

# Transport Innovation through Open Platforms and Partnerships

**Chris Bennetts PSM** 

**Executive Director** 

Digital Products Delivery

Transport for NSW



### Technology Video

https://www.youtube.com/watch?v=FA7Nsi-

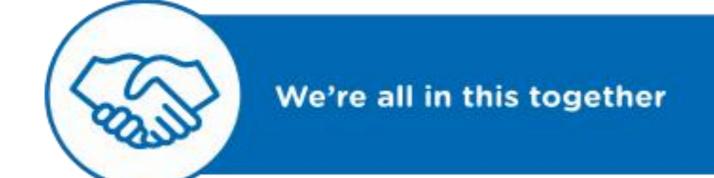
AXBk&feature=youtu.be





# Five key technology strategies to deliver customer outcomes











#### Personalise customer interaction:

Develop digital platforms that provide rich, contextual information, frictionless payment, easy navigation and two-way engagement to customise transport experiences



#### Transform the mass transit network:

Apply technologies to automate mass transit solutions, improve their efficiency, deliver better service frequency and reduce transit times



#### Foster shared, demand-responsive services:

Develop flexible and shared-use transport service models based on aggregated demand to meet market needs and extend transport access



#### Enable connected, automated vehicle platforms:

Support adoption of vehicles and infrastructure that deploy automation to efficiently, reliably and safely move people, goods and services



#### Create intelligent transport networks, managed with data:

Install technologies and build networks that actively gather data.

Use AI and real-time analytics to manage demand, optimise capacity, improve flows and enable better customer outcomes.



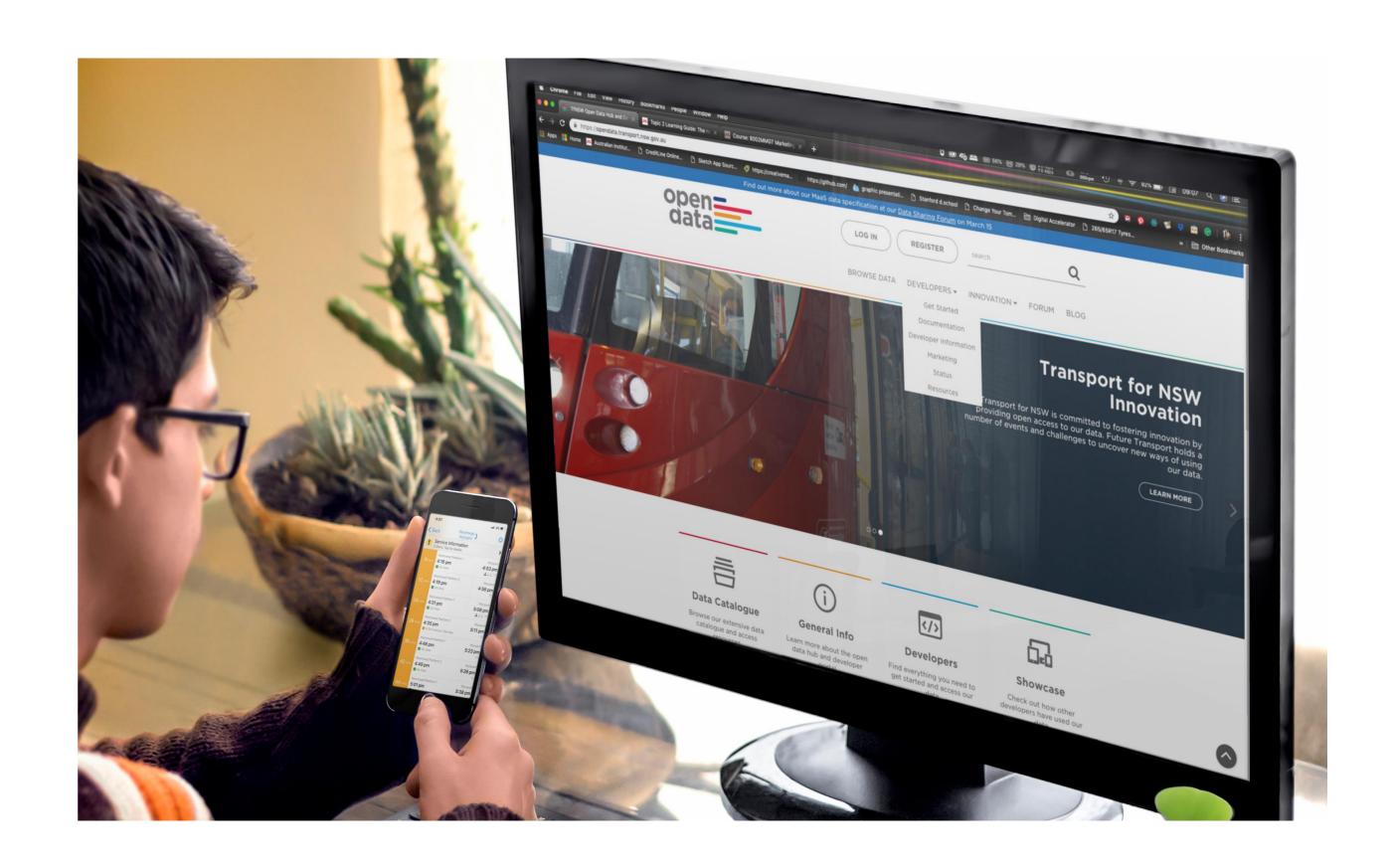
# 15 'No Regrets' initiatives...

Personalise customer interactions	Integrate and transform digital channels for tailored, two-way interactions	Extend Opal functionality to create a state-wide mobility payment platform	Develop a single integrated account for mobility services
Transform the mass transit network	Automate networks and optimise timetable planning, service delivery and performance	Use analytics to optimise end-to-end customer journeys, routes and interchanges	Create the blueprint for highly automated an fully digitised mass-transit networks
Foster shared, demand responsive services	Trial on-demand transport services	Pilot a customised service model for regional centers that includes on-demand services	Incubate new ventures that encourage shared mobility services
Enable connected, automated vehicle platforms	Activate the Smart Innovation Centre for advanced transport technology	Foster development of the regulatory environment to support automated vehicles	Develop a Blueprint and operating model for automated vehicles on network
Create intelligent transport networks, managed with data	Set up a Transport Data Science Incubator and expand Open Data	Trial AI applications that improve network management and/ or customer service	Integrate predictive analytics into network asset management and maintenance



