



*"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 21<sup>st</sup> Century..***

***Transforming the environment and economies of the Thames Gateway.***

[www.kenextranist.co.uk](http://www.kenextranist.co.uk)

April 2018



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## 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**

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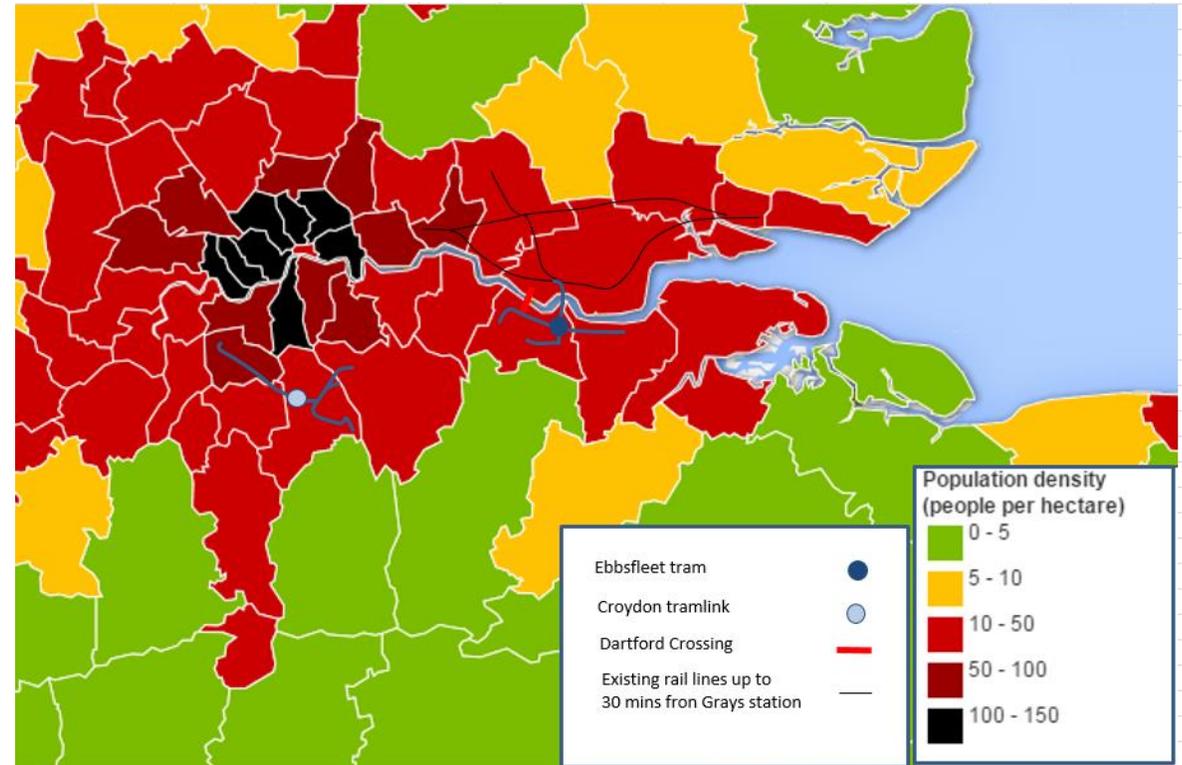
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## Potential high load factors

