



# **Reducing light vehicle kilometres travelled**



# Thomas Prince

Transport Planning & Advisory



# Agenda

The Target

Household Travel Survey

Mode Shift Potential

## *The Target*

# Emissions Reduction Plan

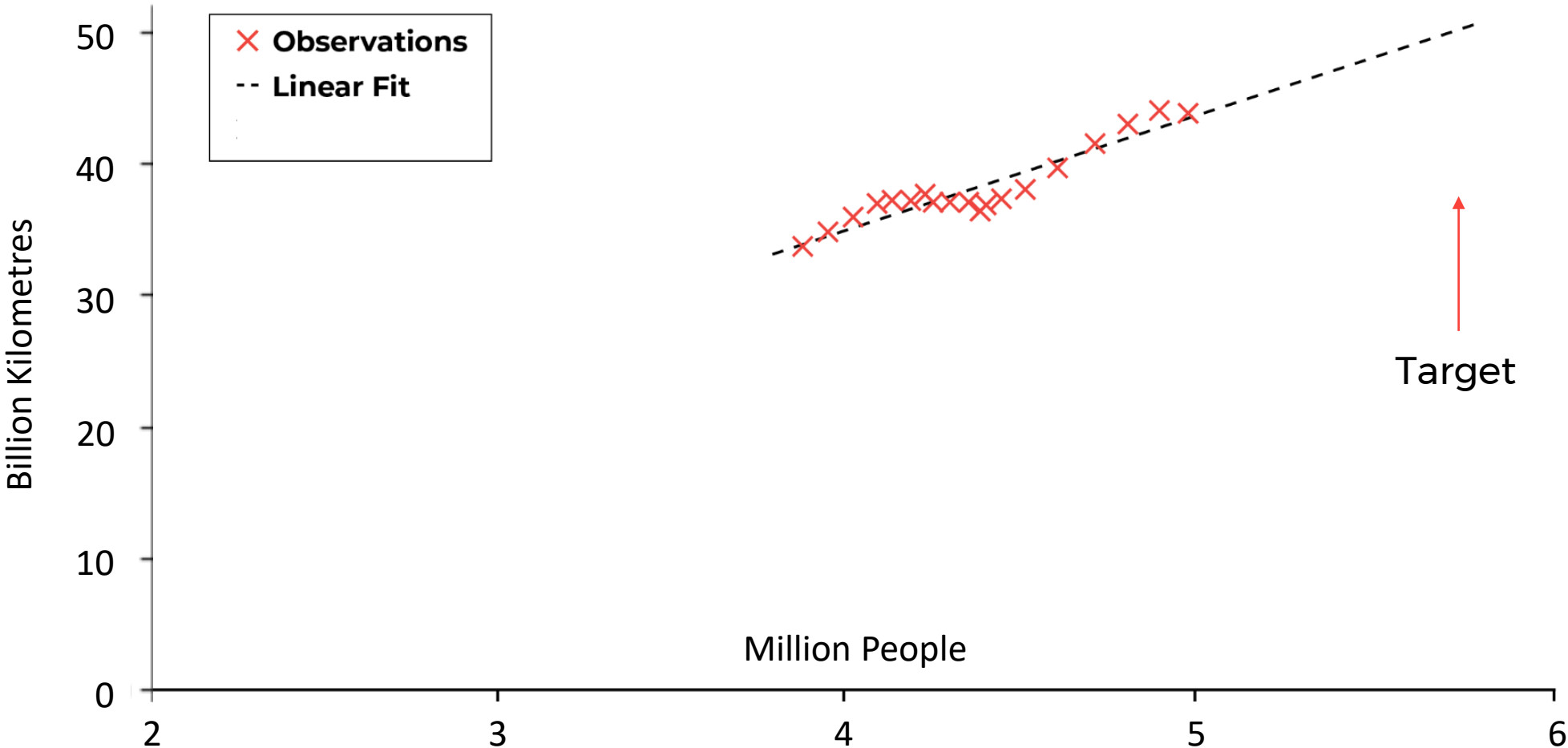
20%

Light vehicle fleet.

From projected  
2035 levels.