# Open Data: a key platform for innovation

- 5+ billion API Hits
- 29,000+ registered users
- 4,500+ applications

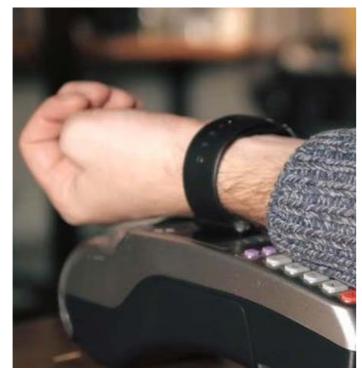




# Contactless Payments opens our public transport system – 30Million Journeys completed

#### Customers can pay with:







#### Anything that is a:

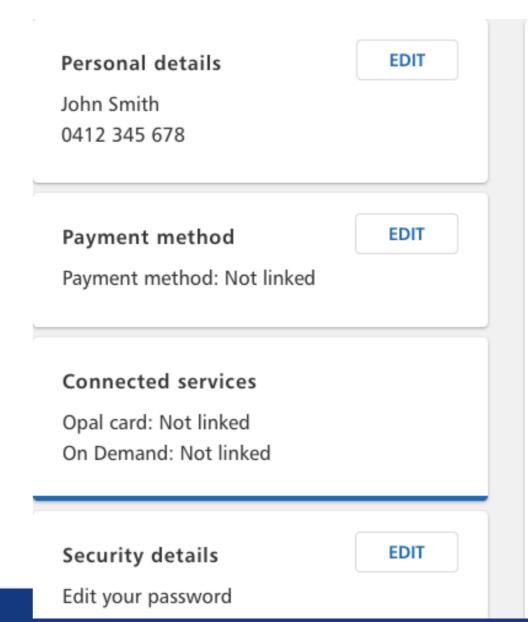


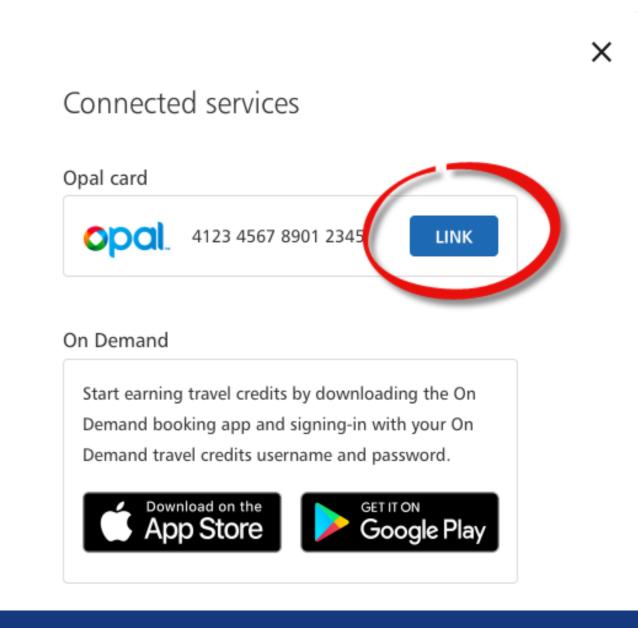
Now available on Ferries, Buses, Light Rail and Trains...



## Opal Connect

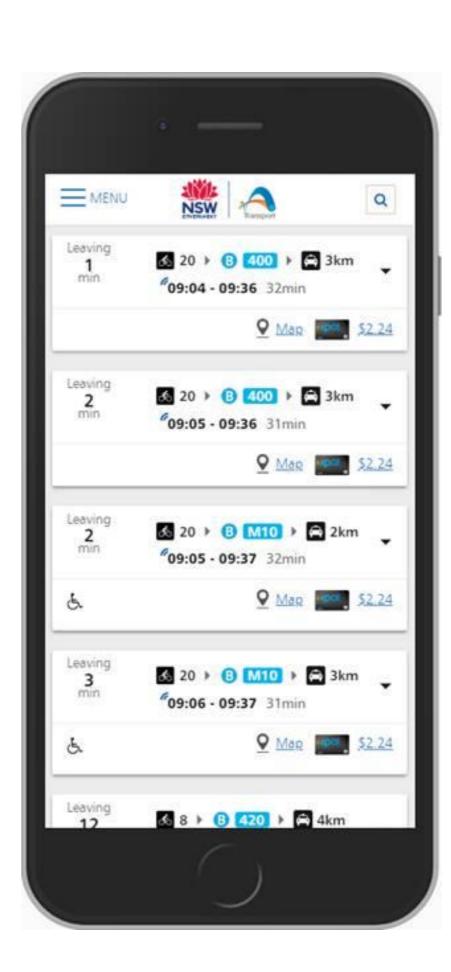
- An Opal Connect account earns you travel credits each time you use an On Demand service and then transfer to an Opal service
- Currently in trial at Edmondson Park, The Ponds and Norwest with Opal
- Use the credits to pay for future
   On Demand trips





# Transportnsw.info MaaS Trial

- To include walk, cycle, ride share and bike share options in the transportnsw.info trip planner
- Cycling/drive, on-demand and point-2-point is now in trip planner on .info and Opal Travel app
- Trial began in December 2019







# transport digital accelerator

Collaborate. Innovate. Activate.







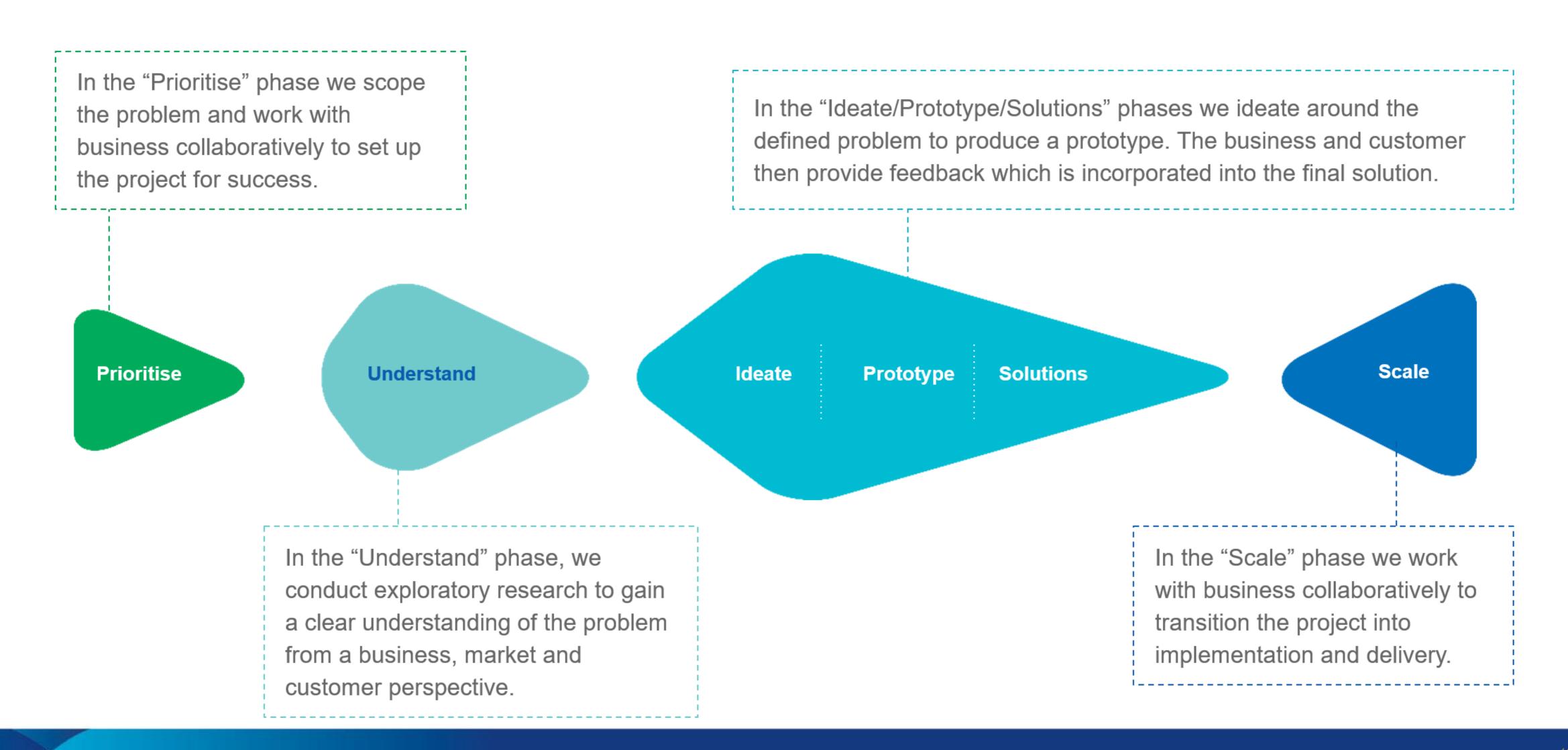








#### The Transport Digital Accelerator follows a four-phase approach:





# We team up with Industry Partners



























University of Technology Sydney (B) (B)

