



Virginia Department of Rail and Public Transportation

Transit Technology Initiatives

Commonwealth Transportation Board Technology and Innovation
Subcommittee

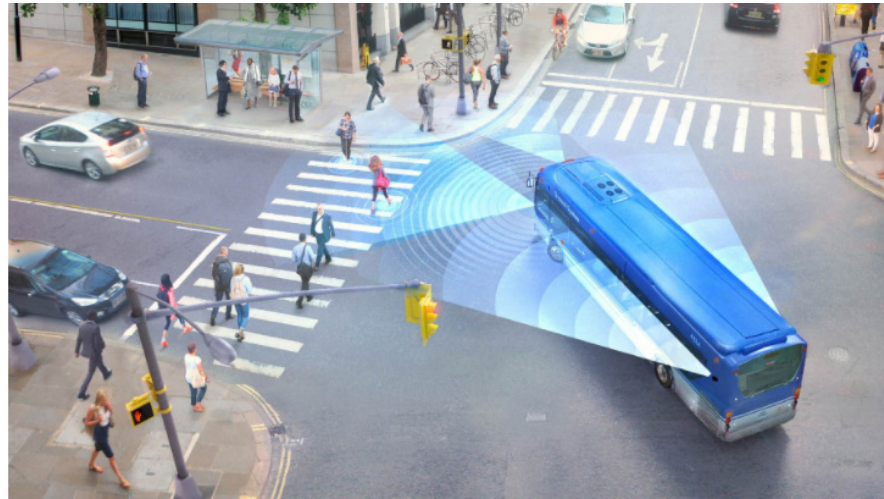
January 10, 2018

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Transportation

Driver Assistance System Demonstration Project



- Driver Assistance System technology alerts transit operators of pedestrians, bicyclists, and inanimate objects that enter the path of the vehicle
- DAS includes hardware elements like cameras, sensors, and digital displays and software elements to record and report incidents and note trends



Driver Assistance System Demonstration Project

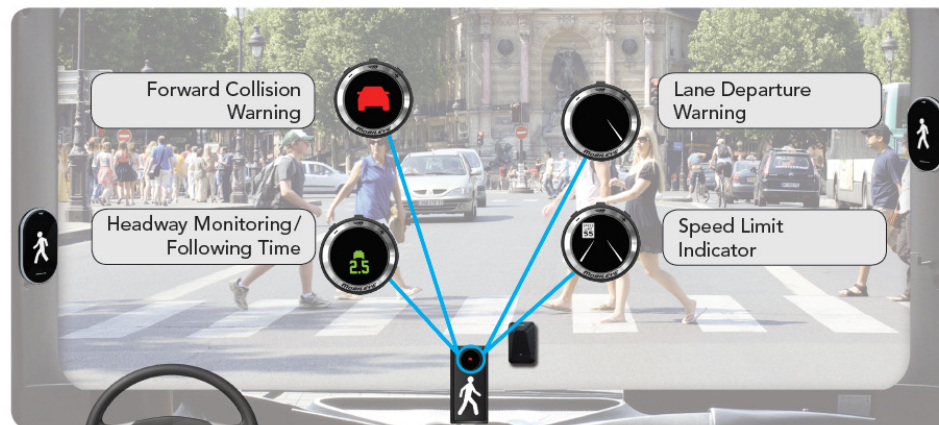


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Mobileye Shield+ System

- Prevents collisions between vehicles and vulnerable road users including pedestrians and cyclists
- Multi-sensor system provides drivers with alerts when pedestrians and cyclists are in danger zones on the side of the bus

VIEW OF SMART SENSORS AND DRIVER DISPLAYS



Driver Assistance System Demonstration Project



- Statewide cooperative procurement for local public transit agencies
- \$450,000 pilot program providing funding to ten public transit agencies to retrofit up to 50 buses with the DAS
- Virginia Transportation Research Council partnership to monitor the effort and report results of the pilot project
- Funded through Statewide Transit Demonstration Grant and CTB Innovation and Technology Transportation Fund
- First deployment of DAS on *the Hopper* operated by the Greater Lynchburg Transit Company and funded by SMART SCALE

Other Initiatives

Shared and Innovative Mobility Plan

- Update to the DRPT Statewide ITS Strategic Plan
- Focus on assessing transit technology needs and researching future technology impacts in the Commonwealth

Transit Technology Roundtable

- Information exchange between transit professionals, consultants, vendors, and researchers focused on current issues related to transit technology
- Staff coordination on defining the Roundtable's purpose and structure