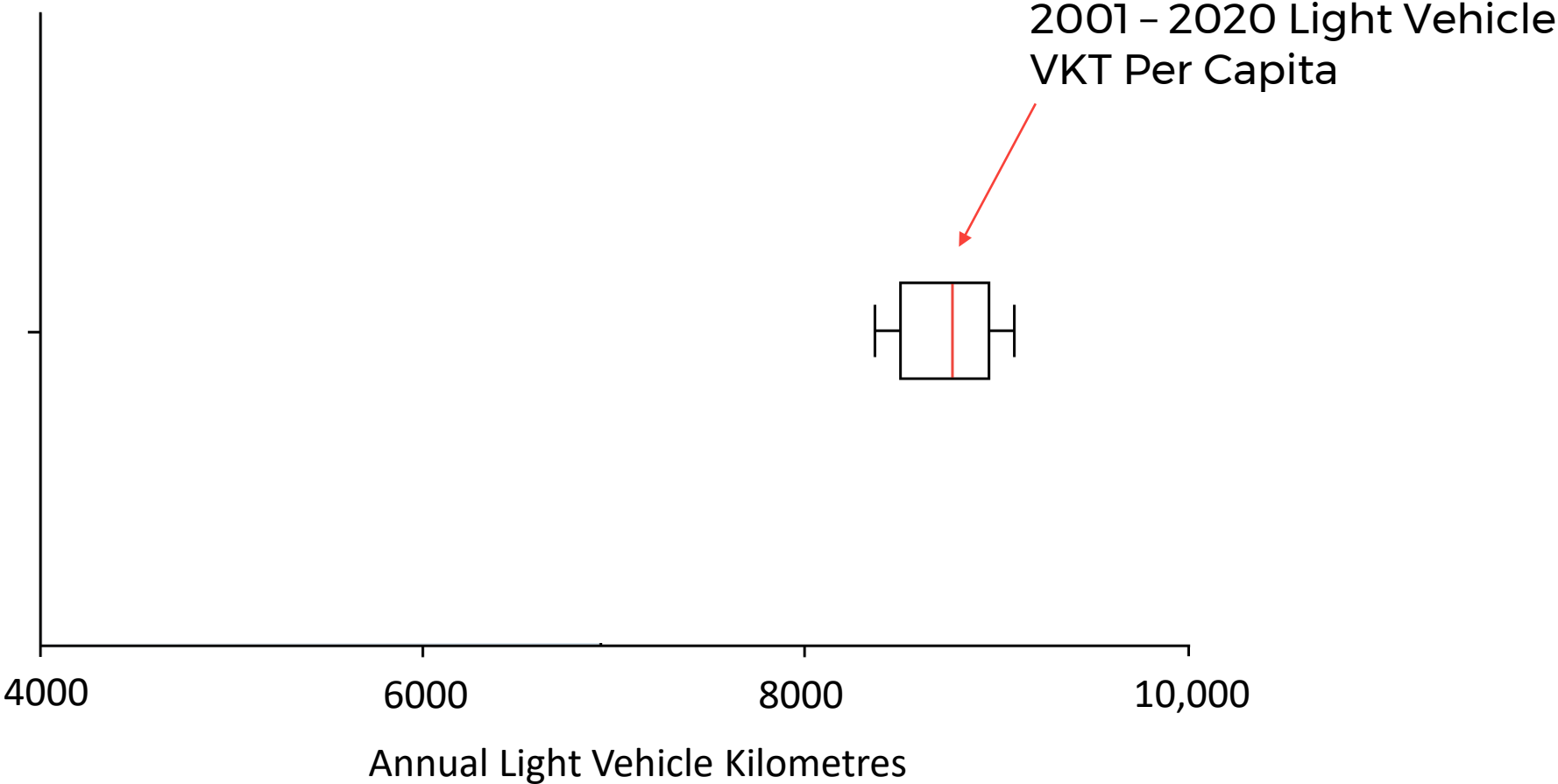
# The Target

## Population vs. Light Vehicle Kilometres



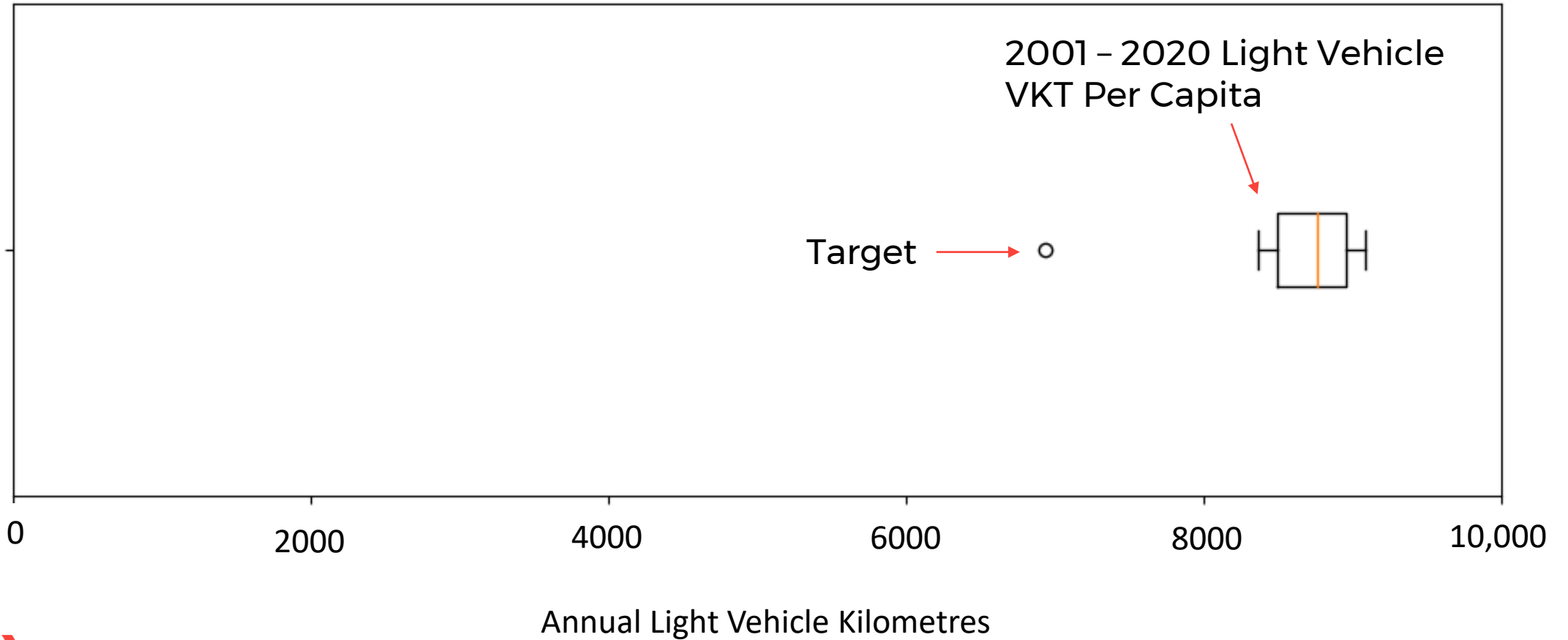
*The Target*

# Per Capita Travel



# The Target

