



# High Speed Rail in Scotland: *Faster and Further*

**IMECHE**

**17 January 2013**

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# High Speed Rail: *Faster and Further*

Global

2010

Tokyo – Osaka 1964



- $V > 250$  km/h in operation
- $V < 250$  km/h in operation
- High speed in project

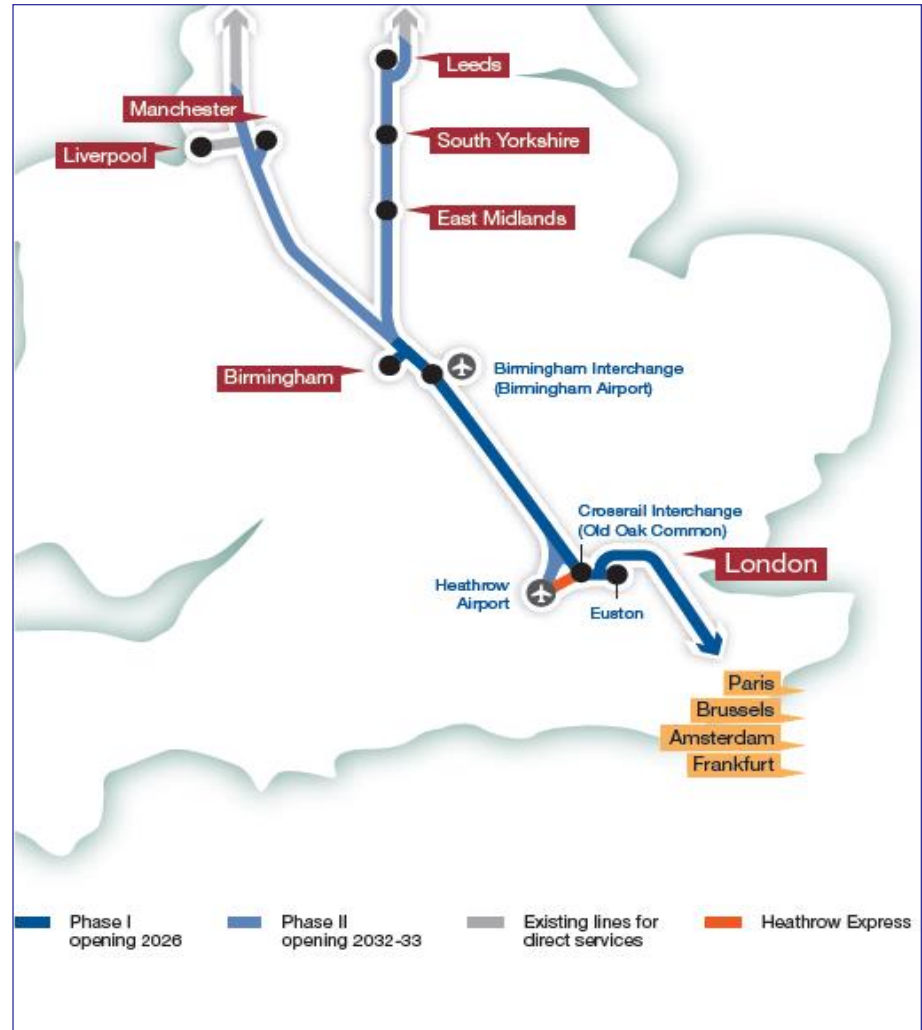
# High Speed Rail: *Further and Faster*

London – Paris  
1994



# High Speed Rail: *Faster and Further*

- March 2010: DfT Command Paper
- London to West Midlands by 2026
- Then separate extensions to both Leeds and Manchester by 2032 – the ‘HS2’ line



# High Speed Rail: *Faster and Further*

## INDICATIVE FUTURE JOURNEY TIMES

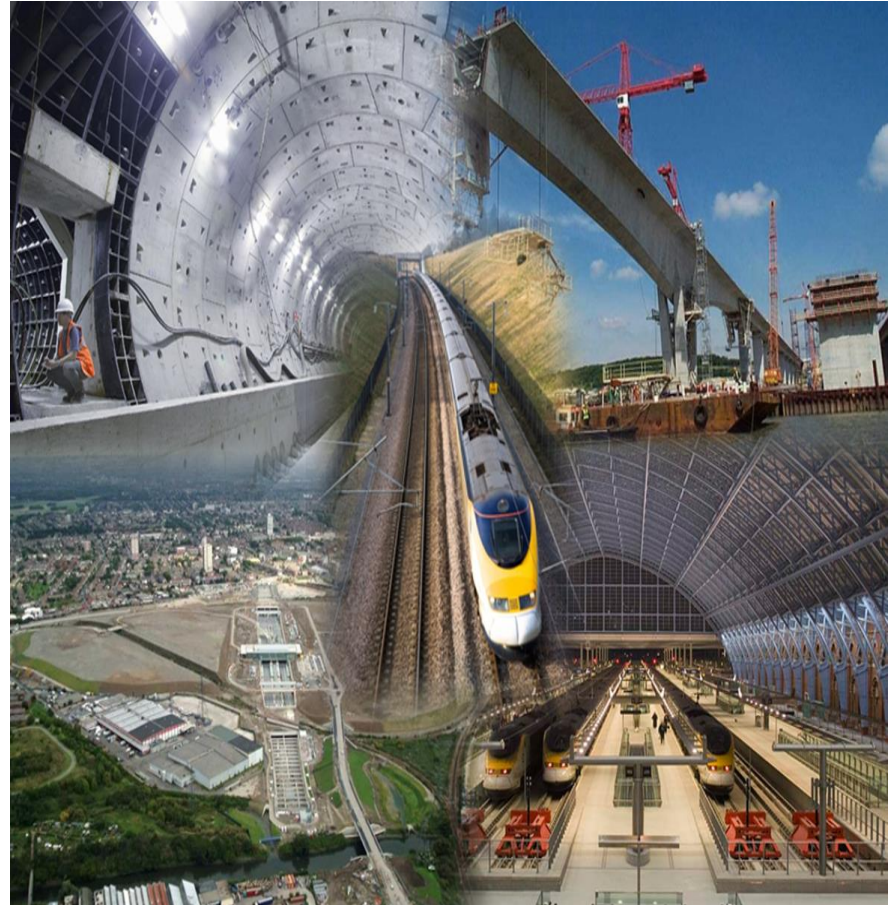
Journey Time	2012	2026	2033
04:30	Glasgow		
04:15			
04:00		Glasgow	
03:45			
03:30			Glasgow
03:15			
03:00			
02:45			
02:30	Manchester		
02:15			
02:00		Manchester	
01:45			
01:30			Manchester
01:15	Birmingham		
01:00			
00:45		Birmingham	Birmingham
00:30			
00:15			
00:00	London Euston	London Euston	London Euston

