Europe's Hub Airport: Connects City Regions and London to the World
London Britannia Airport: **Why a hub airport in The Thames Estuary?**

- Build on the Government’s 1968 - 1970 Roskill Commission findings; that there is a case for airport expansion, and Royal Assent given in 1973 for an Estuary airport at Maplin.
- Assist and serve long term UK economic growth and demand for international trade and connectivity, that risks being absorbed by French, Dutch and German competitor airports.
- Spur rebalancing of the UK economy from south and west, to east and north.
- Build quickly on relatively unfettered “blue-greenfield” Estuary water, distinct from harder to deliver competitor schemes encumbered by human & physical impediments, and birds.
- Celebrate UK status as culture incubator; for thought, knowledge & trade with the world

**London Britannia Airport Precis:**

- Unencumbered “blue-greenfield” site
- Deliver in the shortest period of time at £47bn cost: no land assembly & planning delay
- The seed for significant consequent development of the Thames Gateway Area:-
  - Direct and indirect new employment, service and engineering industry spin-offs
  - Consolidation and revitalisation of historic Thames Gateway communities
  - Developed connective public transportation networks, homes, schools, university & technical colleges, R+D centres, hospitals, cultural facilities and parks
- Exemplar world hub airport; operationally uniquely efficient, streamlined experience
“As the world economy changes and global power shifts to the east, the constrictions of London’s hub airport are becoming ever more apparent and ever more damaging....... to do nothing would lead to economic stagnation.......it is vital that a location for extra runway capacity is found for London to remain one of the leading world cities.”

Boris Johnson 27 October 2010
Anticipate London & UK Growth - Recycle Heathrow; a New London Borough

The London Borough of Heathrow; a technopolis centre for regional high technology enterprise, new homes and parkland for 300,000, direct and indirect employment for over 200,000 people.

Rebalance London’s development map from Victoria to the Royal Victoria Docks via the Lea Valley to the Thames Gateway.

Reverse the polarity of London: Rebalance regional economy.
Re-Vitalise Thames Gateway: A New Global Airport & World Trade Hub

A reframed vision for the Thames Gateway National Priority Area for Regeneration will re-vitalise historic estuary communities as participants in economic growth.
“The new London Britannia Airport concept plan gives London the airport it will need to support its world city status into the 21st century. It also provides a solution to the challenge of incorporating London’s expected growth in population of 2m and a facility which can be linked to the whole of the UK while both the East and West of London will each benefit from regeneration.”

*Bridget Rosewell OBE, CEO TESTRAD*
“Passenger demand for London’s airports is forecast to increase from 127 million passengers a year in 2010 to 300 million passengers a year by 2031” (Greater London Authority Report)

Concept:
The Thames Estuary is a resonant & magisterial place: Airport re-location will regenerate the historical origin of UK trading and exchange with the world

Response:
Ready to go “blue - greenfield site”; low impact on nature & population
Revitalisation of regional economy to meet jobs and housing regeneration targets
Connectivity developed for existing infrastructure: regenerate historic communities
6 runways with triple & quadruple independent landing and takeoff
Long term flexibility for expansion, and 24 hour operation
Redefined user experience, special to London, the UK and Europe
Regional Connectivity;
A fulcrum for the national economy, distributes economic and cultural benefit
High speed rail connection to UK City Regions & Europe
2 + new airport terminals within the core city and Thames Gateway area
High speed rail links to London and the London Borough of Heathrow
High speed rail link to Gatwick and Stansted airports

Passenger Connectivity;
Passengers would access a new six runway hub airport via
existing high-speed rail, a one stop extension to Crossrail,
an enhanced direct rail link to Waterloo and a
dedicated direct high speed link to a central London check in
Indicative Access Routes

- MOTORWAY
- HS1 - CONNECTION TO EBBSFLEET & EUROPE
- HS2 - CONNECTION TO NORTH
- CROSSRAIL
- CROSSRAIL EXTENSION TO EBBSFLEET
- FAST DIRECT LINK TO WATERLOO
- RAIL LINKS SOUTH WEST LONDON & SOUTH WEST

- NEW HIGH SPEED RAIL CONNECTION (AIRSIDE)
- NEW M2A CONNECTOR ROAD
- SERVICE TUNNEL ACCESS TO AIRPORT (ROAD & RAIL)
- FUTURE HIGH SPEED DEDICATED LINK (18 mins FROM CENTRAL LONDON CHECK IN)
- HUB / CHECK IN LOCATION / AIRPORT
- MAIN TRANSPORT INTERCHANGES
- MARITIME LINK
- THAMES GATEWAY AREA
Airport of the Future;

London Britannia Airport connects the UK and Europe to the rest of the world

Quickly realised on unencumbered estuary water; no birds, industries or homes to move
Optimum location, environmental impact minimised, < 50 persons affected by noise
Catalyses regeneration of Thames Gateway National Priority Area
£47bn competitive cost, 7 year construction period after approvals:
“Blue-Greenfield Site” - no land = no land assembly and planning delay
£45bn (min.) Heathrow site development value, to be partially captured to aid delivery
Nexus for rail, metro and sea access
Eased, convenient passenger experience
On-shore check-in, fast transfer to airport platform
1. Departure Concourse
2. Multi-modal Transit Exchange
3. International Ferry Terminal
4. Domestic Ferry Dock
5. Air Traffic Control Tower
6. Runway
7. Western Logistics Dock
London Britannia Airport;

The most ambitious of all the airport proposals for an unencumbered site, least contentious, quickest and most cost effective solution

This £47bn investment will reverse the polarity of London and facilitate regeneration of the Thames Gateway National Priority Area. Employment opportunities in service, technology, engineering and myriad other industries will grow to serve existing historic Thames Estuary communities, and boost the regeneration of inner East London.