## Per Capita Travel





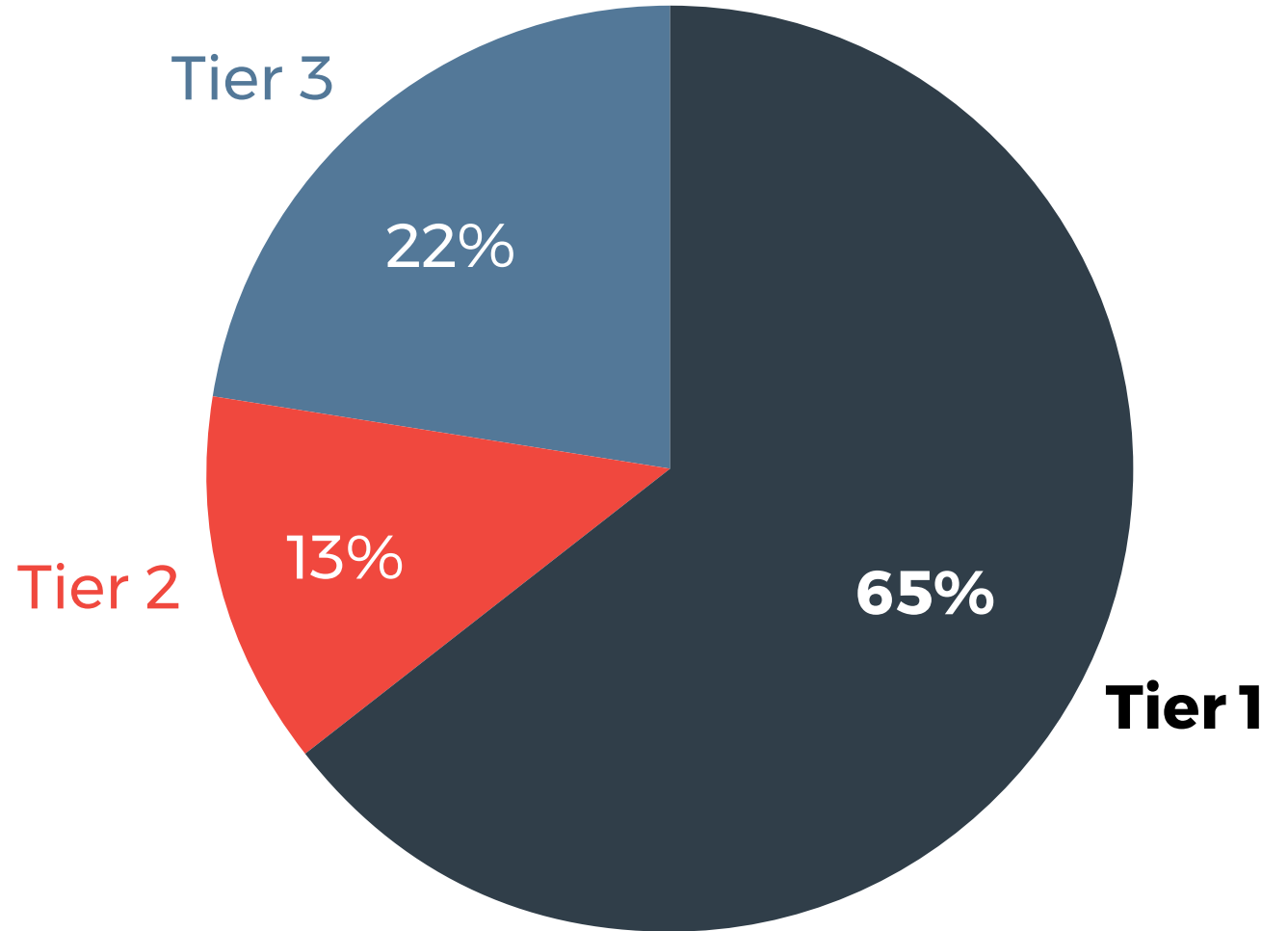
# The Household Travel Survey



# Household Travel Survey

## Kilometres by Tier

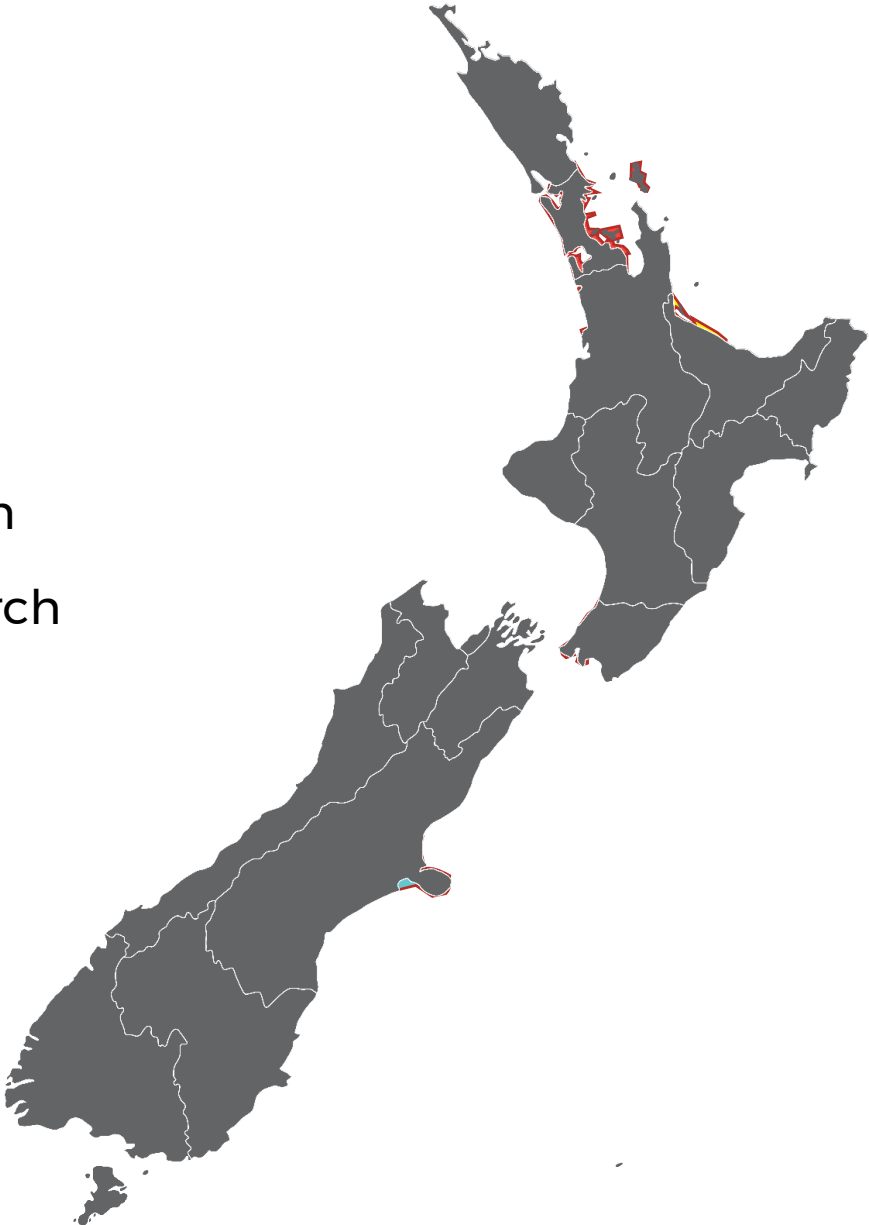
