



Korea Expressway Corporation



CLIENT

Korea Expressway Corporation

CHALLENGE

- Need for immediate freeway incident notification
- Traffic congestion
- High cost and inefficiency of installing cameras

SOLUTION

- RaaS road analyzer installed in freeway inspection vehicles
- Freeway anomaly monitoring dashboard

RESULT

- Decrease of traffic incidents
- Immediate response to accidents, broken vehicles, hazards on freeway

As a leading company in Korea's road construction industry, the Korea Expressway Corporation (KEC) has been involved in constructing main expressways. KEC is also responsible for expressway maintenance, emergency response, traffic information and traffic congestion management.

KEC has also established the Intelligent Transport System ("ITS"), which employs road construction and management technologies together with state-of-the-art information technology.

CHALLENGES

KEC has used fixed type cameras to detect and manage incidents and traffic congestions on expressways. However, it is costly to install these cameras in close proximity to each other, which resulted in cameras being installed too sparsely along the road (1.6km distance in between on average).

Due to such constraints, KEC was looking for a solution to comprehensively inspect and manage all incidents and anomalies in a timely manner.

SOLUTION

KEC decided to implement a joint research project with Dareesoft to utilize RaaS in detecting and managing incidents and anomalies in expressways. Together, Dareesoft and KEC are developing AI model specialized in detecting specific hazards and incidents such as traffic accidents, congestion, bumper-to-bumper traffic, debris/trash, and pedestrians. This will enable KEC to more efficiently manage traffic congestion and any unexpected problems occurring on the road.



RESULTS

After a 6-month joint research, KEC found RaaS to be a very useful solution. Following the success of the first research, Dareesoft and KEC agreed to embark on a project to integrate RaaS into KEC's Intelligent Transport System. The project began in 2022 and will continue for two years.

Ultimately, the goal of the project is to connect the data collected by RaaS to KEC's system, thus enabling KEC to notify drivers through variable-message signs and by transmitting the data directly to the vehicles. KEC sees a huge potential in realizing this solution and plans to install Dareesoft's AI Road Analyzer in long-distance buses and cargo trucks using the expressways once the project is completed.

"We see a big potential in RaaS when it comes to solving the most consistent problems on our roads"

- ITS Manager
Korea Expressway Corporation

CONTACT US

www.dareesoft.com | info@dareesoft.com