

AIRPORT AGENDA

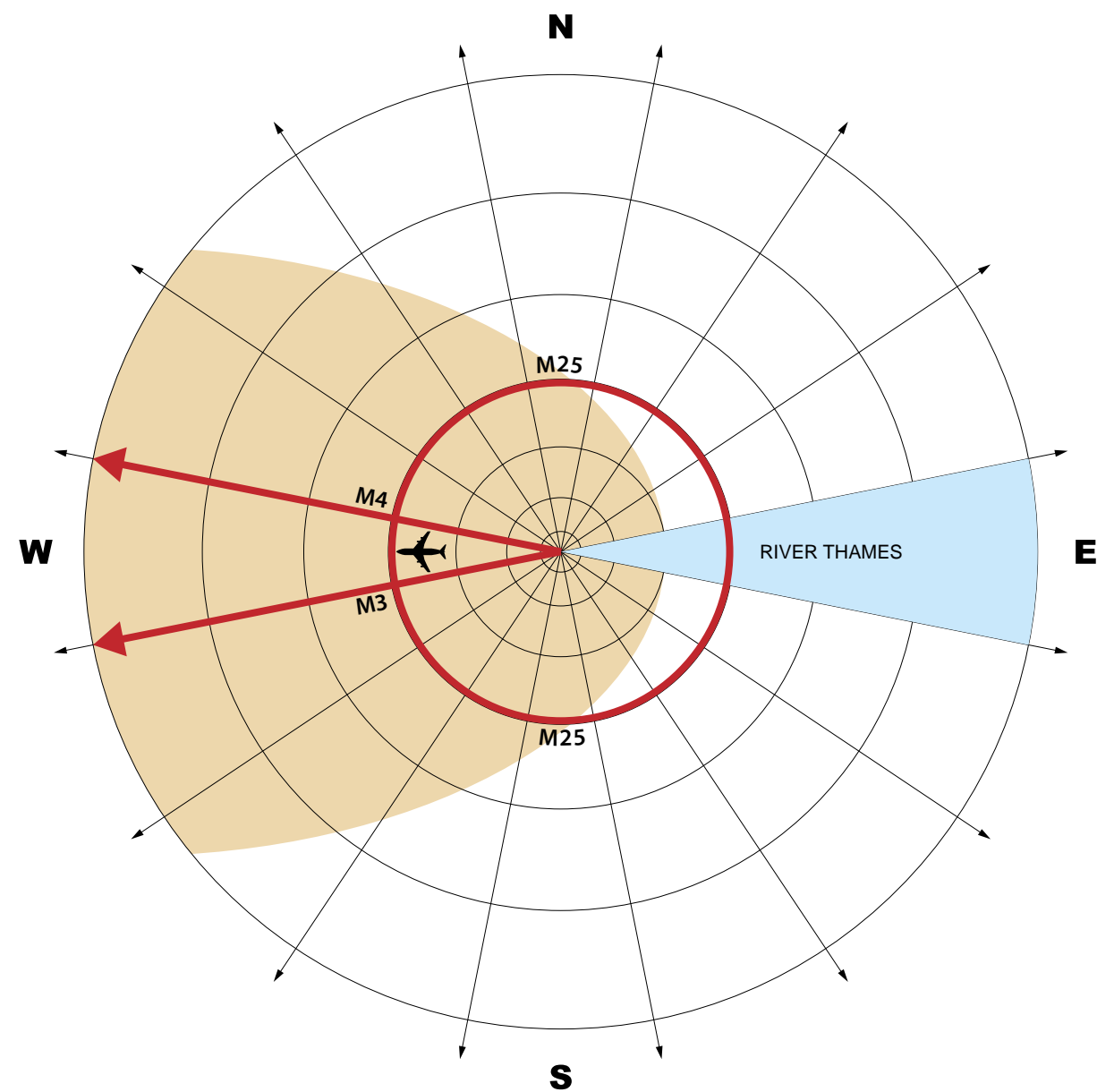
CONTINENTAL AXES

EXISTING AND EMERGING AXES

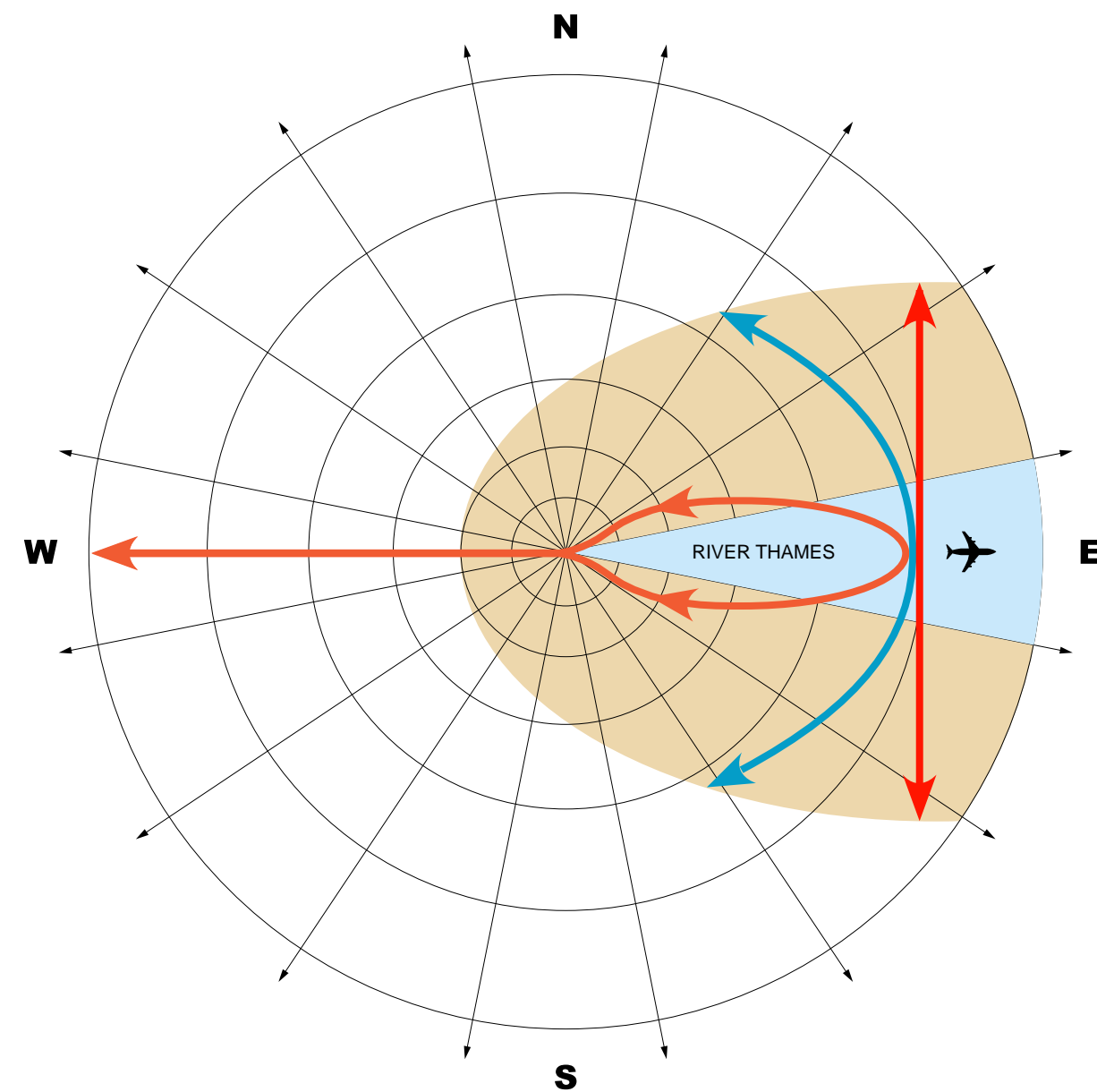


AGGLOMERATION BENEFITS

TRANSPORT NETWORKS AND GROWTH AREAS IN LONDON



HISTORIC SYSTEM
