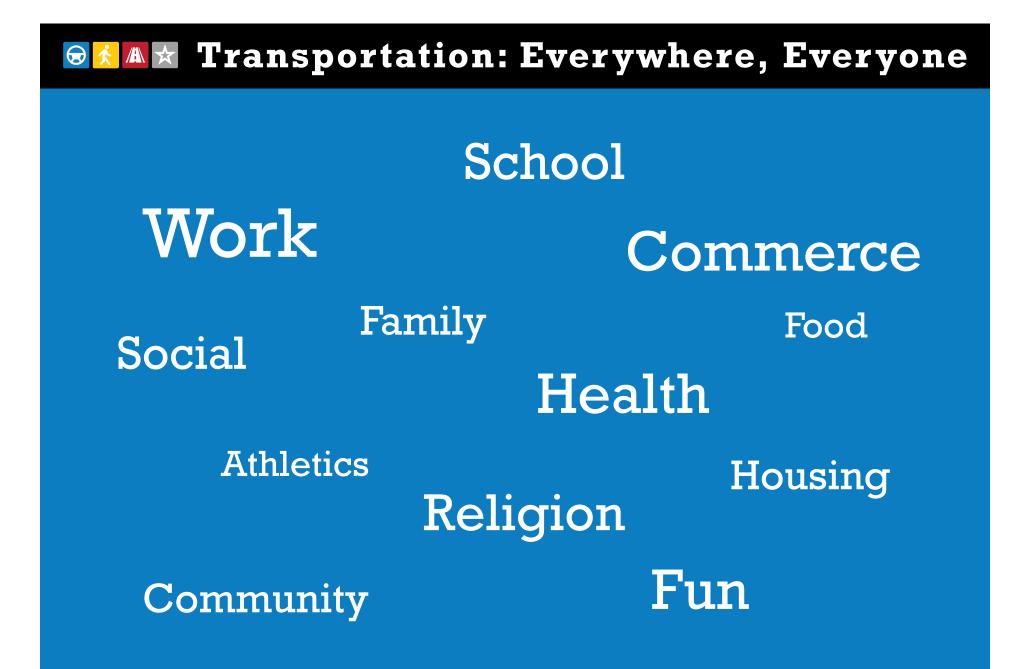
Behind the Wheel: Public Health and Safety of Autonomous Cars

Raskin Memorial Symposium 2016 JHU Bloomberg School of Public Health

> Mark R. Rosekind, Ph.D. Administrator









NHTSA's Lifesaving Mission





Reduce deaths, injuries and economic losses resulting from motor vehicle crashes











32,675 lives lost*
2.3 million injuries
6.1 million crashes

*95% of all transportation fatalities





On US Roadways in 2014 ...

94% related to human error/choice





On US Roadways in 2015 ...

Fatalities: 9.3 % estimated increase





25% decrease in fatalities over 10 years: <u>Continue effective strategies!</u>

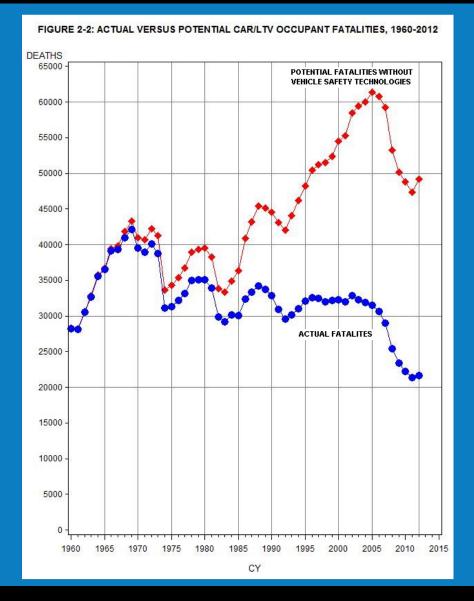
• 2015 estimated increase:

Need new tools!!





