



Smart Transport made Easy

Dream

Safe, Efficient, Timely

No poor drivers

No Traffic Jams

Low Emissions

Safe pedestrian interaction

Dream

Smart City



Smart City Infrastructure

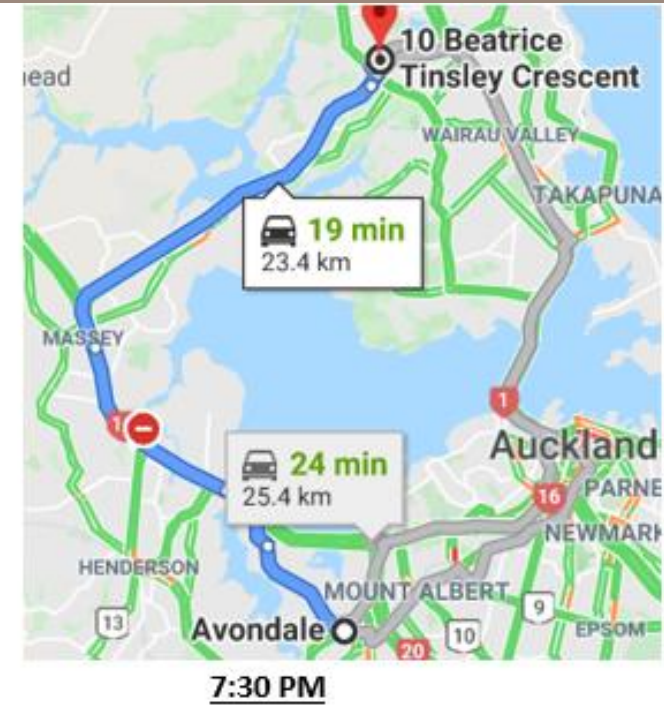
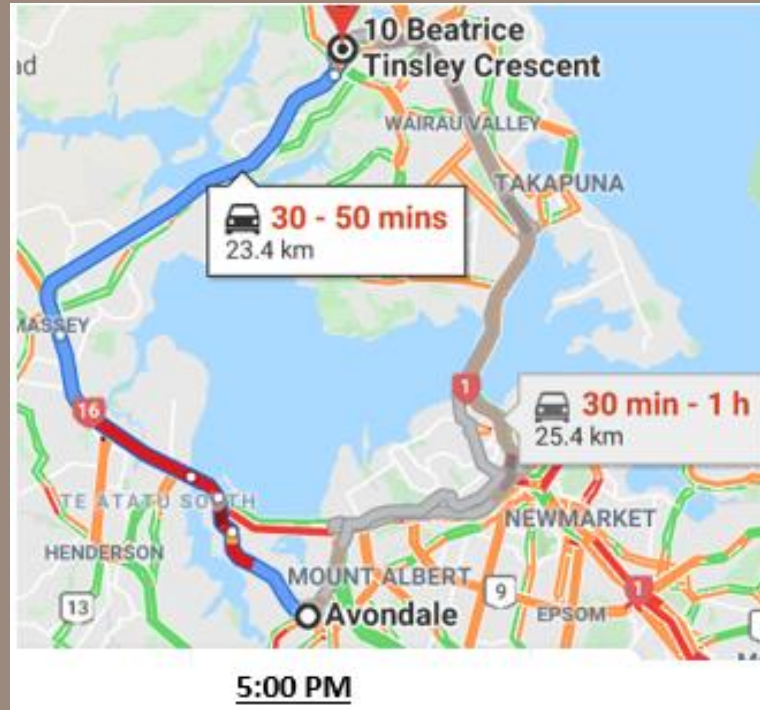
Sustainable – Emissions and
Energy

