Innovative Technology in the Fight Against Drunk Driving

Each year in America, drunk driving claims approximately 10,000 lives and costs the U.S. approximately $194 billion.¹ Can we invent a passive safety system for cars that would help prevent a drunk driver from getting on the road? That’s what the Driver Alcohol Detection System for Safety (DADSS) Program is working to do.

The DADSS Program is a public-private partnership between the federal government and the world’s leading automakers. Public-private partnerships like DADSS have led to innovations that enhance our everyday lives, such as the internet, GPS, and the microchip. The Program is researching a first-of-its-kind alcohol detection technology that will detect when a driver is impaired with a blood alcohol concentration at or above 0.08% and prevent the car from moving. Once it has met rigorous performance standards, it will be voluntarily offered to vehicle owners as a safety option, similar to other drive assist systems like automatic braking or lane departure warning.

The breakthrough technology will be fast, accurate, reliable, and affordable. And unlike existing alcohol detection technologies, it will be seamlessly installed into new vehicles and will not affect normal driving behavior.

Virginia: The First State Partnership

Recognizing the potential of this technology to save lives by preventing drunk driving, Virginia became the first state to use NHTSA highway safety grant funds to partner with the DADSS Program through the Department of Motor Vehicles. The partnership – Driven to Protect – is another example of the technological innovation happening in Virginia and the ongoing leadership the state is showing in the fight against drunk driving.

Starting in 2017, Virginians have been getting an early look at the technology that is advancing in the labs. At NASCAR races, baseball games, law enforcement gatherings, and training for teen drivers, Virginians have learned about the science behind the technology and the rigorous testing and development process. They have also gotten hands-on experience with early technology prototypes.

In 2018, Driven to Protect in Virginia took another leap forward by announcing the first state partnership with a private company to conduct in-vehicle, on-road test trials of the DADSS technology. James River Transportation, a transportation leader in the Richmond area for 90 years with an impressive history of using technology to advance safety, has agreed to support the Program. Technology integrators have installed prototypes of the breath-based sensors into four vehicles in the

Putting Technology to Work

Virginia has been a leader in the state-level fight against drunk driving. This includes participation in Checkpoint Strikeforce, a research-based, multistate, zero-tolerance drunk driving initiative that enjoys widespread public support, whose goal is to get impaired drivers off area roads by employing checkpoints and patrols at the locations and times that drunk driving is most likely to occur.2

Despite these efforts, drunk driving remains a major threat to all Virginia families and road users. In 2018, Virginia reported 7,181 alcohol-related crashes, 278 alcohol-related fatalities, 4,475 alcohol-related injuries and 19,790 DUI convictions on its roadways.3

To move towards a future without drunk driving, Virginia recognizes that we need combination of broad public awareness, strong enforcement, legislation such as first-time offender ignition interlocks, comprehensive education, and other research-proven interventions to stop drunk driving. By advancing the alcohol detection system, Virginia is adding an important new tool to prevent drunk driving before it happens.

Through Driven to Protect, Virginia continues to put the health and safety of its residents first by helping to prevent additional drunk driving crashes, injuries, and deaths on its roads.

For more information about the program, visit www.DriventoProtect.org

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1 www.ActLikeIt.org
2 www.ActLikeIt.org
3 Numbers for 2018 are from the Dept. of Motor Vehicles' Virginia Highway Safety Office at: https://www.dmv.virginia.gov/safety/#crash_data/index.asp