

# **London's Big Projects**

**Douglas Oakervee  
Chairman  
Crossrail**

© 2009 DRBF

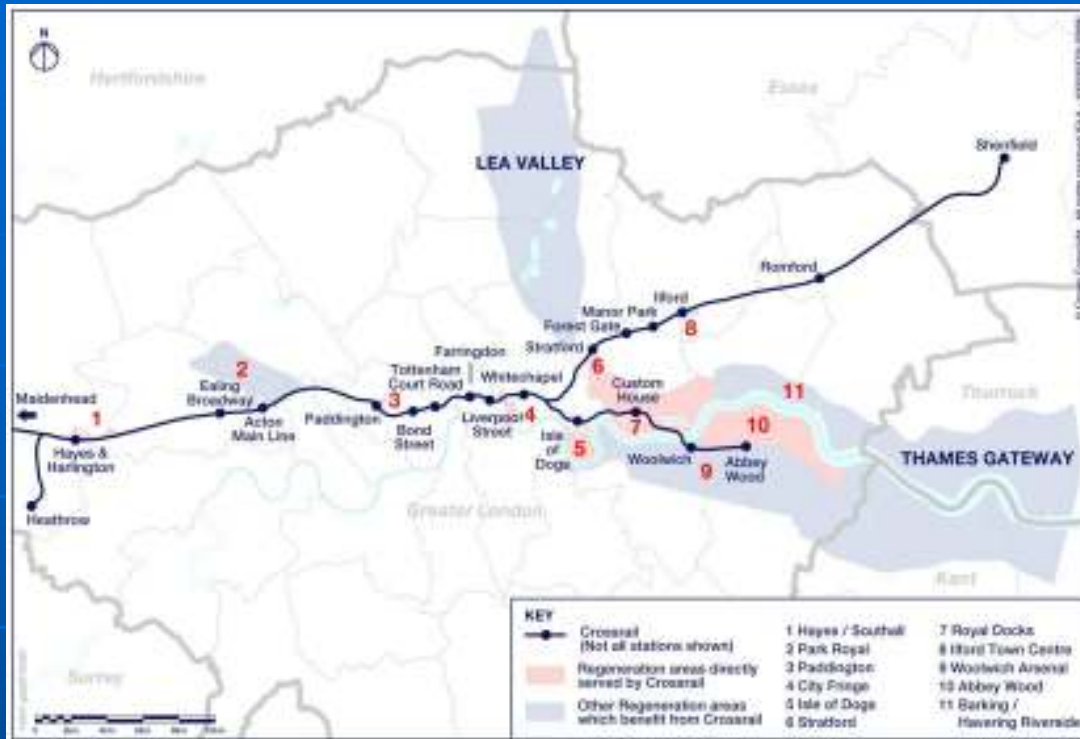


***a world-class,  
affordable railway  
delivered through  
effective  
