

Why build a Thurrock Transport Model?





To produce **transport evidence** to inform the preparation of the Thurrock Local Plan



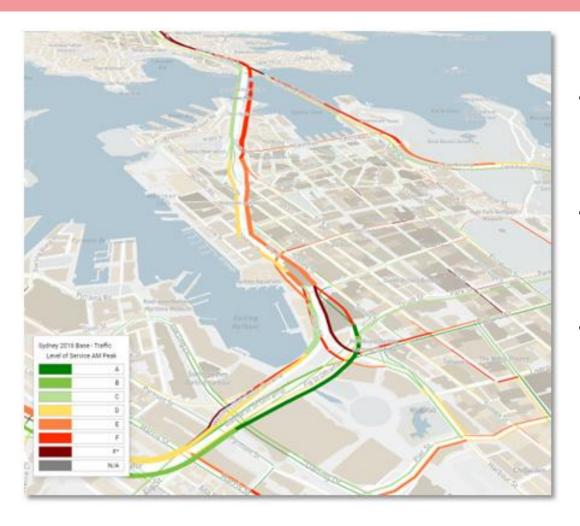
To support potential **business case development** for transport interventions
related to the Local Plan

What is a Transport Model?





To estimate the impact of future development proposals and the need for and effectiveness of alternative network configurations



- Develop a simulation of the current travel patterns, traffic and public transport flows in Thurrock
- Estimate how future travel patterns, traffic and public transport flows will change
- Predict how new developments and new transport projects will affect these travel patterns, traffic and public transport flows

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What data informs the Transport Model?



Travel patterns within, to and from Thurrock

- Mobile phone-derived data on how people travel in Thurrock
- Census data on where people live and work
- National Travel Survey
- Travel demand data from other models in the area

Traffic and public transport flows and travel times

- Traffic counts
- Public transport counts
- DfT journey time surveys
- Timetables











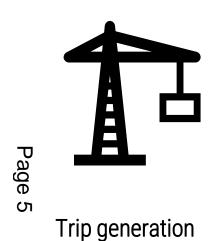






How does the model reflect travel decisions?





How many trips do people make? To reflect the impact of new housing and employment locations



Trip distribution

Where do people travel to? Allowing people to travel to new destinations, for example cross-Thames using LTC, but also to new employment opportunities



Mode choice

Which mode do they use. To reflect future shifting to or from car, dependent on congestion but also transport plans, such as better cycling facilities or more frequent buses

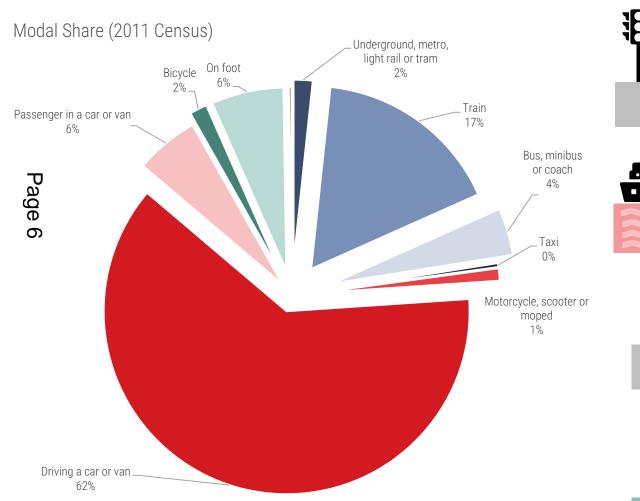


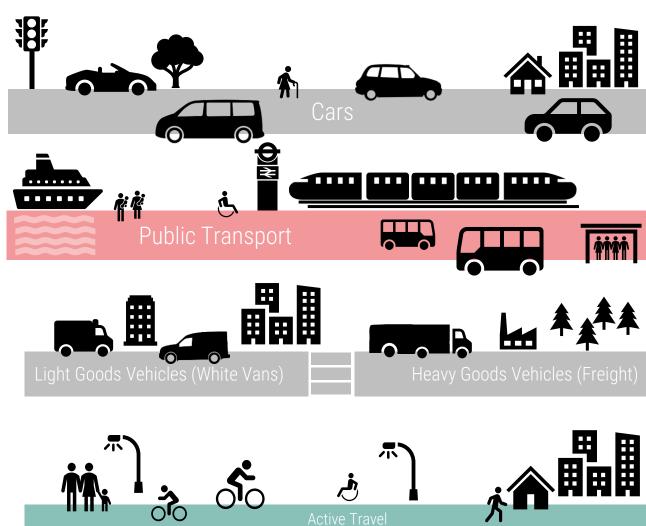
Routing

To calculate the impact on congestion of new or improved roads, but also new or improved public transport routes

What travel modes are included?

