

# How can law enforcement officers help improve roadway safety?

## Tennessee Highway Patrol

Tennessee's state troopers patrol hundreds of miles of highway.



Officers wanted to be able to predict where accidents were more likely to occur.



IBM® Cognos® Business Intelligence and IBM SPSS® Modeler helped to pinpoint times and places that could potentially pose a high risk of traffic incidents.



Advanced analytics helps troopers hone in on accident hotspots.

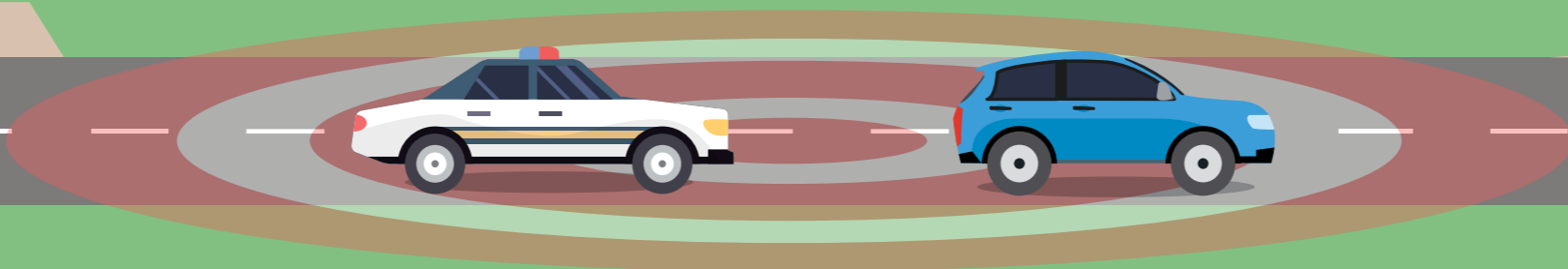
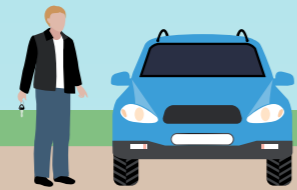
Results:<sup>1</sup>

**2<sup>nd</sup>**  
**lowest number**  
of traffic fatalities in Tennessee since 1963

**6%**  
**reduction**  
in deaths and serious injuries

**34%**  
**increase**  
in DUI arrests

**8.9%**  
**reduction**  
in alcohol-related accidents



<sup>1</sup> Comparing data from January 1 to August 15, 2014—during which time the IBM predictive analytics solution was operational—with data from the same date range in 2013. For more information, read the full case study: <http://ibm.co/1TwlQWI>