GROWTH IN THE WEST

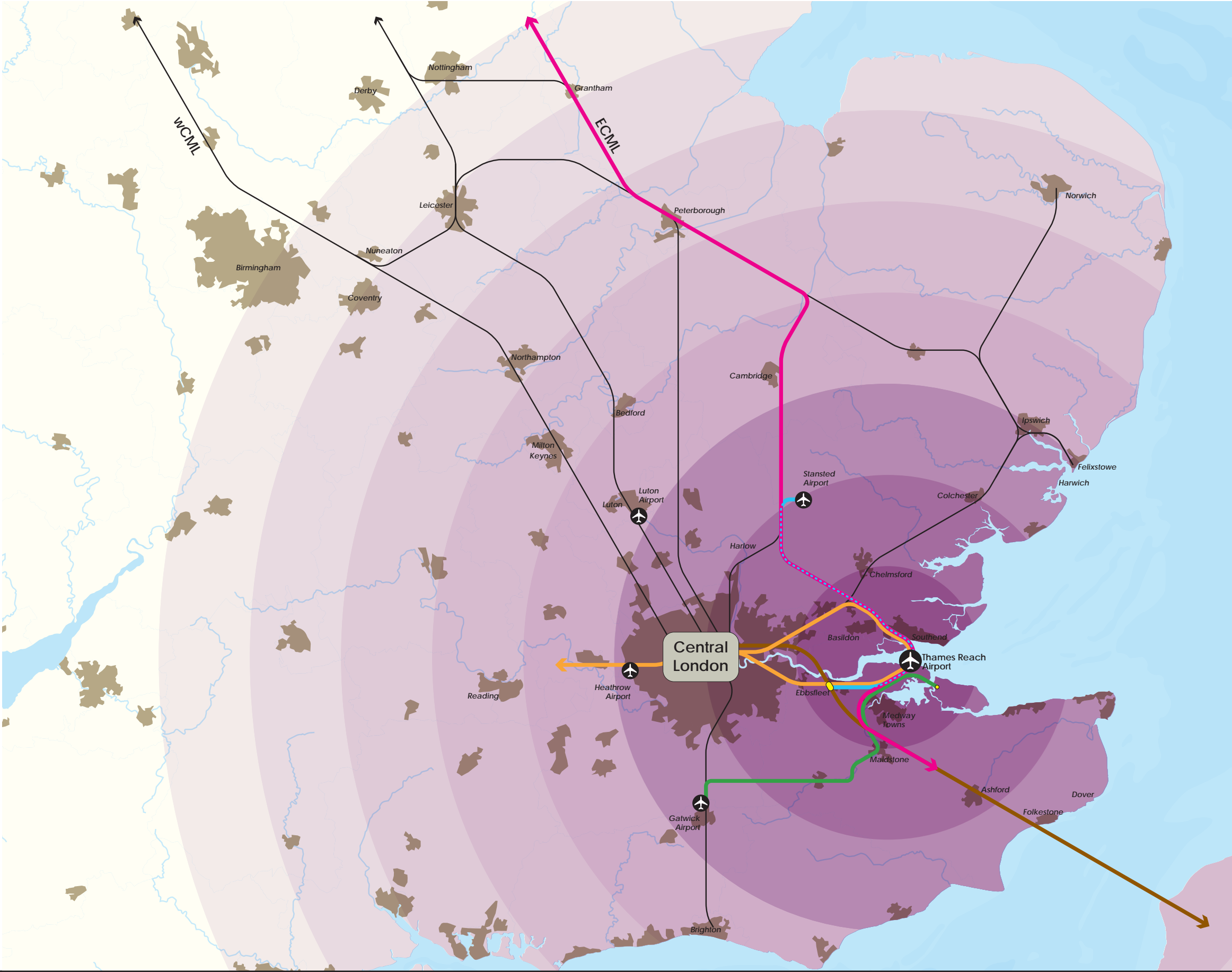


PROPOSED SYSTEM
GROWTH IN THE EAST

AIR RAIL CATCHMENT FOR THE NEW HUB

SOUTH EAST NETWORK AND UK PASSENGER LINKS

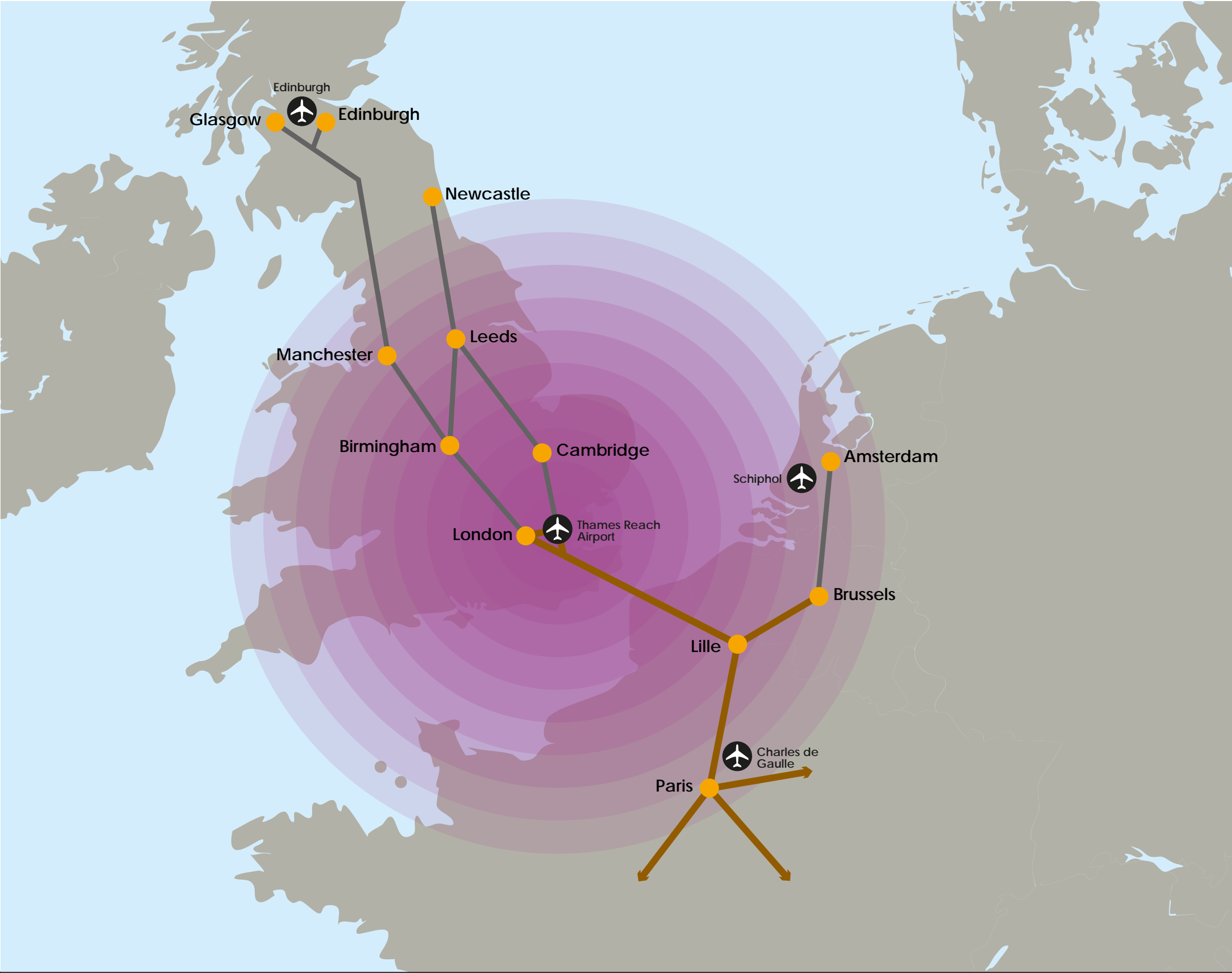
- CROSSRAIL PLUS
- ESSEX CROSS COUNTRY