Stops nearby

SYDNEY

Sydney

ULTIMO

Harris St 13

SURRY HILLS

ULTIMO

Broadway

SURRY HOLLS

SURRY HILLS

HAYMARKET

Pitt St 13

at Barlow St

HAYMARKET

HAYMARKET

REDFERN

Pitt St 13

before Hay St

before Pitt St

Cleveland St <sup>1</sup>

Show more nearby stops

Pitt St 13

opp Barlow St

before Broadway

opp Bedford St

Chalmers St 📵 📵

Elizabeth St 🛛 📵

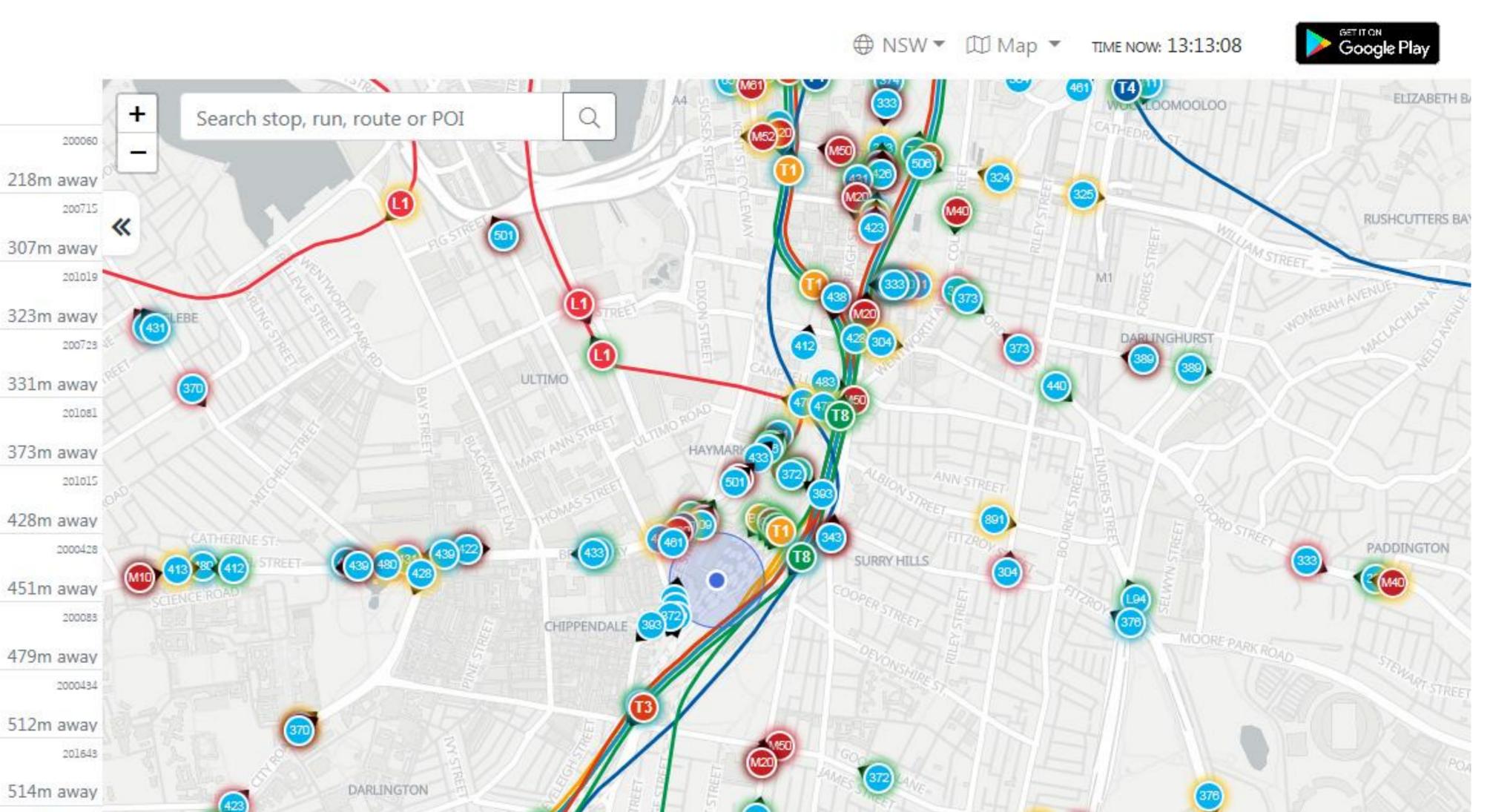
Chalmers St 📵 📵 📵

at Devonshire St

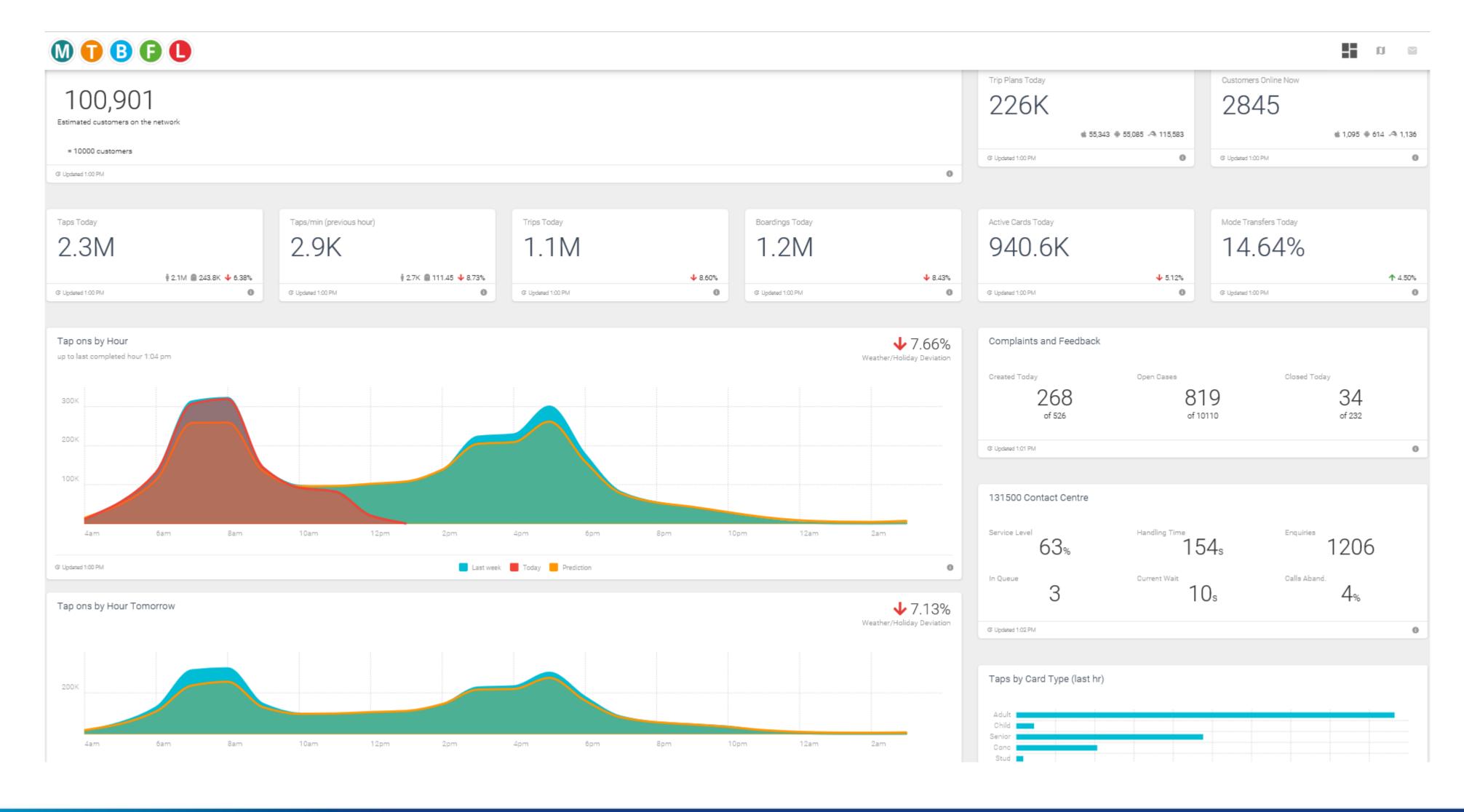
opp Belvoir St

What's new?

