

PUBLIC TRANSPORT HUB PTV - RE-IMAGINED

The New Normal of Public Transport

**Staying Ahead for a Sustainable Future &
Adapting to New Normal**



Problem

A sustainable & optimized way of public transport co-existing with personal transport, is the need of the hour

- to reduce carbon emissions
- to make travel safer during pandemic
- to determine & encourage more people to use public transport / walk (where ever possible)



Why?

Why do we need such a solution? Were we not traveling before?

Are we travelling the same?

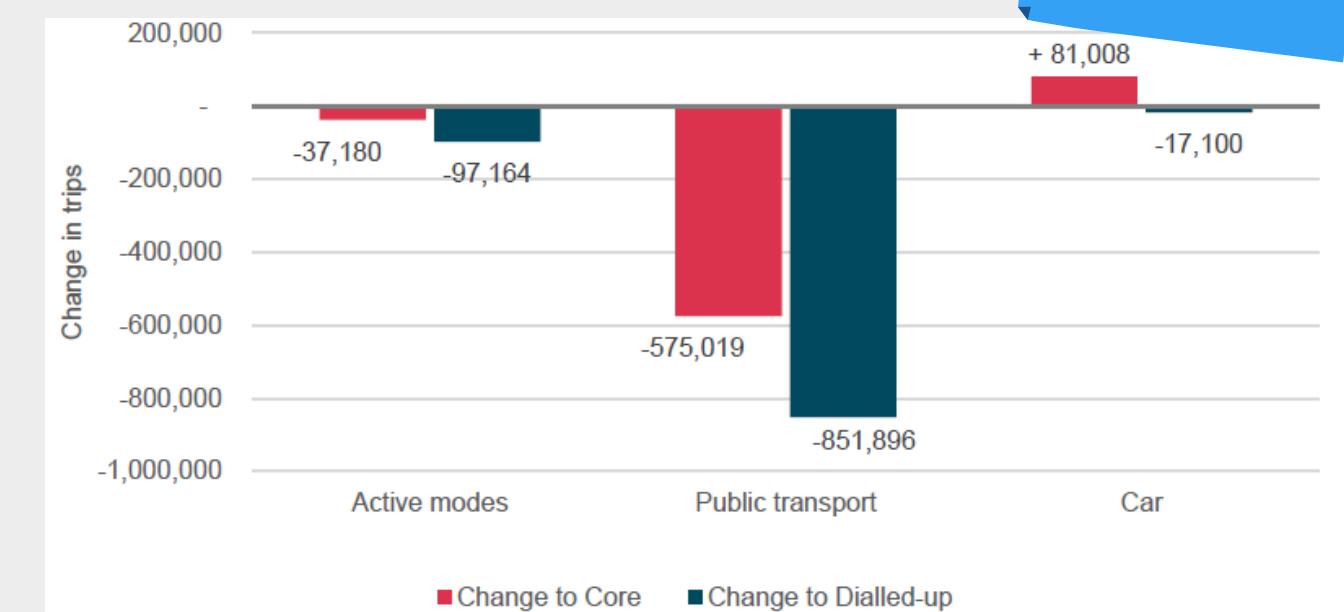
COVID-19 has altered our way of life dramatically.

Our social interactions, our professional dynamics, and our digital relationships are all transformed.

The Public Transport sector has certainly not been immune to that transition.

	Pre-lockdown			Full lockdown			Easing lockdown			Recovery		
	Car	PT	Active	Car	PT	Active	Car	PT	Active	Car	PT	Active
Melbourne	72%	10%	18%	81%	4%	15%	81%	5%	13%	-	-	-
Sydney	70%	12%	18%	79%	6%	15%	79%	8%	14%	-	-	-
Brisbane	83%	6%	10%	89%	3%	8%	88%	4%	8%	88%	4%	8%
Auckland	63%	9%	28%	58%	5%	37%	69%	6%	25%	69%	6%	24%

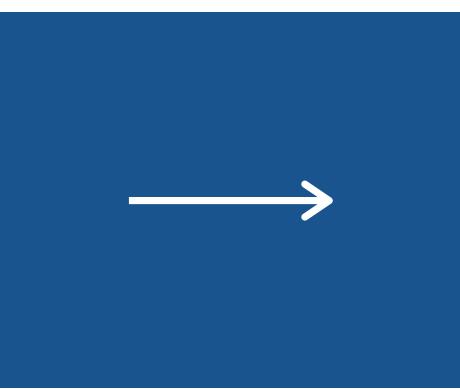
Implied mode share across cities and time period



Supporting people getting back to work and school

Initiatives / Awareness

- Provide a better experience through park and ride.
- Provide data on traffic congestions and parking availability to better map the journey and reduce travel time.
- Encourage environment-friendly options through a reward system.