- MEDWAY VALLEY LINE
- HS1 - ECML LINK



AIR RAIL CATCHMENT FOR THE NEW HUB

UK AND INTERNATIONAL NETWORK

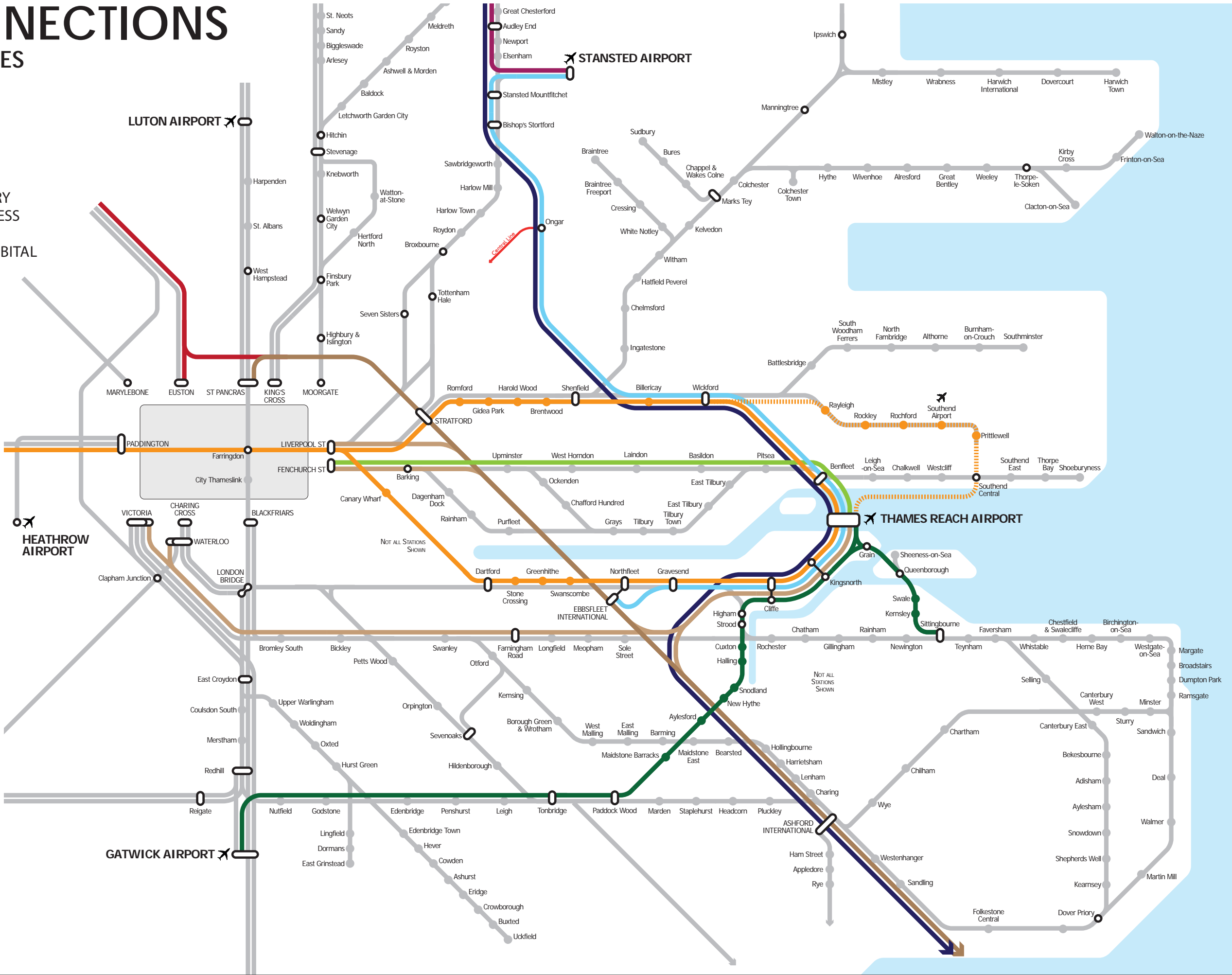
- HIGH SPEED RAIL
- CONVENTIONAL RAIL



RAIL CONNECTIONS




SOUTH EAST SERVICES

