

Success Story: Abellio London reduces collisions and on-board injuries with Mobileye

Fewer Collisions – Greater Passenger Safety

Abellio London runs certain bus routes in London on behalf of Transport for London (TfL). The company operates over 700 buses and carries 150 million passengers a year. While Abellio boasts a good safety record, it was looking to reduce collisions even further, as TfL has committed itself to [Vision Zero](#) with a goal of eliminating all road deaths and serious injuries by 2041.

Well aware that buses pose a particular risk to the most vulnerable road users – pedestrians and cyclists – Abellio chose Mobileye collision avoidance technology which includes not only forward collision warning, lane departure warning, and headway monitoring but also pedestrian/cyclist collision warnings.

After a period of collaborative work between Abellio, their drivers, the drivers' union and Mobileye, the system was fine-tuned for use on London streets and rolled out in February 2018. This trial involved 66 buses travelling three different bus routes.

Now, after several months' use by over 200 drivers, the data has come in and the results have been outstanding – a 29.1% drop in the number of avoidable collisions (those in the driver's control to prevent).

Equally important, was the discovery of an unexpected benefit – a dramatic drop in the number of on-board casualties. The company credits Mobileye's headway monitoring with this drop. Headway monitoring warns drivers if they get too close to the vehicle ahead of them; and, as drivers keep safer distances, there is a reduction in the hard braking that can result in passengers being thrown around the vehicle. To date, there has been a 60% drop in the number of passenger injuries from avoidable collisions.



Client

Abellio London
(United Kingdom)

Industry

Public bus operator

Challenge

To reduce the number of collisions involving buses, especially with pedestrians and cyclists

Outcome

A reduction in avoidable collisions by nearly 30% and an unexpected side benefit – a reduction in passenger injuries from avoidable collisions of 60%

"We recognise that any passenger injury is one too many and are always looking at innovative ways to improve bus safety. We welcome Abellio's trial of Mobileye as part of TfL's Bus Safety Innovation Fund, and look forward to sharing their early findings at the Bus Safety Summit"

-Tom Cunningham, Head of Bus Business Development at TfL





“Safety and driving standards are our top priority, and we’re delighted to be trialling Mobileye’s technology on three of our London routes. The Mobileye system gives aural and visual alerts to drivers that allow them to react - reducing incidents and keeping everyone safe in the communities we are proud to serve. It is imperative that bus companies pursue investment in this kind of innovative safety technology.”

-Tony Wilson, Managing Director at Abellio London

About Mobileye

Mobileye, an Intel Company, is a global leader in the development of computer vision and machine learning, data analysis, localization, and mapping technologies for advanced driver assistance systems and autonomous driving solutions. Its technology is integrated into hundreds of new car models from the world’s major automakers including BMW, Ford, General Motors, Honda, and more. In fact, over 30 million vehicles worldwide are equipped with Mobileye technology.

Mobileye’s Aftermarket Collision Avoidance System is available for existing cars, trucks, buses, and RVs, so that the driver of almost any vehicle can reap the benefits of a robust safety system. The System is available with a single, forward-facing camera suitable for most vehicles, or in a multi-camera solution (Mobileye Shield+™) designed specifically for large commercial vehicles with hazardous blind spots.

Fleets worldwide have experienced reductions in collisions and associated costs with Mobileye. We can help your fleet achieve the same.

In Numbers



66 Mobileye-equipped buses



200 drivers

29.1%

drop in number of avoidable collisions



60%

drop in # of passenger injuries from avoidable collisions



Contact us at

www.mobileye.com/fleets