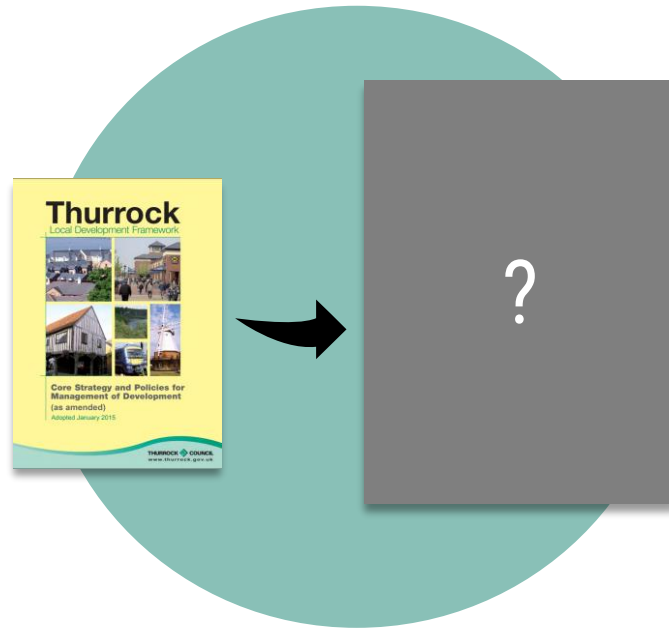# THURROCK STRATEGIC TRANSPORT MODEL

Local Development Plan Task Force Meeting | 26 July 2022

Tom van Vuren, Technical Director | Grace Solsby, Project Manager

RECORDING NOTICE: By participating in this meeting, you agree the meeting can be recorded for training and monitoring purposes for the development of the model.

CITY SCIENCE
endless possibilities

vlc

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

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

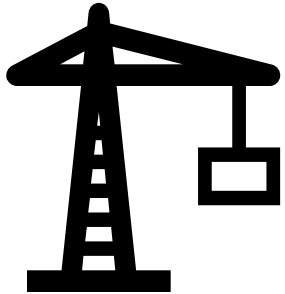**Traffic and public transport flows and travel times**
- Traffic counts
- Public transport counts
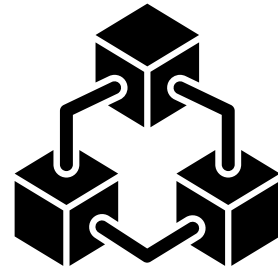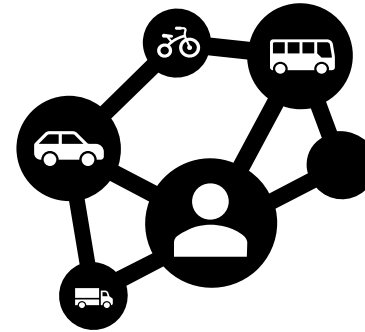- DfT journey time surveys
- Timetables
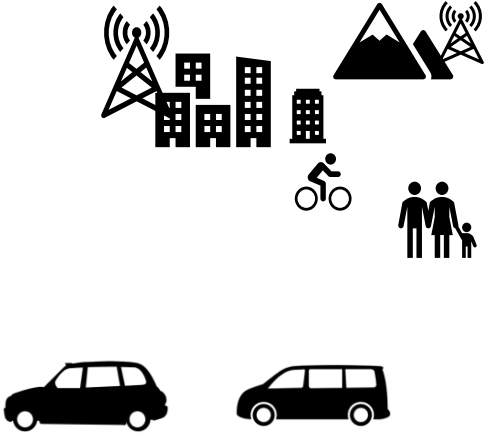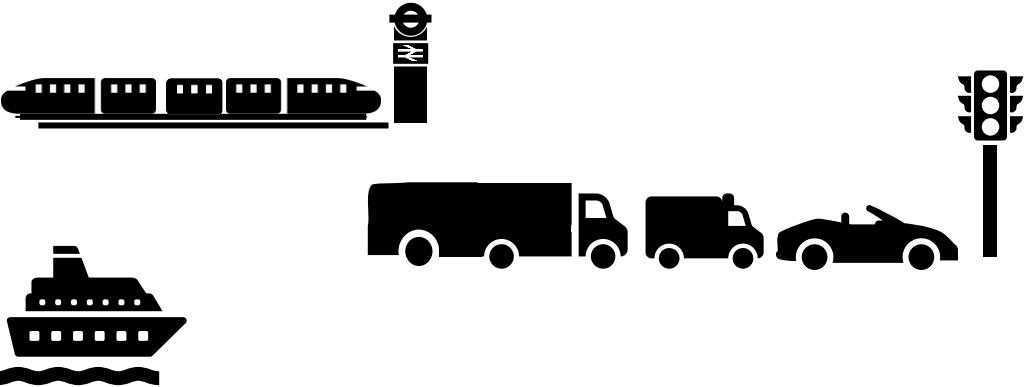
Confidential