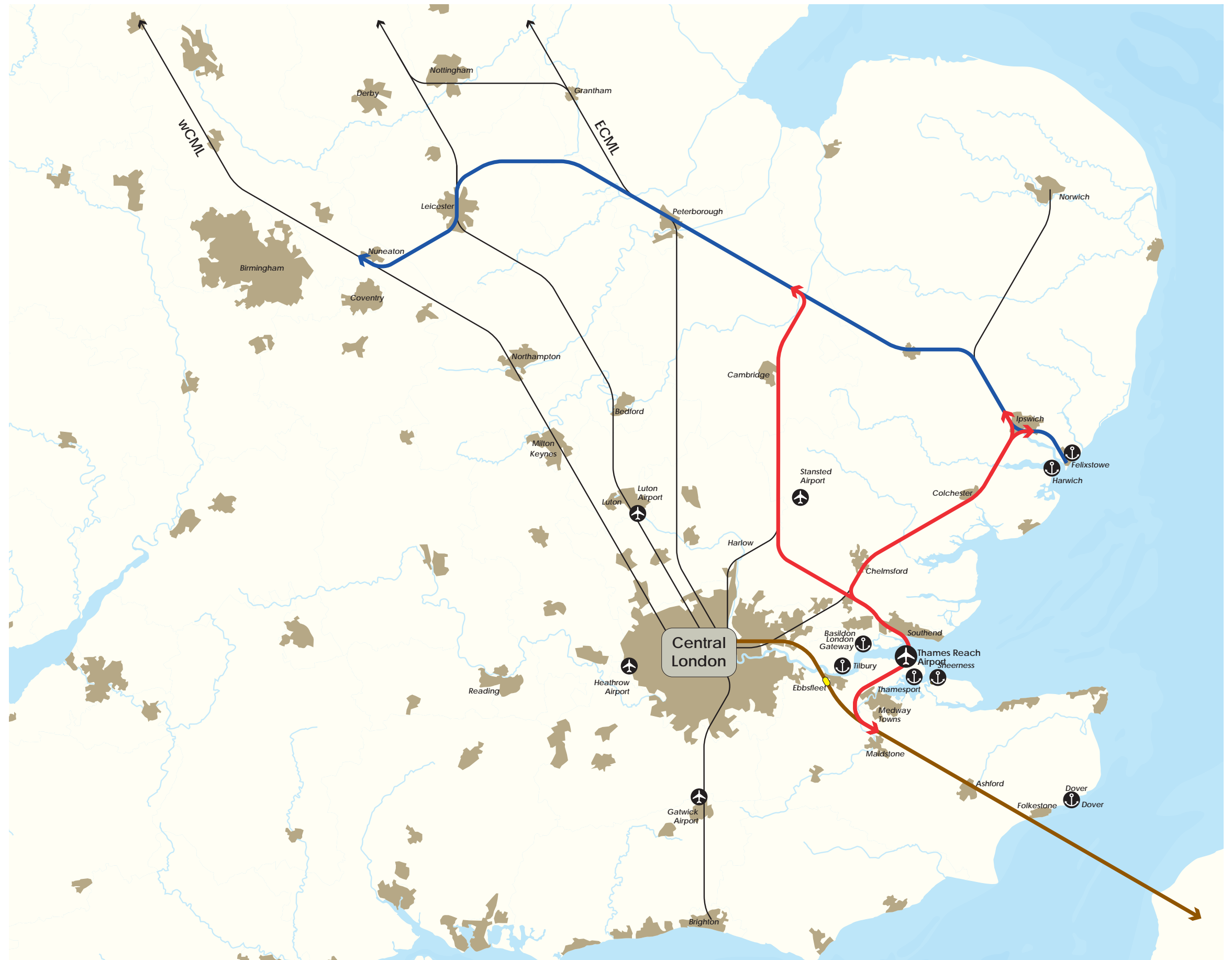
- HS1
- HS1 - ECML LINK
- WEST COAST MAIN LINE
- CROSSRAIL PLUS
- ESSEX CROSS COUNTRY
- MEDWAY VALLEY
- MIDLANDS CROSSCOUNTRY
- FENCHURCH STREET EXPRESS
- AIRPORT EXPRESS LINES
- OPTIONAL CROSSRAIL ORBITAL



