Mobility Master Plan

MOBILITY AND LONDON'S CLIMATE GOALS

ITCAC PRESENTATION

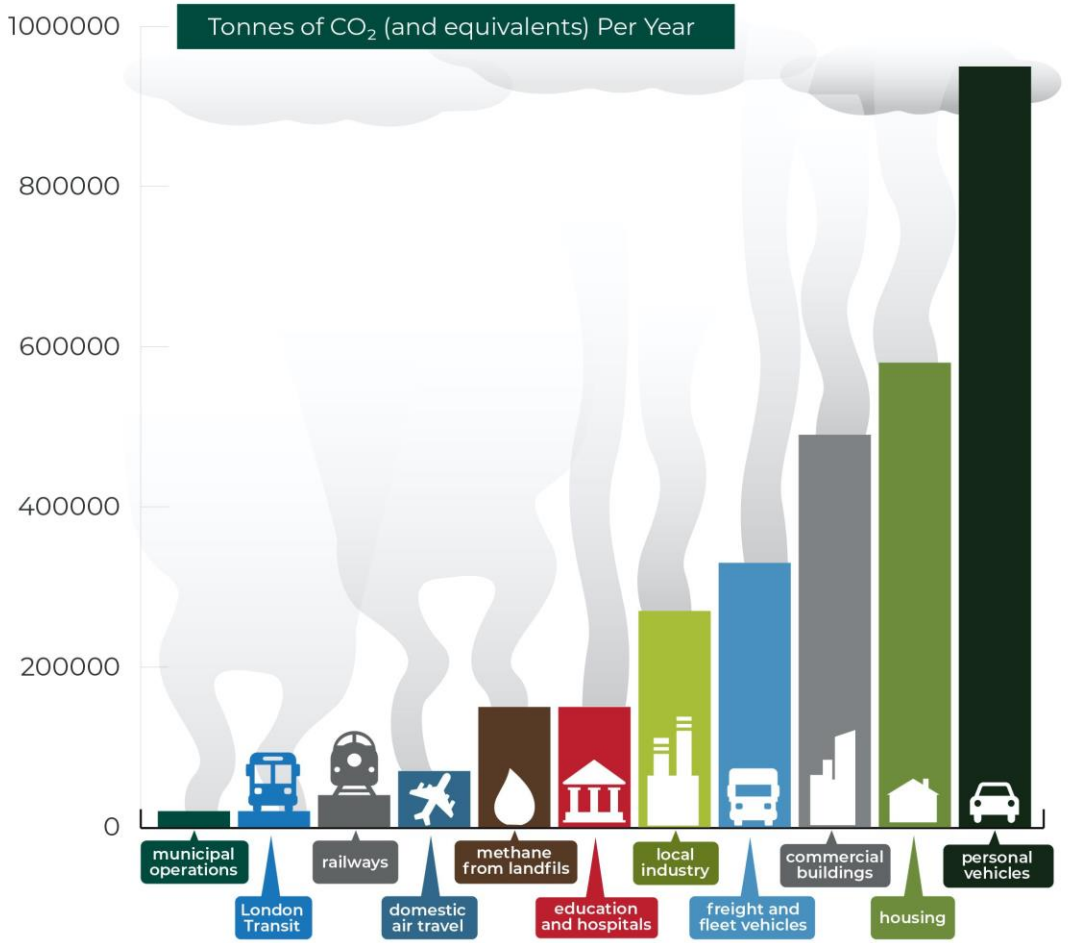
JANUARY 17,2024

London's Greenhouse Gas Emissions and the Role of Transportation and Mobility

In 2019, transportation in London accounted for an estimated 1.4 million tonnes of greenhouse gas emissions, which was 46% of all emissions from London.

Since 2019, the COVID pandemic has influenced travel behaviours including an increase in people working-from-home.

Personal vehicles are the largest emitter of greenhouse gas emissions locally.



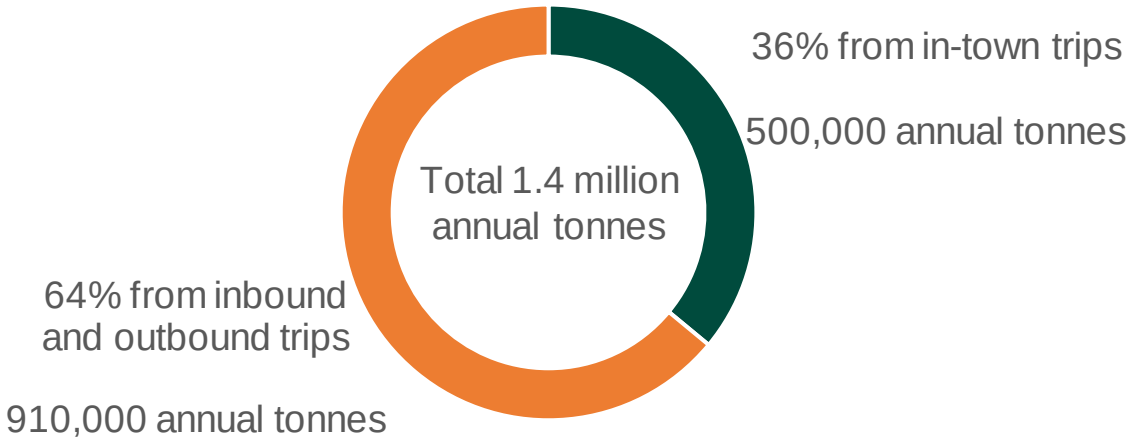
Total greenhouse gas emissions from London have decreased compared to the "peak" in 2007. In 2019, greenhouse gas emissions were 21 percent lower than 2007.

