

ETC: Electric Toll Collection ETC 2.0

통행료 자동 정산 시스템 ETC 2.0

In addition to the toll payment service using ordinary ETC, ETC 2.0 offers useful information to drivers on such supports as congestion avoidance and safe driving. In future, multipurpose use of ETC will be unfolded in downtown area such as parking fee payment entering/leaving management of vehicles and so on. There is enough possibility for developing new services in the future.

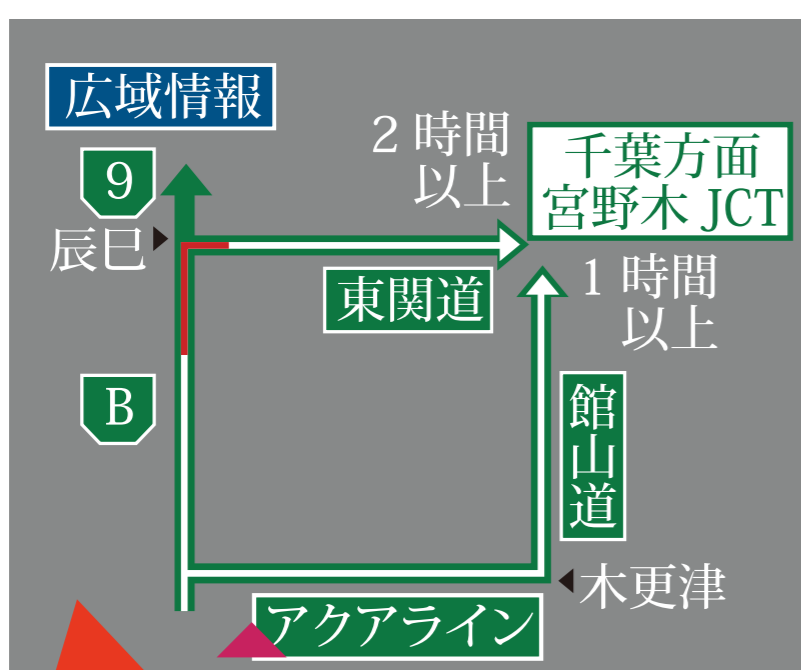


Information Service

Congestion avoidance support

ITS Spots provide traffic information for a maximum road length of 1000 km and the user can find out necessary time of each route by using a car navigation device equipped with ETC 2.0.

Route Map



Photo



Safe driving support

The system presents visual and audible alerts when there is a falling object found or a hazardous point of lane merging ahead as well as invisible traffic congestion being occurred around the corner, etc.

Alert by Signs



Photo



Congestion ahead, be careful to a rear-end collision

Be careful to drive in the snow.

Support under Disaster

The system provides information on assistance when disasters occur. The information includes ongoing situation of disasters and their impacts.

Alert by Signs



An earthquake occurred. This road is closed. Put on hazard lamp and park on the left shoulder with being careful about vehicles behind

Toll Collection System upgrade to Driving Support System



Services using routing information

Preferential measures for detouring drivers to avoid traffic congestion, etc.
Support for commercial vehicle operation management
*To apply for these services, the owners who are currently using on-board DSRC- equipment must re-setup the device before the use of ETC 2.0. These services cannot be applied with conventional on-board ETC equipment.

More services in private sectors

In addition to the toll payment, such multipurpose use of ETC is being promoted as parking fee payment in downtown area or vehicle entering/leaving management. There are a lot of possibilities to develop new future services.



ETC 2.0 is the world's first I2V collaboration system that offers driving support services enabled by high-throughput bidirectional communication through ITS Spots (antennas) installed alongside the highways.

The system may bring about reduction of traffic volume in specific locations or time periods prevention of accidents and mitigation of the deterioration of roadway structures.

As a result, limited resource of road networks can be used more cleverly, and efficiently in longer period of time.



Road



Vehicle



Located along expressways in all over Japan

In case a vehicle go through under the antenna "ITS spot", information is transmitted mutually between the ITS spot and the in-vehicle device.