



My Car Does What?







- Access ADAS Resources
 - MyCarDoesWhat
 - Be the Hero for your students

Saving Lives Now With Automation



When Will You Own A Fully Self-Driving Car?

Highway Data Loss Institute (HDLI) reveals how slowly ADAS
Technologies are achieving penetration in the US fleet.

- Normal turnover of inventory
 - average age of cars in the US fleet = 11.6 years old.
- Electronic stability control has been available for <u>decades</u> and was mandated on all new passenger cars by the 2012 model year
 - in 2015 only 40% of registered vehicles were equipped with ESC.
 - full fleet penetration is not predicted until the 2040s.

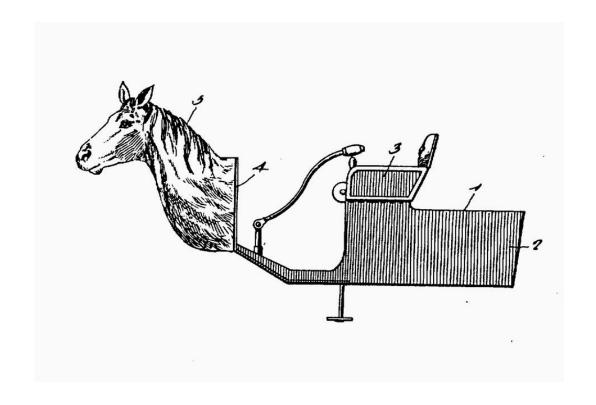








How Can We Speed Adoption?







It is going to be difficult







It is going to be difficult







ADAS Deployments Work

ADAS systems appear to be working

- Backup Cameras cut backing crashes 17%
- Lane departure warning lowers all typical crashes (single-vehicle, sideswipe and head on crashes) by 11 percent and injury crashes by 21 percent
- Electronic Stability Control lowers the risk of fatal single-vehicle crashes by half and roll overs as much as 80 percent

Education is the key to adoption and proper use













TPMS

















Drowsiness Alert











Automatic Emergency Braking



























Intersection Collision Avoidance Forward Collision Warning

Automatic Braking

Obstacle Detection

Intelligent Speed Adaptation

High Speed Alert

Curve Speed Warning

Cruise Control

Adaptive Cruise Control

Adaptive Headlights





















Night Vision

Parking Sensors

Automatic Parallel Parking

Rear Cross Traffic Alert

Back-up Camera

Back-up Warning

Pedestrian Detection

Active Steering

Adaptive and Active Suspension

Anti-Lock Braking System





















Cornering Braking Control

Electronic Braking Assistance

Electronic Stability Control Caravan Electronic Stability Control

Traction Control

Hill Start Assist

Hill Descent Assist

Terrain Management

Road Surface Warning

Tire Pressure Monitoring System





















Rollover Detection and Prevention Lane Departure Warning

Lane Keeping Assist

Blind Spot Monitor

Sideview Camera

Drowsiness Alert

Health and Workload Monitoring Audible Route Guidance

Automatic Collision Notification

Push Button Start





Does Vhat org Know More. Drive Safer.











Adoption Challenges

Safety Features Have Different Brand Names

Safety Features Have Different Capabilities across Manufacturers, Trim Levels and Time

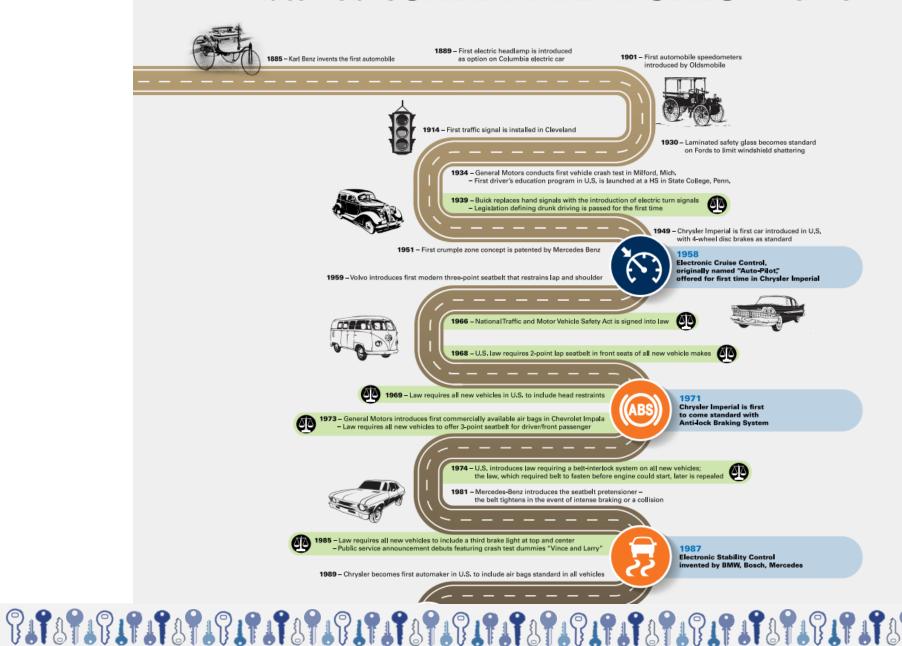
Safety Feature Limitations May Not Be Intuitive or Obvious

Warning or Icon standardization issues

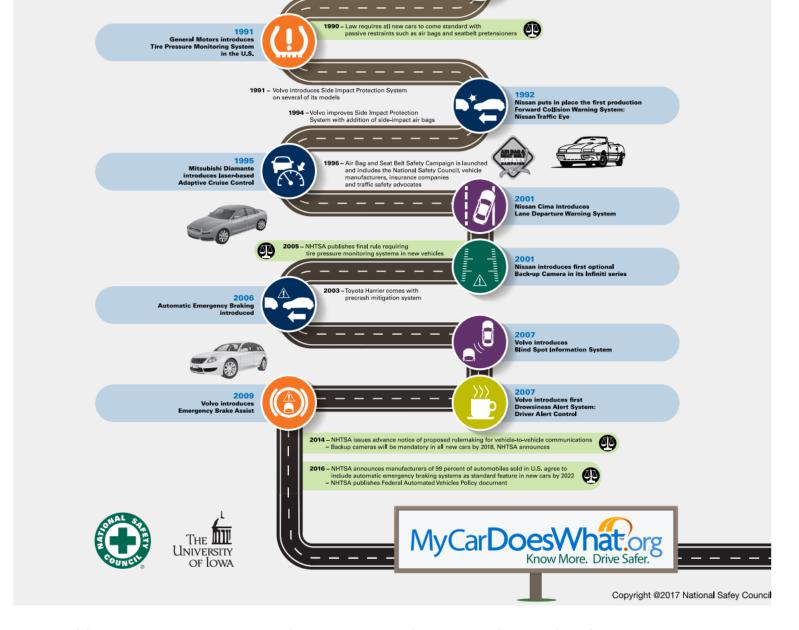


Automobile SAFETY FEATURES Timeline











https://mycardoeswhat.org/wp-content/uploads/2018/02/MCDW-Timeline.pdf





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All About Today's Car Safety Features

High-tech eyes and ears that can keep you safe on the road. Learn More

> All Safety Features

Your Car's Safety Features Future Safety Features







Curve Speed Warning



Drowsiness Alert



Electronic Stability Control



Safety Features

Forward Collision Warning



High Speed Alert



Hill Descent Assist