Competitive?

# High Speed Rail: *Faster and Further*

## High Speed Rail Benefits

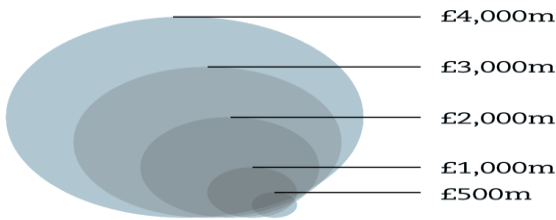
- Relieve severe overcrowding
- WCML full by 2024
- Journey time savings
- Improved local and freight services
- Economic benefits



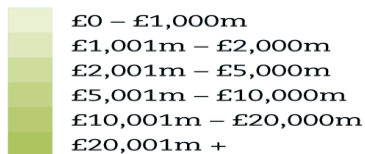
# High Speed Rail: *Faster and Further* Distribution of benefits

## Regional economic benefits

### Wider impacts (present value over 60 years)

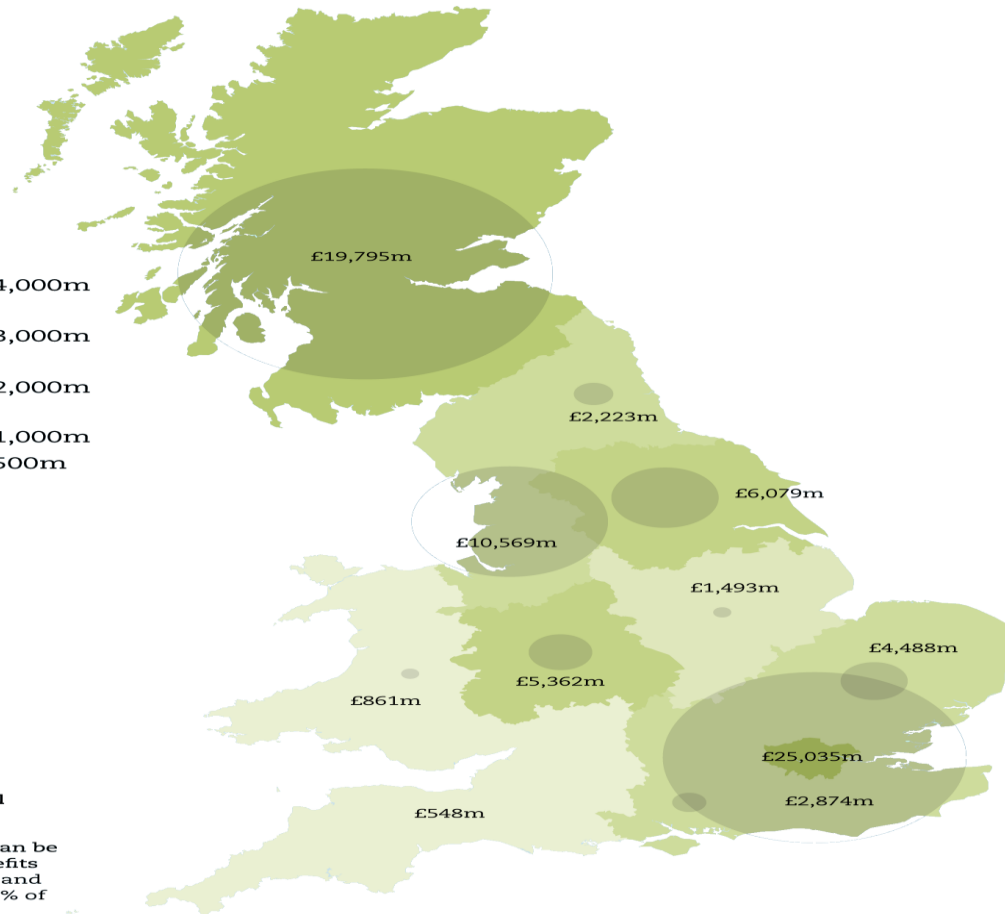