30% Tier 1 reduction  
achieves target.



# Household Travel Survey

## Tier 1

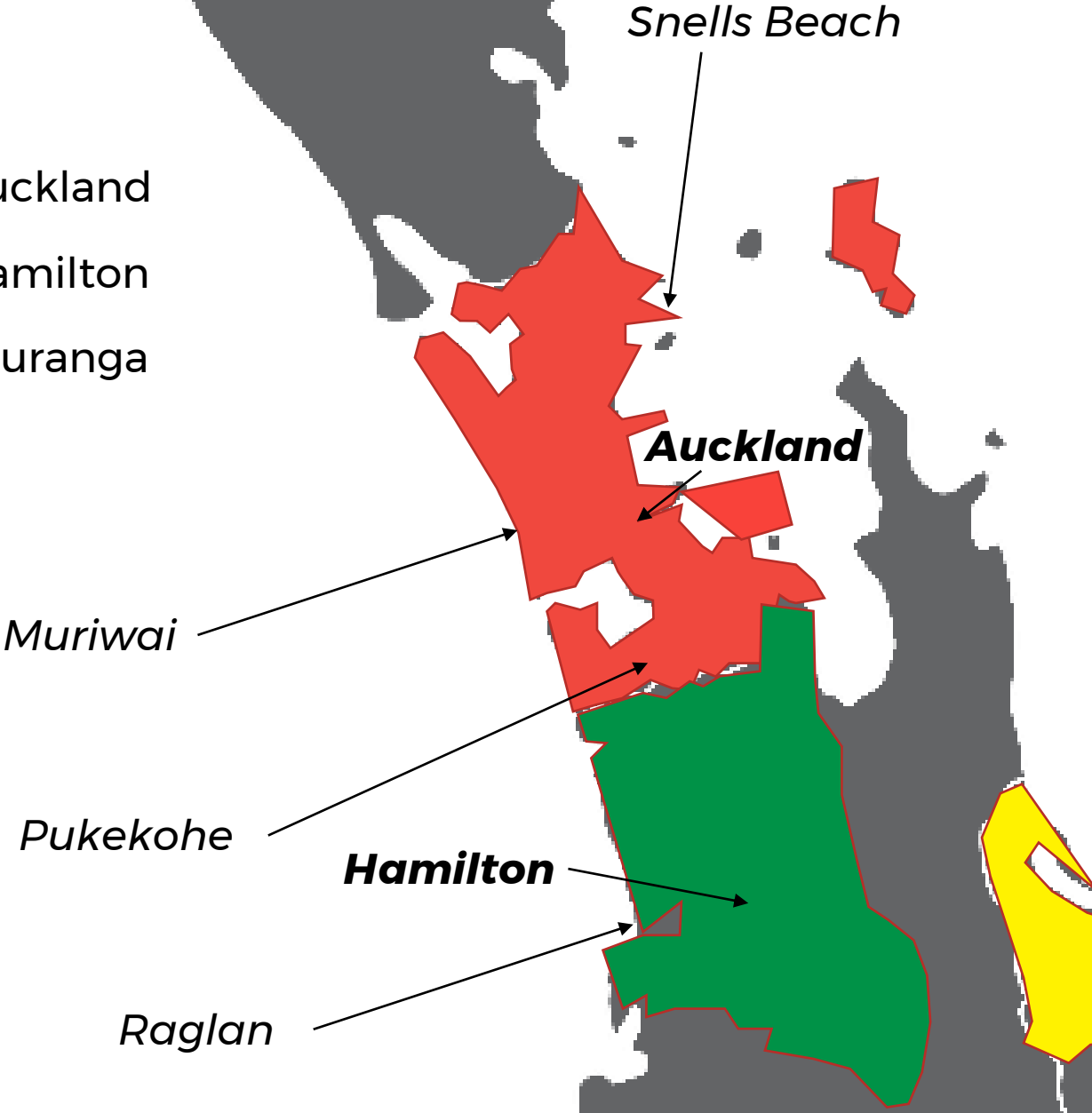
-  Auckland
-  Hamilton
-  Tauranga
-  Wellington
-  Christchurch



