

Transport

SmartNSW

Unlocking the value of data

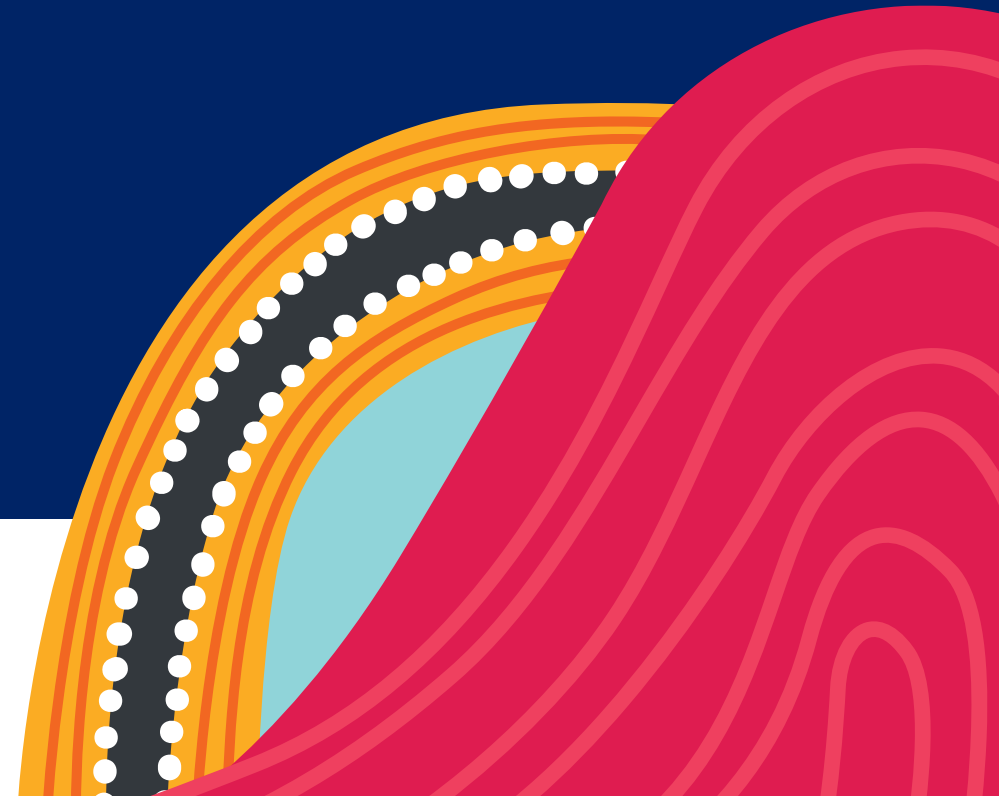
Simone Roberts, Executive Director
Advanced Analytics & Insights

Sept 2023



transport.nsw.gov.au

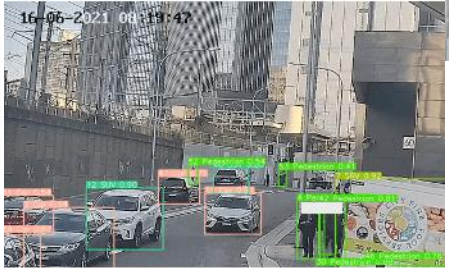
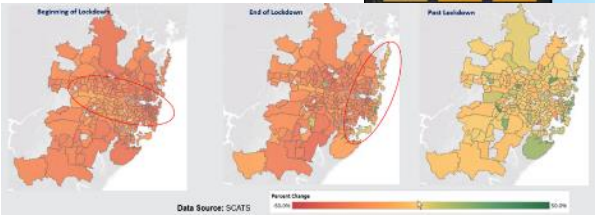
OFFICIAL