### Total regional economic benefits including wider impacts (present value over 60 years)



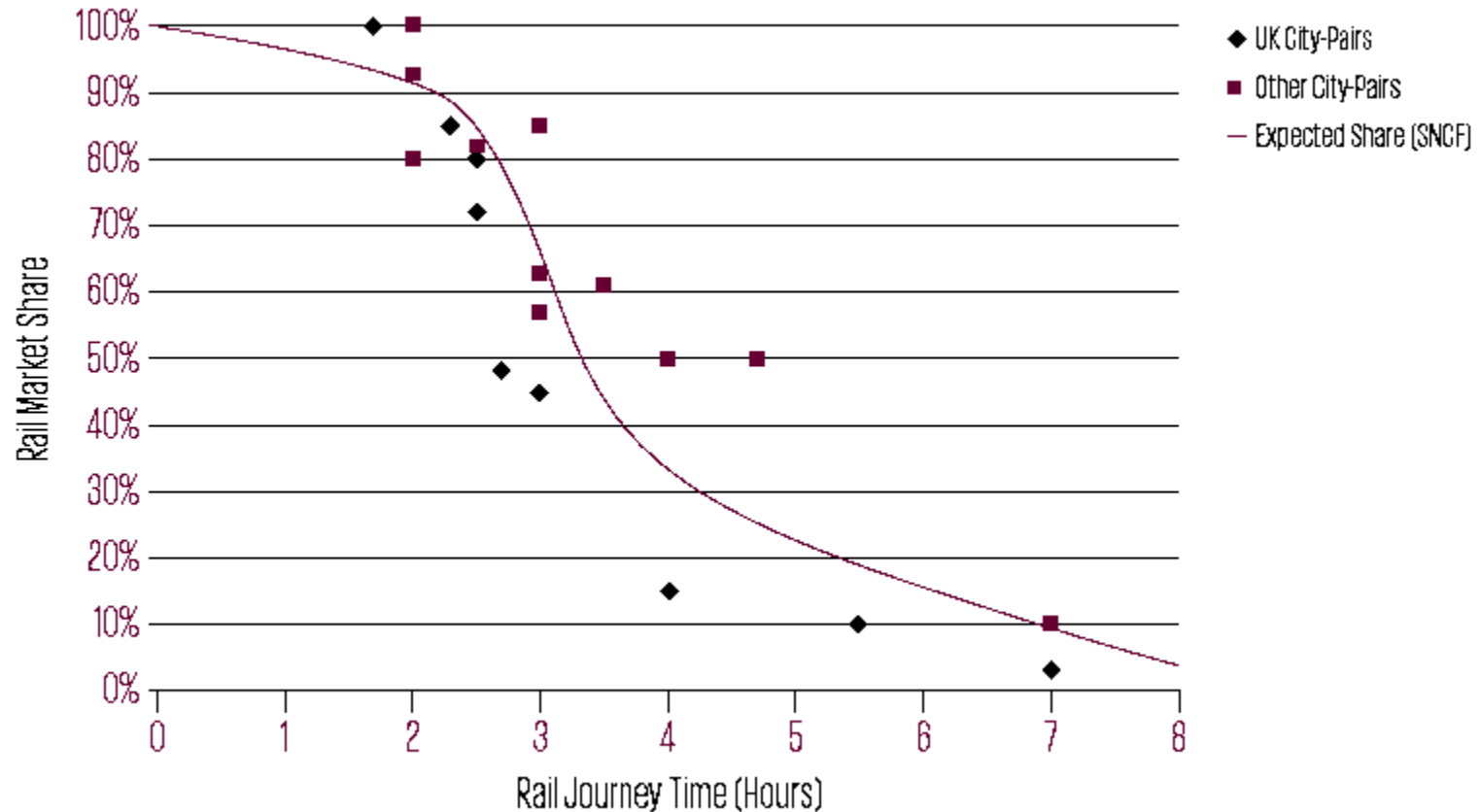
The figures on the map represent the total economic benefit to the region.

Represents those economic benefits that can be disaggregated geographically, namely benefits from journey time savings, agglomeration and imperfect competition. These represent 66% of total economic benefits.