370 30 23

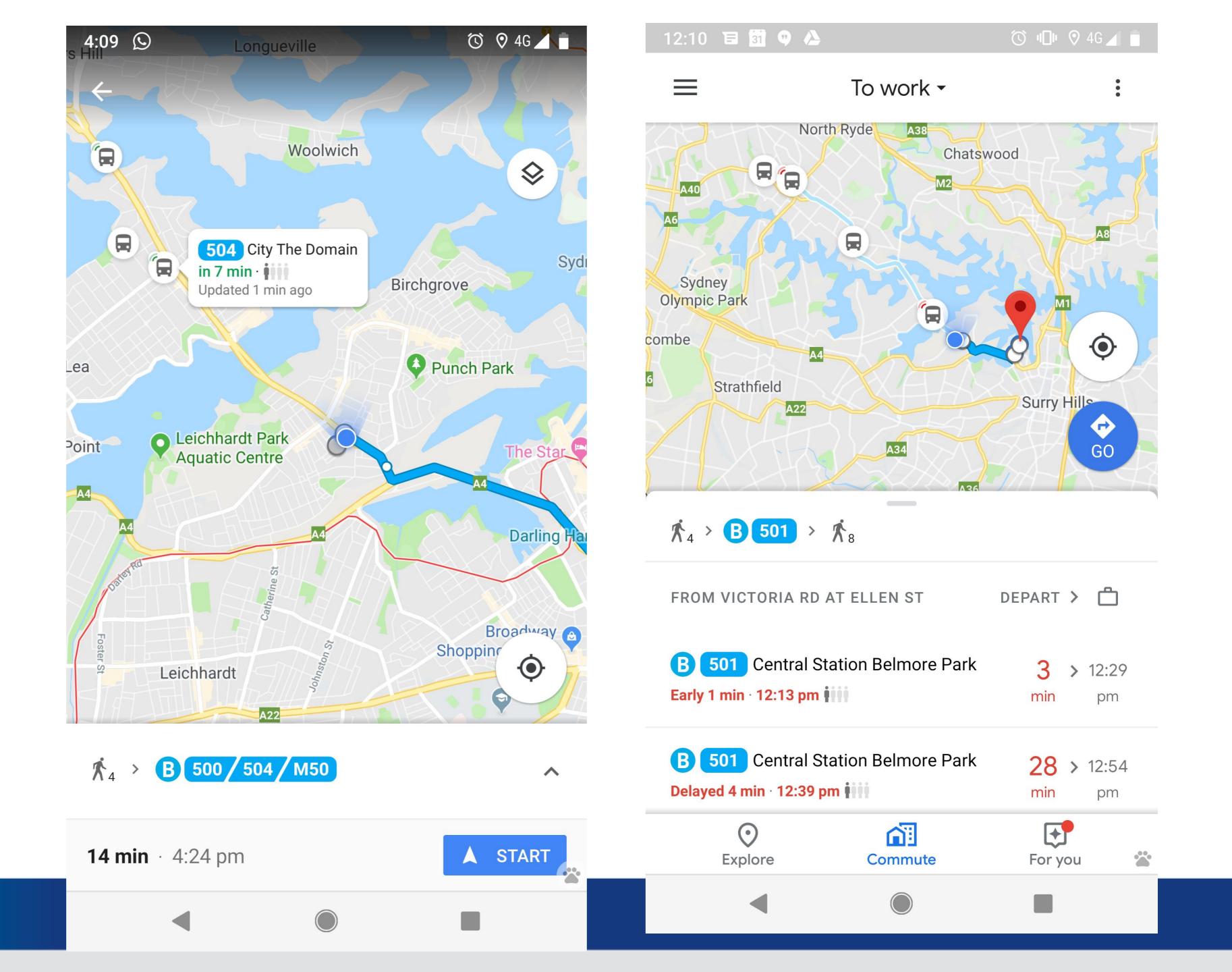


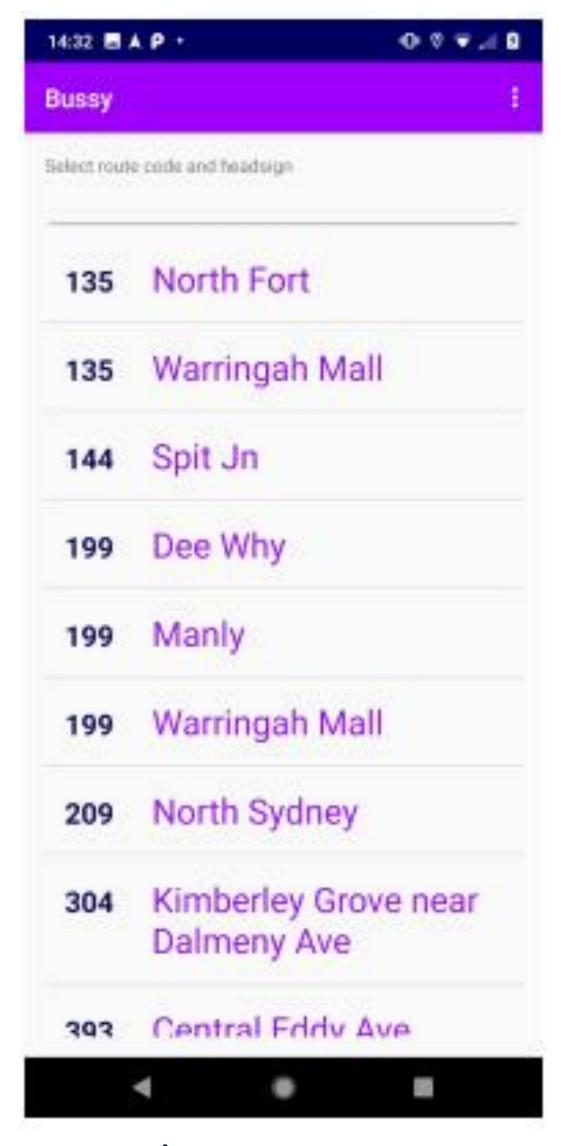




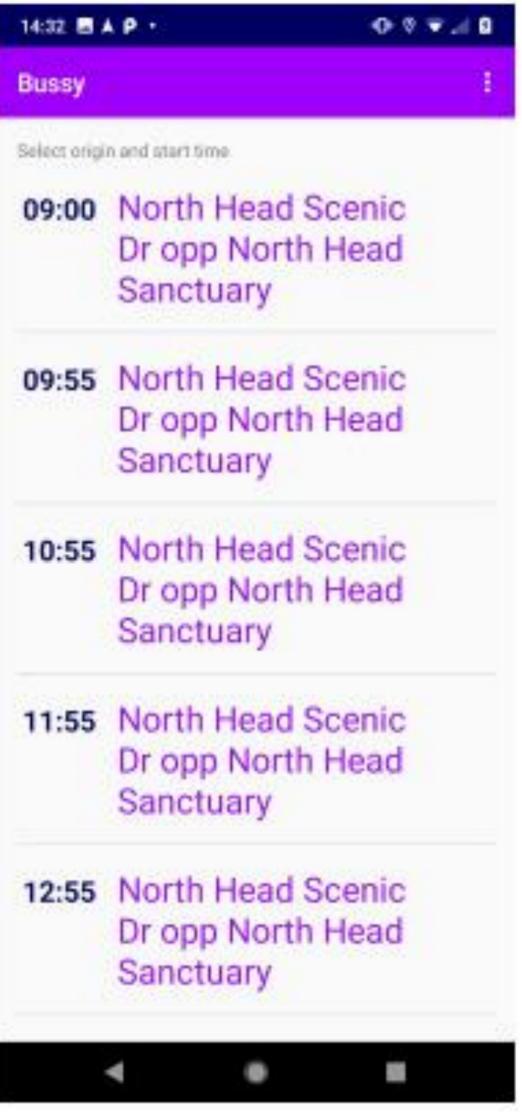


# Bus on Maps

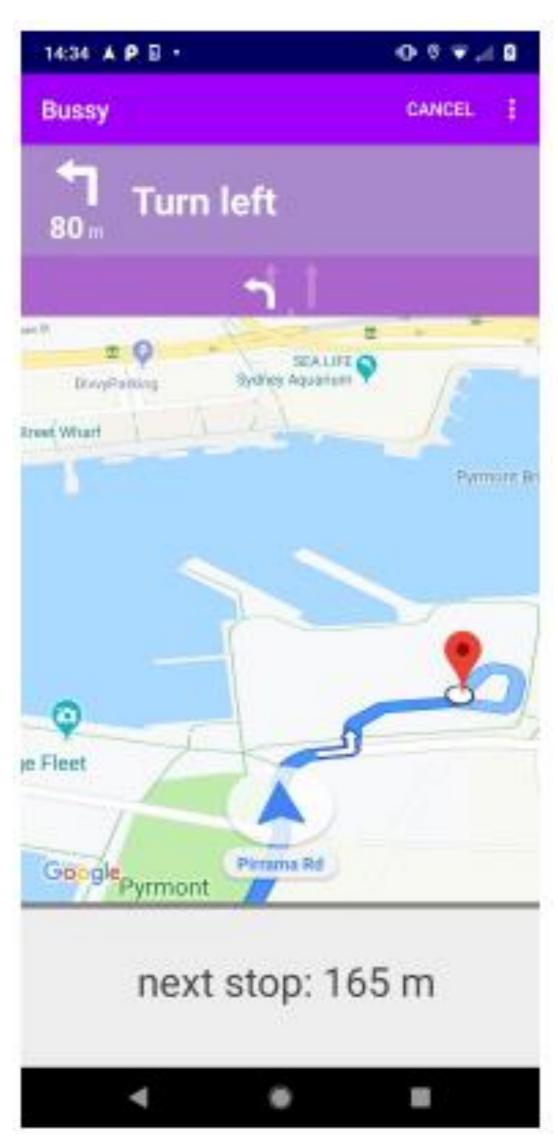




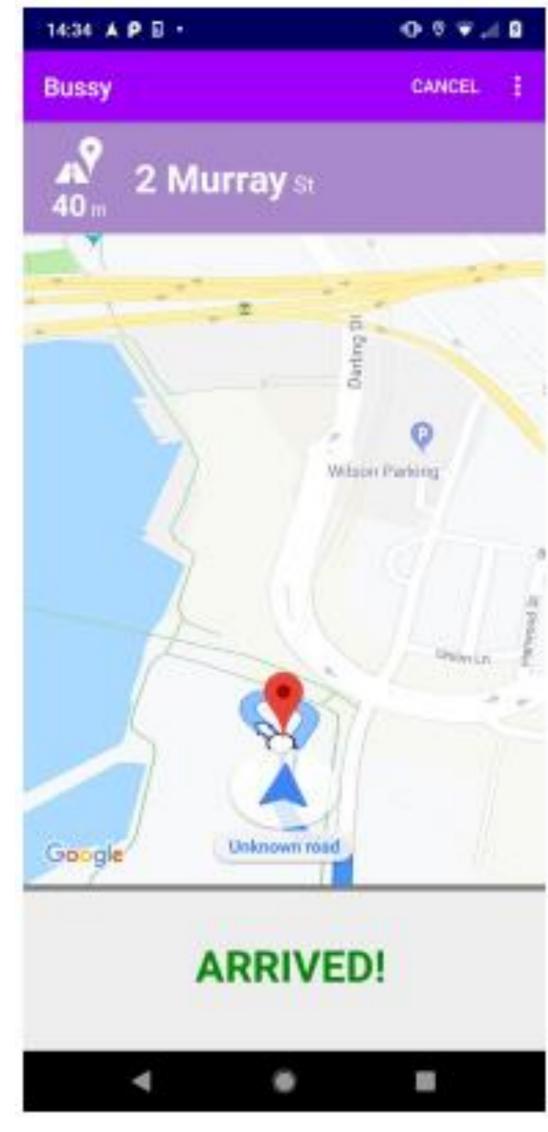
Select Route



Select Origin



Trip Guidance



**Complete Trip** 

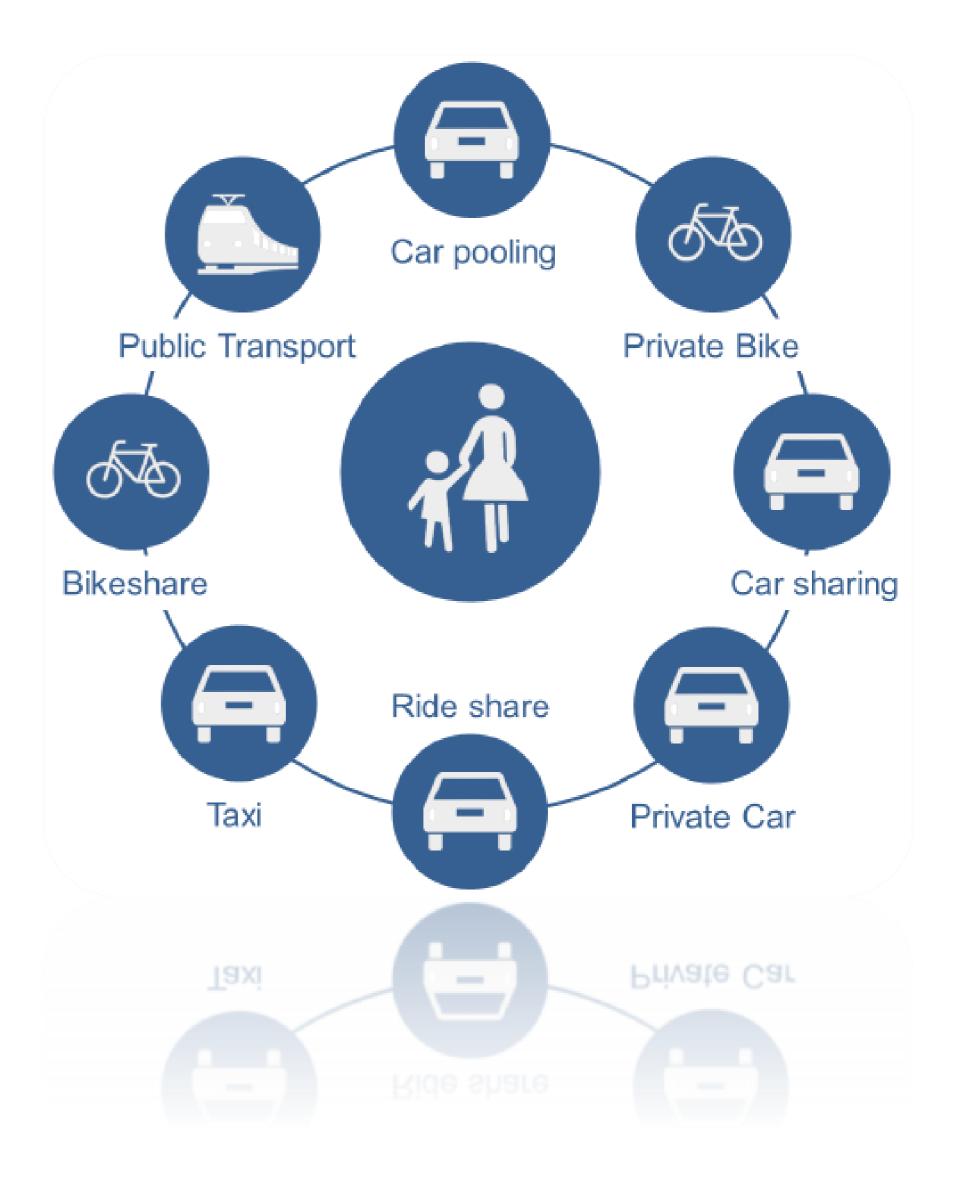