Breakdown of London's Transportation and Mobility Greenhouse Gas Emissions

Of the approximately 1.4 million annual tonnes of transportation generated greenhouse gas emissions in 2019, about 64% (910,000 tonnes) of that was from inbound and outbound trips (trips which start or end outside of London).

The other 36% (500,000 tonnes) of annual transportation generated greenhouse gas emissions were from in-town vehicle trips (trips which start and end in London).

2019 Transportation Greenhouse Gas Emissions



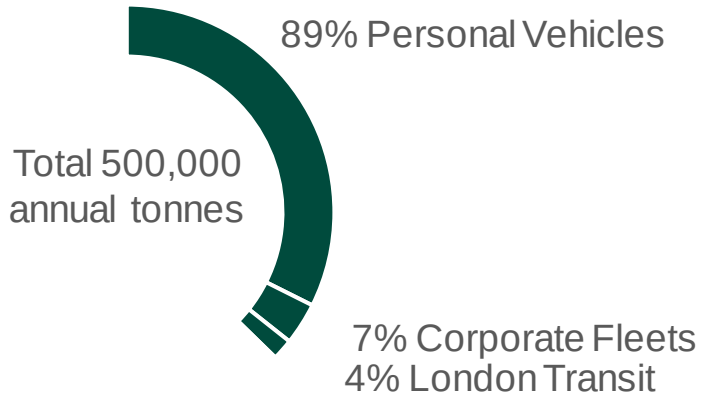
Source: Google's Environmental Insights Explorer and City of London Data

Reducing Greenhouse Gas Emissions from In-town Trips

The City's Climate Emergency Action Plan has a goal to reach net zero emissions by 2050.

In 2019, in-town trips which accounted for about 500,000 annual tonnes of greenhouse gas emissions.

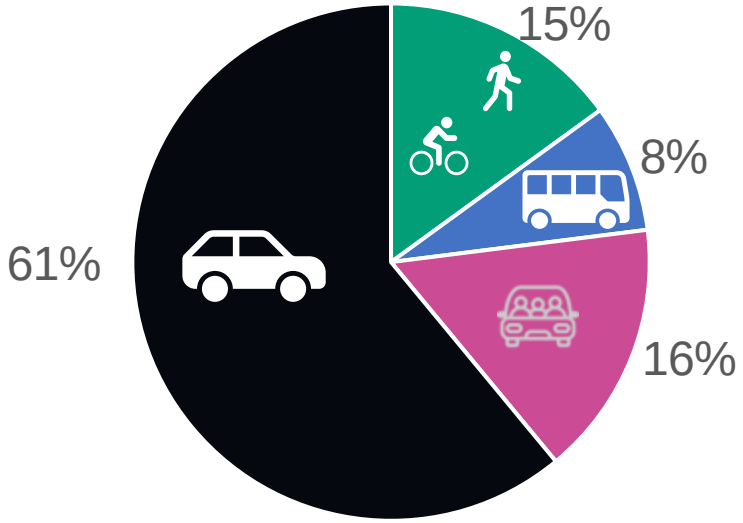
2019 In-town trips
Greenhouse Gas Emissions