Solution - PTV - Re-Imagined

01

INTEGRATE TRAVEL - PARKING WITH PTV

Help public navigate to parking
then to the destination

02

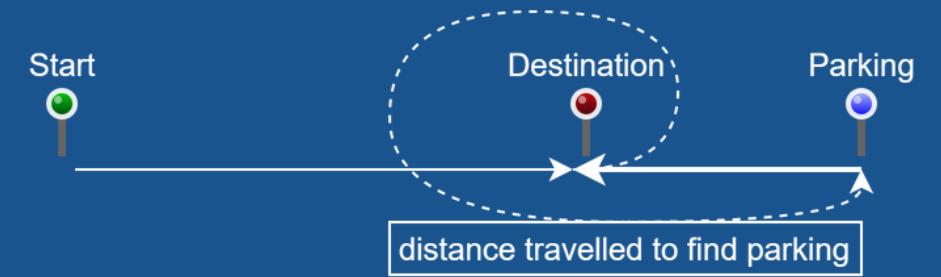
PUBLIC SAFETY : AVOID HIGHLY ACTIVE AREAS

Help pedestrians navigate from
A to B by avoiding active areas
which reduces transmission.

03

GREEN REWARDS

Give green points to people for
reducing transport emissions.
Which can be later redeemed
for vouchers.



