Ministry of Land, Infrastructure and Transport

AI Technology Enhances Safety on Commuter Buses

Date of Release: 23 August 2024

Dept. in Charge: **Transport Safety Policy Division, MOLIT**

Contact: Annie KIM / Global Media Communicator, MOLIT / audiis2@korea.kr / +82 44 201 3056

AI technology prevents dangerous driving of bus drivers by real-time risk warnings when there are risky maneuvers as implementing a pilot project for safe driving utilizing AI on commuter buses with private companies

The Ministry of Land, Infrastructure and Transport (MOLIT, Minister PARK Sang-woo) and the Korea Transportation Safety Authority (TS, President KWON Yong-bok) have announced the launch of a pilot project aimed at creating a safer commuting environment by using AI technology on commuter buses.

The AI-based safe driving support project involves a solution that monitors the dangerous driving behavior of bus drivers in real time using AI video analysis cameras installed in the front and inside of the vehicle and provides immediate feedback to the driver.

If a bus driver commits serious traffic violations such as running a red light, crossing the centerline, using a mobile phone, drowsy driving, or failing to pay attention to the road, the AI device will immediately alarm the driver.

Additionally, the AI device monitors and analyzes dangerous driving behaviors such as speeding, sudden stops, and rapid accelerations, as well as near-accident* records, and provides the results to bus drivers and bus companies to help establish safer driving habits.

* Situations where accidents have not occurred but there is a risk of accidents occurring

This project was introduced to two city bus companies (60 vehicles) last year, resulting in significant safety improvements: a 93.5% reduction in traffic accident rates (from 0.123 to 0.008 accidents per vehicle), a 71.4% decrease in red-light violations, a 33.3% reduction in inattention to the road, and a 9.9% increase in safe driving scores.

To further expand the project's impact this year, the MOLIT has signed a MOU on "Pilot Project for AI-based Safe Driving Support" with LG Electronics and the TS to conduct the project for safe driving on the company's commuter buses.