- 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



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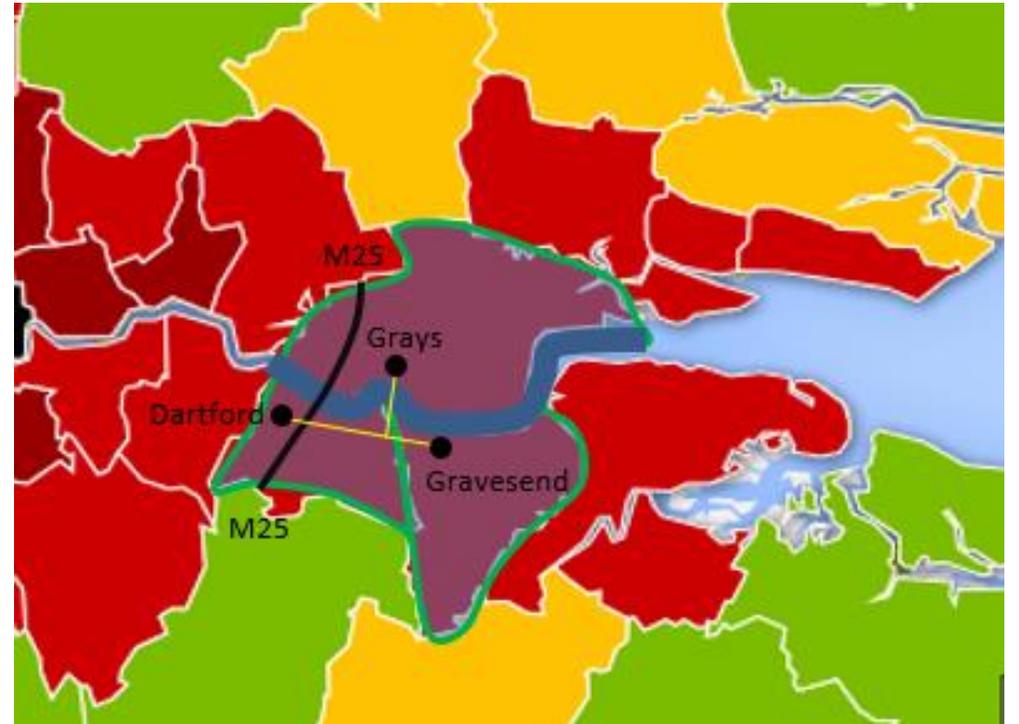
## Agglomeration benefits

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

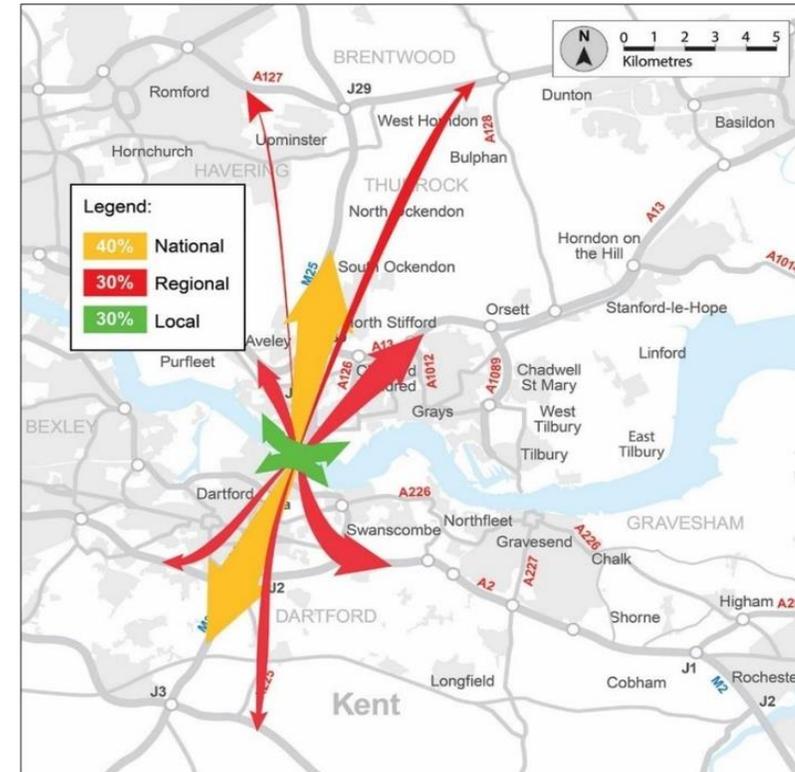
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## Existing Dartford Crossing has high level of local usage

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.