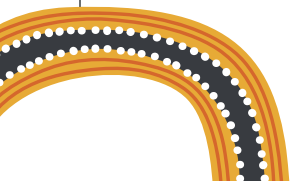
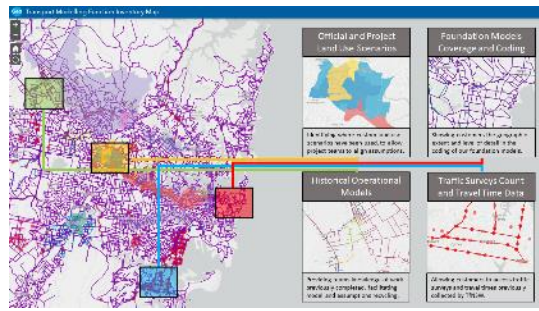
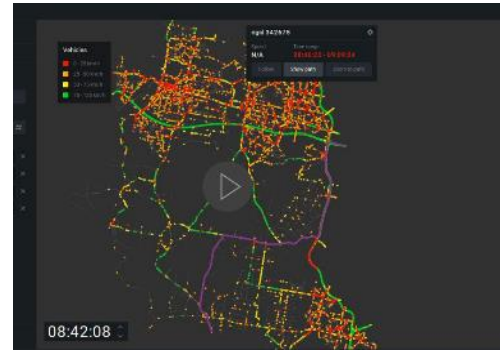
Transport uses data everyday to drive decision now and for the future

Operations Management

Design and Planning



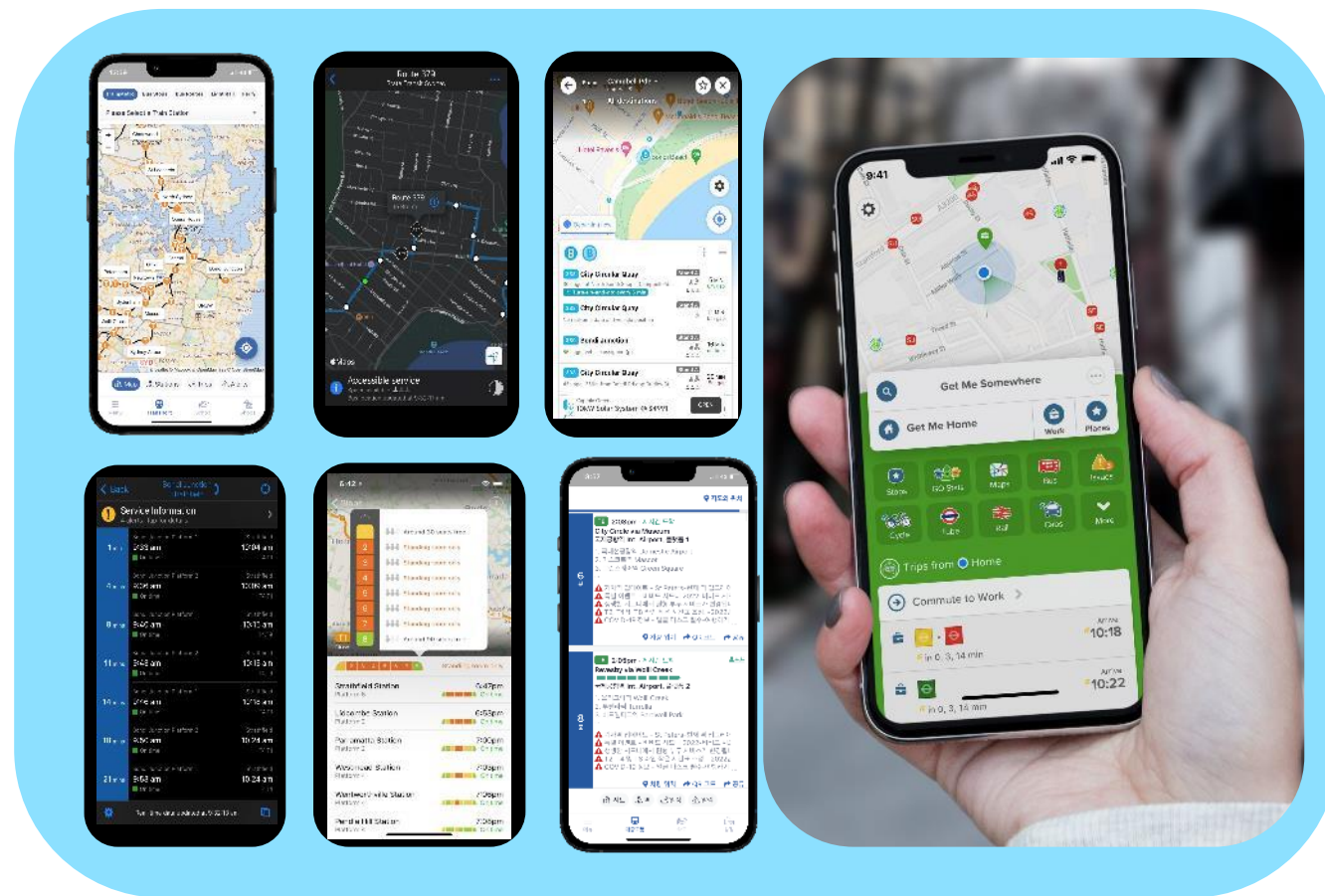
