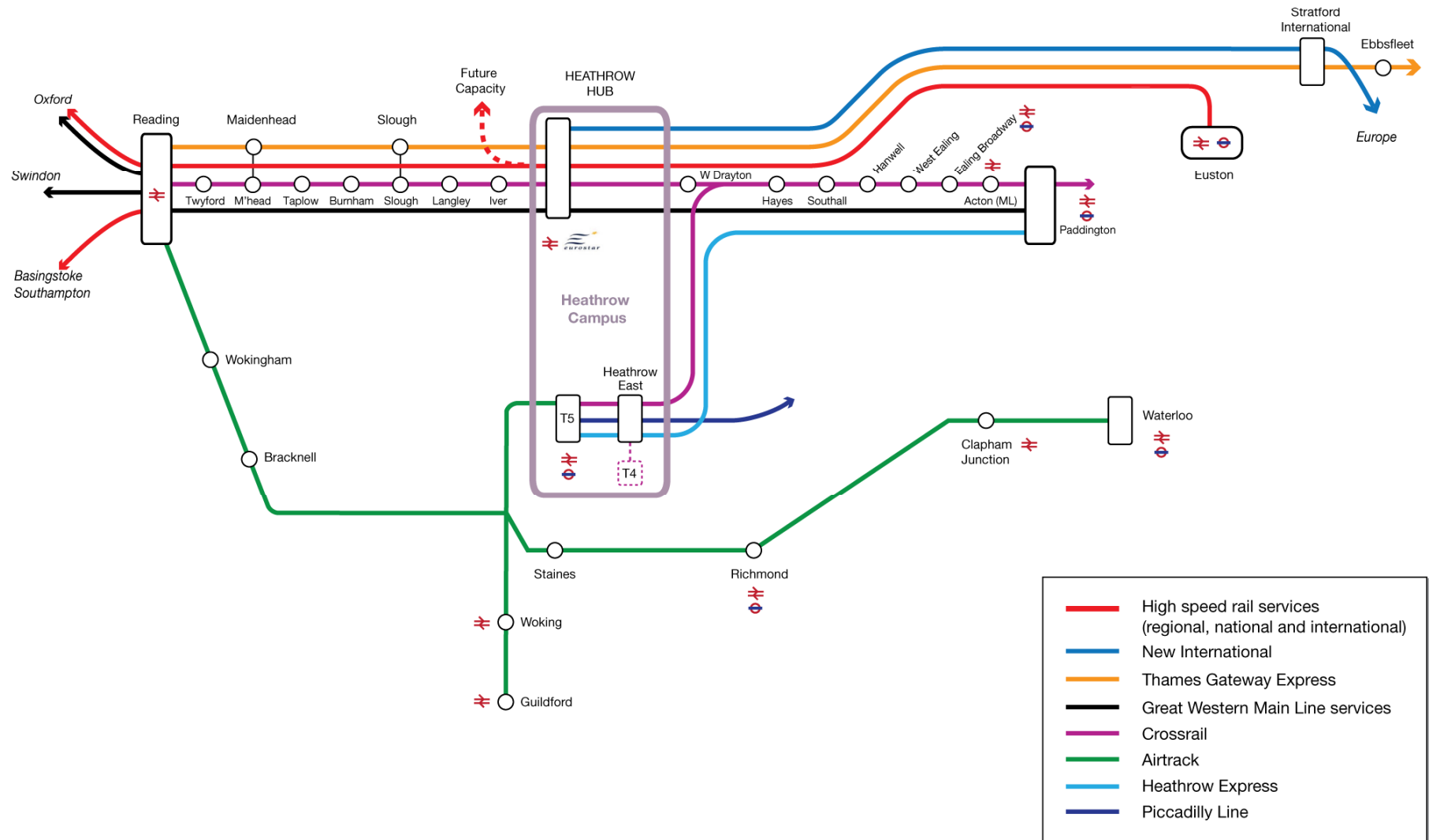
Heathrow Hub: Longer Distance Rail Services