Trip generation

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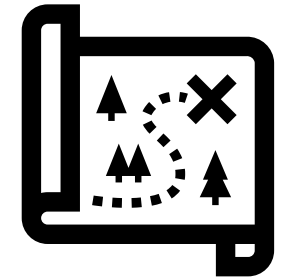
Trip distribution

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
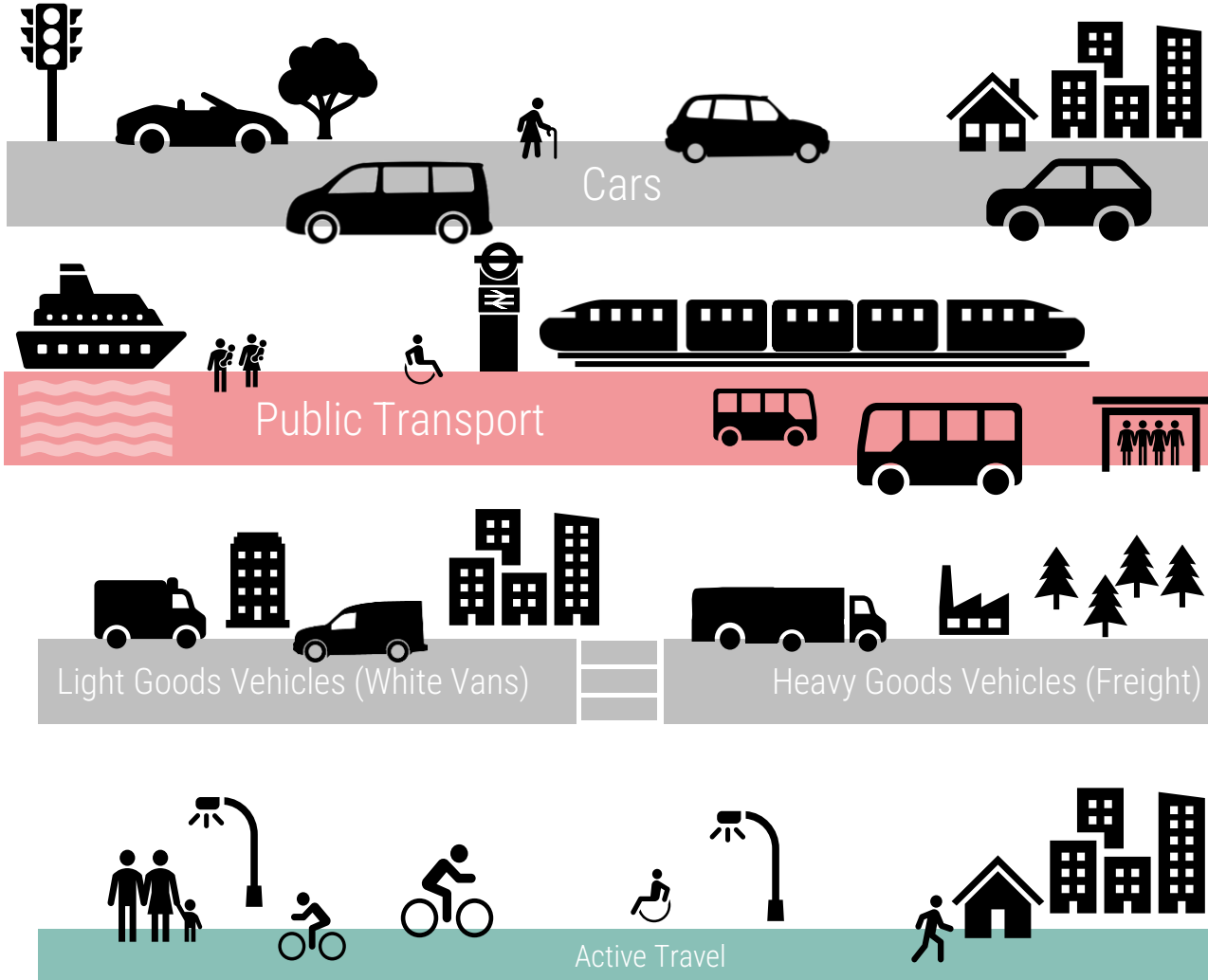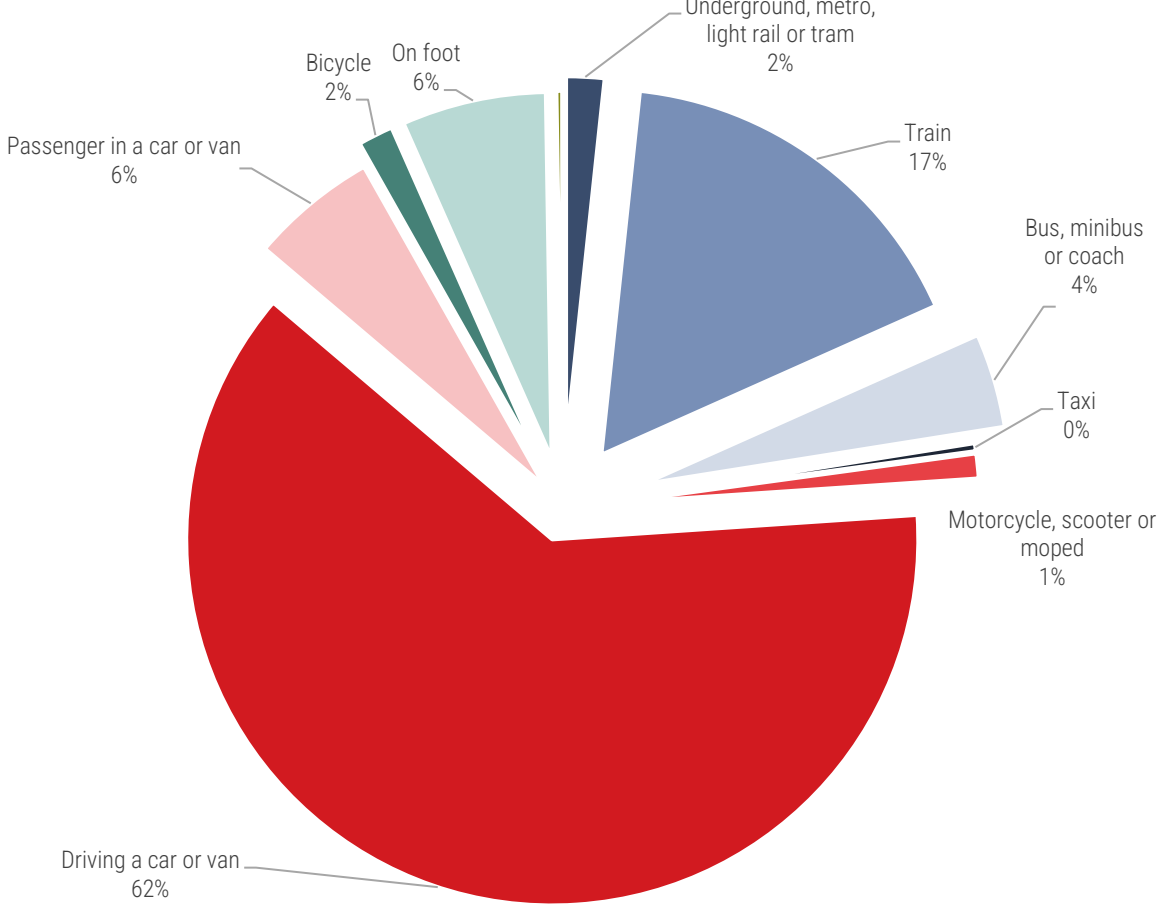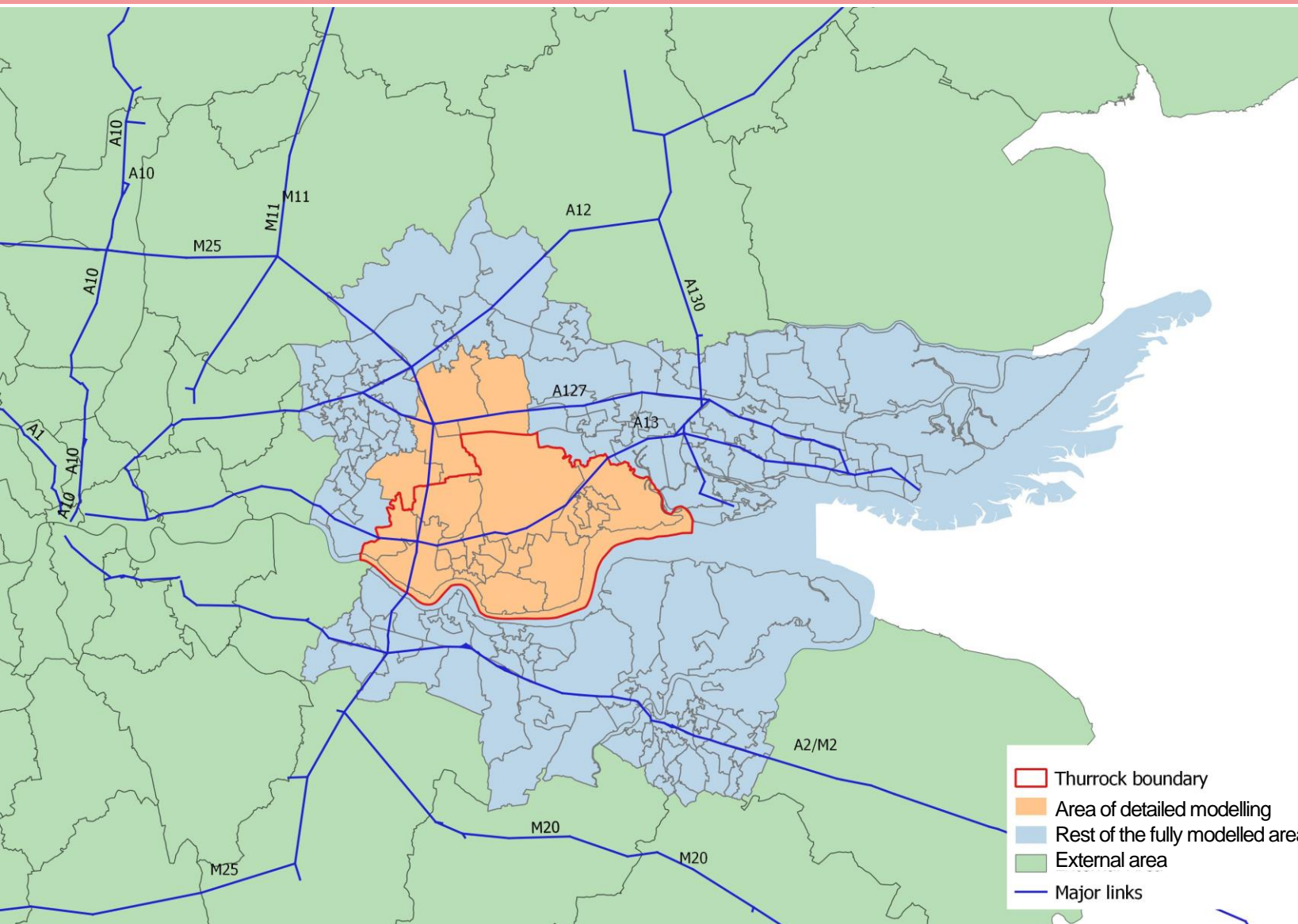
Routing

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

What travel modes are included?

Modal Share (2011 Census)

Pie chart data labels:
- Underground, metro, light rail or tram 2%
- Bicycle 2%
- On foot 6%
- Passenger in a car or van 6%
- Train 17%
- Bus, minibus or coach 4%
- Taxi 0%
- Motorcycle, scooter or moped 1%
- Driving a car or van 62%

Cars

Public Transport

Light Goods Vehicles (White Vans)

Heavy Goods Vehicles (Freight)

Active Travel

Thurrock boundary
Area of detailed modelling
Rest of the fully modelled area
External area
Major links

What time periods are covered?

Base Year **Forecast Years**

2019   2025   2030   2035   2040   2050

Weekday

- 00 AM
- 06 AM
- 12 PM
- 18 PM

Off-peak 19:00 – 07:00

PM 16:00 – 19:00

IP 10:00 – 16:00

AM 07:00 – 10:00

Saturday

- 00 AM
- 06 AM
- 12 PM
- 18 PM

Off-peak 15:00 – 10:00

Peak 10:00 – 15:00

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)

Thank You