



"the clean and green way to link Kent and Essex"



A project supported by:



KENEX Thames Transit – providing the environmentally sound, efficient solution fit for the 21st Century..

Transforming the environment and economies of the Thames Gateway.

www.kenextransit.co.uk

April 2018

The case



- Roads in area often gridlocked
- Congestion compromising bus services
- Levels of pollution seriously affecting health
- Local connectivity across the Thames often disrupted
- An area with high population density
- Disconnect of people from employment opportunities
- New and substantial developments to be accommodated

Need for congestion-busting, clean, community linking, Thames Crossing opportunity

A project supported by:



London's toxic air is even harming babies in the womb, warns report

Nicholas Cecil Deputy Political Editor

SENIOR MPs today warned that children are being "cheated of their birthright" after a shock report found toxic air is harming babies in the womb in London.

The study by scientists at Imperial College London and King's College London raised the alarm over the threat from fumes pumped out onto the capital's streets by vehicles.

It found that increases in traffic-related air pollutants, particularly tiny PM2.5 particulates, were associated with two per cent to six per cent increased odds of low birth weights and one per cent to three per cent increased odds of small gestational age.

"The findings suggest that air pollution from road traffic in London is adversely affecting foetal growth," the study published in the BMJ said.

MPs urged the Government to do more to clean up air in the capital and other cities. Neil Parish, Conservative chairman of the Commons environment committee, said the Government is failing to tackle toxic air "and we are now seeing the potential impact on unborn children." Labour's Mary Creagh, head of the environmental audit committee, said parents want their babies to have the best start in life "yet the UK's toxic air is cheating some children out of that birthright".

Poor air quality is blamed for about 9,000 deaths a year in London.

EVENING STANDARD 6 DEC 2017
LONDON

Grays, Corringham, Tilbury

Yellow Advertiser EST 1970

Thursday, March 14, 2014

WIN! DINE OUT WITH THE FAMILY See p12

PICTURESQUE At High Street, Billerica, 0207 051300

TURF & TOPSOIL Turf - 2 grades

CHOKED!