Parking



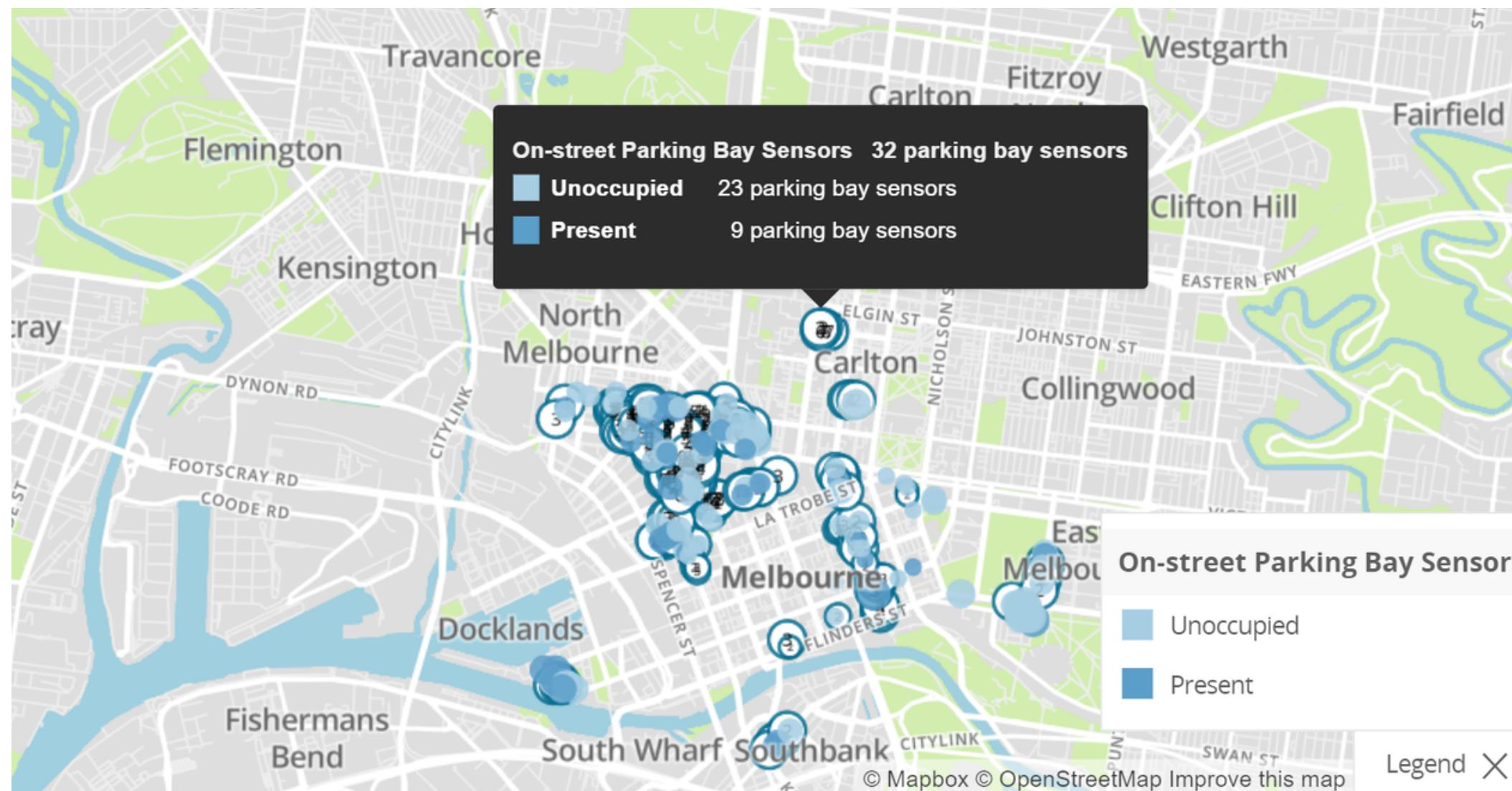
Avoid wasting time to find parking

Generate revenue for the government

Customers want to get quick parking

Integration with parking data can reduce CO₂ emissions (182grm/km), Saves time, reduces congestion

Parking Data



SHOWS NUMBER OF AVAILABLE SLOTS (BLUE MEANS AVAILABLE)

Can direct public towards less occupied zones and increase infrastructure usability and better experience to the public

Public Transport



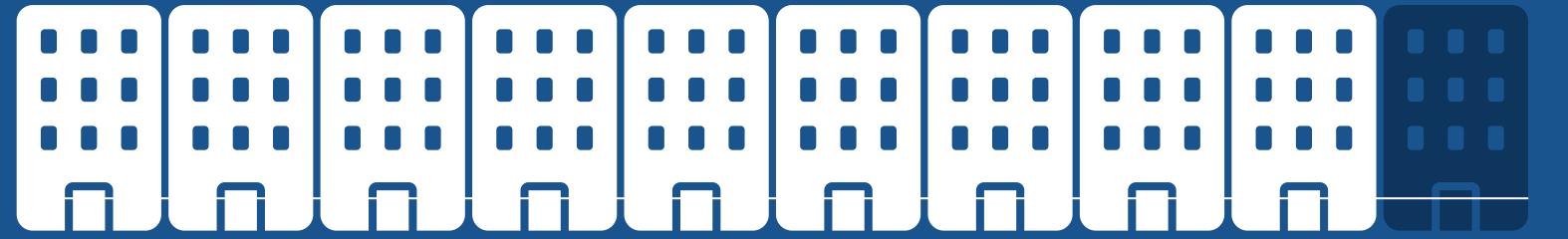
Rewards based
better
utilisation of
infrastructure

Increase in
revenue

Less private
transport on
roads

Reduced carbon
emissions

Infrastructure



Better
utilisation of
infrastructure

Avoid high stress in
particular areas

More revenue
generation

Graphs and charts will
provide better view to
plan infrastructure
strategies.