Source: Google's Environmental Insights Explorer and City of London Data

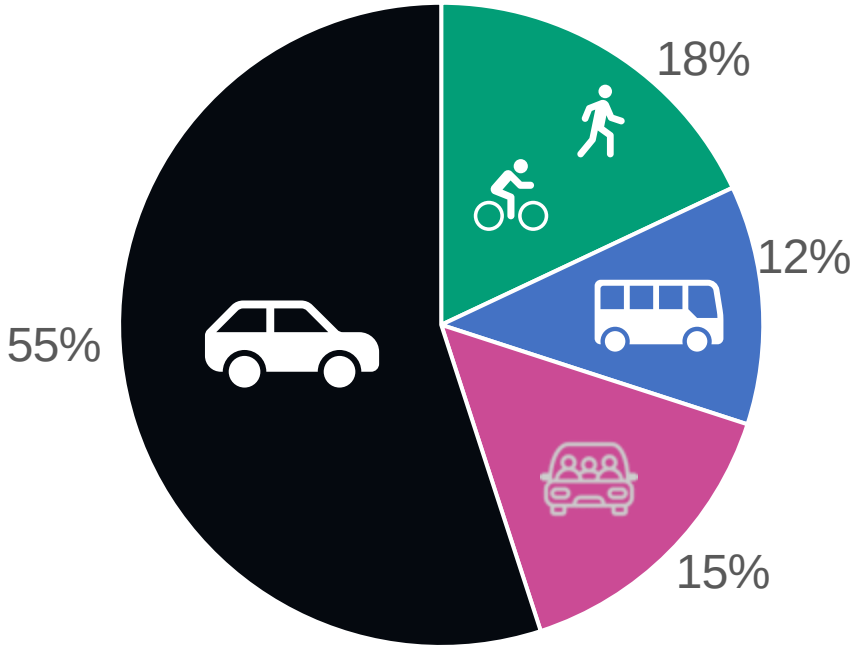
Mode Share

Current (2019) Mode Share
(23% walk, cycle, transit)



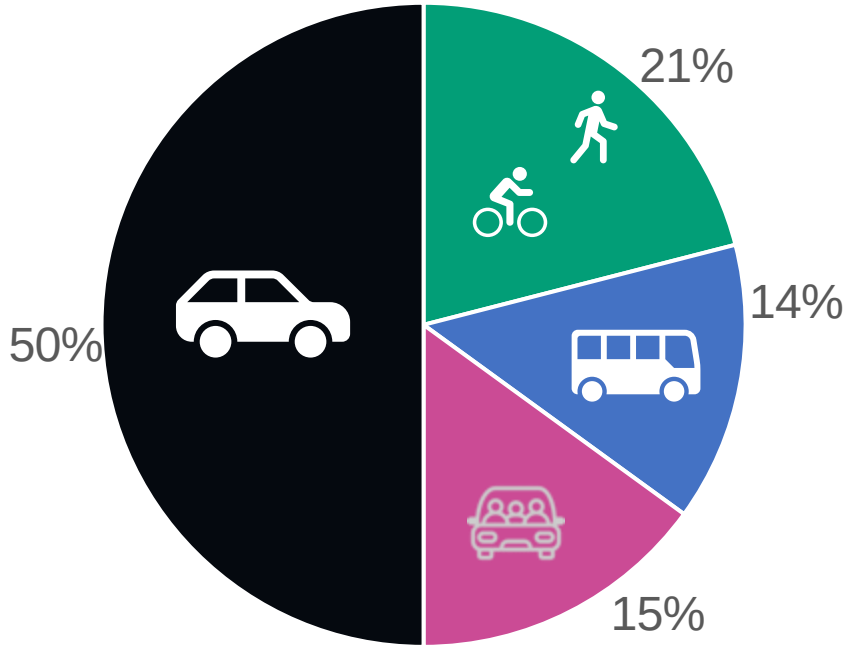
Population 407,665
Total Daily Weekday Trips 1,166,000

2050 Mode Share Target Option 2
(30% walk, cycle, transit)



Population 641,600
Total Daily Weekday Trips 1,740,000

Recommended
2050 Mode Share Target Option 3
(35% walk, cycle, transit)



Population 641,600
Total Daily Weekday Trips 1,740,000

Personal vehicle - driver

Walking and cycling

Transit

Personal vehicle - passenger

Other Factors

Transportation emissions are a function of:

Number of trips by personal vehicle and how far

- Population
- Mode Share
- Land Use

How vehicles are fueled

- Gas Powered
- Green Fuels
- Electricity
- Hydrogen

How efficient vehicles use fuel

- Vehicle Size
- Technology

All Level of Government have Role to play

All levels of government have a role to play in mobility:

City of London

- Policies and Programs
- By-laws
- City streets and multi-use pathways - construction and maintenance
- Local public transit (London Transit Commission) funding and operation
- Road safety
- Land use planning policy and regulations
- Public awareness, engagement, and collaboration
- Public transit between cities
- Streetscaping
- Vehicle-for-hire-licensing
- Research

Province of Ontario

- Provincial highways - construction and maintenance
- Local public transit funding
- Highway Traffic Act rules
- Licensing of drivers and registering vehicles across the province
- Legislation & regulations (i.e. *Ontario Municipal Act*)
- *Planning Act* legislation
- Public transit between cities
- Research
- Establishing standards and guidelines for infrastructure such as traffic signals, signs, and cycling infrastructure.

Government of Canada

- Approval of new technologies
- Electric vehicle charging incentives
- Local public transit funding
- Federal railways (i.e. Via)
- Legislation & regulations
- Research
- Vehicle standards

Thank you

We look forward to hearing your feedback on this presentation and for any suggestions on how communication of this information could be improved as it is developed further.