partnerships and  
project excellence***

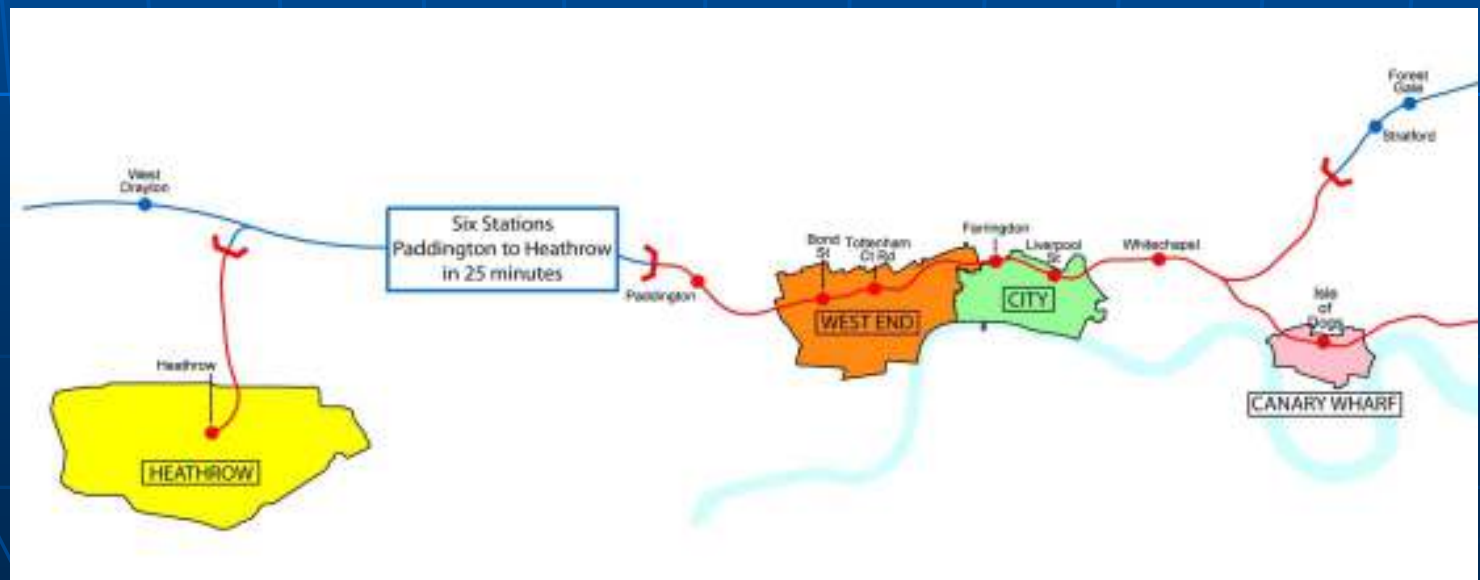
# Start of Construction



15 May 2009



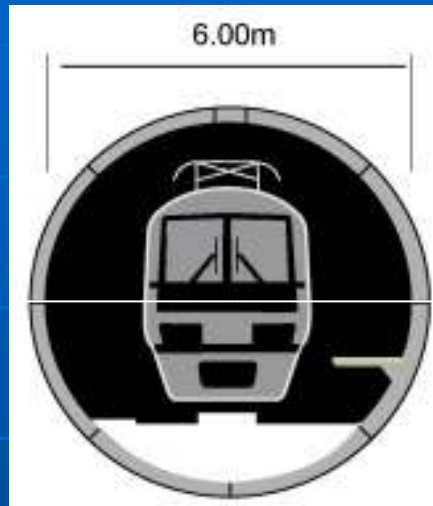
# Linking London's key business and regeneration areas