*Household Travel Survey*

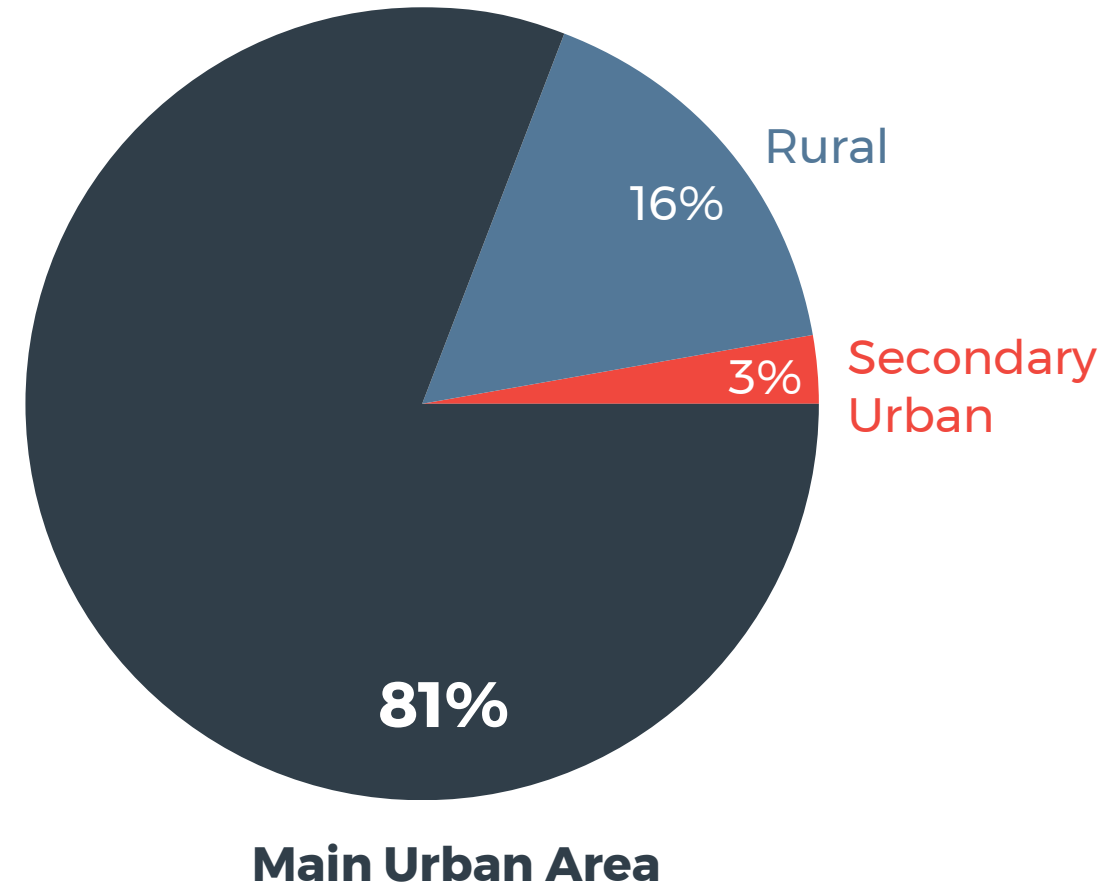
**Auckland & Hamilton**

-  Auckland
-  Hamilton
-  Tauranga










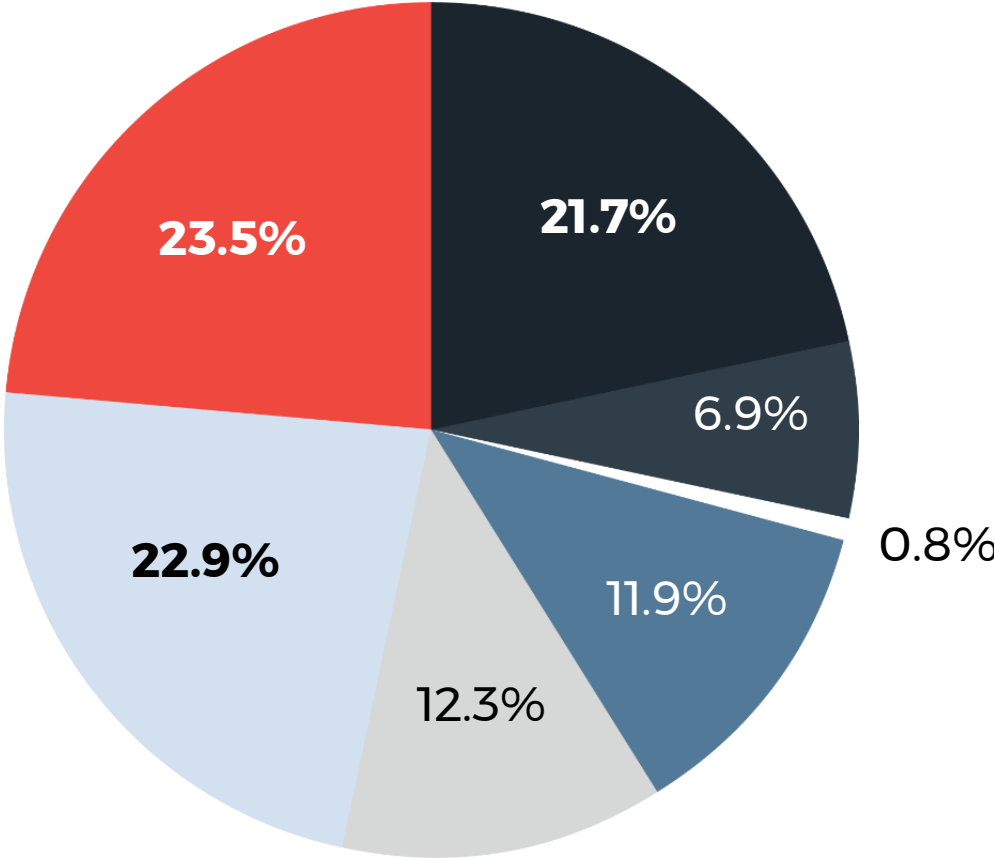
## Tier 1 Kilometres by Area Type

**20%** of Tier 1 kilometres are not in a main urban area.