Technology Saves Lives



NHTSA



Technology Saves Lives

613,501







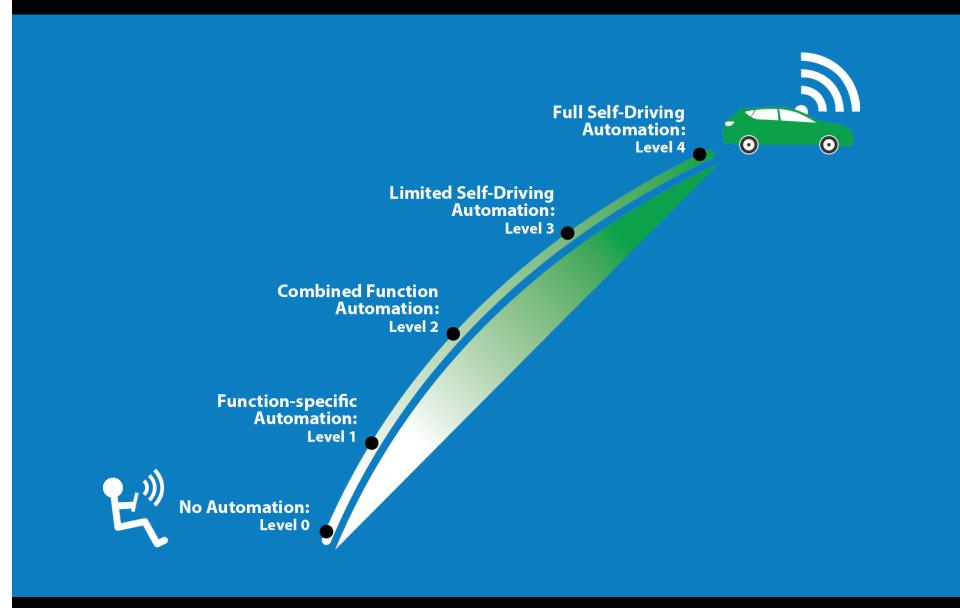
Automated Safety Technology

Human Choices

Foundation: education/laws/enforcement



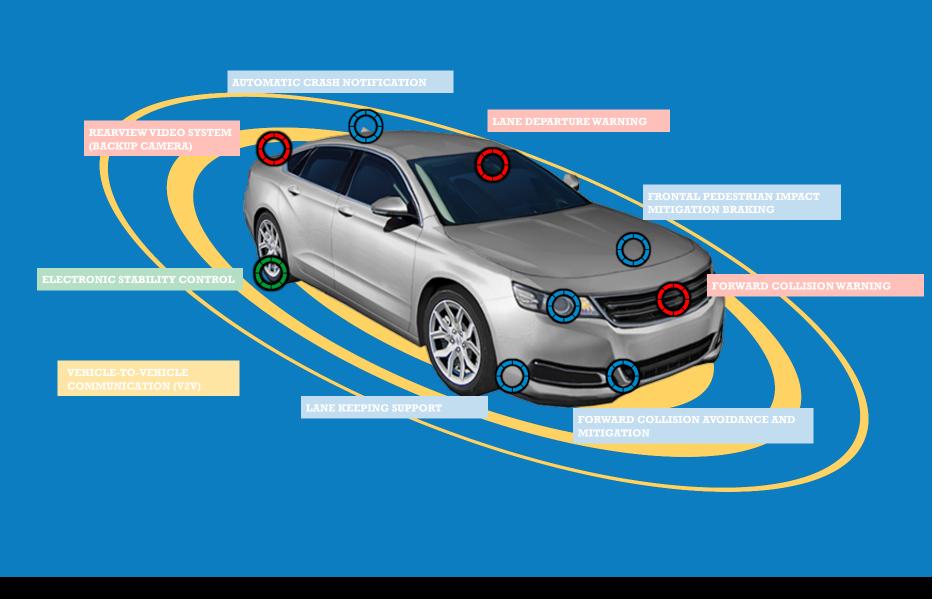








Safety Technologies





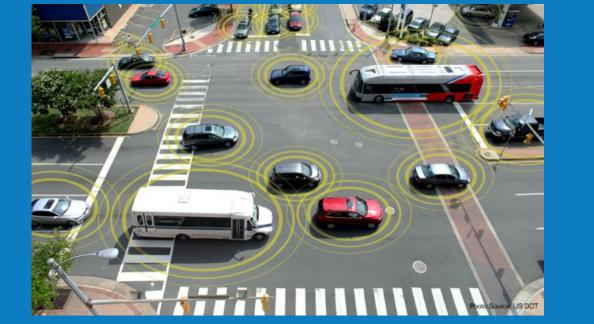
😠 📩 🛯 😾 🛛 Vehicle to Vehicle (V2V): Connected Automation

Forward Collision















Intersection



🗟 🔥 🛝 🛣 Driver Alcohol Detection System for Safety

Objective

A non-invasive, seamless technology to measure driver BAC and reduce the incidence of drunk driving









- Develop deployment guidance
- Create model state policy
- Identify new tools
- Structure current tools



😔 🔨 🛝 坛 🛛 Evolution: Transformative Technology

• Historically: reduce severity/mitigate injury/medical attention



• Proactive safety: avoid the crash