RAIL CONNECTIONS

FREIGHT LINKS

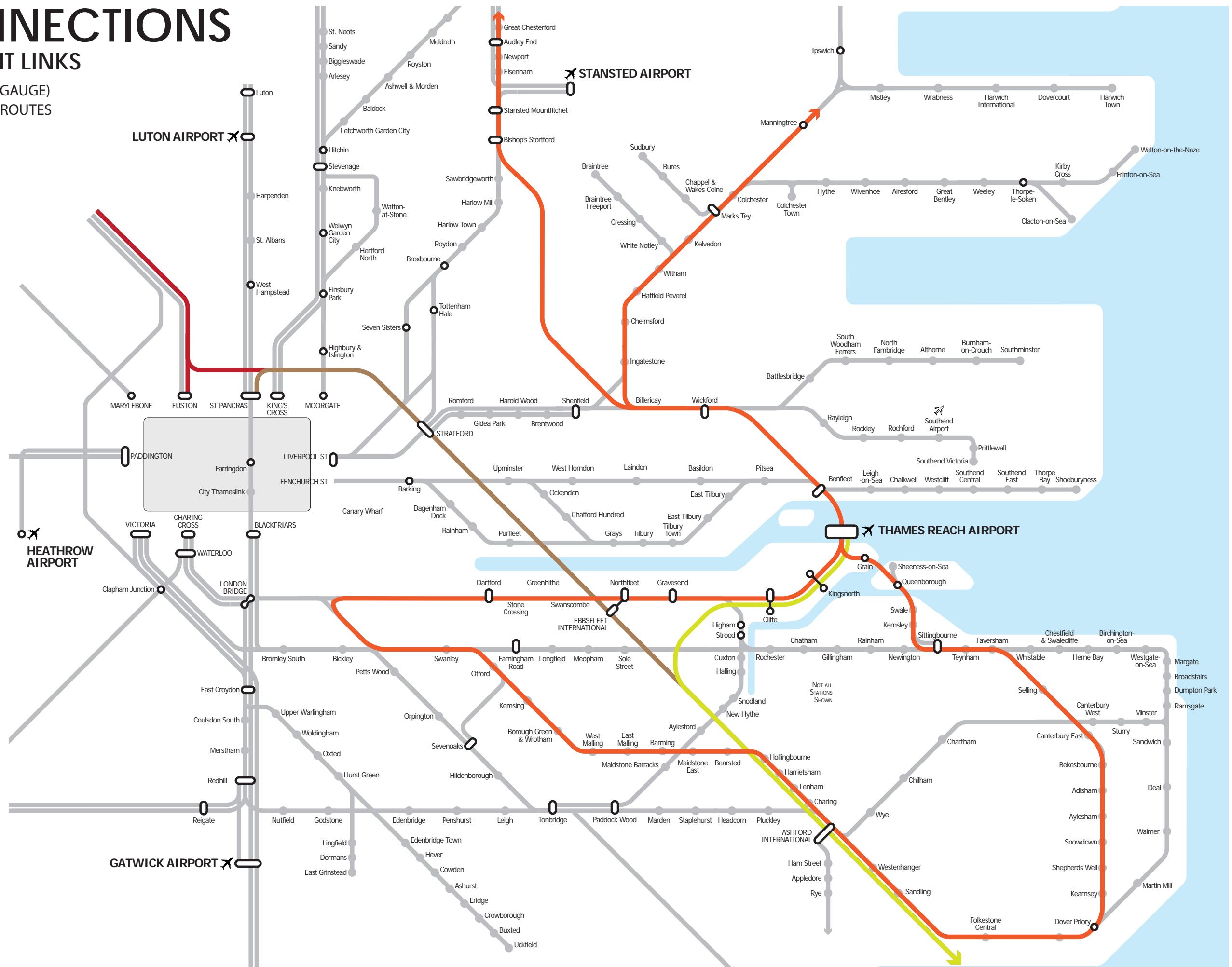
-  HIGH SPEED 1
-  FELIXSTOWE TO NUNEATON ROUTE
-  METROTIDAL LINKS



RAIL CONNECTIONS

SOUTH EAST FREIGHT LINKS

- HIGH SPEED FREIGHT (GC GAUGE)
- CONVENTIONAL FREIGHT ROUTES
- HS1
- OTHER ROUTES

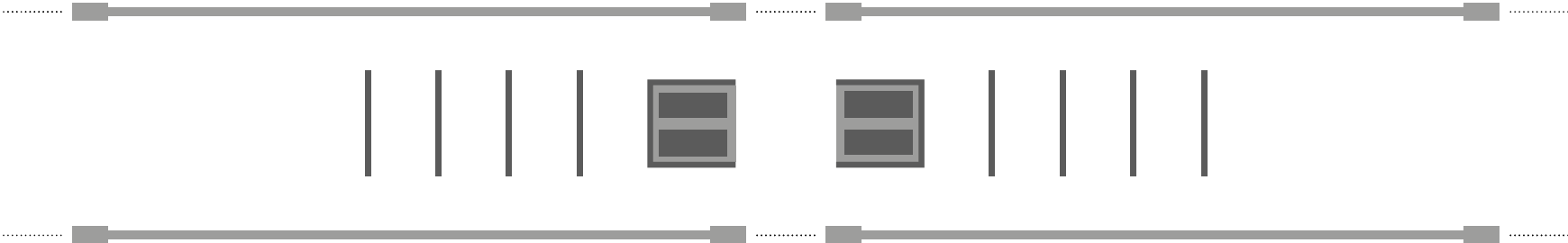


RUNWAY CONFIGURATIONS

3 WIDELY-SPACED RUNWAYS



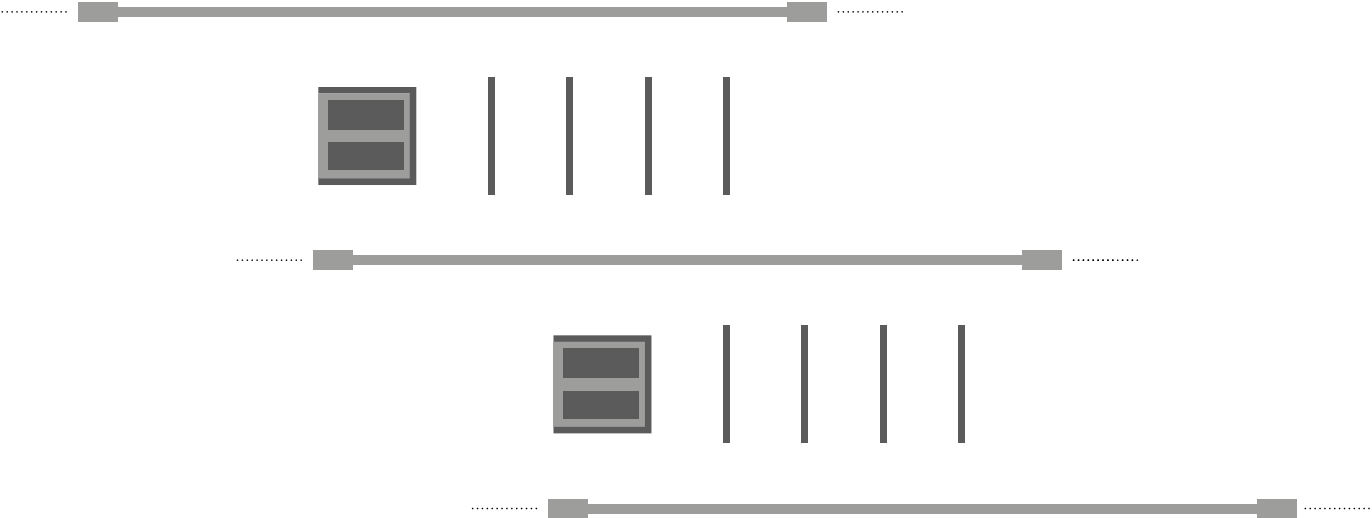
2 LONG RUNWAYS



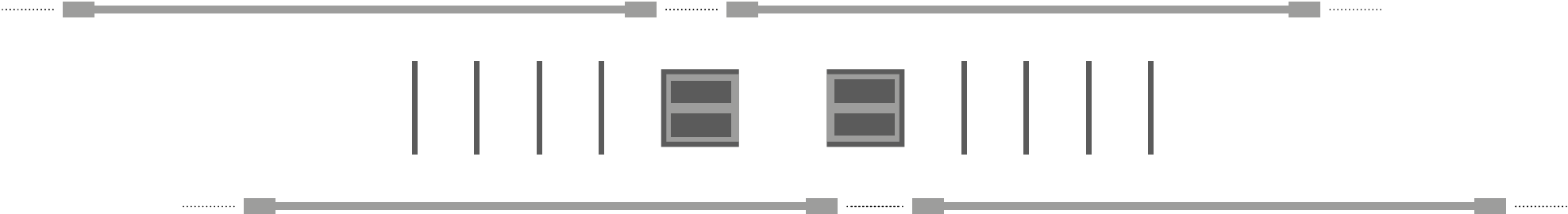
RUNWAY CONFIGURATIONS

OFFSET RUNWAYS