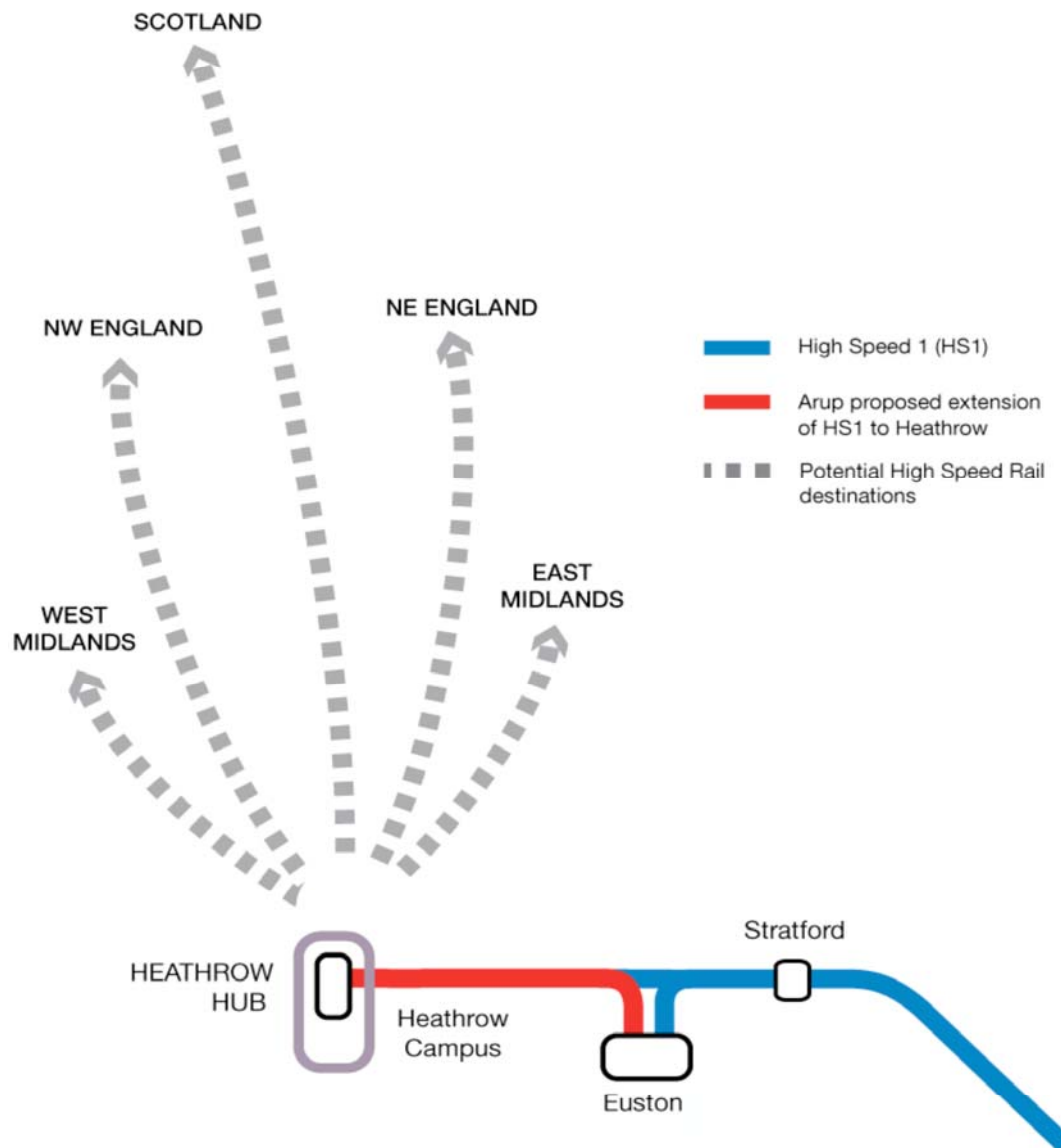
Heathrow Hub: Longer Distance Rail Services



Heathrow Hub: Local Rail Services



Phase 2 – Potential High Speed Services

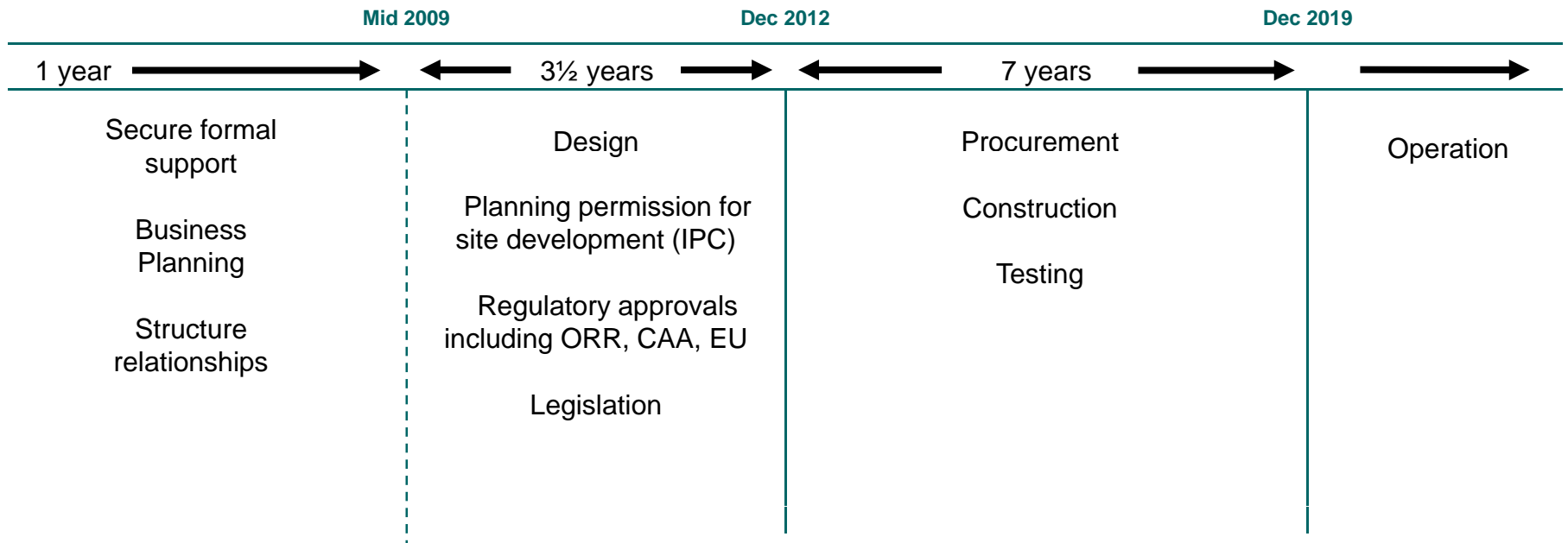


- Heathrow Hub is capable of being linked into a future Domestic HSL network
- Value of UK High Speed rail will be enhanced if, at the outset, the principal north - south route is via Heathrow
- “Phase 2” is not currently part of our proposition

Delivery timetable

Progress made already

- Sites identified and options taken for land
- Alignment for new railway
- Cost estimates and headline revenue forecasts prepared
- Outline service plan developed



Heathrow Hub: Next steps

- Discussions with DfT officials following presentation to Secretary of State, 23rd July – leading to request for support to facilitate development financing
- BAA, Network Rail
- Discussions with potential partners
- Continuing discussions with Shadow Secretaries of State

We welcome your comments

Thank you

ARUP