





Open data hub and developer portal









(opendata.transport.nsw.gov.au)







DESCRIPTION: The Open Data Hub and Developer Portal is the central location for all Transport for NSW (TfNSW) open data. In the Data Catalogue you can access all of the available Application Program Interfaces (APIs) and downloadable datasets to find relevant data, create your own software or applications or interact with an external system. You can view or post in the Forum to connect with TfNSW staff and other users, or visit the Product Showcase to see what travel apps, built using TfNSW data, are available for your organisation.






Exploring data from the Hub can be particularly useful for identifying options to remode from car travel to public transport and to explore options to retime travel to periods outside the peak, when journeys may be faster, more comfortable or convenient.

APPS: Some of the travel apps, built using TfNSW data, that may be useful are provided below

 <p>Abilio</p>	<p>Abilio.io enables customers with limited mobility to access the public transport system. Customers can plan their trip in real-time and be provided with comfortable walking distances that avoid significant uphill or downhill slopes and stairs.</p>	 <p>AnyTrip</p>	<p>AnyTrip can be used to share real-time arrival times and service alerts via Facebook Messenger, WhatsApp, SMS or Twitter. You can check which service you are currently travelling on, check real-time departure information for transit stops and get an at-glance view of all public transport across NSW.</p>
 <p>Arrivo Sydney</p>	<p>Arrivo Sydney provides real-time departure and service location information for trains, buses, ferries and light rail. The app can automatically send next departure times and announce the next stop on a trip. Users can find information about lift and escalator outages, station facilities and platform length.</p>	 <p>Auto</p>	<p>Auto displays current travel times to help users decide on the best route to avoid traffic. Users can build in their own trip. Auto automatically notifies users of congestion and disruptions such as accidents, roadworks and weather events, without the app being open.</p>

 <p>Citymapper</p>	<p>Citymapper is a multimodal trip planning app which allows for checking of nearby departures in real-time and has the ability to find the fastest route combining bus, train, ferry taxi, rideshare, bikeshare and walking. Commuters can decide which transport option based on time, the amount of calories burned and also receive alerts for route disruption.</p>	 <p>Commuter NSW</p>	<p>Commuter NSW compares travel times of public transport and driving based on different departure times in a single view. Users can select their preferred travel mode for more specific details. The app can also record actual travel times every day and use the information to predict future travel times.</p>
 <p>EasyDrop</p>	<p>EasyDrop is an interactive app for commercial delivery drivers. The app helps drivers manage their daily delivery schedule, find the fastest route and provides up to date traffic conditions. Drivers can also stay in touch with their customers through the app.</p>	 <p>Embark</p>	<p>Embark shows you live arrival times for buses, trains, light rail, ferries, rideshare and more. It gives insight into calorie burn for walking routes, carbon emission comparisons for public transport routes and wheelchair accessibility information for each service. It works in cities around Australia and the world to reduce need to download new transport apps while travelling.</p>
 <p>Live Traffic NSW</p>	<p>Live Traffic NSW provides to-the-minute updates about incidents and conditions that may affect a user's journey. Users can save their favourite routes to receive scheduled alerts and can check images from live traffic cameras that update every 60 seconds.</p>	 <p>Metarove</p>	<p>Metarove makes public transport trip planning easier for customers with limited mobility. The app provides real-time information about departure times, route recalculation, trip plan updates and options if services are delayed or cancelled. The app is highly customised and users can set personal walking speeds, maximum physical travel distances or display accessible journeys only.</p>
 <p>Moovit</p>	<p>Moovit provides users with real-time information and fastest routes for the public transport network. Users can send live reports about their travel experience, such as cleanliness and seat availability, through the app. This live information helps improve route plans and provides other users with more accurate travel time estimates.</p>	 <p>Navibaby</p>	<p>Navibaby provides trip plans with pram and stroller friendly routes, taking into account accessibility factors such as escalators to provide routes that are easier to navigate.</p>

 <p data-bbox="136 384 392 464">NextThere</p>	<p data-bbox="427 209 1039 384">NextThere provides users with real-time service information. The app tracks a user's location and shows when the next trains, buses, ferries or light rail are due to depart from that location. An easy-to-read map tracks services and users can receive alerts about disruptions before their journey.</p>	 <p data-bbox="1095 373 1355 453">Opal Travel</p>	<p data-bbox="1384 240 2101 352">Opal Travel allows users to plan their trip and check their Opal fare estimate for train, bus, ferry and light rail services. Adult, child/youth and senior/pensioner fares are displayed as well as Opal card retailers.</p>
 <p data-bbox="136 727 392 807">Roadmap</p>	<p data-bbox="427 571 1070 715">Roadmap provides detailed traffic conditions in real-time using state of the art technology to visually show congestion along a user's route. Users can receive personalised traffic alerts about incidents that may affect them or glance at nearby traffic incidents using the built-in widget.</p>	 <p data-bbox="1095 727 1355 807">Snarl</p>	<p data-bbox="1384 560 2085 727">Snarl provides up-to-date information about accidents and congestion across the NSW, QLD and VIC road networks. Users can check traffic conditions before their journey or on the go using driving mode. In driving mode, auto driving detection will warn users of current conditions, accidents and incidents while they are on the move.</p>
 <p data-bbox="136 1062 392 1142">Splice Trip NSW</p>	<p data-bbox="427 927 1055 1038">Splice Trip NSW is a Facebook messenger chat bot that provides real-time arrival times and service alerts for trains in NSW. These can then be shared with others using Facebook messenger and SMS.</p>	 <p data-bbox="1095 1062 1323 1142">Stop Announcer</p>	<p data-bbox="1384 927 2096 1038">Stop Announcer is a route guidance app that provides audio notifications of stops made along a trip. The app will announce bus stops, train stations, ferry wharves and light rail stops. It will also alert users when their selected stop has been reached.</p>

