



Kenex Thames Transit – providing the environmentally sound, efficient solution fit for the 21st Century.. Transforming the environment and economies of the Thames Gateway.



The case



- Roads in area often gridlocked
- 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
- Area unattractive for homes and investment
- New substantial developments to be accommodated:
- i) New homes around Ebbsfleet Garden City
- Ii) Potential major resort destination / local employment

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

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

Nicholas Cecil Deputy Political Editor

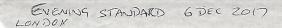
SENIOR MPs today warned that children are being "cheated of their birthright" after a shock report found toxic air is harming babies in the womb in London.

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 trafficrelated 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 Poor air quality is blamed for about increased odds of small gestational age. 9,000 deaths a year in London.

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



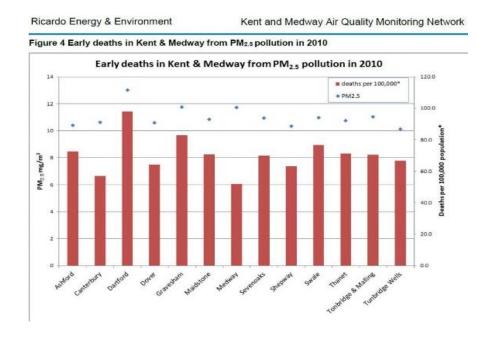


January 2018



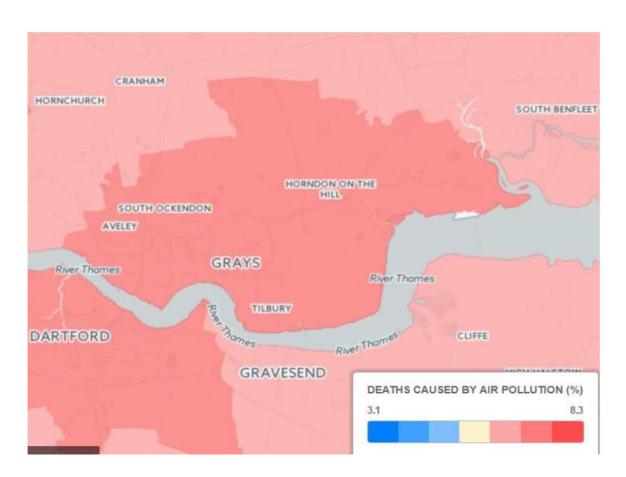
High level of local pollution

Existing dependency on road crossing seriously impacts the quality of life for local residents



Estimating Local Mortality Burdens associated with Particulate Air Pollution

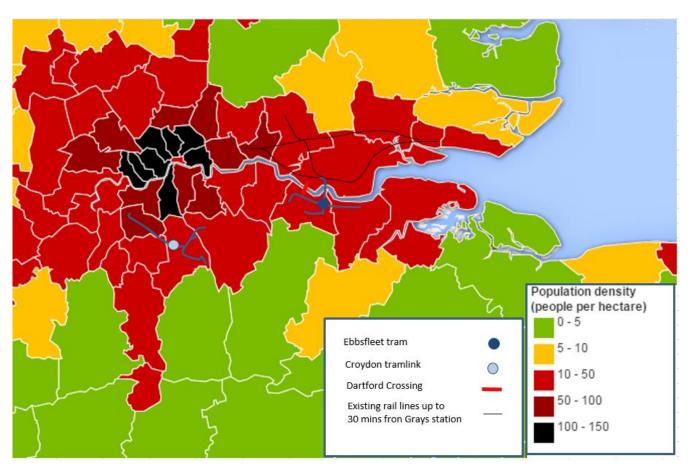
www.gov.uk/phe 2014





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. 3m
- 3. London Resort 36 m
- 4. Lakeside 53 m
- Annual Dartford Road Crossing In excess of 50 million journeys



Population density 2010 Courtesy of The Guardian



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.

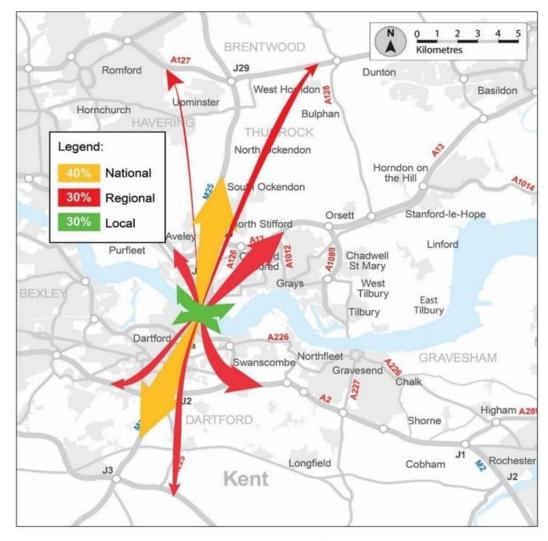


FIGURE 3.5 - EXISTING USE OF DARTFORD CROSSING



Options currently being evaluated

Unlocking housing and economic opportunities in Thurrock and North Kent

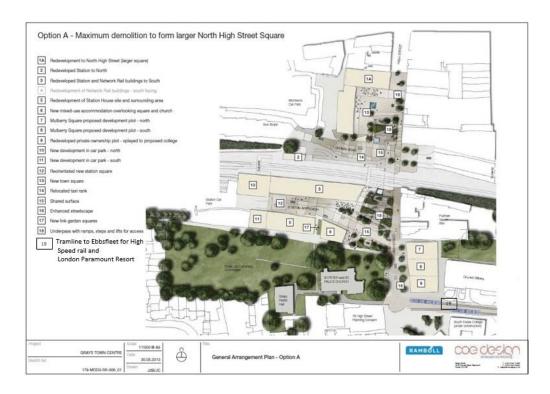




Meeting passenger demand

Integration with Bluewater shopping centre Transit Lounge





Integration with Grays
Growth Hub and Essex rail
connectivity

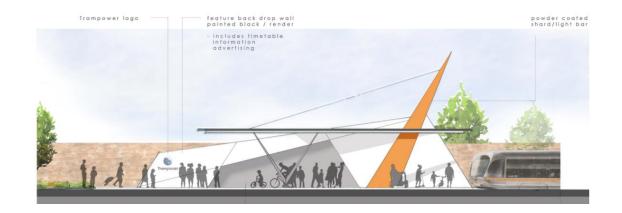


Costs

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. Although planned to carry less passengers than the Lower Thames Crossing would provide a considerably better Benefit to Cost ratio.







Concluding thoughts

"road users should pay the costs that he imposes upon others", including road costs (construction, maintenance, lighting), congestion (the delay the motorist causes to others) and social costs (risk, noise, fumes). "

The Smeed Report 1962

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