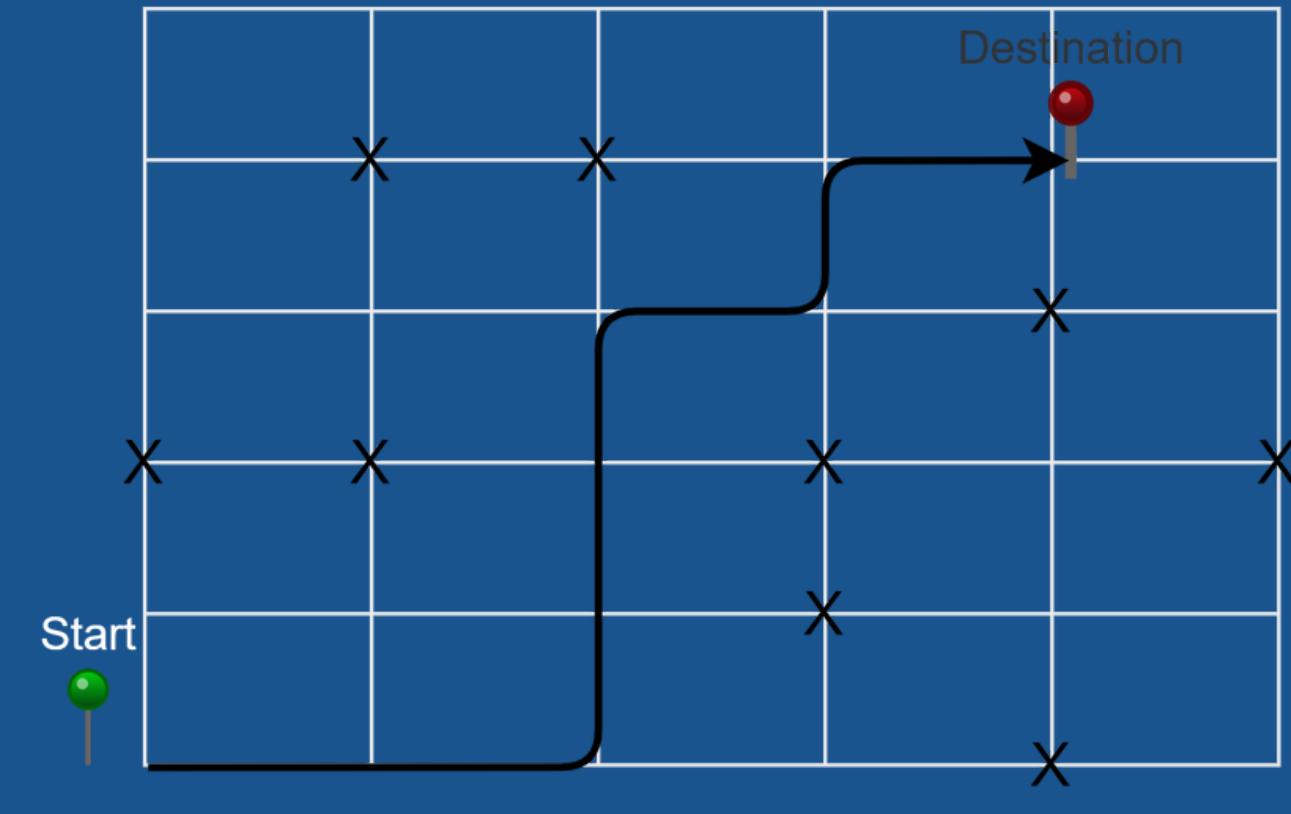
Active travelling



Reduce transmission rates

Visualize complicated and dense information with charts and graphs.