Assist economic Development

Enhanced Quality of Life

Better Mobility

Google



5:00 PM

7:30 PM

Ave Speed

28 km/hr

73 km/hr

CO2

10.5 kg

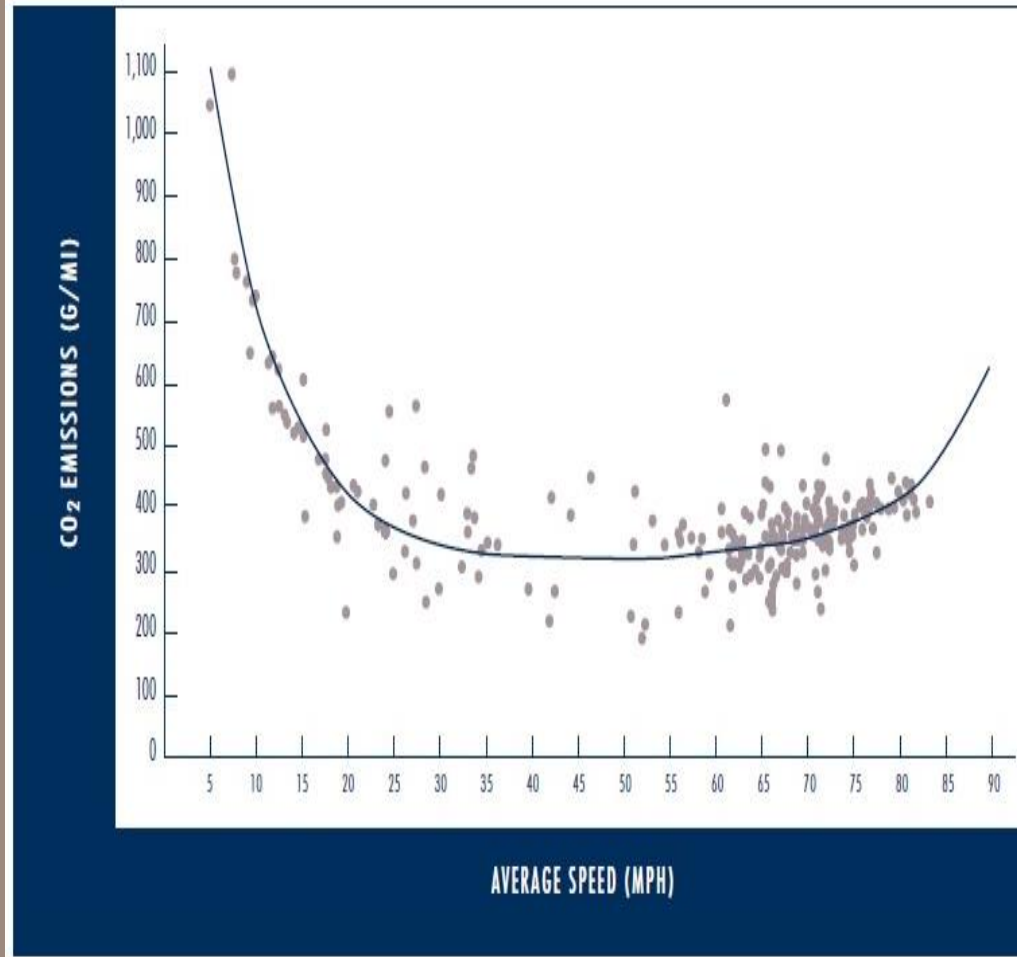
8 kg

Saving of 12% of my daily work time

Congestion and Emissions

FIGURE 5

Emission-speed plot of individual trips or trip segments



<u>KM/hr</u>	<u>g/CO₂/Km</u>
8	750
16	470
24	350
32	260
40	240
48	220
56	200
96	220

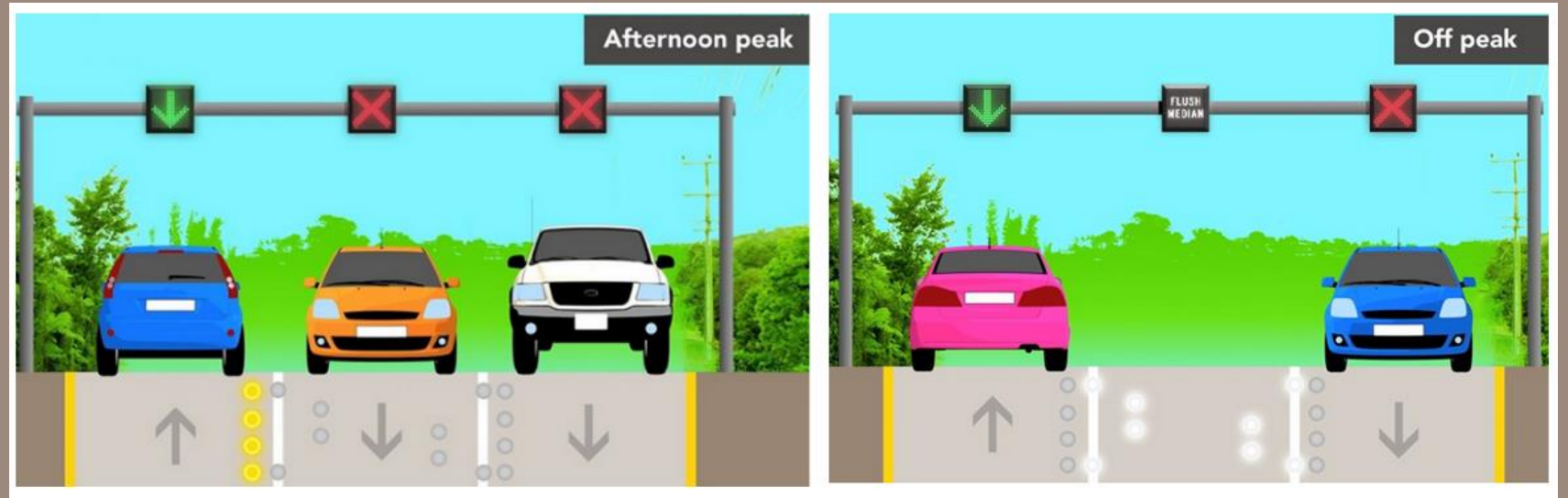
How does
Google Maps
Work?

