

## Real-Time Traffic Information

The proliferation of GPS-based technology used in devices such as smartphones and navigation systems is a strong enabler to enhance information dissemination for motorists. This allows motorists to better plan their journeys by deciding when, how and where they want to travel. It will help to spread traffic demand over different modes, time and space, and help relieve congestion on heavily used roads.

There are various categories of real-time traffic data that LTA makes available to the industry. These include:

- ◉ **Webcam images** along expressways and major roads
- ◉ **Textual Traffic information** which include traffic incidents, indicative traffic speeds, estimated travel time on expressways, locations of roadworks, EMAS messages, ERP rates and faulty traffic lights signals
- ◉ **Carpark lots availability information** which currently covers the major shopping malls at the Marina Center, Orchard and Harbourfront areas.

Other traffic information that LTA provides to the industry includes the Traffic Message Channel Location Table (TMC-LT) and turn restriction table.

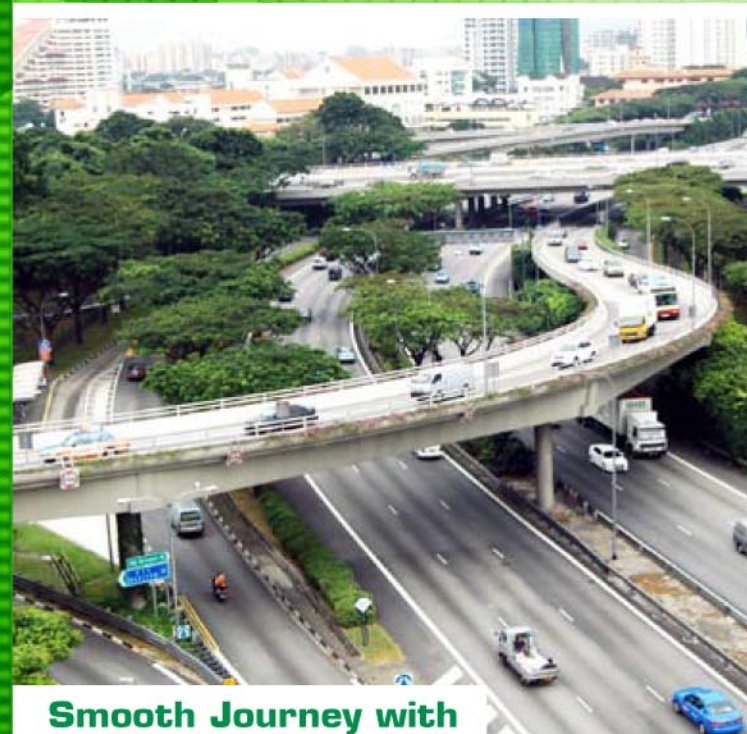
LTA constantly leverages on new technology to improve and optimise the road networks and will also look into collecting as well as providing new traffic information for the benefits of all motorists.



Besides real-time traffic information, there are other sources that LTA makes available to the industry. These include the Traffic Message Channel Location Table (TMC-LT) and turn restriction table. The TMC-LT stores the location referencing codes and rules that are used in conjunction with the TMC protocol to deliver real-time traffic and travel information to navigation devices. The turn restriction table contains the locations of turning restrictions of the local road networks which are useful for navigation or route planning purpose.

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or visit our website at [www.lta.gov.sg](http://www.lta.gov.sg) for more information



Smooth Journey with SMART CHOICE!



REAL-TIME TRAFFIC INFORMATION

## Intelligent Transport Systems



The Land Transport Authority (LTA) is committed to optimise the road network efficiency and improve road safety for the benefit of all road users. As part of the Land Transport Master Plan (LTMP), LTA has developed and deployed a suite of advanced traffic management systems called the *Intelligent Transport Systems (ITS)*. Some of these include the *Expressway Monitoring Advisory System (EMAS)*, *Green Link Determining System (GLIDE)*, *Parking Guidance System (PGS)* and the *TrafficScan*.



Each of these systems is connected to our highly sophisticated and integrated backend *i-Transport System*. Traffic data is aggregated, integrated and disseminated at the ITS Centre for the purpose of traffic monitoring and incident management, to better optimise our road networks. The traffic data collected from these systems is also used for traffic analysis and planning.

Besides monitoring and managing the road networks, LTA also leverages on the private sector's innovative products and services, as well as their broad distribution channels, to reach out to the wider public. This is done through making the real-time traffic information available to the industry. Through these products and services, the public can better make informed decisions and enhance their travelling experience.

## 1 Data Collection



## 2 Data Processing



**ITS CENTRE**  
Intelligent Transport Systems Centre



## 3 Data Dissemination

## Benefits To Industry

The availability of real-time traffic information to the industry provides them a unique opportunity to leverage on new technology in developing more innovative products, services and applications that incorporate real-time traffic information. It also encourages exploration of new channels/media for the delivery of real-time traffic information to the public.



## Benefits To End-User

Users will be able to enjoy the benefits as follows:

- Receive real-time traffic information on different types of devices such as mobile phones, web-portals and navigation devices through the commercial service providers.
- Decide on the mode of transport (private or public) or alternative routes to embark on taking into consideration the real-time traffic on the route.
- Avoid traffic incident locations or congested routes.
- Improve road safety by avoiding incidents and reducing accidents on the roads.
- Enhance travelling experience and enjoy an overall better quality of life.