Alarming statistics highlight air quality peril

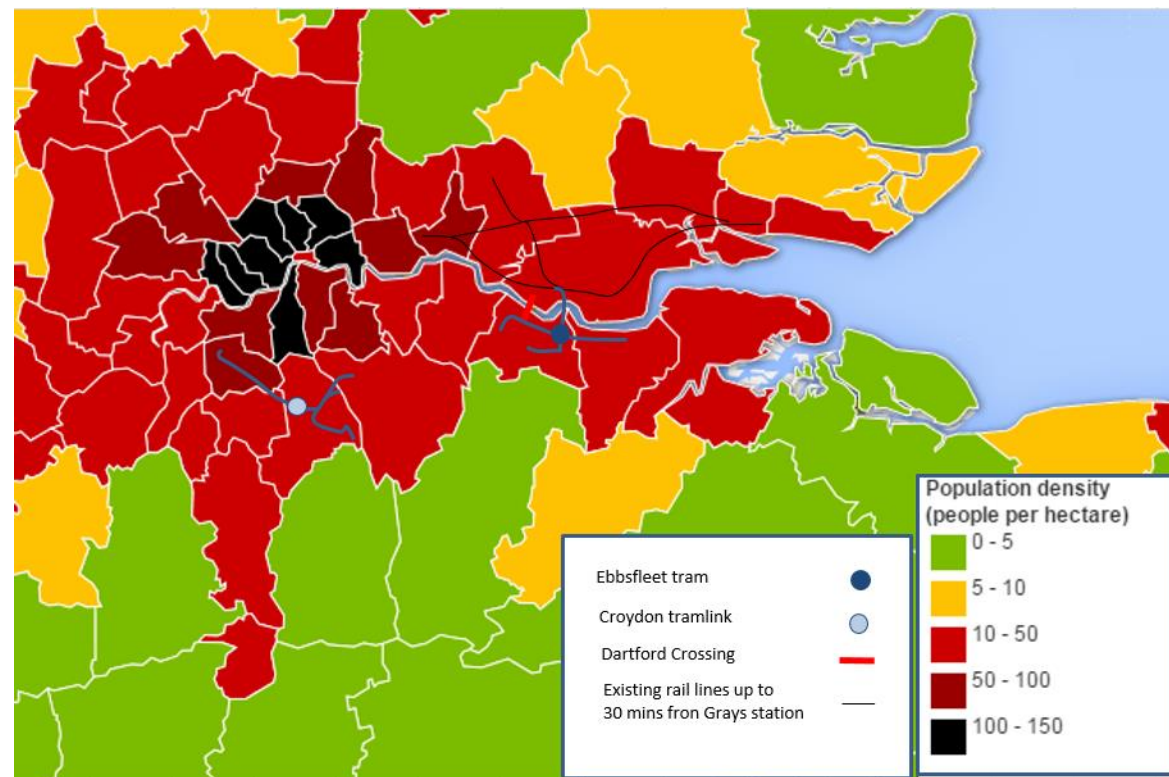
EXCLUSIVE

Thames a 2012 report warned that the air in London has reached an 'unhealthy' level. It found that the air quality is 'unhealthy' and 'dangerous' to health. The report also found that the air quality is 'unhealthy' and 'dangerous' to health. The report also found that the air quality is 'unhealthy' and 'dangerous' to health.

Potential high load factors

- Population within 45 minutes of Ebbsfleet with **KENEX Transit**
 - 1.0 m Kent Thameside
 - 1.4 m Essex Thameside
- Estimated total annual journeys (**all** transport modes)
 1. Bluewater - 58m
 2. Ebbsfleet Intl. - 4m
 3. London Resort - 36 m
 4. Lakeside - 53 m
- Annual Dartford Road Crossing in excess of **50 million** journeys

A project supported by:



Population density 2010 Courtesy of The Guardian



THAMES TRANSIT

"the clean and green way to link Kent and Essex"

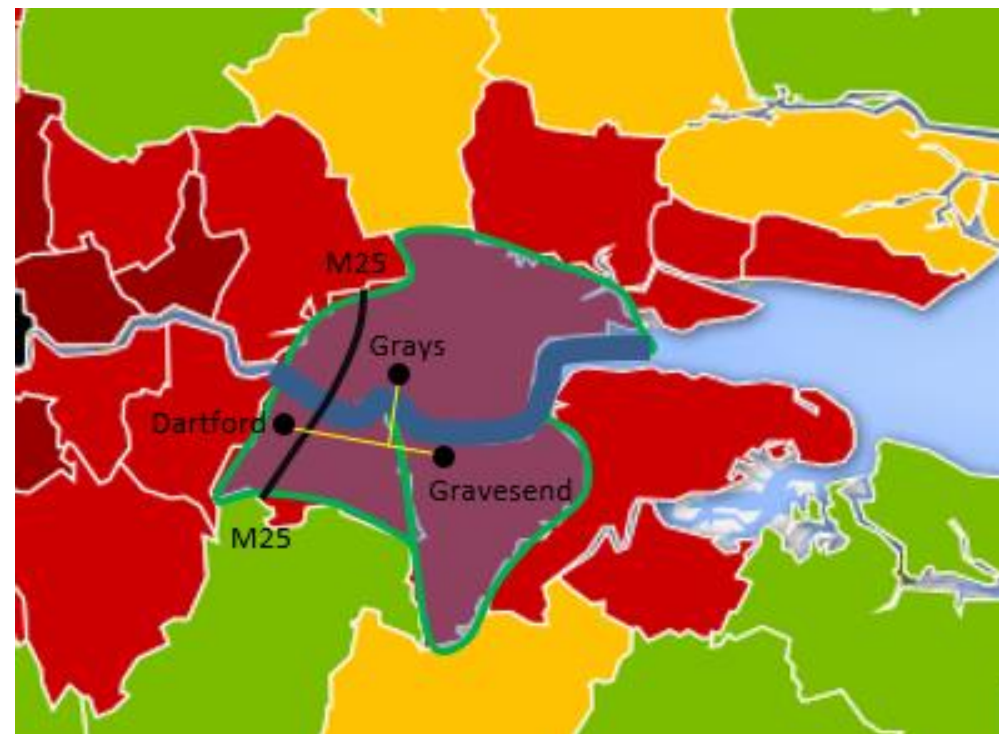
Agglomeration benefits

Key areas benefitting from agglomeration effect and economic enhancement of **KENEX** tram link:

Thurrock
Dartford
Gravesend

... the benefit also extends along existing rail corridors both sides of the Thames

A project supported by:





THAMES TRANSIT

"the clean and green way to link Kent and Essex"

Existing Dartford Crossing has high level of local usage

Car usage forced on **local** residents number around **30%** of an annual crossing level of more than **50 million car** journeys with negligible provision for non car drivers.