### Our MaaS Vision

A vibrant, open mobility marketplace where providers compete to best meet community & customer needs with compelling alternatives to car ownership.

Sharing data for full network optimisation.

Why are more mobility options required?

- Increasing population: 11 million people will live in NSW by 2056
- Last mile connectivity can be better
- "3 cities" within Greater Sydney and beyond
- Car is still king

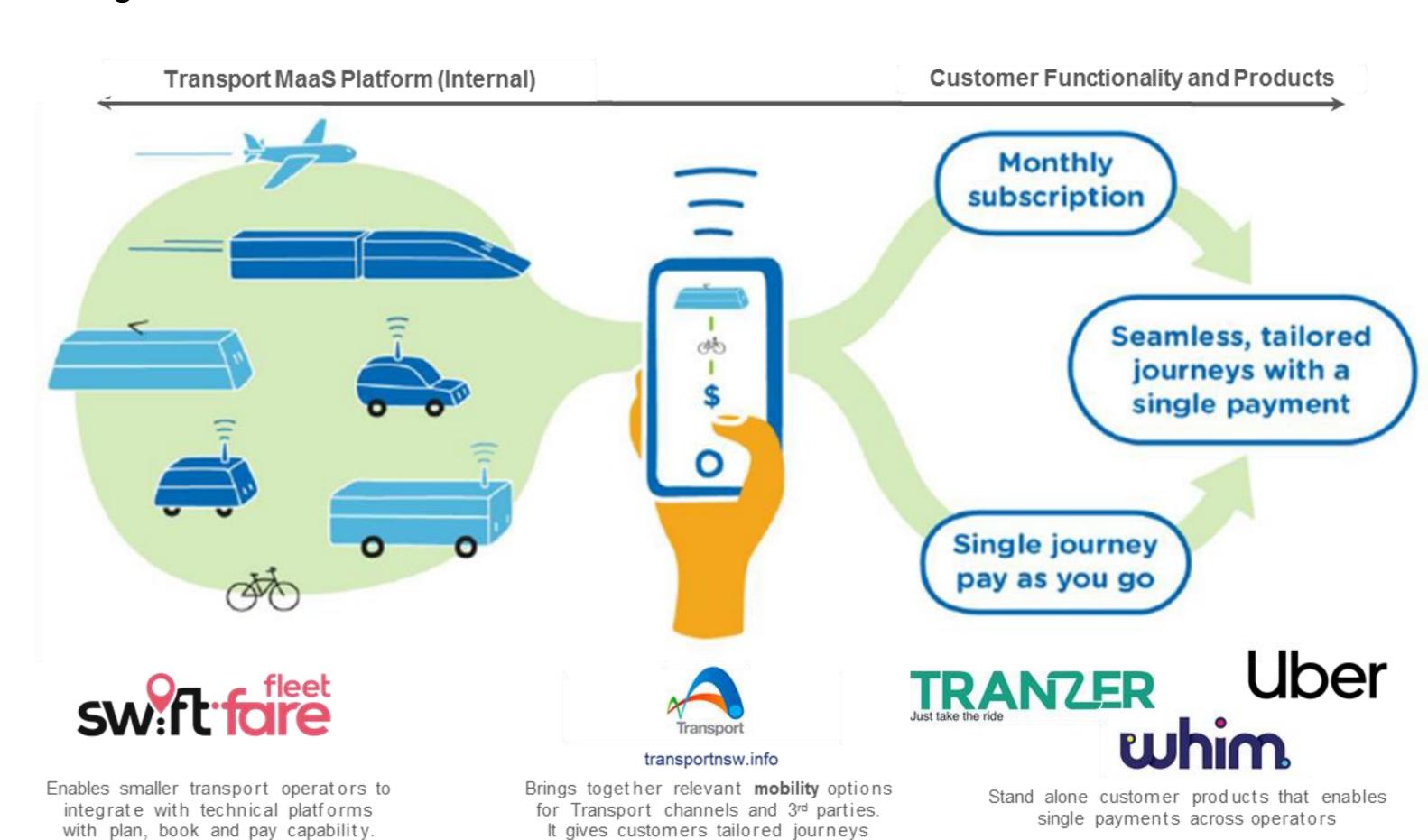


# MaaS Innovation Challenge

How would you give customers optimal door-to-door mobility service options and seamless combinations for their situation, including the first and last mile?