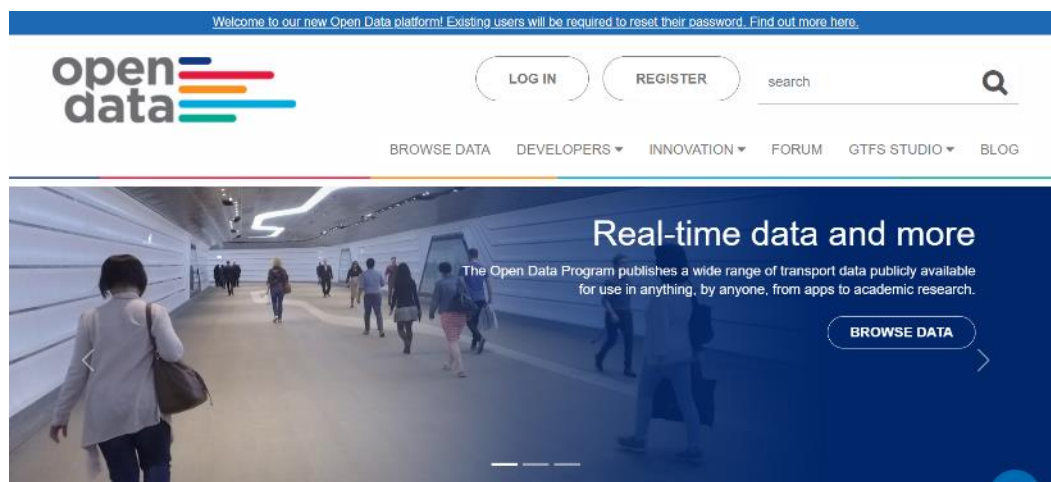
Zone	2019	2020	2021	2022
Zone 1	100%	95%	90%	85%
Zone 2	100%	98%	92%	88%
Zone 3	100%	96%	91%	86%
Zone 4	100%	94%	89%	84%
Zone 5	100%	92%	87%	82%
Zone 6	100%	90%	85%	80%
Zone 7	100%	88%	83%	78%
Zone 8	100%	86%	81%	76%
Zone 9	100%	84%	79%	74%
Zone 10	100%	82%	77%	72%