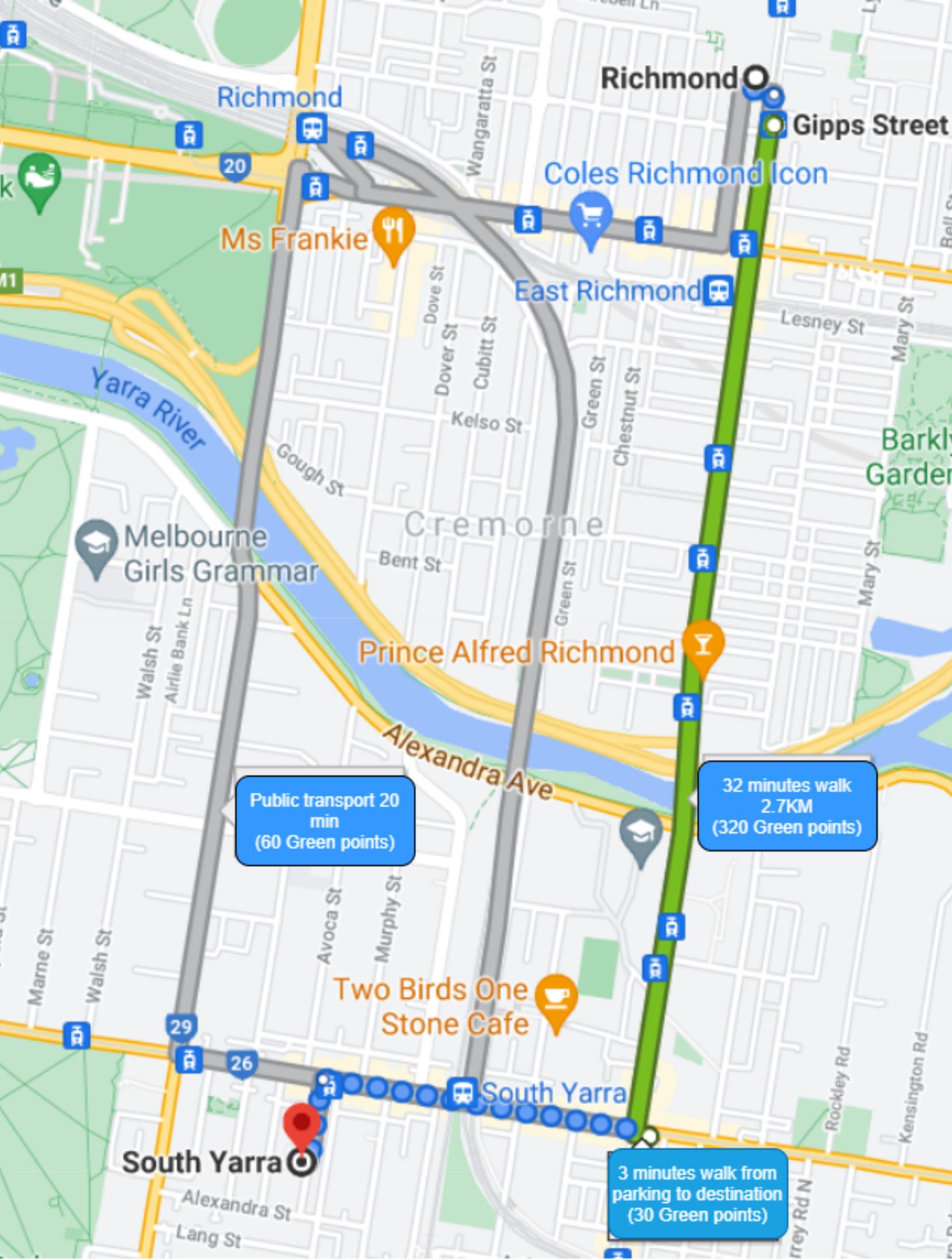
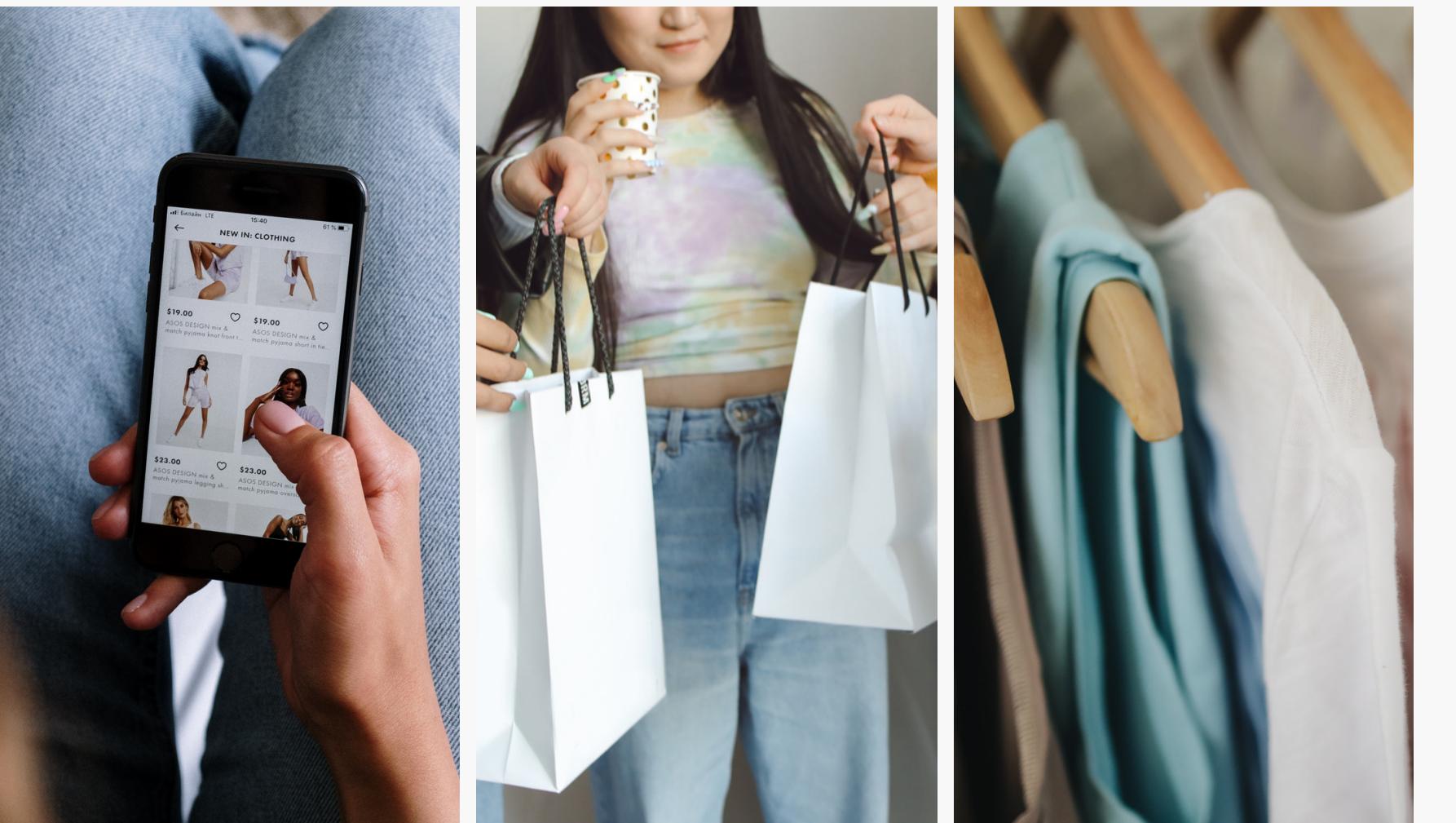
customers want more real-time updates