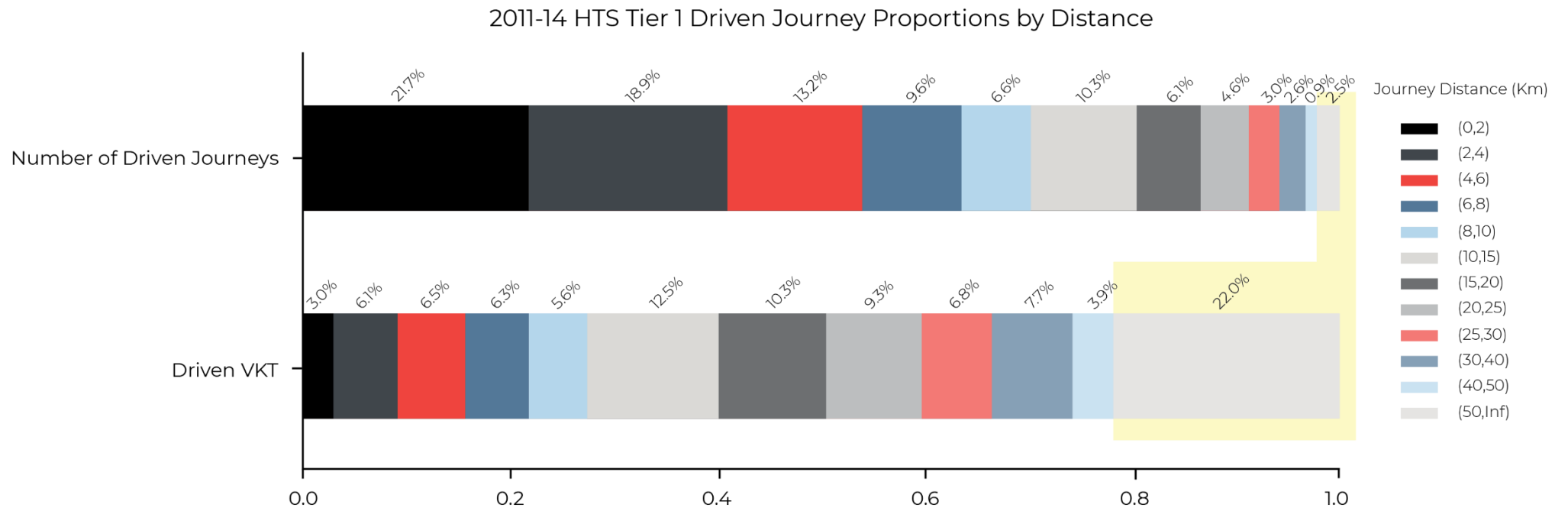
# Tier 1 VKT by Purpose

-  **Shopping / Personal Business**
-  Other / Unknown
-  Education
-  Accompany Someone
-  Travel for Work Business
-  **Commute to work**
-  **Social / Entertainment / Recreational**