Our use and vision for data is outlined in the Transport Data Strategy

Transport Open Data Program

Transport has been providing Open Data for the last 7 years



The Open Data program provides community developers with data they need to improve Transport services and has endorsed thousands of apps for customer use

We are expanding Open Data to Open Insights

Home / Data and research / Data and Insights

Data and Insights

On this page

- Travel Insights
- Registration and Licensing Statistics Portal
- Performance Reports
- Customer Insights

Travel Insights

Public Transport Trips - All Modes

View weekly, monthly and yearly trips for all modes from 2016 onwards. Opal trips for each of the modes can be viewed through this.

Sydney CBD Trips

View weekly, monthly and yearly trips for Sydney CBD from July 2016 onwards for all available modes.

Historical Trips by Financial Year - All Modes

View Historical annual number of trips across all modes from financial year 2010/2011 to present.

Household Travel Survey (HTS)

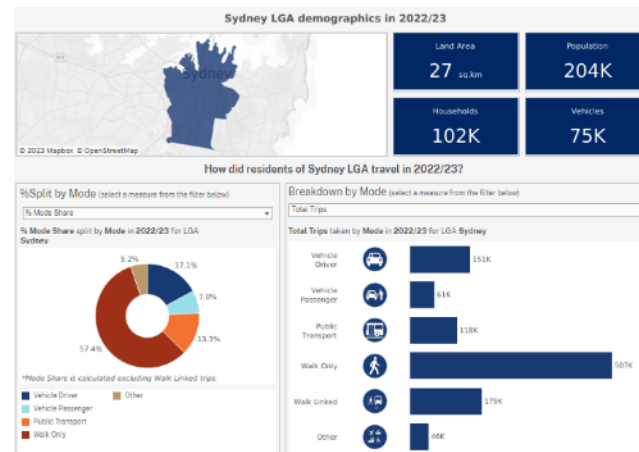
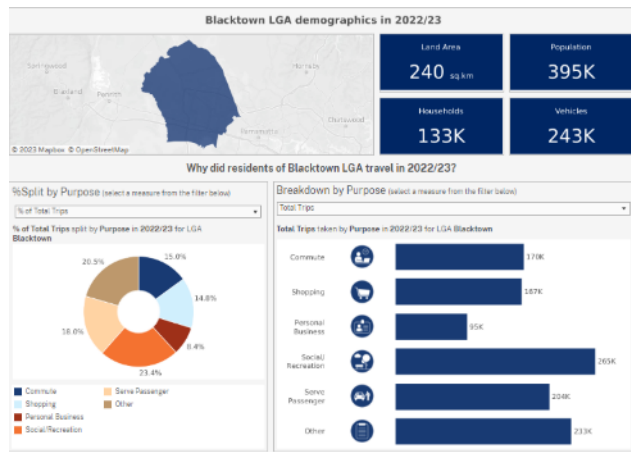
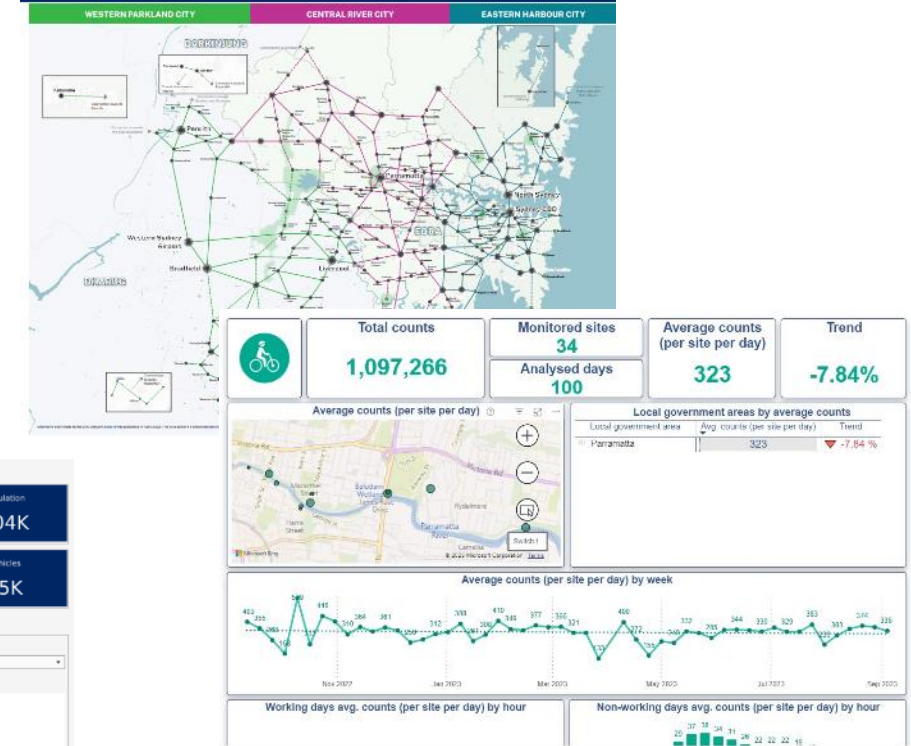
The most comprehensive source of personal travel data for the Sydney Greater Metropolitan Area (GMA). Find out how and why people travel.