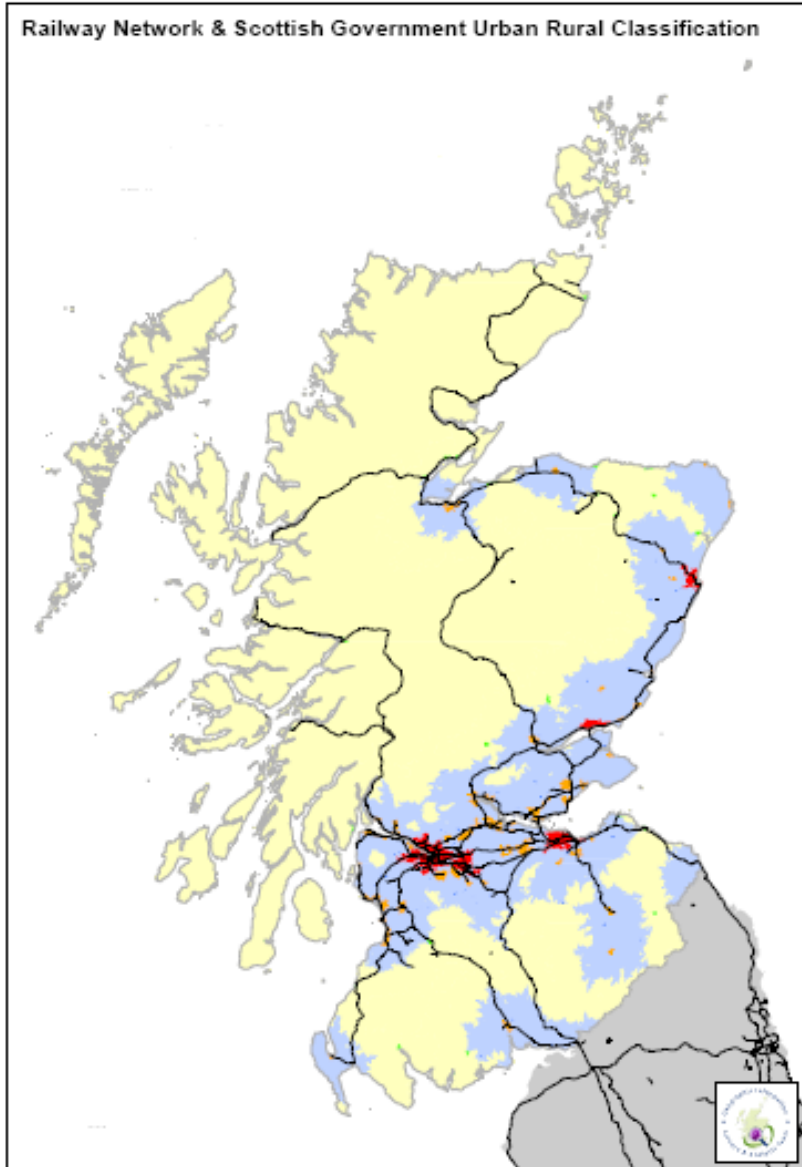
# High Speed Rail: *Faster and Further*

Rail/air market share



Source: Greengauge 21 (2009c)

# High Speed Rail: *Faster and Further*



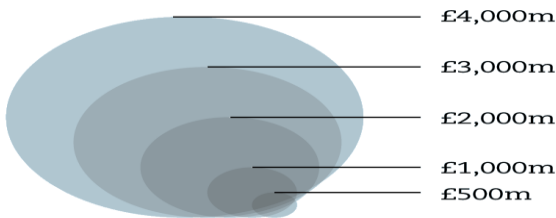
## Population Density & Scotland Rail Network

- 2/3 size of England
- Population 5 m compared to 51 m
- 70% live in central belt
- 82 m passengers
- 43 m passengers on Glasgow suburban network

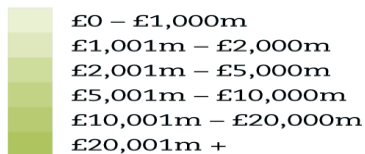
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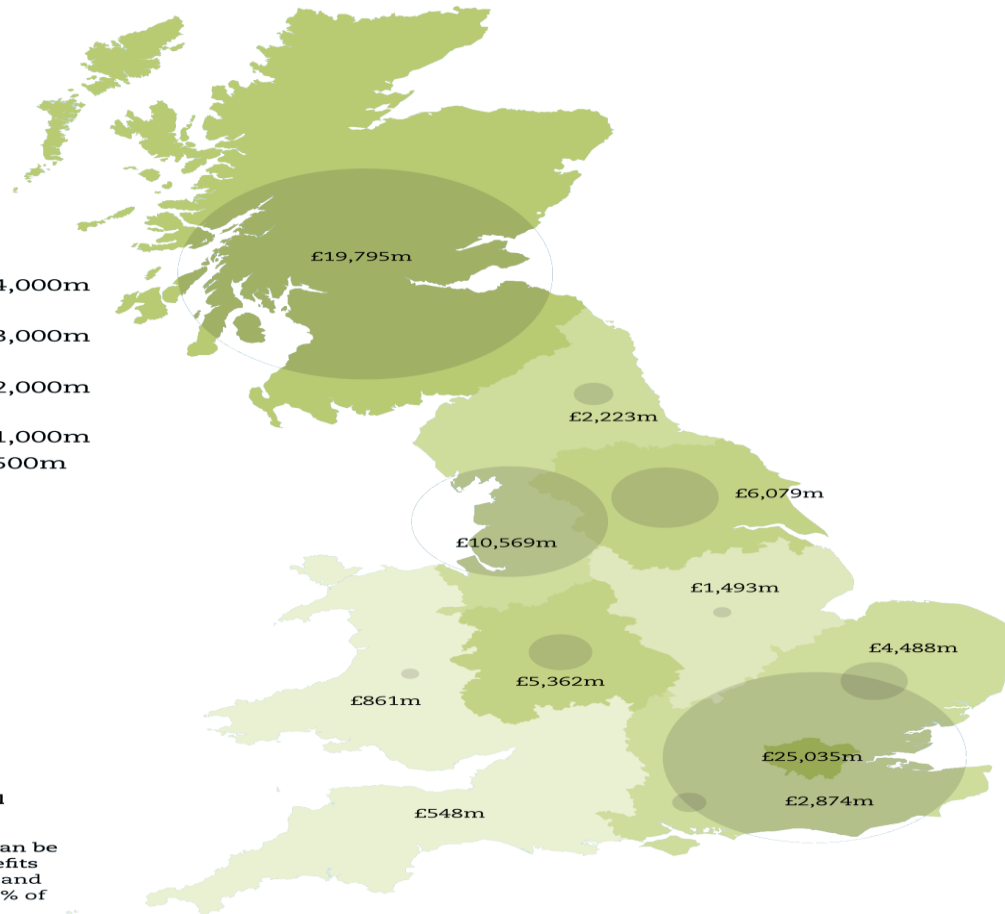