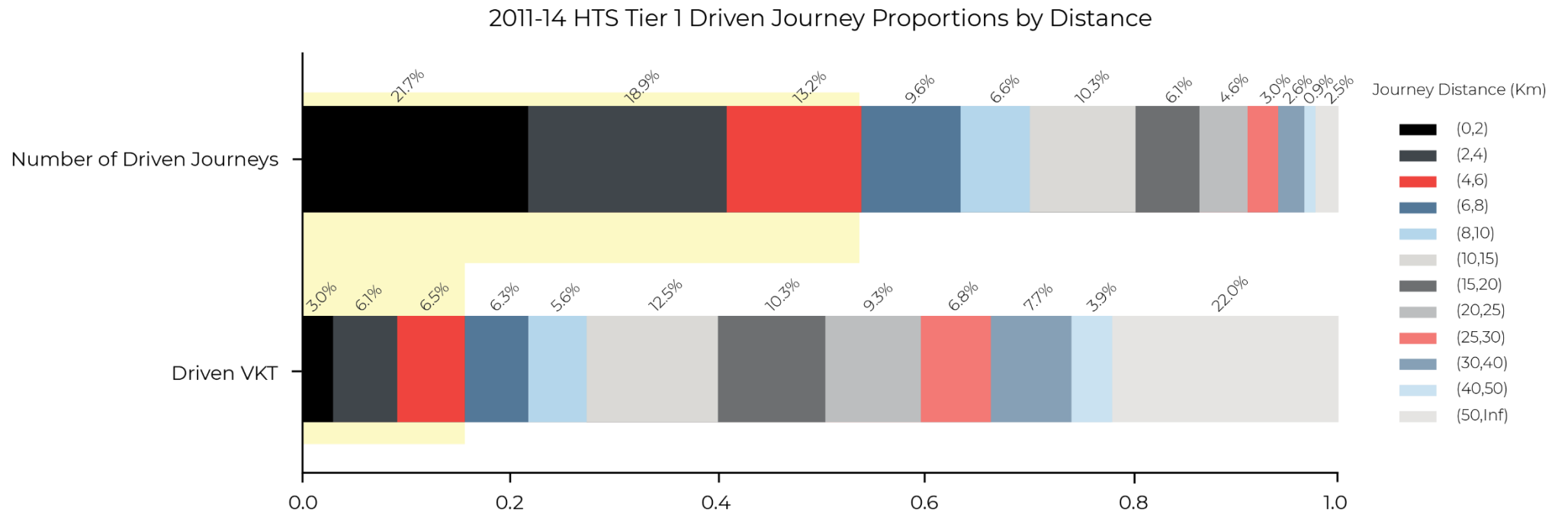
# Journey Length

2.5% of journeys contribute 22% of kilometres travelled



# Journey Length

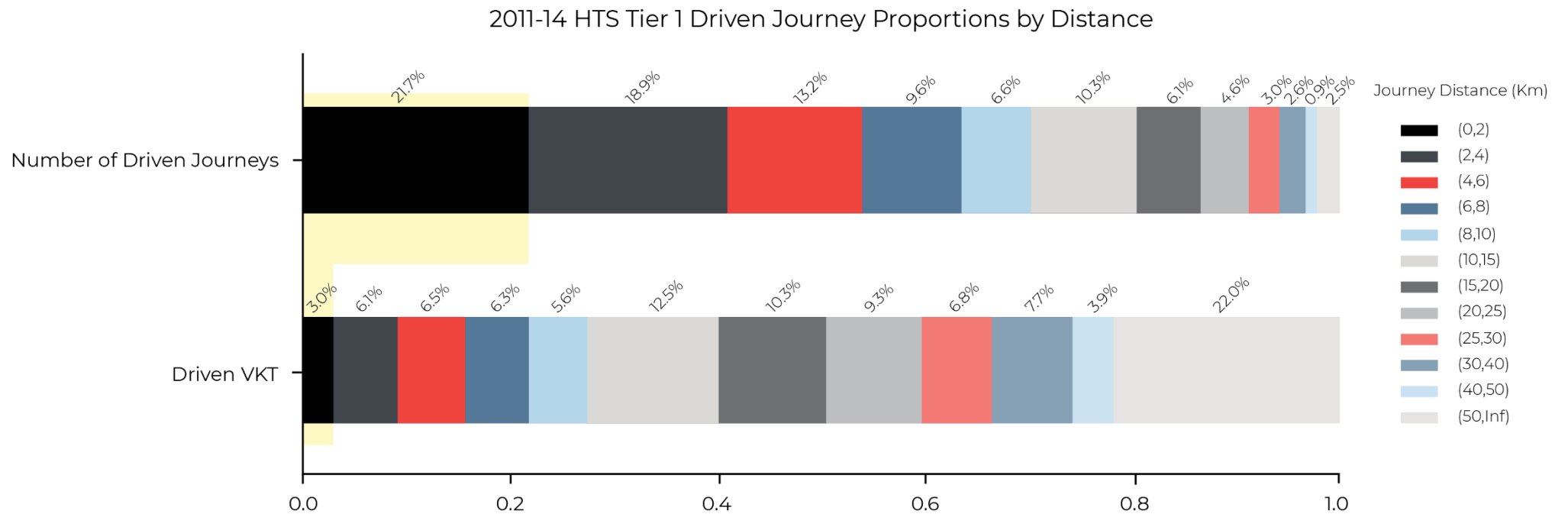
54% of journeys contribute 16% of kilometres travelled