Walking and cycling counts

Walking and cycling count data



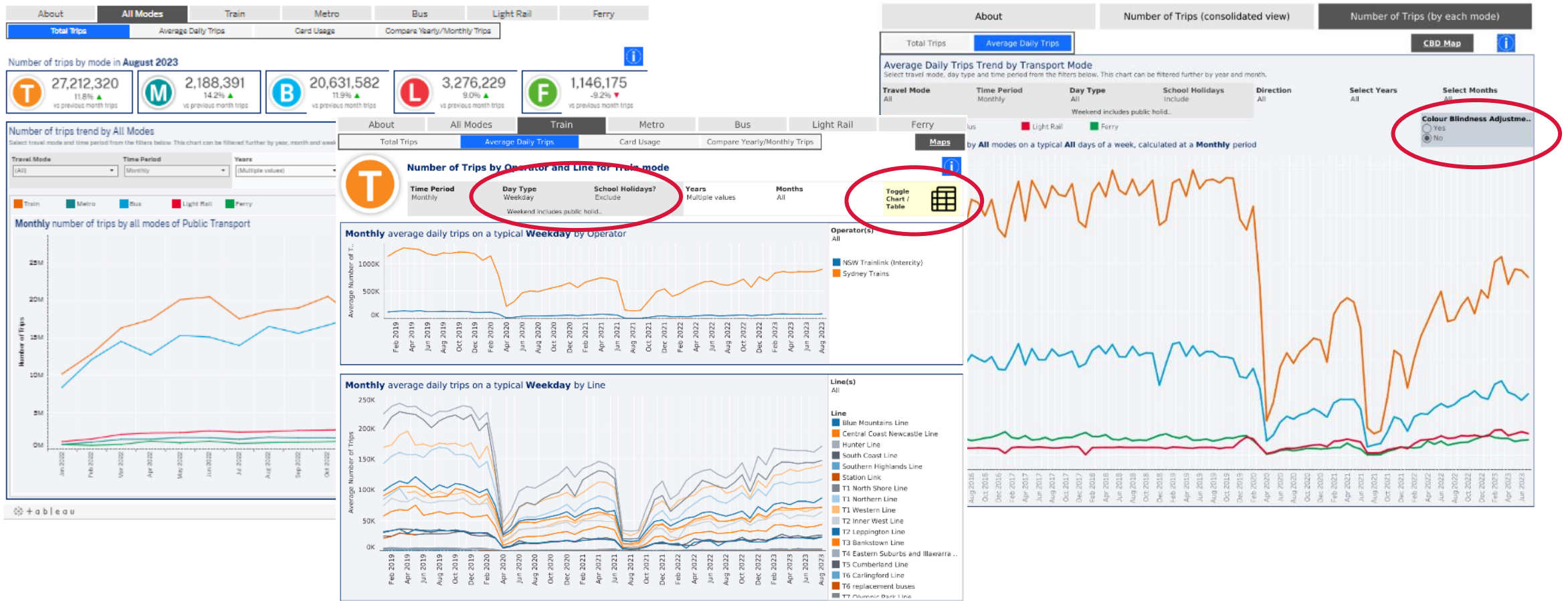
Strategic Cycleway Corridors for Greater Sydney



Expanding available insights and developing partnerships for data is a commitment in our Transport Data Roadmap