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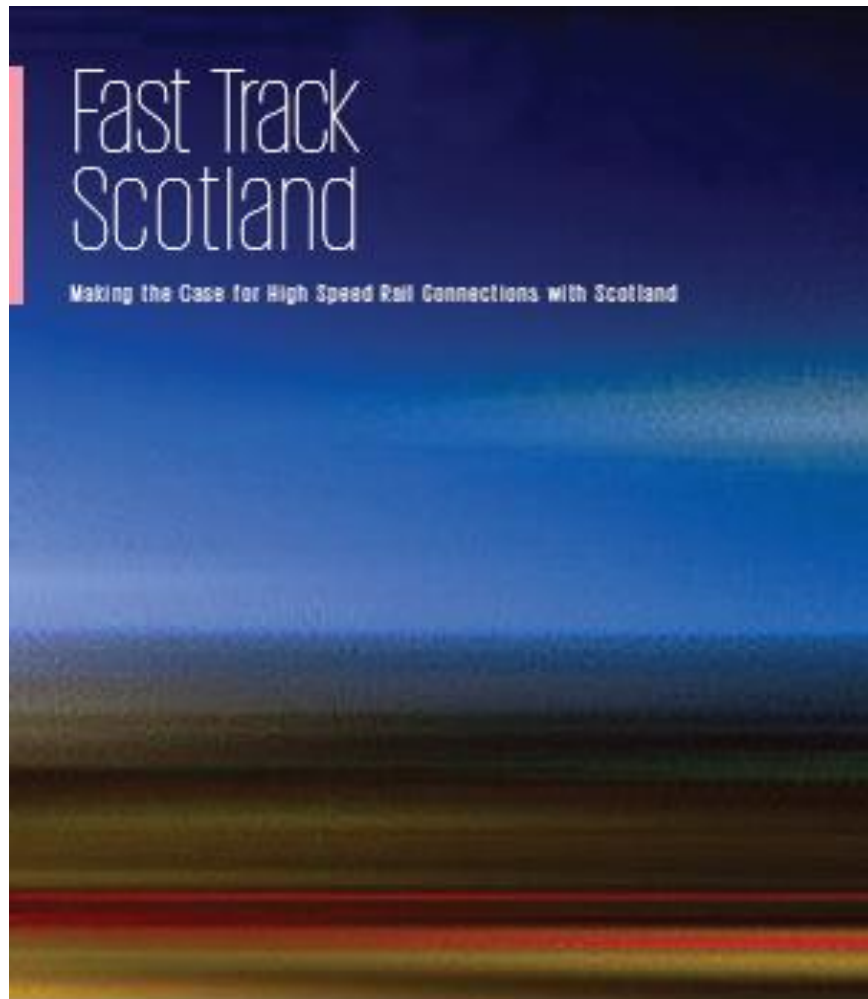
# High Speed Rail: *Faster and Further*

June 2011

Scotland's Voice:



# High Speed Rail: *Faster and Further*



“The case for high speed rail in the UK is strong, but is stronger when Scotland is included”.

“The remit of HS2 Ltd should be extended to include planning for high speed rail to Scotland”.

# High Speed Rail: HS2 Criteria for Scotland

- Designed for 400m European sized trains travelling at up to 250 mph
- Link to High Speed Network in England & northern England destinations
- Serve Glasgow & Edinburgh centres with opportunity for HS link
- Connections to the rail & motorway network (especially to the north)
- multiple traffic types: like HS1 regional passenger and HS freight capability
- advantage of phased delivery (taken where possible).
- Line Resilience against unplanned external events
- based on sustainable development objectives