 <p>Transit</p>	<p>Transit App provides real-time trip planning including departure times, timetables and route maps all in big text and bright colours. Users can set reminders, get notifications about disruptions and view visual stop notifications on a map. The app also allows users to request an Uber.</p>	 <p>TripChecker</p>	<p>TripChecker is the world's free, take-anywhere transit companion. Users can get live vehicle departures and key travel info in major cities around the world. Next train or bus arrival is shown as well as journey planning, disruptions and traffic reports.</p>
 <p>TripGo</p>	<p>TripGo allows users to compare public and private transport options. It provides information including estimated costs, fastest modes and routes based on real-time data. Users can manually search for trip options or TripGo can use their calendar to provide options automatically.</p>	 <p>Triptastic</p>	<p>Triptastic shows users the next available service from their current location, service disruption information and vehicle tracking. From within the app, users can search for suburbs, routes, stops and businesses or explore a range of interactive, detailed maps of routes, stops and service frequencies.</p>
 <p>Tripview</p>	<p>Tripview displays train, bus, ferry and light rail timetables for Sydney. Users can view a summary of next services or a full timetable. Alarms can also be set for upcoming trips</p>		

DATASETS: Some of the datasets that may be useful to support Travel Plan development and activities are provided below. These datasets can be accessed at <https://opendata.transport.nsw.gov.au/>

Maps and Infrastructure Data

Cycleway Data:

A database of cycleway infrastructure located throughout NSW maintained by Roads and Maritime Services.

Loading Zones Kerbside:

Location of Sydney CBD kerbside loading zones (for use by delivery vehicles when loading or unloading goods) by street and time of day (hourly).

Network Maps:

This dataset contains network maps for the NSW transport network.

Off-Street Parking:

Parking spaces that are available for service and delivery drivers in Sydney's CBD (at commercial rates).

Train Station Entrance Locations:

This dataset contains a list of every entrance for every station in NSW. The data includes street name, street type, entrance type, location (latitude and longitude) of the entrance and exit number (if applicable).

Train Station Maps:

This dataset provides WCAG 2.0 compliant wayfinding maps for 34 Sydney train stations. Each map displays entrances, lift locations, transport mode interchanges including taxi ranks and pick-up areas.

Survey Data

Journey to Work (JTW) 2011:

This dataset contains a snapshot of commuting patterns for Census day 2011 (Tuesday 9th August). It is a complete enumeration via a self-completion Census form. The scope of Journey to Work (JTW) 2011 is employed persons aged 15 years and over, who were employed the week before Census night, and with a workplace in NSW.

Household Travel Survey 2015/16:

The Household Travel Survey is the largest and most comprehensive source of personal travel data for the Sydney Greater Metropolitan Area.

Timetable Data

Public Transport – Realtime Alerts:

Realtime alerts at either the stop, trip, or service line level in GTFS – realtime format for Buses, Ferries, Light Rail and Trains.

Public Transport – Realtime Trip Update:

Stop time updates for active trips, replacement vehicles, and changed stopping patterns in GTFS – realtime format for Buses, Ferries, Light Rail and Trains

Public Transport – Realtime Vehicle Positions:

Current vehicle positions in GTFS – realtime format for Buses, Ferries, Light Rail and Trains

Public Transport – Timetables – For Realtime:

Static timetables, stop locations, and route shape information in GTFS format for operators that support realtime.

TfNSW Trip Planning Widget:

The official Transport for NSW trip planning widget is available to display on your own website. Your customers can plan their own trip and be directed to transportnsw.info.

Timetables Complete GTFS/TransXChange:

Static timetables, stop locations, and route shape information in General Transit Feed Specification (GTFS) and TransXChange formats for all operators, including regional, trackwork and transport routes not available in realtime feeds.

Trip Planner APIs:

Create your own personal public transport trip planner. APIs interact with the transportnsw.info trip planner and provide the ability for NSW public transport trip planning, departure board, travel alerts, real-time transport services, walk and drive legs and Opal fares.

Travel Usage

Opal Trips – All Modes:

This dataset contains a consolidated view of Official Utilisation figures across all transport modes (train, bus, ferry and light rail). Opal daily tap-on/tap-off data is aggregated to a total monthly figure representing the estimated number of trips across all transport modes.

Opal Trips – Bus:

This dataset contains Official Bus Utilisation figures. Opal tap-on/tap-off data (representing an individual boarding and alighting a bus) is aggregated to a total monthly figure representing the estimated number of trips.

Opal Trips – Ferry:

This dataset contains Official Ferry Utilisation figures. Opal tap-on/tap-off data (representing an individual entering & exiting a wharf), is allocated to a route and aggregated to a monthly figure for the estimated number of trips.

Opal Trips – Light Rail:

This dataset contains Official Light Rail Utilisation figures. Opal tap-on/tap-off data (representing an individual entering and exiting a Light Rail station), is aggregated to a total monthly figure representing the estimated number of trips.