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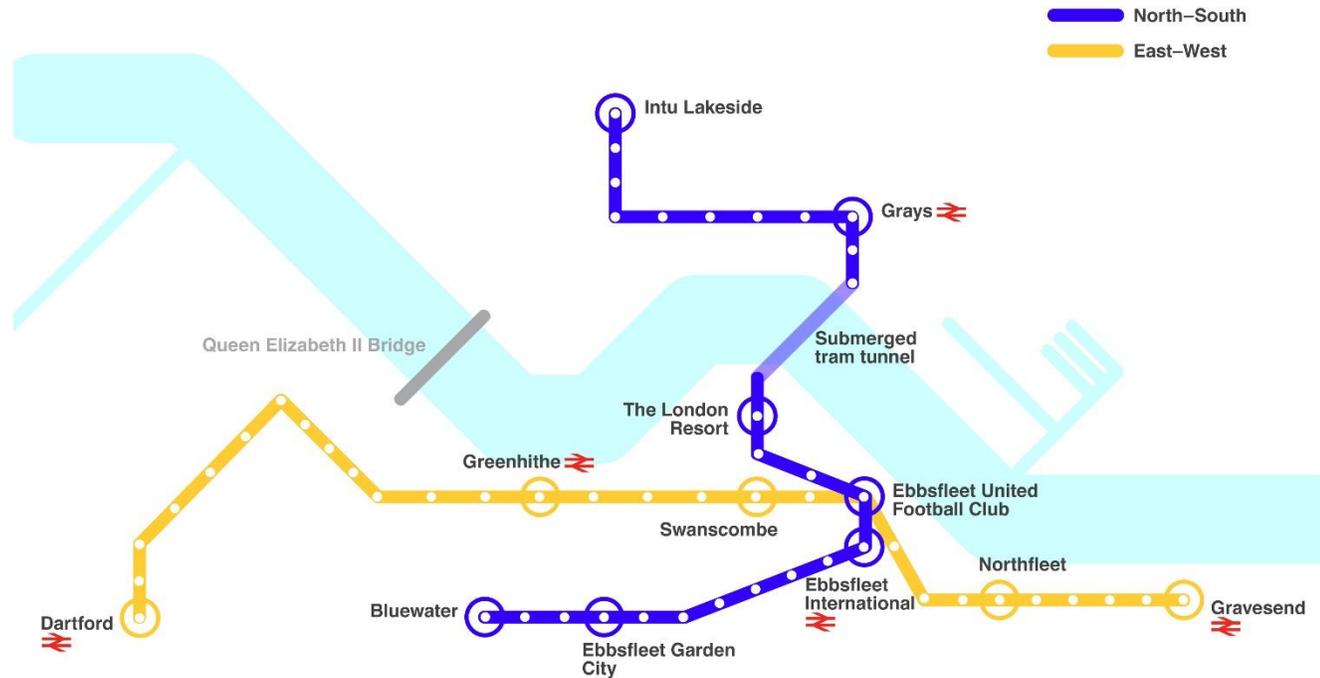
**FIGURE 3.5 - EXISTING USE OF DARTFORD CROSSING**



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# Options currently being evaluated

Unlocking housing and economic opportunities in Thurrock and North Kent



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# Integrated connections meeting passenger demand

Integration with Bluewater shopping centre Transit Lounge



Integration with Grays Growth Hub and Essex rail connectivity



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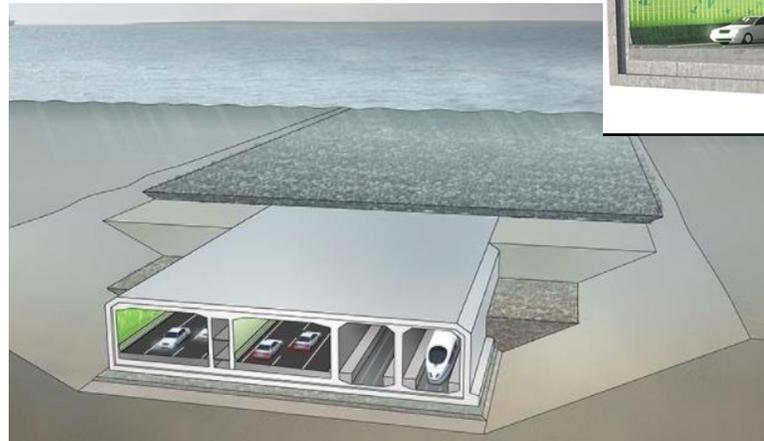




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## The proposed submerged tunnel

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

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## 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.

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***“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***

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