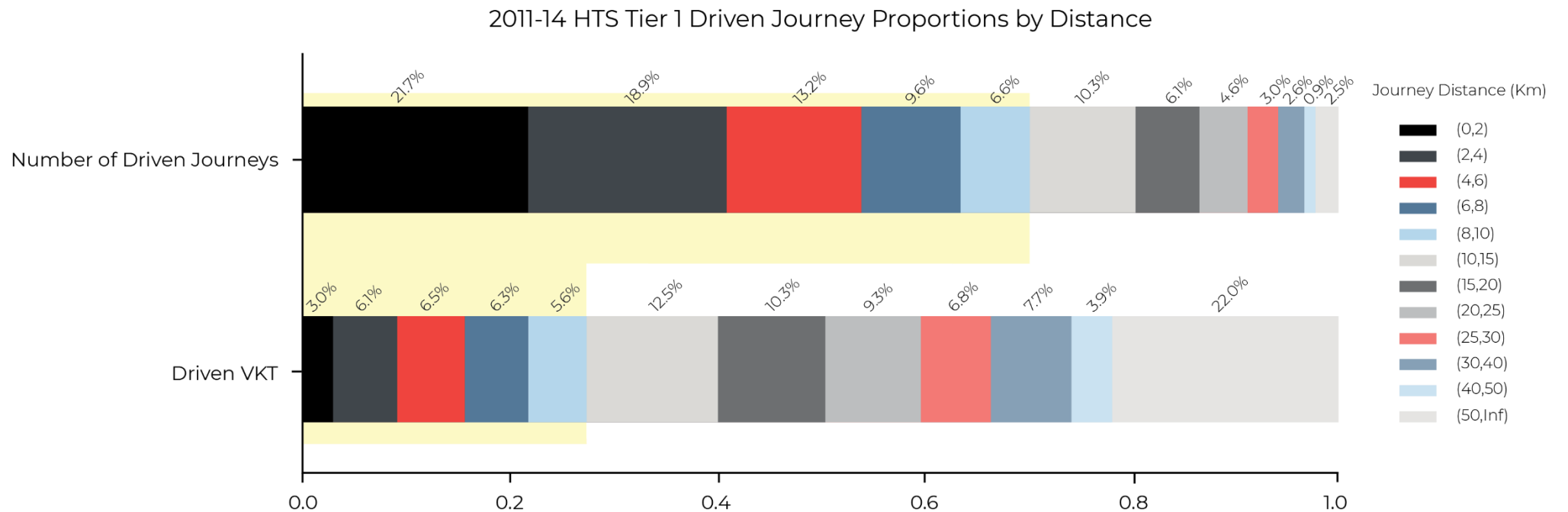
# Journey Length

Journeys under 2 km contribute 3% of VKT



# Journey Length

75% of journeys contribute 25% of kilometres (<10 km)



# Mode Shift Potential

Based on the Household Travel Survey



# Mode Shift

25%

## In main urban area

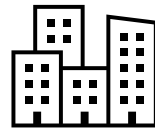
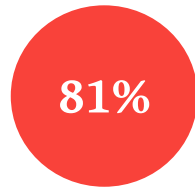
### For journey purpose

1. work commute
2. social/ entertainment
3. personal/ shopping

## Under 15 km

# Tier 1 Mode Shift

## Main Urban Area

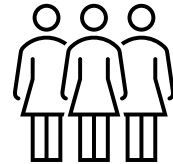
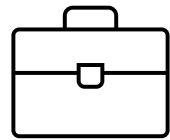
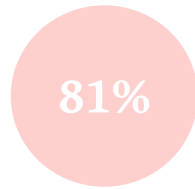


Vehicle Kilometres Travelled



# Tier 1 Mode Shift

## Journey Purpose



Vehicle Kilometres Travelled



# Tier 1 Mode Shift

## Distance <15 km

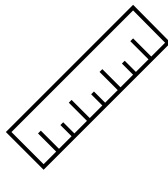
81%



68%



46%

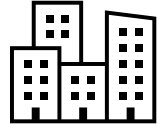


Vehicle Kilometres Travelled



## *Wrapping Up*

# **Solutions?**



**Urban Planning & Land Use**



**Regional Public Transport**



**Mode Shift**



**Policy – Carrot & Stick**



## Wrapping Up

# Main Points

1

20% target – it's big

2

Journey length and other features  
constrain travel alternatives

3

Shifting to another mode is part  
of the solution, we need more



**Thank you.**

**Let's discuss.**