Charts and graphs help people process and understand the impact of services

Rewards System

Get rewarded for economic travel

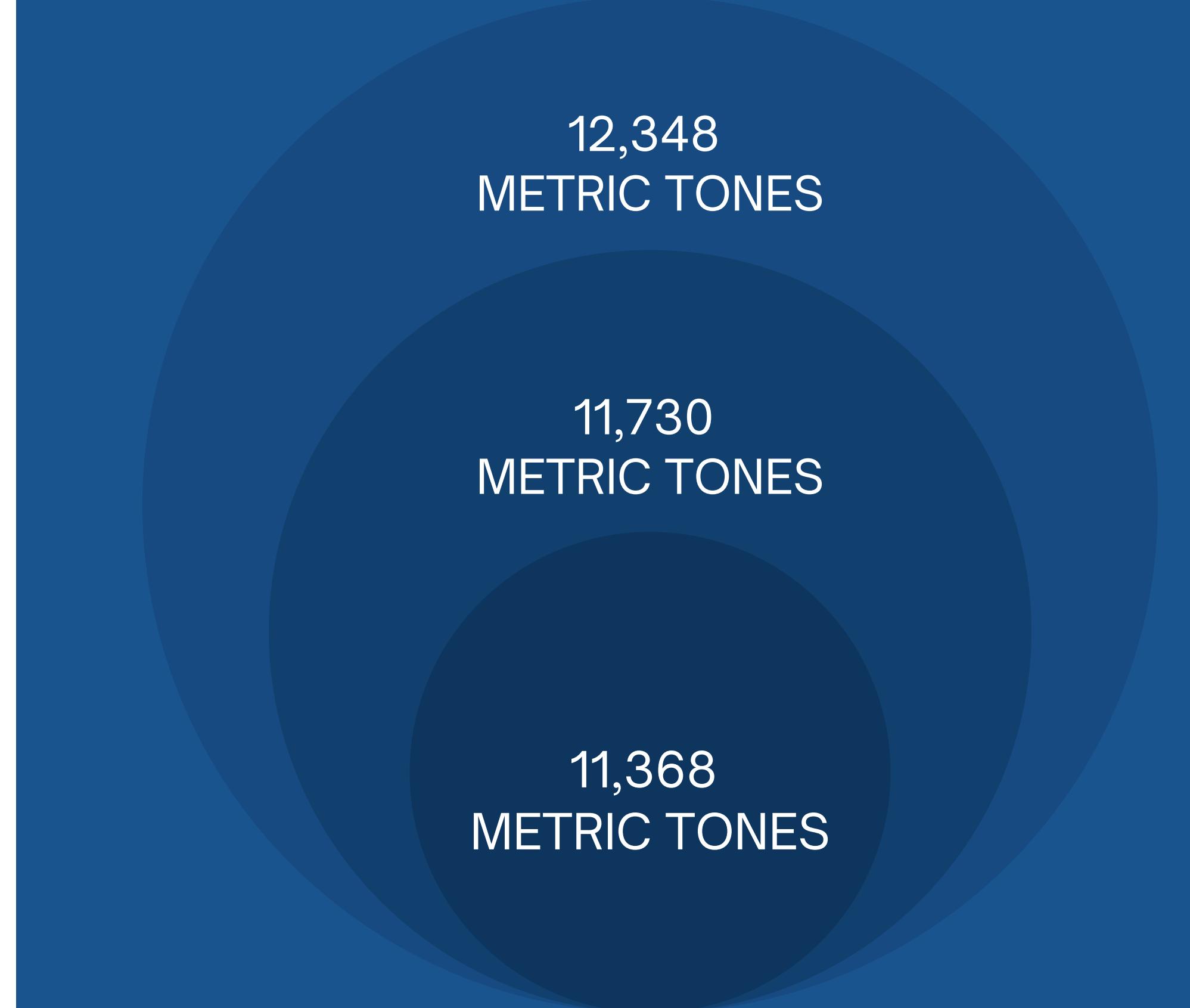


Reduction in carbon emissions

Pre-covid emissions **12,348 Metric tones**

Predicted emissions **11,730 Metric tones**
5% ↓ (Pre-Covid)

Covid-emissions **11,368 Metric tones**



**12,348
METRIC TONES**

**11,730
METRIC TONES**

**11,368
METRIC TONES**



Navigation

Go to

- Traffic Volume
- Parking
- Pedestrian
- Green Rewards

Filter columns

X X

X

X

X

X

X

X

X

X

X

X

X

X

X X

X X

X X

Demo

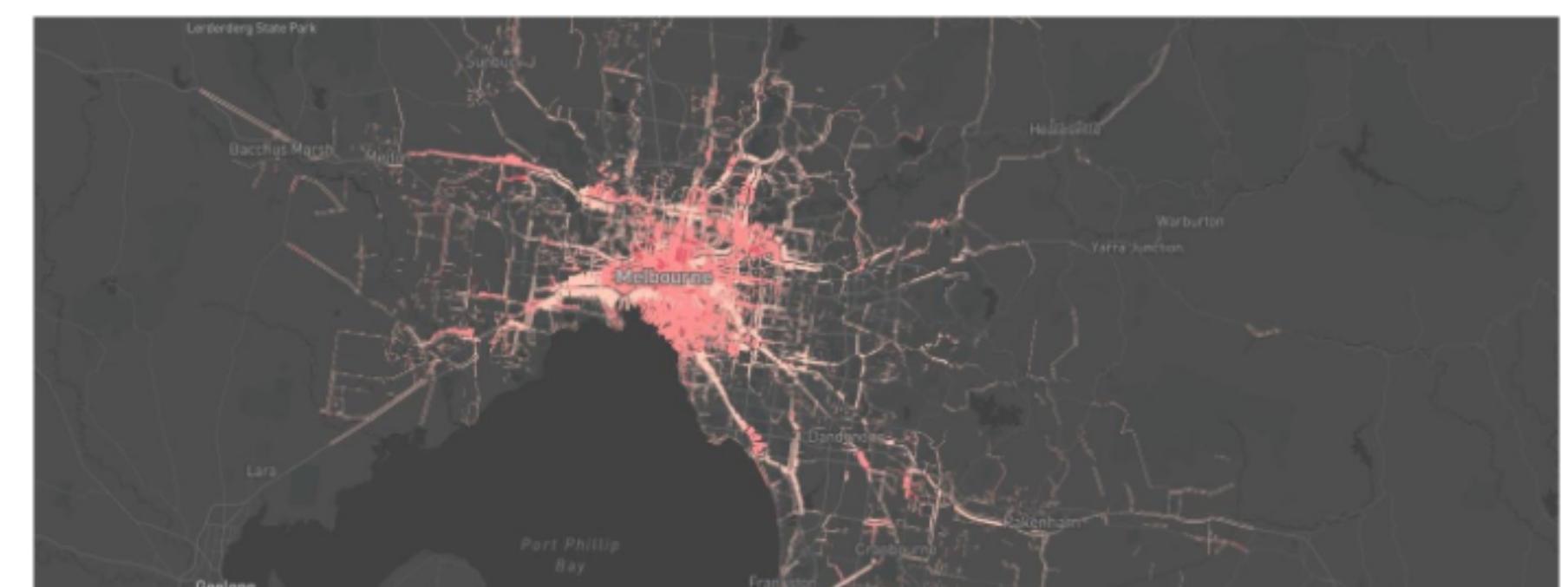
Victoria Traffic Data!