# High Speed Rail: *Faster and Further*

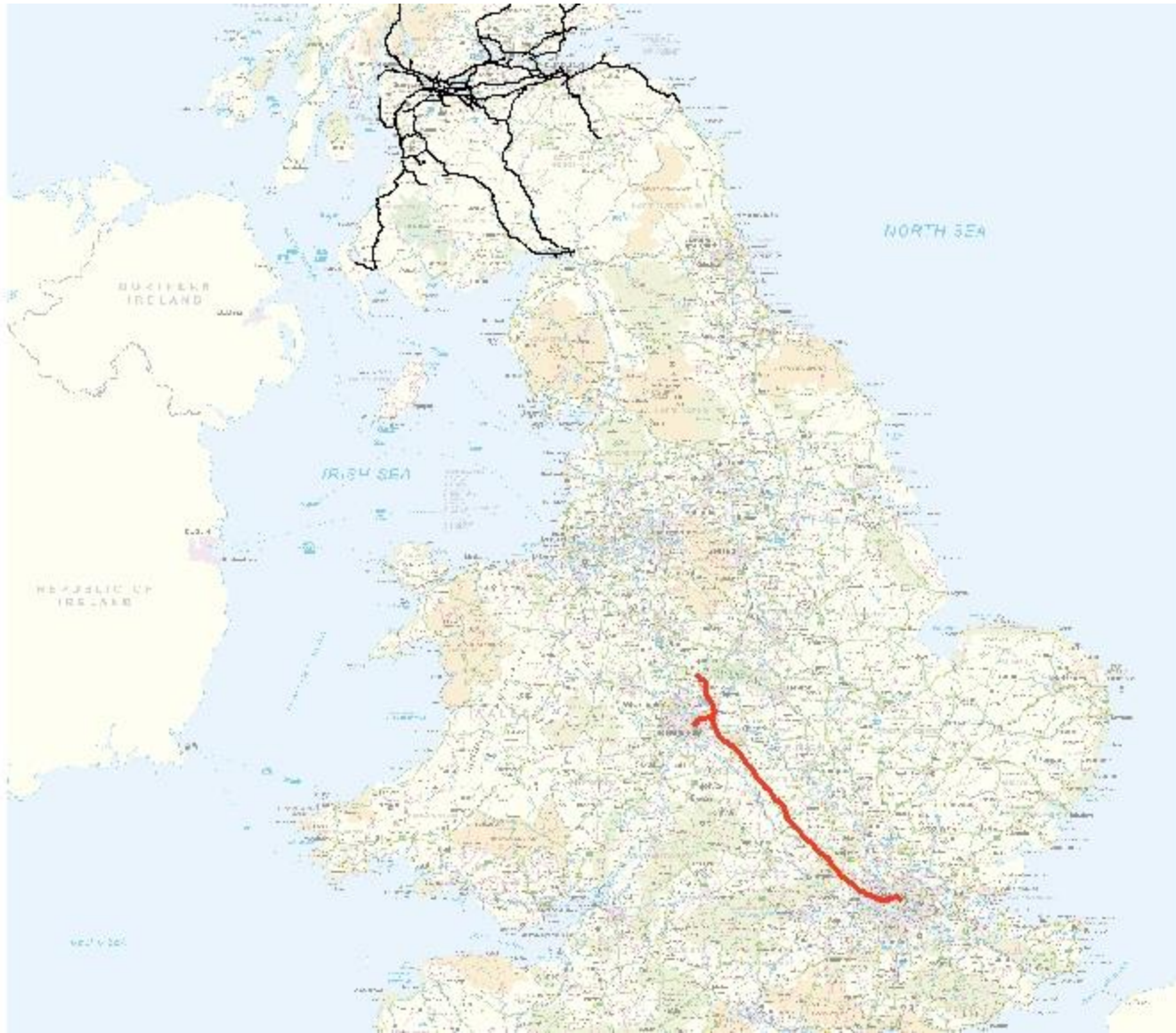
## Scottish Partnership Group

Routes and Stations sub-group  
recommended that work in Scotland

- could “start early”; and
- should “link Edinburgh and Glasgow”