3 WIDELY-SPACED RUNWAYS



2 LONG RUNWAYS



PHASING SUMMARY

THAMES REACH AIRPORT PHASE 1



PHASING SUMMARY

THAMES REACH AIRPORT PHASE 2

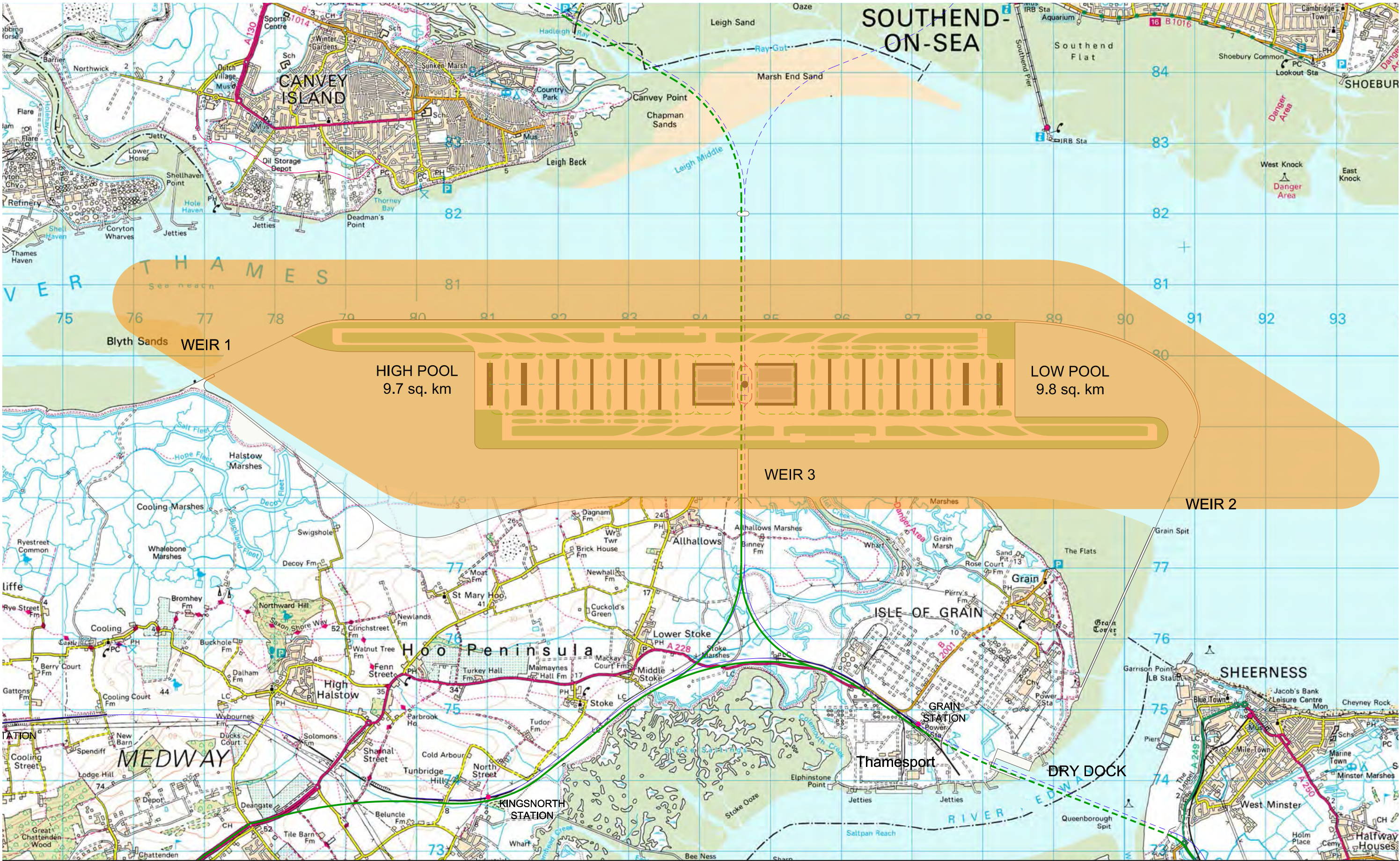


PHASING SUMMARY

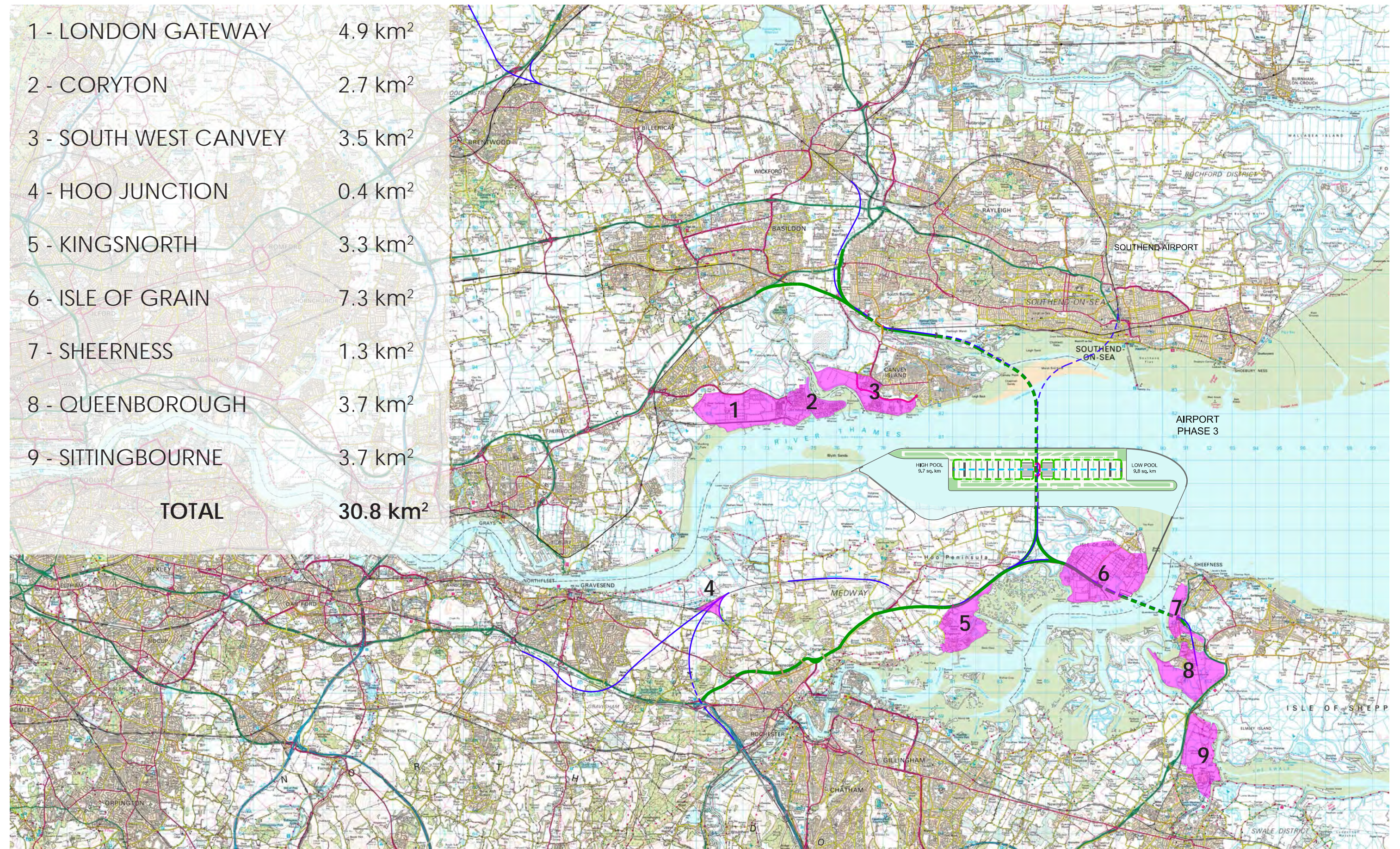
THAMES REACH AIRPORT PHASE 3



AIRPORT PROTECTION ZONE



ANCILLARY DEVELOPMENT ZONES



METROTIDAL TUNNEL AND THAMES REACH AIRPORT

PROJECT PROGRAMME AND COSTS

METROTIDAL TUNNEL AND THAMES REACH AIRPORT : PROJECT PROGRAMME AND COSTS