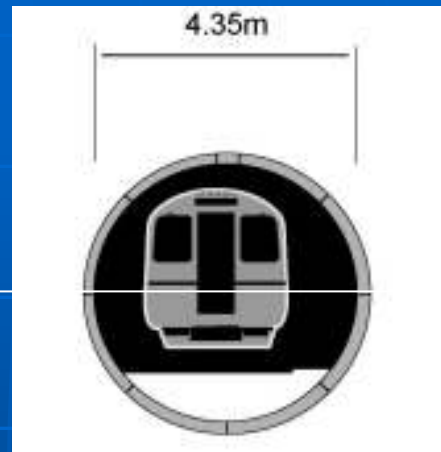
# Tunnelling Strategy



# Comparative Running Tunnels



CROSSRAIL



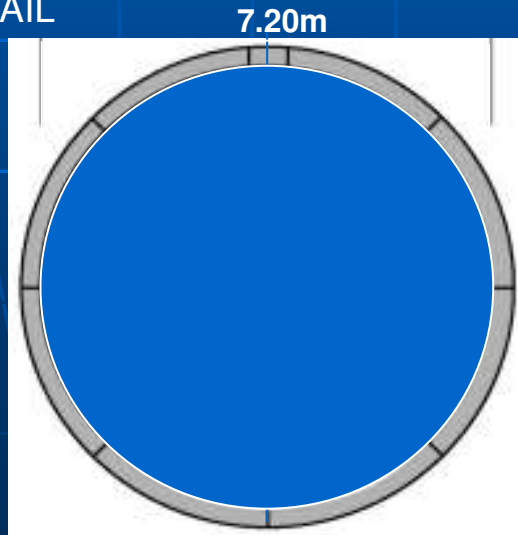
JUBILEE LINE EXTENSION



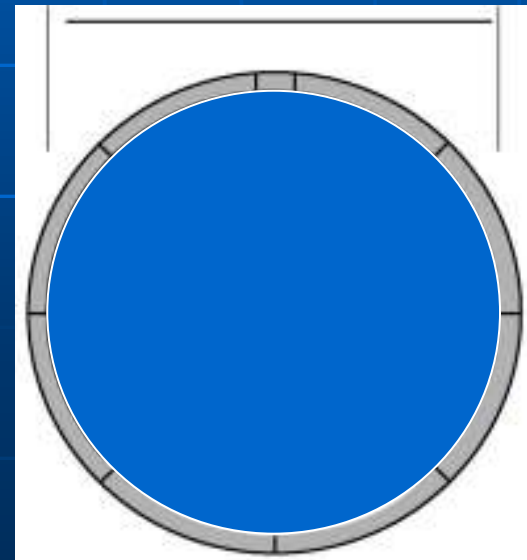
VICTORIA LINE

7.15m

ALL DIMENSIONS  
REFER TO  
INTERNAL  
DIAMETER



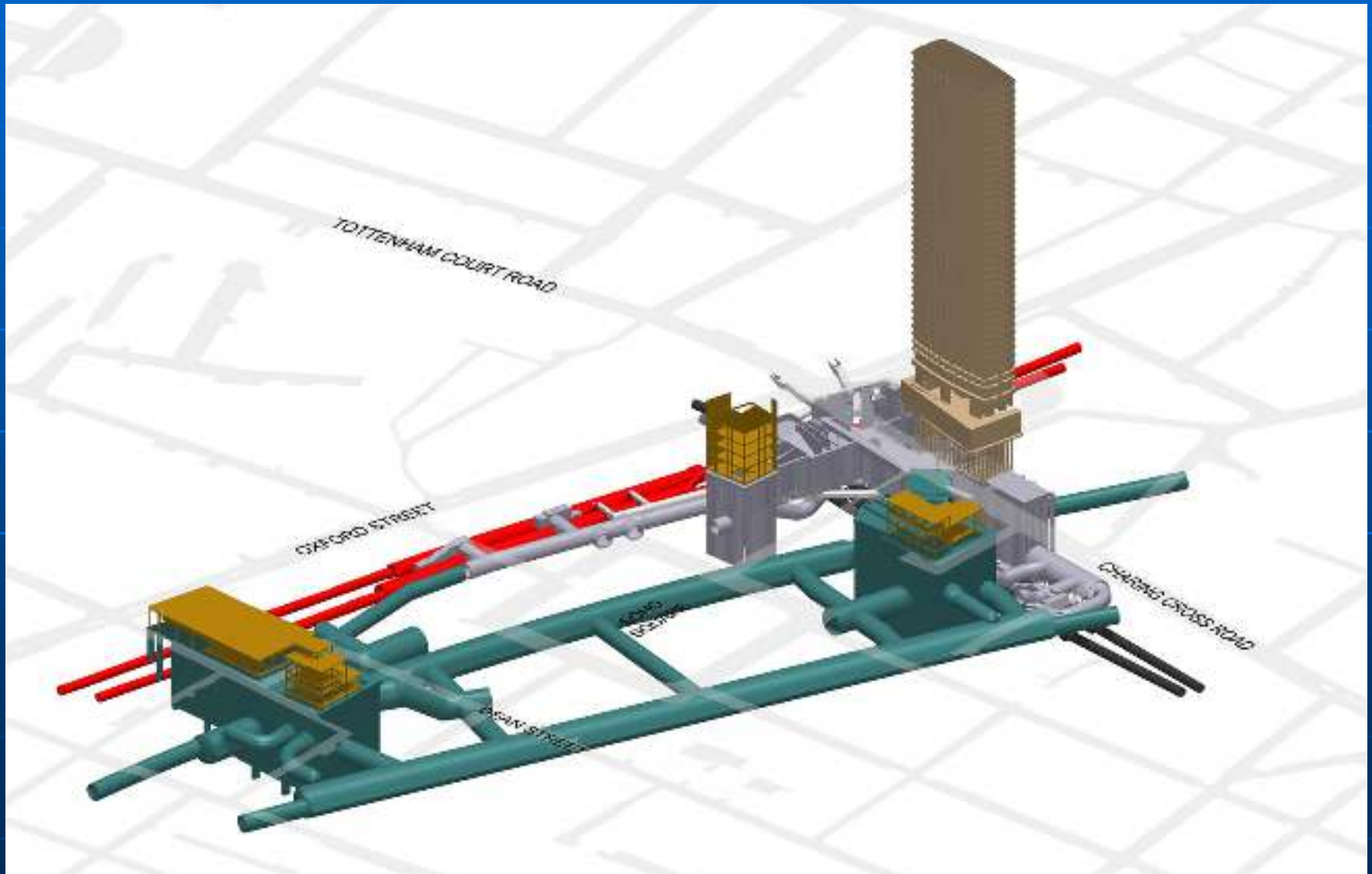
THAMES TIDEWAY



CHANNEL TUNNEL RAIL LINK



# Tottenham Court Road



# Tottenham Court Road



# Funding

## TfL Underwritten

■ GLA (NNDR debt)	3.5
■ TfL – core contribution	2.7
■ LU Interface savings	0.4
■ Sales of surplus land and property	0.5
■ Developer contributions	0.3
■ London Planning Charge	0.3
	<b>7.7</b>

## DfT Underwritten

■ DfT grant contribution	5.1
■ BAA / City Corporation (guaranteed)	0.5
	<b>5.6</b>

## Other (incl unguaranteed)

■ Network Rail (ONW)	2.3
■ Depot (Operating Lease)	0.5
■ City Corporation (additional)	0.1
■ Less other residual costs	(0.4)
	2.5
■ <b>TOTAL SOURCES</b>	<b>15.9</b>



# Olympic Park Site – before demolition



# Progress on London 2012





# Delivering the venues and infrastructure

## Six Phases of the Project:

- Planning (up to Spring 2007)
- Demolish, Dig Design (up to Beijing Games)
- **Big Build (up to summer 2011)**
- Test Events (to Games 2012)
- 2012 Olympic and Paralympic Games
- Games Legacy (post 2012)



# The Big Build: Foundations

- All the pylons from the Olympic Park have been removed
- Construction has started on 11 bridges and underpasses
- Construction of the Primary Substation and Energy Centre underway



# The Big Build: Foundations

- Olympic Stadium foundations completed, upper and lower tier seating support being installed, and roof erection begun
- Aquatics Centre foundations completed, work on roof begun
- Velodrome construction underway





# The Big Build: Foundations

- Village construction underway with foundations for 4 of the 11 blocks completed
- Work to increase capacity at Stratford Regional Station underway and increased capacity on DLR
- Enhancements at Weymouth and Portland completed