# High Speed Rail: *Faster and Further* Published HS2 Network



# High Speed Rail: *Faster and Further*

## HS2 – “Y” Network



# High Speed Rail: *Faster and Further*

## HS2 – East



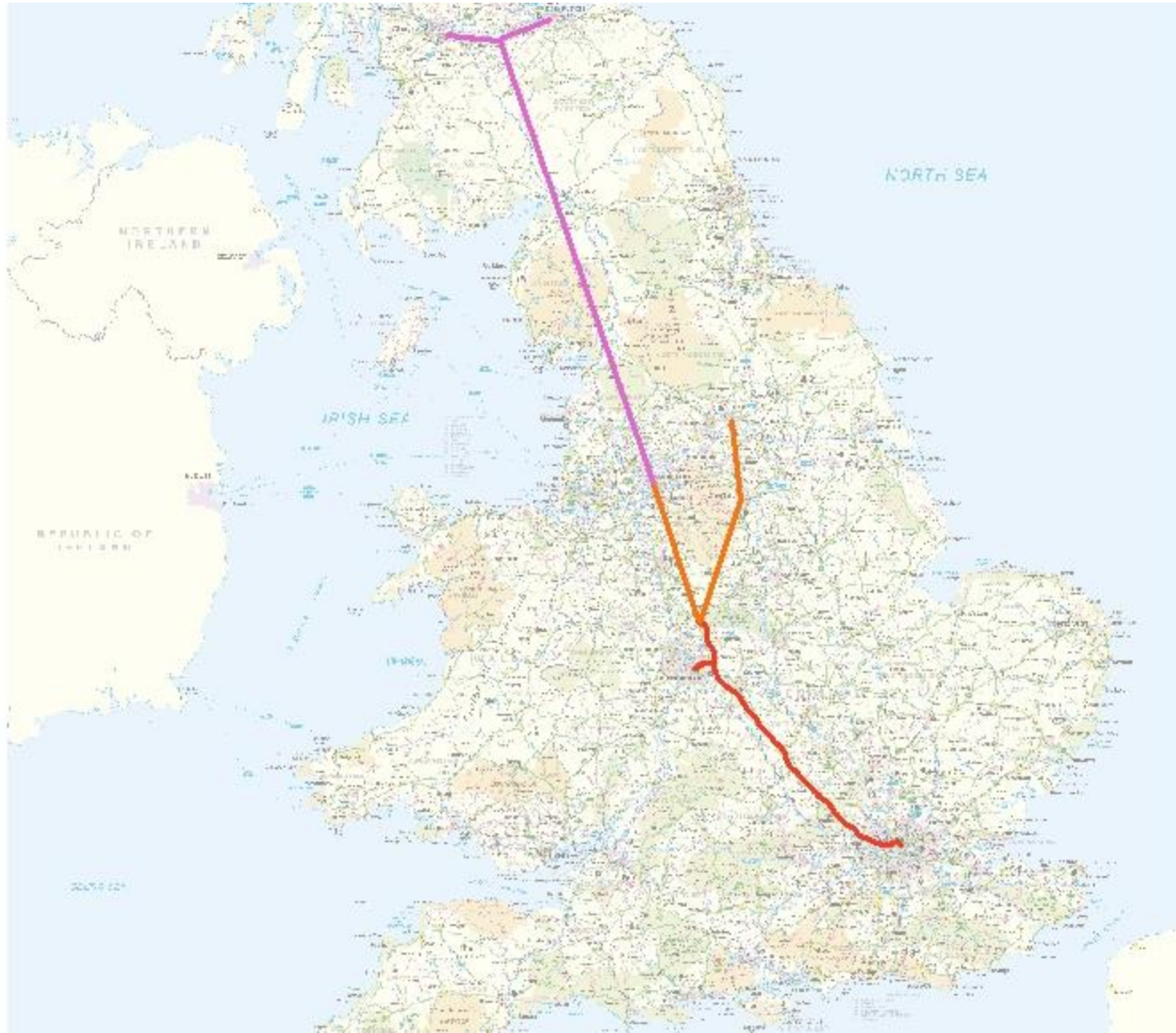
# High Speed Rail: *Faster and Further*

## HS2 – Trans

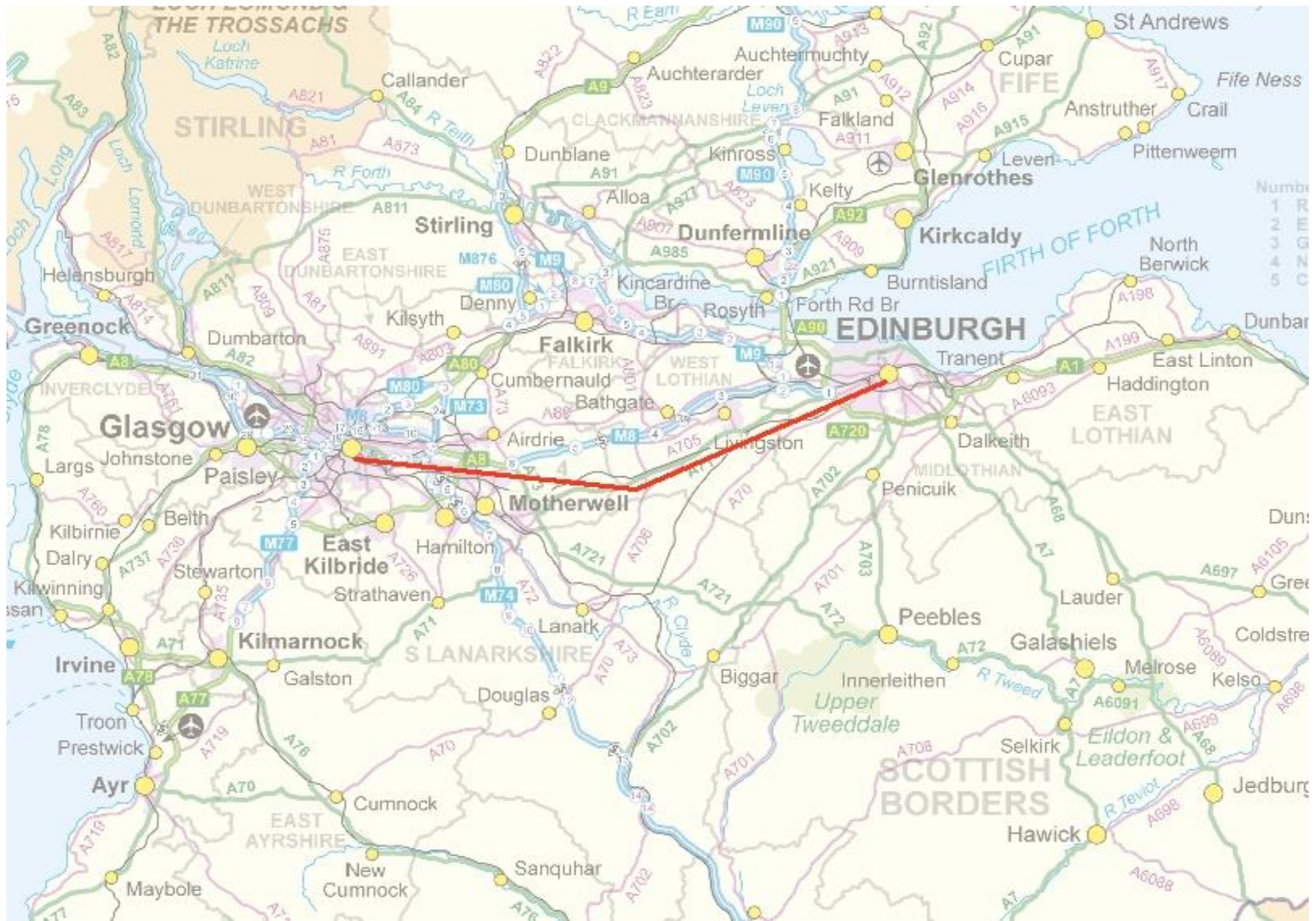


# High Speed Rail: *Faster and Further*

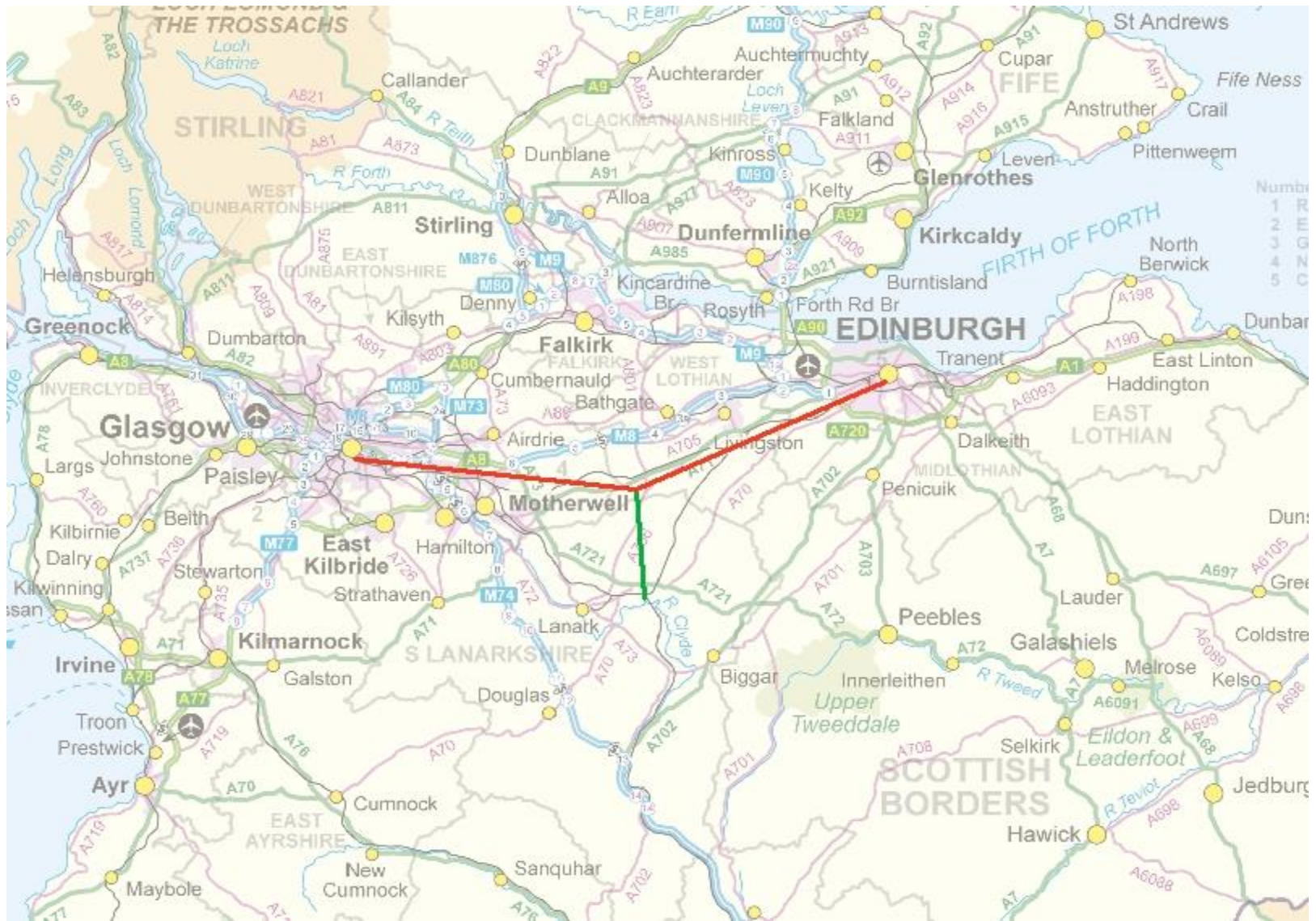
## HS2 – West



# High Speed Rail: *Faster and Further* Quick Win: Glasgow - Edinburgh



# High Speed Rail: *Faster and Further* Quick Win - link to WCML



# **High Speed Rail: *Faster and Further***

## **The Scottish HSR project**

### **Possible timeline:**

**2013: Route appraisal and business case**

**2014: Reporting and Minister's determination**

**2015: EIA, land, survey and investigations**

**2016: Outline Design / Bill introduced**

**2017/18: Bill Passed**

**2018-2024: Construction**

# High Speed Rail: *Faster and Further*



## Next Steps

- Further development of route and station options in Scotland
- DfT proposal to Leeds and Manchester
- 2015 plans to Scotland
- Northern alliance building on HSR summit held in Glasgow

# High Speed Rail: *Faster and Further*



*Thank you*

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