- World leading innovative concept for an unencumbered, low impact site
- Propels a new wave of inspirational economic and cultural development
- Maximum adaptability, flexibility and improved safety
- An evocative and memorable presence, re-inscribes estuary history; a magisterial portal for UK trade with the world
Britannia’s maritime location lessens noise contours over high density population centres in London, reduces the environmental impact by organising flight paths over low to zero density housing and provides ample space for future expansion without disrupting existing urban areas.
The Big Picture.

LONDON BOROUGH OF HEATHROW
Rebalance London's economy with 200,000+ new jobs
300,000+ people in new homes
New London Borough centred around R&D, new industry and a technopolis
New social infrastructure including education, health and culture
Landscaped parkland and water body system
Regulated car use

LONDON
United Kingdom & world connected airport hub
Develops distributed, stabilised, connected economic benefits
Innovation & business centre
Motor for economic, cultural & physical growth
LONDON BRITANNIA AIRPORT

Connect to Europe, UK cities and London
200,000 new jobs
6 runways / 24 hr. operation / £47bn cost (£7.83bn / runway)
(3rd runway at Heathrow cost = £14 - 18 bn)
30 mins from central London, on land check-in
172 million passengers per year
Sustainable rail & sea transport links
Low impact Estuary location
PART OF THE AVIATION SOLUTION: RECYCLE HEATHROW; A CITY EXTENSION FOR LONDON

- Rebalance London’s economy
- Houses for 300,000 people
- Jobs for 200,000 people
- £45bn land development value
- Long term economic growth for the city’s social and cultural development
What about Heathrow?

A city extension for 300,000 people

The outline of Heathrow in red above, superimposed over London suggests a necessary and valuable transformation of today’s highly constrained and overloaded airport site; its minimum £45bn development value can be partly captured to aid delivery of a new hub airport on relatively unfettered, available Estuary water.
London’s New Borough

A clear narrative of social, economic and physical transformation for London:

- Complementary housing densities and characters built around a technopolis, cultural & business centre
- Focuses the region’s high technology engineering enterprise around BA’s listed BOAC era maintenance hangars; the Cathedrals for the Jet Age at Hatton Cross
- Complement of social & transport infrastructure enables holistic site development
- New social infrastructure - education, culture and medical centres of excellence
- Ecological parkland system of lakes, river and canal based open space
- Fast rail and road links to London, traffic impacts minimised and regulated
- Sustainable plan: optimised for high quality of life
- Energy use optimisation: recycled brownfield site

Economy & culture: future growth for London connected to UK City Regions
Under wartime legislation in 1944, the village of Heathrow and valuable farmland was requisitioned for a new military airfield. Relocation and recycling the tightly constrained Heathrow airport site as a city extension for London, will allow a transformation of acres of runway concrete into a real piece of city, with the return of bio-diversity, in gardens, lakes and a landscape park system full of trees, birds and other wildlife.
Passenger Focused Experience

Eased access and fast connections to London
Lounges for all passenger tiers
Visual connection to majestic Thames Estuary setting
Resonant & memorable interior terminal environment
Flights open 24 hours a day
Multiple uses at terminals:
Conferencing, museum outposts, sleeping pods and shopping
Streamlined end-to-end passenger experience
Fast passenger transit times
TESTRAD Consortium: TESTRAD, Royal HaskoningDHV, Gensler, Lawrence Graham, HR Wallingford

Ian Mulcahey, Managing Director, Gensler
Bridget Rosewell, CEO Testrad
Nicola Clay, Director of Marine and Coastal Environment, Royal Haskoning DHV
About TESTRAD (The Thames Estuary Research And Development Company)

Testrad was founded to develop better use of the Thames Estuary potential. Aviation is central to this vision as well as the need to regenerate the traditionally industrial east of London. Over the last decades London has once again pushed east and closer to Europe. This proposal develops that potential to the advantage of the whole of the UK.

www.testrad.co.uk

About Gensler

Gensler is a global design firm employing 3,900 people who form a collection of networked studios in 44 offices on four continents. Founded in 1965, Gensler has deep expertise in urban planning, architecture, design and consulting and is now a leader in areas as diverse as retail, aviation, workplace, sports stadia, brand strategy, hospitality and educational facilities.

www.gensler.com
‘Britannia Airport’
The new destination for international travel.

“Building this airport will be transformative for London and the Thames Estuary in a major way and have huge long-term benefits. It’s not an exaggeration to say the effects will still be felt in 500 years’ time.”

Daniel Moylan  Boris Johnson’s aviation adviser