METROTIDAL TUNNEL				THAMES REACH AIRPORT					TOTAL TUNNEL AND AIRPORT COST
DATE	METROTIDAL TUNNEL	£bn	TOTAL £bn	mppa*	AIRPORT PHASES	£bn	ENVIRONMENTAL MANAGEMENT £bn	£ TRA TOTAL	
2016	Hadleigh-Allhallows Tunnel start	0.5	0.5	-	-	-	-		0.5
2018	Impoundments and Weirs	1.0	1.5	-	Thames Reach Airport Start	-	0.5	0.5	2.0
2020	Hadleigh-Allhallows Tunnel with Crossrail Plus	1.0	2.5	-	First Phase Platform Construction	1.0	0.5	2.0	4.5
2022	Sheppey Tunnel and Medway Valley Line	1.0	3.5	-	First Phase Platform Completion	3.0	1.0	6.0	9.5
2024	Direct HS1 connection	0.5	4.0	90	First Phase Open # 2 Runways, 1CTA, 4 Satellites	5.5	0.5	12.0	16.0
2026	Essex Cross Country Line	1.0	5.0	90	Second Phase Platform Construction	2.0	0.5	14.5	19.5
2028				90	Second Phase Platform Completion	3.0	1.0	18.0	23.0
2030				180	Second Phase Open 4 Runways, 2CTA, 8 Satellites	4.5	-	23.0	28.0
TOTALS			5.0	180		19.0	4.0	23.0	28.0
				mppa* Includes air-rail substitution					
				Open # Includes £1bn for London Express Connections					