As we do this we are providing ability to slice and dice

Public Transport Trips and Destinations



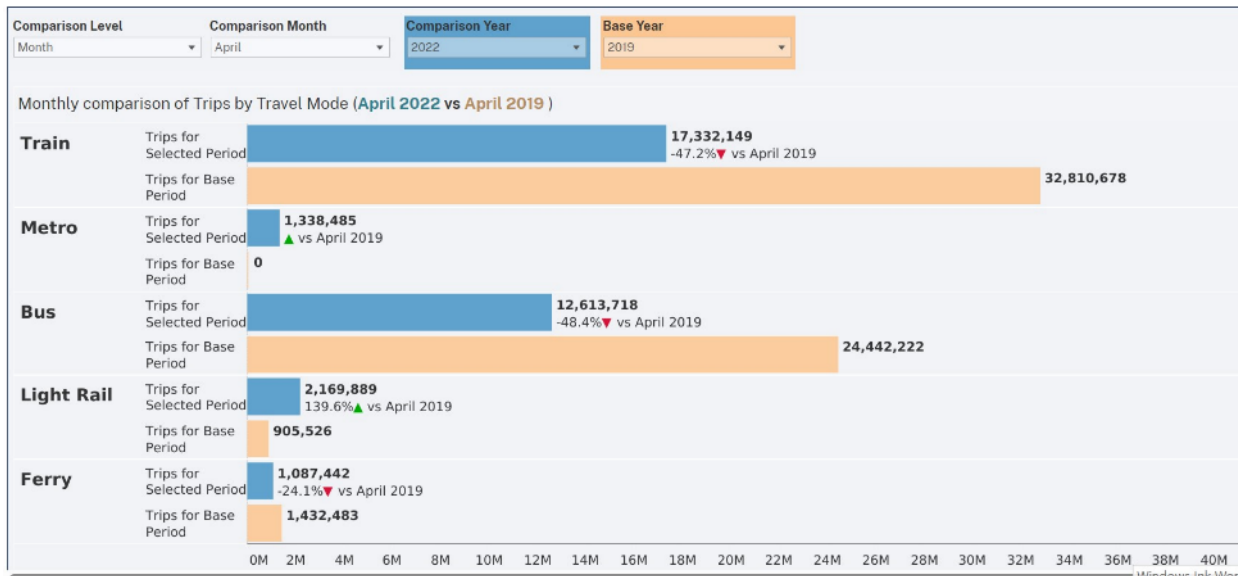
A clear business objective and focussed question will help to direct the use of data to uncover the answer

The way in which insights are used and interpreted is important



Monthly comparison of trips by mode

Select Base Year and Comparing Year to compare trip counts and calculate % change. At monthly level, same months in any selected two years can be compared (eg. April 2022 vs April 2023).



About the data

Data owner: Advanced Analytics and Insights (AAI)

Operator coverage:
Train - From July 2018, the operator was CityRail. Post July 2018 the operators were Sydney Trains and NSW TrainLink (Intercity and Regional).
Bus - Bus Operators that use Opal ticketing
Ferry - Sydney Ferries and from July 2018 Newcastle Ferry
Light Rail - Sydney Light Rail Network and Newcastle Light Rail Network (commenced on 10 Feb 2018)
Metro - Sydney Metro Network (commenced on 28 May 2018)

Measure: Trips

Date range: FY 2010/11 onwards

Frequency: Weekly, Monthly, Yearly

Dimensions for analysis: Time (Week, Month, Year), Travel Modes and Card Type

Caution

- The July 2018 dataset includes Opal and Magnetic Stripe Ticketing (MST - paper tickets) data, thereafter Opal tap-on/tap-off data only. Contactless Transport Payment (CTP) is included in the train, ferry, light rail, and metro reports.
- Opal single trip tickets are included.
- School Student travel using concessional Opal cards is included. However, this may be underrepresented, due to inconsistent tap-on/tap-off behaviour by students.
- Opal data may be subject to minor revision for the two months following upload.
- Data is static at a point in time and may not match other reports that are real time.
- All non-Opal travel is excluded, for example transport concession entitlement cards, integrated ticketing for major events, and fare non-compliance.
- An Opal Trip is defined as a tap-on/tap-off pair (including where only a single tap-on or tap-off is recorded).
- On Demand public transport services allow you to book a vehicle to pick you up from either home or a convenient nearby location and take you to a local transport hub or point of interest. This visualization only includes contracted On Demand Services, currently for bus contract regions NBSC (Newcastle) from January 2018 and SBSC Contract 6 (Sydney Inner West) from July 2018.
- Trips are under-reported for April 2022 because of fare free commuter travel across all modes of transport for 12 days from 4:00am on Thursday 14 April 2022 to 3:55am on Tuesday 26 April 2022.
- Trips are also under-reported for November 2022 because of fare free commuter travel across Sydney Trains, NSW TrainLink and Sydney Metro rail services from 12:01am Monday 21 November 2022 to 11:59pm Friday 24 November 2022.

- 1 Business application**
Asking the right question
- 2 Avoiding bias**
Selecting the right data
- 3 Correct Interpretation**
Importance of context

A clear business objective and focussed question will help to direct the use of data to uncover the answer