This app visualise transportation usage across Melbourne using city of Melbourne [open data!](#)

Data Dimension: 14674 rows and 50 columns.

[Download CSV File](#)

	OBJECTID_1	OBJECTID	TIS_ID	HMGNS_FLOW_ID	HMGNS_LNK_ID	HMGNS
0		1	743	14915	14915	2006 MARYSVILLE-WOO
1		2	650	14140	14140	8786 STEELS CREEK R
2		3	701	12113	12113	6035 LATROBE ROAD b
3		4	702	12897	12897	7079 CASTERTON ROAD
4		5	703	9893	9893	3475 HUTTON ROAD bt
5		6	704	14009	14009	7954 GREEN GULLY RO
6		7	705	12552	12552	6450 PRINCES HIGHWA
7		8	706	12967	12967	7398 BOUNDARY ROAD
8		9	707	11197	11197	5339 FERNTREE GULLY
9		10	708	9606	9606	3016 SHARPS ROAD bt
10		11	709	8723	8723	3345 HARROW-BALMORA





OUR UNIQUE VALUE PROPOSITION

We're in to solve multiple ground level challenges

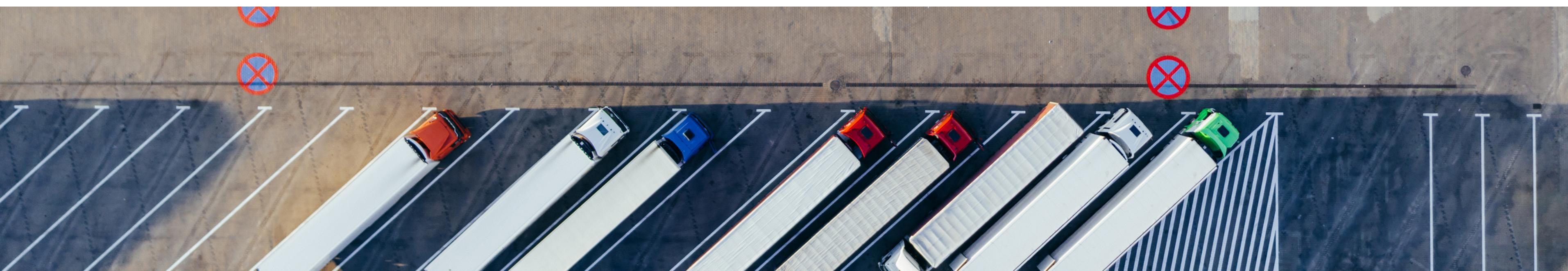
FEATURES		BENEFITS
<ul style="list-style-type: none">• Track best time for logistic movement• Avoid high pedestrian zones• Quick parking• Transport information• Carbon emission information	Smooth and seamless experience	Real-time updates Fast travel Reduced emissions



Opportunity for the broader transport system and associated services

logistics and Trucking

- Better travel (in terms of time and emissions) for the Logistics and Trucking industry.
- Provide parking availability info. for better time management and generate revenue.
- Provide emission and cost information to support economical ways to travel.



HIGHLIGHTS



01 INTEGRATED TRAVEL

By encouraging people to use public transport integrating with multiple options, optimized way to find parking

02 PUBLIC SAFETY

Providing dynamic assistance to find less dense and safe travel options.

03 GREEN REWARDS

Gamification to encourage carbon emission reduction, avoiding highly dense transport options or areas

04 ENHANCED INCLUSIVE EXPERIENCE

Increasing public awareness and interaction with the application which can be further used to improve and optimise

**Staying Ahead for a Sustainable Future &
Adapting to New Normal**

Thank you!

Have a great
day ahead.

The Team

Vivek, Thiru, Ben, Antony & Praveen

The goal is to encourage the use of public transport, reduce travel time, reduce congestion, and an overall better experience for the public and the government.



Vivek



Thiru



Praveen



Ben



Antony