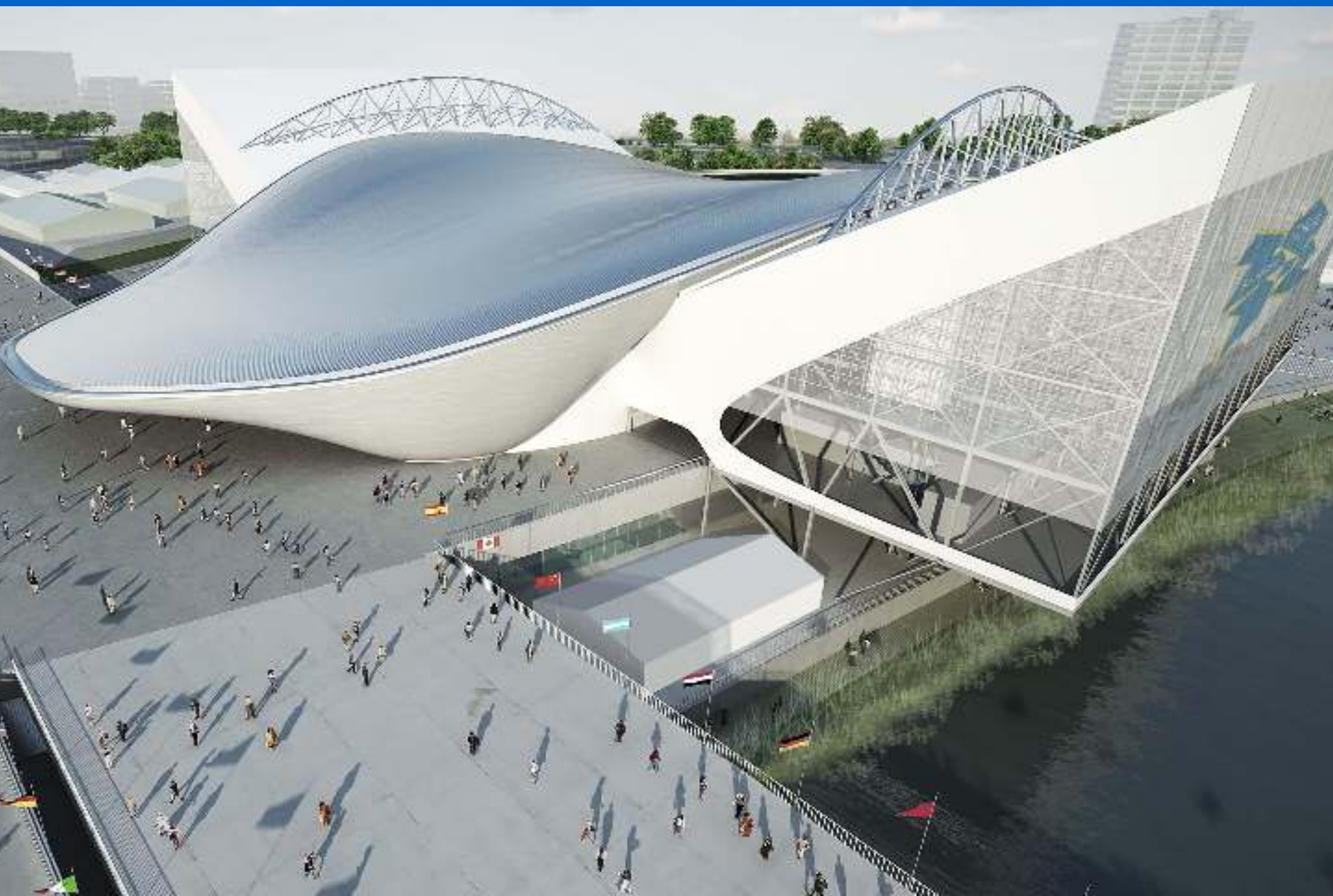






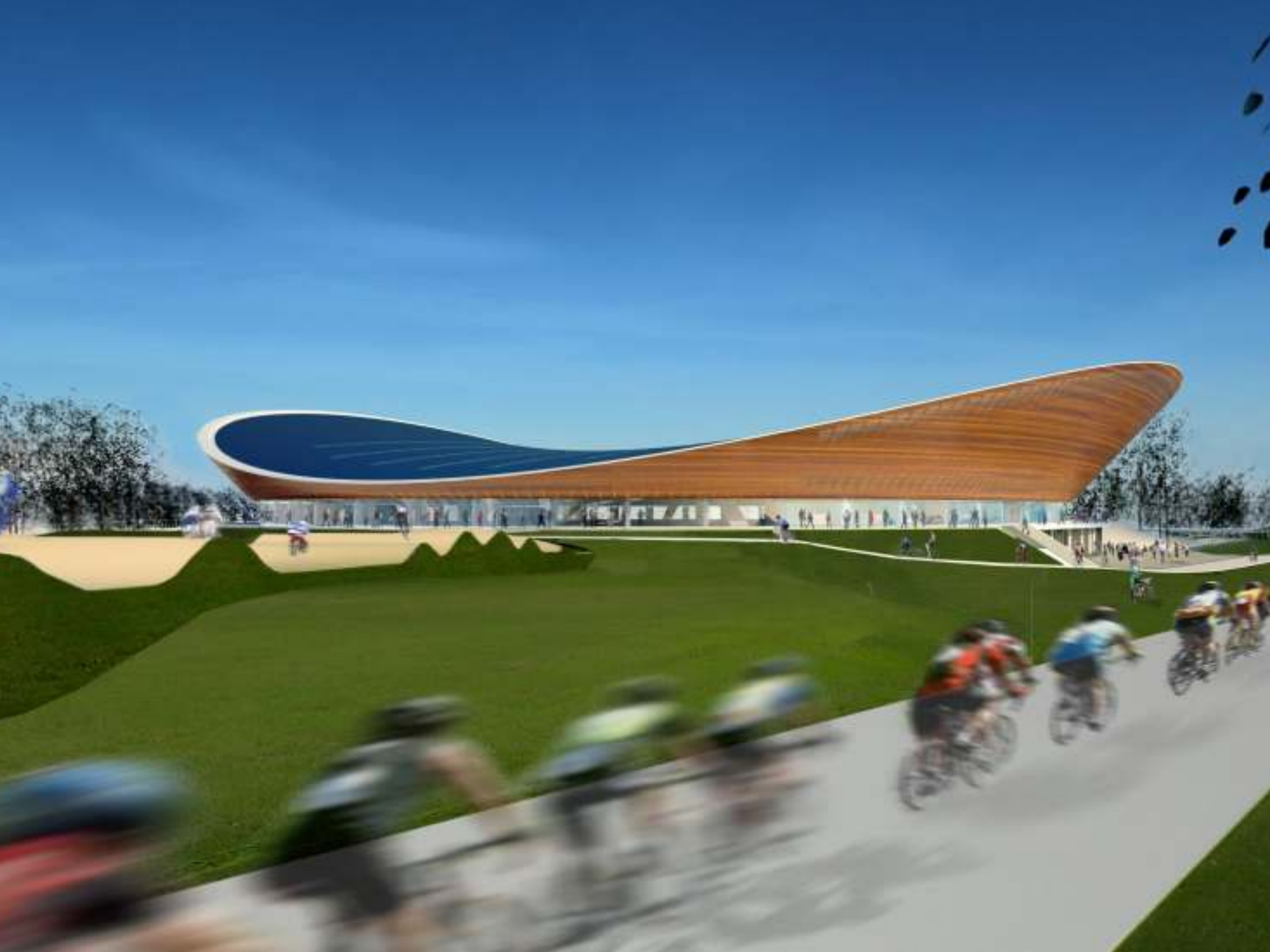


























North Facade of

# Thames Estuary



# Other Major Infrastructure Schemes



# Heathrow Environmental Challenges

# Hong Kong Airport





# UK and Dutch Proposals

London Estuary  
Airport Plan



Dutch Plans



# Obstructions in the Estuary





# Shipping and Birds

