NEDAP ENABLES SMART BUS PARKING IN SINGAPORE ✴

The Woodlands Temporary Bus Interchange in Singapore serves over 400.000 passengers every day, while the regional bus interchange is being rebuilt. The temporary station, featured with the latest technological solutions, required a smart bus parking solution for an efficient traffic flow due to these large amount of passengers. Nedap's SENSIT, the leading smart parking platform, was installed to offer real-time occupancy information of all individual bus parking spaces at the station. This real-time information enables easy guidance of buses to the nearest available parking space. The implementation was realized by Eaglevision.

400.000 passengers per day

With 400.000 passengers every day, Singapore's Woodlands Regional Bus Interchange is the third biggest bus station in Singapore. As this regional bus interchange will undergo addition and alteration works, a temporary interchange was introduced. It took over operations in March of 2016 and will serve passengers for three years. The Woodlands Temporary Bus Interchange is located at Woodlands Town Centre. It serves the residential town of Woodlands, Marsling, Admiralty and surrounding industrial areas.

Innovative interchange station

The interchange is a temporary bus interchange station in which the latest technological solutions are featured. These features include CCTVs placed above queue berths to alert interchange operators to crowds, so the operators can adjust bus arrivals accordingly.

Smart bus parking

Additionally Nedap's SENSIT sensors have been installed in individual parking spaces to easily guide bus captains to the nearest available parking bay. A large electronic panel shows the number of available parking spaces, so bus captains know exactly where they can park at the moment of arrival.

The bus parking bays, where 51 articulated buses and 10 rigid buses can be parked, have been equipped with SENSIT IR sensors and SENSIT Flush Mount sensors have been installed in the Alighting bays at the interchange.

Nedap's SENSIT system consists of wireless bay-mounted sensors which detect the vehicle occupancy status and duration of parking events at individual parking spots. The system deploys a fast and robust wireless radio communication network which is essential in urban areas.

"SENSIT has proven to be a very highly accurate and stable solution, ensuring smooth traffic flow in a very busy traffic installation," says James Wang, Director of R&D, Eaglevision Software Pte Ltd.

Saving up to 3 minutes

This smart bus parking solution helps to boost safety as it reduces the likelihood of two drivers heading for the same parking lot. It also saves bus drivers the trouble of looking out for available parking and can save them about three minutes from the time they arrive at the interchange.

"It is great to see the results of this smart bus parking solution in Singapore. Plus the solution is interesting to major Asian tourist cities in specific, as their bus terminal are always extremely busy and managing traffic is a real challenge," says Melvyn Teo, Business Development Manager at Nedap Identification Systems.