

The Integrated Network of Freeway and Expressway in Taiwan



Intelligent Transportation System (ITS)

Intelligent Transportation System (ITS) is a worldwide transportation development trend at present. ITS integrates information, communication, electronic, control and management technologies into transportation system service to connect people, vehicles and road network systems.

The traffic management system of the Integrated network of freeway and expressway has been established and played an important role in ITS in Taiwan. This system provides high-tech, people-oriented, real-time traffic information services through media, websites, phones, mobile apps, and roadside facilities to enhance the overall efficiency of the network.

In order to provide comprehensive intelligent transportation service to people in Taiwan, the Ministry of Transportation and Communication (MOTC) is dedicated to integrate all traffic information to provide seamless and smooth transportation service. Besides, MOTC still continuously gives impetus to public transit to enhance service quality for saving energy and reducing pollution.



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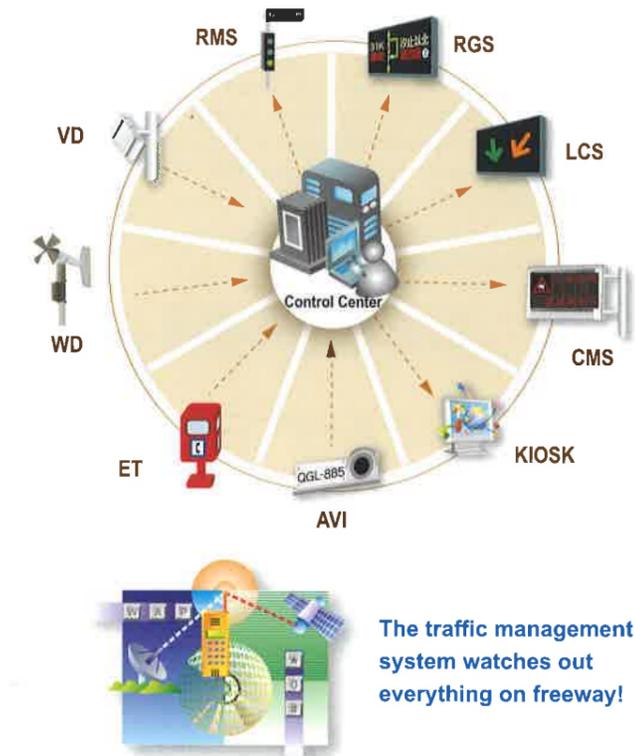
Freeway & Expressway Traffic Management System



How to Manage Freeway and expressway?

At present, there are four regional traffic control centers in NFB, including Northern, Central, Southern, and Pinglin regional traffic control centers. The key responsibility of each regional control center is shown as following:

- Collect and manage regional traffic condition.
- Implement each type of strategy according to the current traffic condition and reduce travel time as short as possible to enhance road users' safety.
- Publish real-time traffic information to let road users understand current traffic condition, traffic restriction, etc.



The traffic management system watches out everything on freeway!

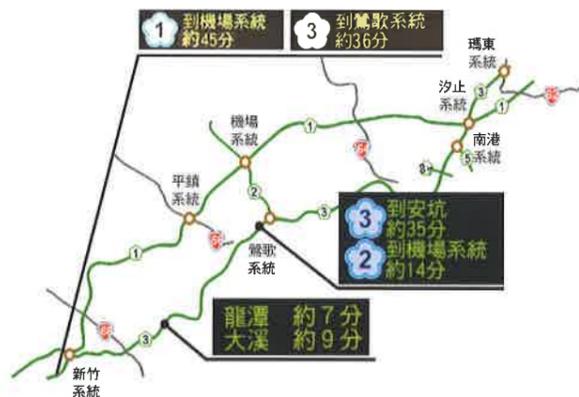
What is Freeway and Expressway Coverage of Traffic Management System?

The traffic management system of the Integrated network of freeway and expressway manages all national freeway system and 12 east-west expressways. The length of comprehensive road network managed by the traffic management system is over 1,300 kilometers.

What can Traffic Management System Do for Us?

The traffic management system can do following service for us :

- Analyze current freeway and expressway road network traffic condition automatically. Besides providing traffic jam road section information, TMS also provides estimated travel time information and alternative route instruction. Road users can reach their destination faster and safer by following the instruction.
- Manage and process incidents to accelerate eliminated time and decrease damage.

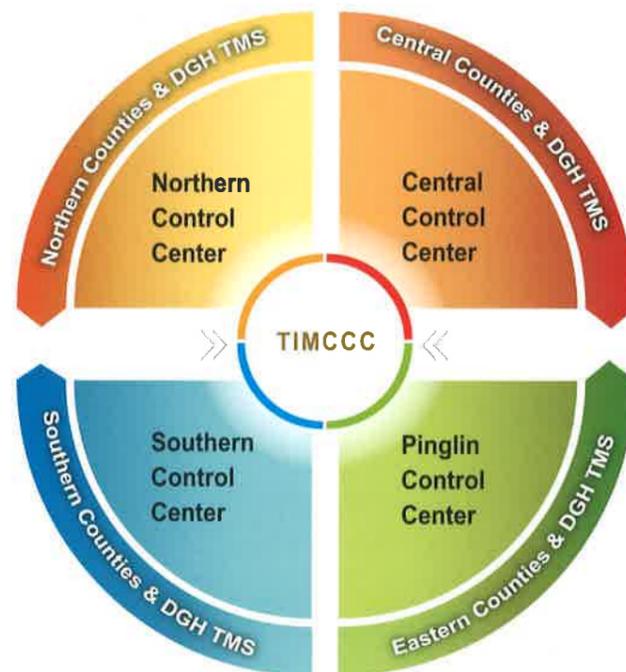


▲ Traffic management system displays travel time information under general traffic condition.

What is Traffic Management System? Do I need it?

Of course!

Currently, Taiwan already has four control centers. The 12 east-west expressways have been opened to traffic and connected to the freeways which constitute freeway and expressway network. In order to coordinate these traffic control center, we need Traffic Information Management, Coordination & Command Center (TIMCCC) which integrates all domestic traffic control centers to achieve integrated corporation of traffic management operation based on Information



How does Traffic Management System Operate?

- Traffic management system utilizes various kinds of facilities to gather traffic information in freeway and expressway continuously, for example, traffic volume and speed etc.
- When data is transmitted to traffic management system, traffic management system processes and analyze it immediately to generate corresponding traffic management strategies, for example, temporary road shoulder using and ramp metering control.
- When incidents occurs, traffic management system processes and contacts associations department to deal with incident immediately.
- Publish traffic condition and suggestive information via various kinds of information publishing facilities, for example, changeable message signs, internet, 168 App on mobile phones, navigation system, voice enquiry service etc.



▲ Traffic management system displays warning information under congestion situation.

Four key features of 168 App

Service phone Real-time road Trip Plan Real-time video



Traffic management system helps us to save time!