#### Results of the Challenge

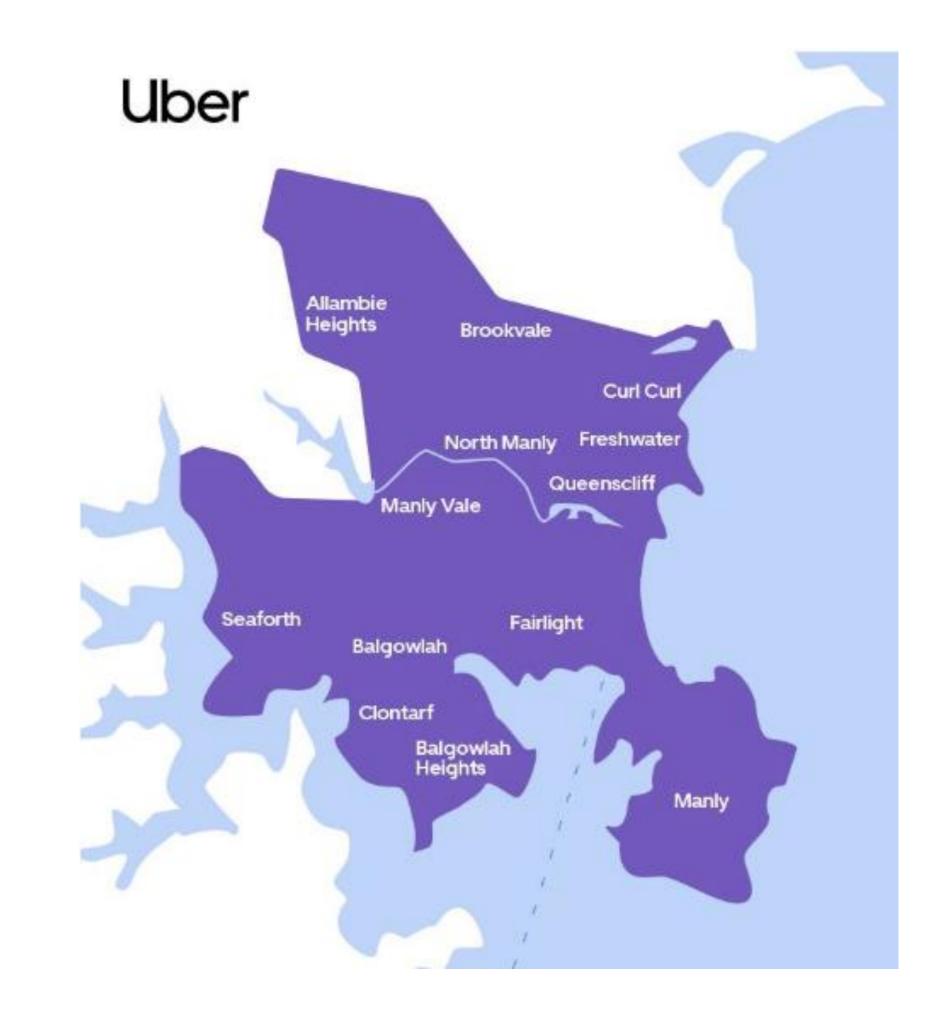
- Platform focus means barriers to entry removed
- MaaS product trials in progress
- MaaS Data Sharing Specification launched
   World First!
- Journey planner integration underway cycling, driving, on-demand, point-2-point integrated



It gives customers tailored journeys options

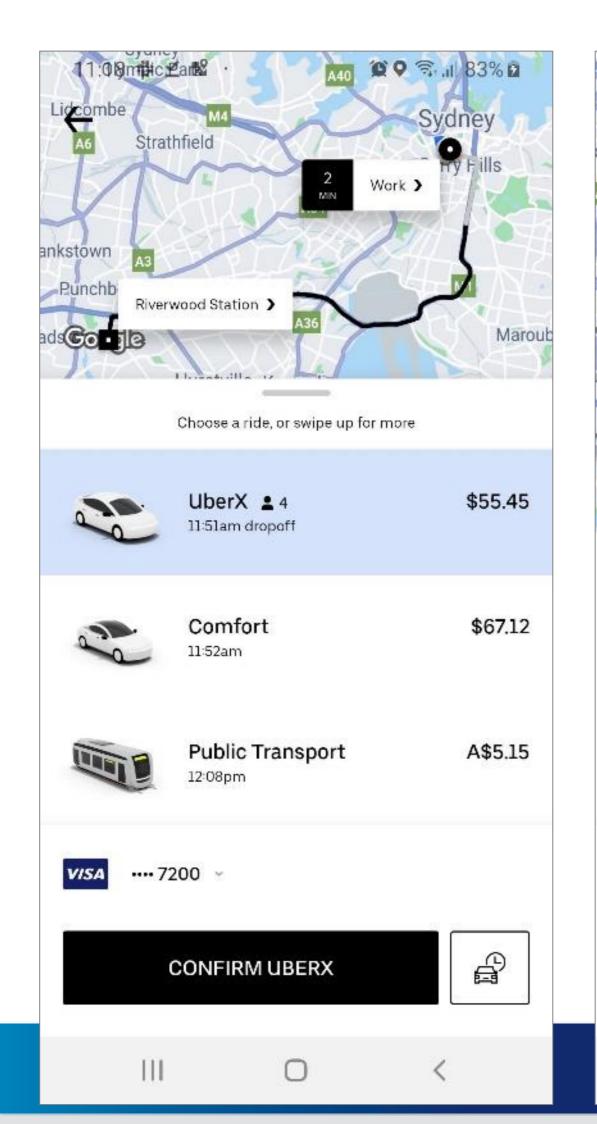
# FerryConnect Trial by Uber

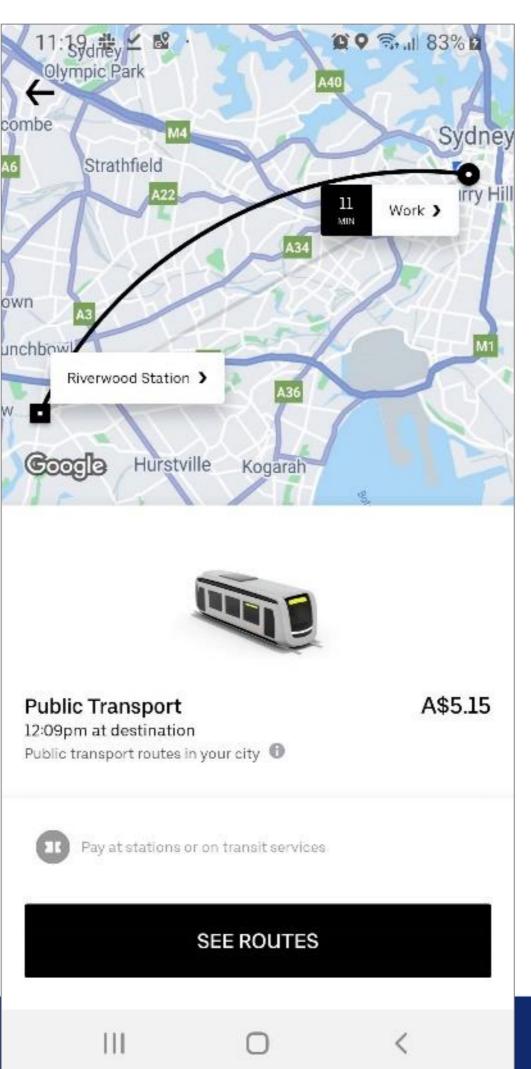
- \$3.50 pool rides to and from Manly Ferry Wharf
- Repeat customers

