

# Firms employ tech, innovative ideas to better public transport

TIMES NEWS NETWORK

The eighth edition of Busworld Expo began at Bangalore International Exhibition Centre on Wednesday. Over 115 exhibitors, including those from Germany, Belgium, Turkey, China, Belarus, Korea and Austria are showcasing their latest products.

## BUSWORLD EXPO

TOI profiles five companies that provide innovative solutions in the transport sector, at the three-day expo.

### FUEL PILFERAGE

To tackle fuel pilferage, a Pune-based firm is using IoT to help fleet operators monitor the performance of vehicles on real-time basis. Gobinda Pal of Intangles said, "It also enables fleet owners to ascertain the quantity of fuel filled, consumed, remaining and stolen, which is supplemented by location, date and time. The accurate fuel log is made

## AUTOMATED WHEELCHAIR RAMPS

To make public transport more accessible to the elderly and differently abled, a Spain-based firm has come up with automated wheelchair ramps.

Fabio Sgardi, managing director of Hidral Gobel, said these



ramps will make boarding and alighting more convenient. They act as a bridge between the bus floor and ground at bus stops. "The electrohydraulic system allows wheelchairs' easy access to and from buses. It can be retrofitted to existing vehicles," he added.

available using an advanced fuel sensor." The firm helps create a dashboard for the entire fleet and identifies vehicles that need immediate attention and maintenance.

### SAFETY OF PASSENGERS

Haryana-based firm Alba Smart Automation Pvt Limited is using IoT video telematics to provide real-time information on passengers travelling in a bus. Rajeev Bajaj, executive director of the firm, said they will provide facilities like real-time video and emergency alarm to en-

sure the passenger safety. "Video surveillance is integrated with GPS location tracking. It can also be used for evidence management for investigation and to monitor drivers' behaviour, like smoking alert and phone usage. Route adherence can also be ensured," he added.

### PASSENGER COUNT SYSTEM

China-based firm VionVision offers image acquisition, passenger counting and analysis, and network data transmission through a camera. "Using computer vi-

sion technology, it can be used on buses to give information on when and where along a route passengers are getting off. It gives accuracy of up to 97.5%," said Lingjie Luo, overseas department manager of VionVision.

### INTELLIGENT SPEED CONTROL SYSTEM

To ensure safe travel in high pedestrian areas, global firm Speedshield Technologies has come up with an intelligent speed control that ensures the vehicle cannot exceed the pre-set maximum speed limit for traffic management.

Richard Close, the firm's global business development manager, said, "It can be complemented with RFID or GPS-based zoning to provide variable speed within different operational areas." It will also provide service scheduling, reporting data in advance, alerts via email about the engine performance and also give reminders for the time of service.