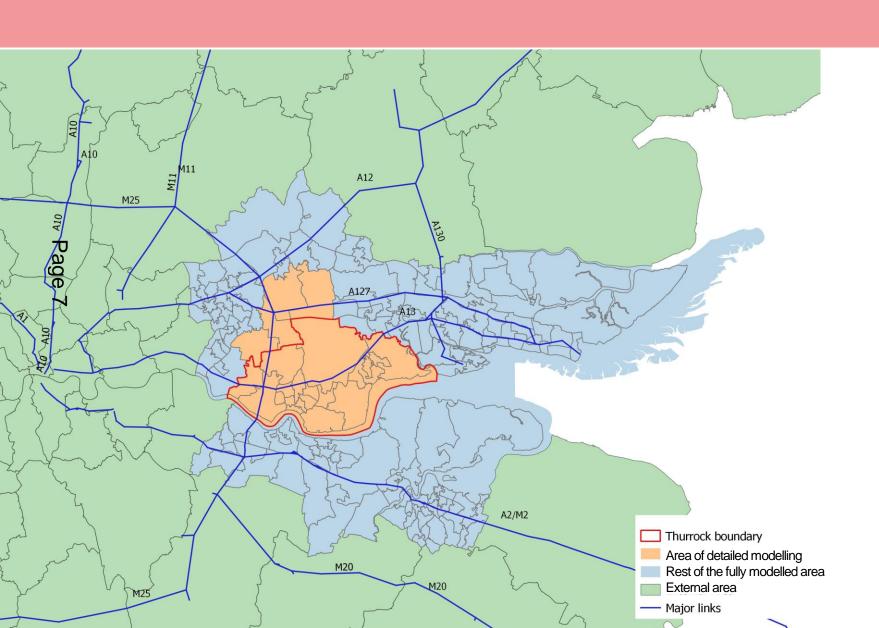






What area is covered?





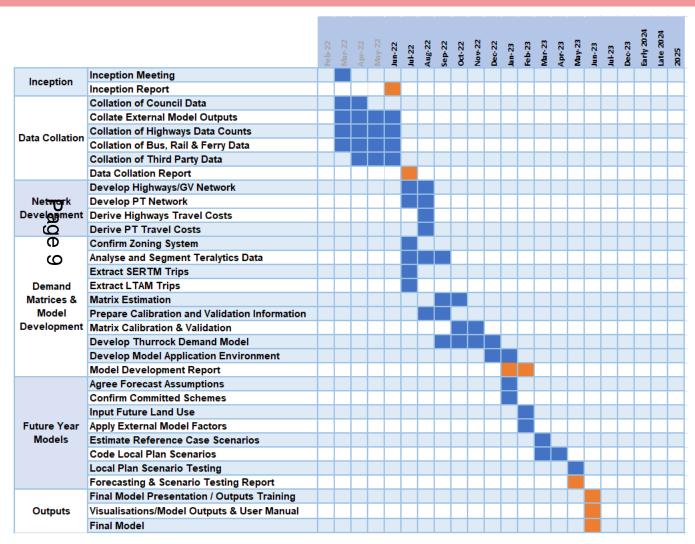
What time periods are covered?



	Base Year	Forecast Years				
	2019	2025	2030	2035	2040	2050
	Weekday 00 AM			Saturday		
Page 8				00 AM		
8	16	Off-peak 19:00 - 07:00		0ff-peak 15:00 - 10:00 18 PM Peak 10:00 - 15:00		

Current Timetable





Transport Model Timeline

- Inception (Feb Jun 2022)
- Data Collation (Feb Jul 2022)
- Model Development (Jul 2022 Jan 2023)
- Finalised Base Year Model (Jan 2023)
- Future Year Model Development (Jan 2023 May 2023)
- Delivery of Outputs and Visualisation Tool (Jun 2023)