A project supported by:

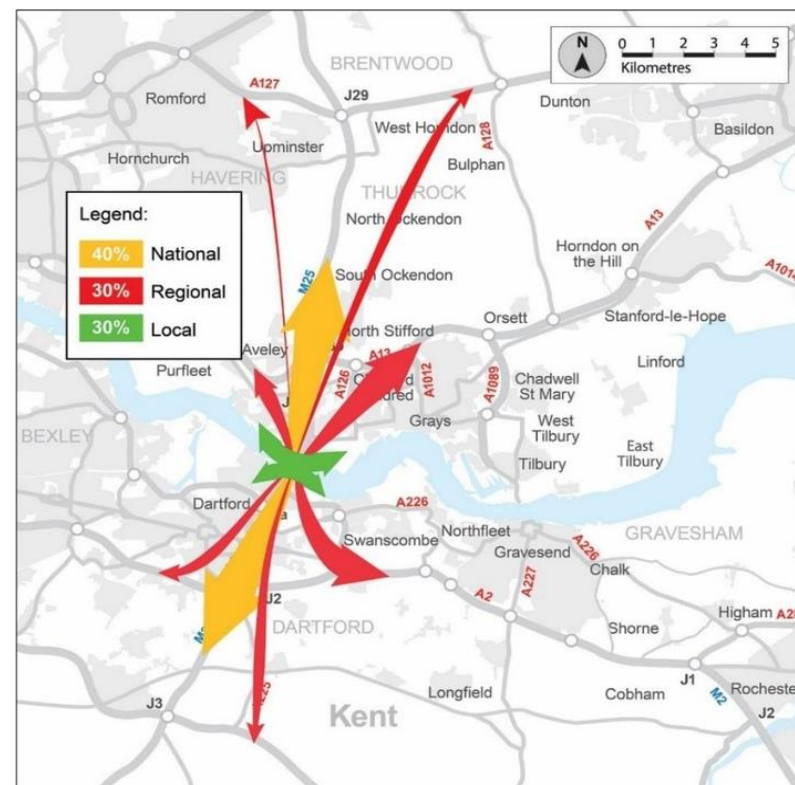


FIGURE 3.5 - EXISTING USE OF DARTFORD CROSSING



THAMES TRANSIT

"the clean and green way to link Kent and Essex"

Options currently being evaluated

Unlocking housing and economic opportunities in Thurrock and North Kent

A project supported by:

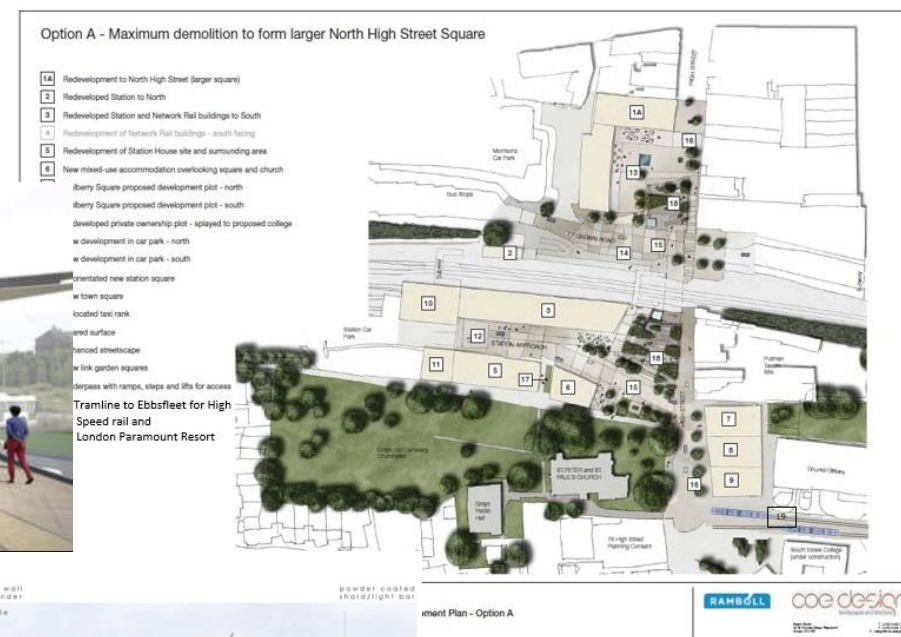


www.kenextranstransit.co.uk

April 2018

Integrated connections meeting passenger demand

Integration with Bluewater shopping centre Transit Lounge



Integration with Grays Growth Hub and Essex rail connectivity

A project supported by:

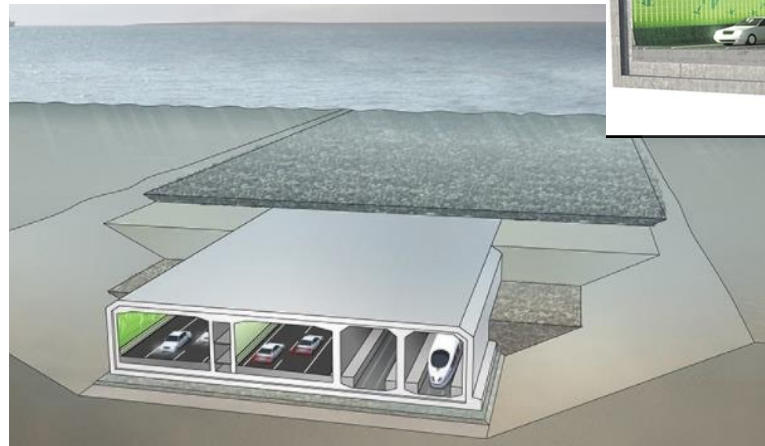
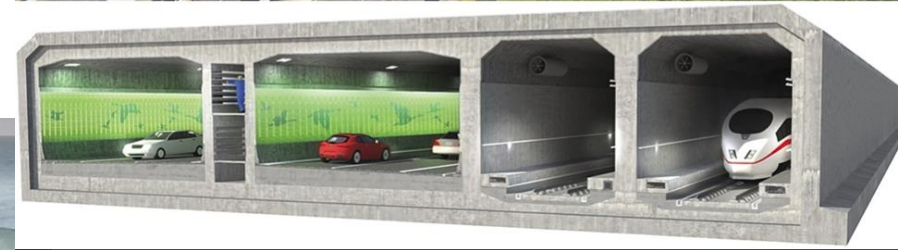




"the clean and green way to link Kent and Essex"

The proposed submerged tunnel

The proposed 1.2km, $\frac{3}{4}$ mile
KENEX tunnel uses existing
technology; a current example is
the 19km / 12mile £6bn
Fehmarn road-rail tunnel
between Germany and Denmark



Images from the Fehmarn
road-rail tunnel

A project supported by:



www.kenextransit.co.uk

April 2018



"the clean and green way to link Kent and Essex"

Costs

The cost of the proposed Lower Thames (**Road**) Crossing is estimated by the **Highways Agency at £4.4 to £6.2 billion** excluding the subsequent M25 North East quadrant upgrade. During the consultation process we were advised that there has, as yet, been no provision for non car drivers.

Pre feasibility work to date and a study based on previous similar projects indicates a total cost of the **KENEX Thames Transit** project of around **£600 million** including a Kent-Essex twin tunnel solution. The project would provide a considerably better Benefit to Cost ratio compared with the Lower Thames Road Crossing.

A project supported by:



www.kenextransit.co.uk



April 2018



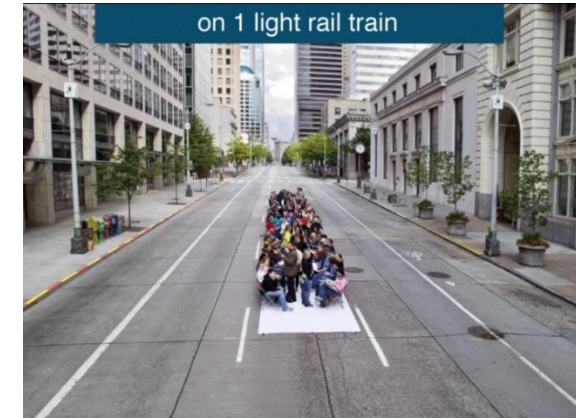
“the clean and green way to link Kent and Essex”

***KENEX Thames Transit –
An environmentally sound, efficient
solution fit for the 21st Century.***

***“This is a highly congested area already
and it’s going to get worse with all the
development planned. This exciting new
project is really the golden solution to
that problem.”***

***Baroness Randerson. Transport
spokesperson House of Lords (Liberal
Democrat) March 2018***

A project supported by:



www.kenextransit.co.uk

April 2018