Google Maps uses location data
off every Android Phone

Google Maps uses data of every
iPhone that has Google Maps
open

“Big Data – Big Privacy Issue”

Whangaparaoa Dynamic Lanes



1,900 Cars per hour - Saving 4.5 minutes/journey
83,500 hrs per annum saving – 45 man years
\$3 million productivity
Return to Government - \$1.4M+
25% Return on \$4Million investment
850 Tonnes CO2 saving

Solar Poles



320kg CO2
saving/light/annum

No line charges

No underground
services

Only 10% more
expensive than cabled
streetlights



Old Version



New Version

Public Information Displays (PIDs)

Agnostic Display

Independent Communication with individual sign or group of signs (Tsunami warning)

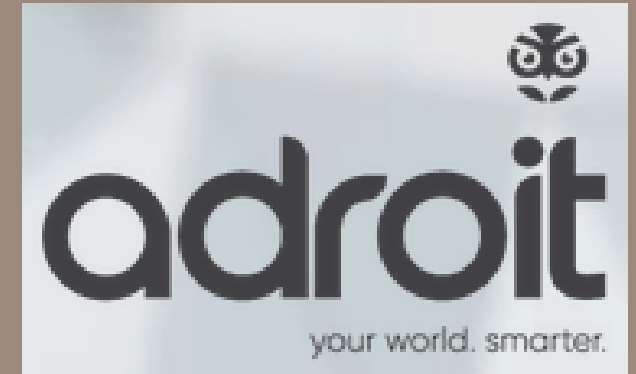
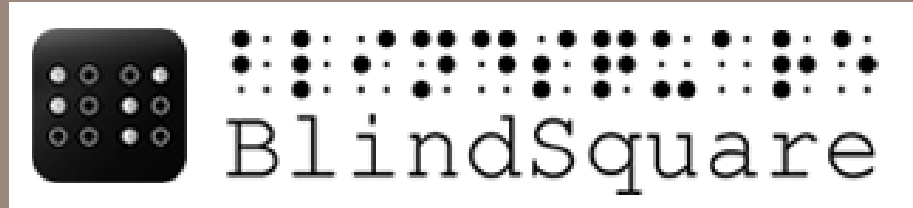
Beasmart



Person to
Infrastructure
Communication
Device



Beasmart



Partnership with Adroit
On BlindSquare Platform
Endorsed by NZ Blind Foundation



Parnell
Business
Association

Two valuable Gottfried Lindauer paintings
stolen in Auckland ram raid burglary •



Chief Ngatai-Raure



Chieftainess Ngatai-Raure

Better visibility
Less Crime

Drawing Together

- Efficient Transport – Dynamic Lanes
 - Off Grid Solutions - Solar
 - Better Communication - PIDs
 - Better Mobility - Beasmart
 - Better Crime Prevention – Parnell Business Association
- “Smarter City”

Where to from here?

- Give greater consideration to the cost of congestion on Emissions, \$\$\$ and Living standards
- Who will fund – Central government is reaping the majority of the benefits (tax etc)
- Changing life styles
 - Work different times
 - Use more public transport
- Data will be the key to understanding user heat maps – need legislation allowing controlled privacy access