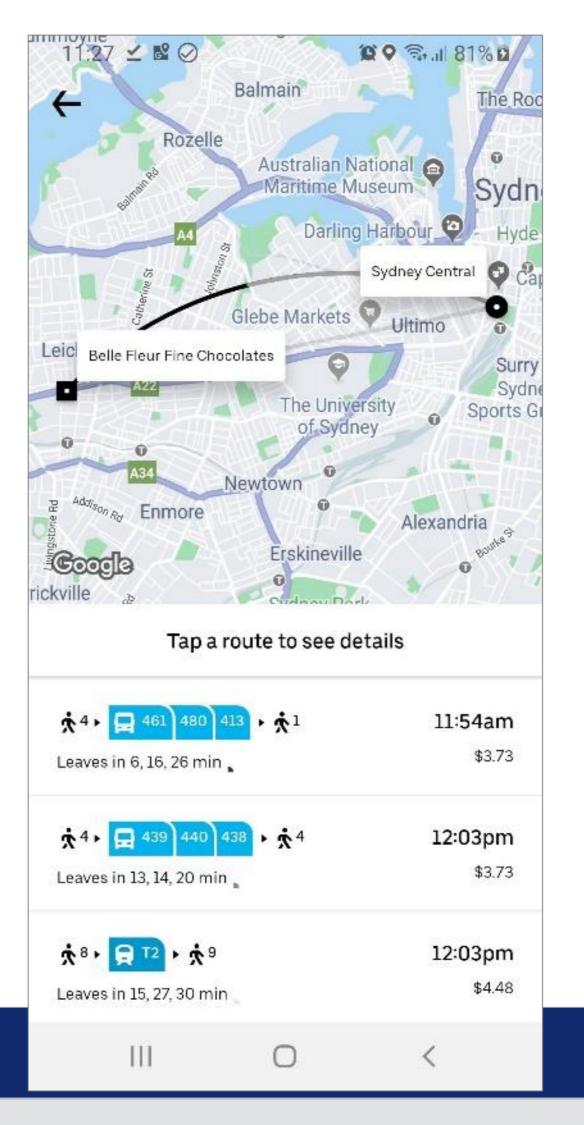


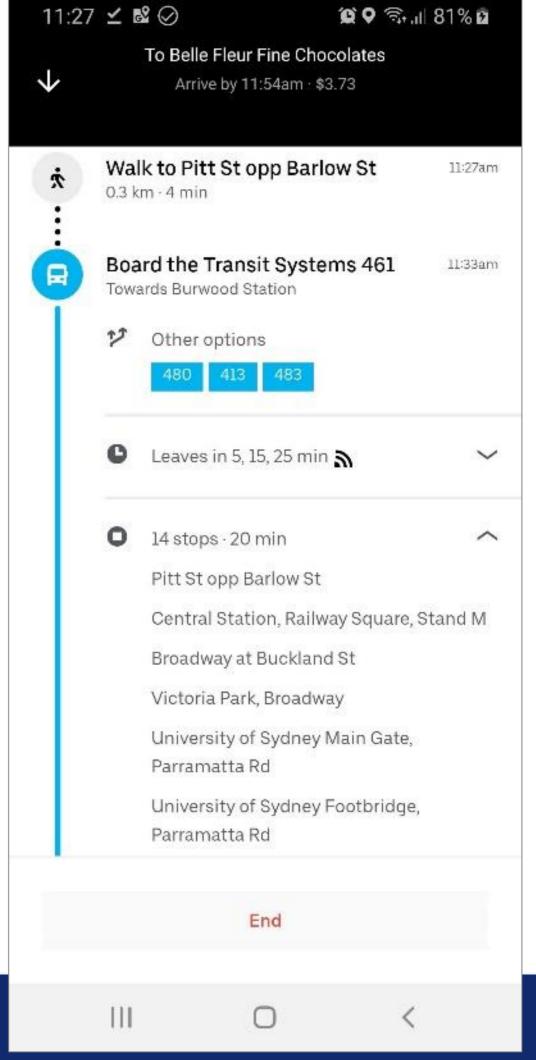
# Uber with public transport

Include public transport modes in the Uber app journey planner



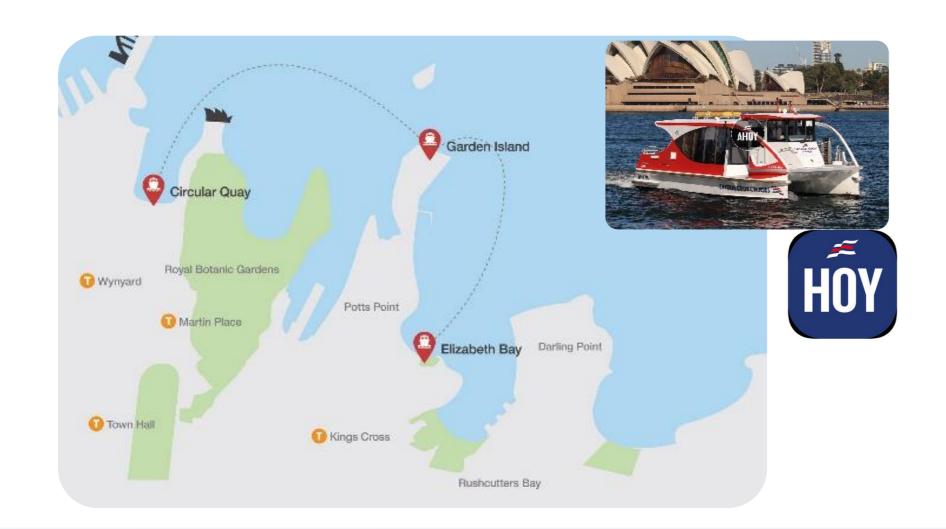






#### Swiftfare Fleet

- Delivered app 'HOY' for new on demand ferry service operated by Captain Cook Cruises making the services realtime and bookable
- App in testing for Randwick Waverley Community Transport making the services realtime and bookable
- Route Editor Live a service for operators to create real time routes and timetables without understanding complex data processes and standards.







#### Contacts:

#### **Kurt Brissett**

Director
Ticketing Solutions Development
Kurt.Brissett@transport.nsw.gov.au

#### **Brooke Knox**

Director
Industry Engagement and Innovation
Partnerships
Brooke.Knox@transport.nsw.gov.au

#### **Stephanie Salter**

Director
Future Transport Digital Accelerator
Stephanie.Salter@transport.nsw.gov.au

#### **Micah Starkis**

Director
Open Data, Apps & Customer
Feedback Systems

Micah.Starkis@transport.nsw.gov.au