

# Driver Assistance Systems: How Might Novice and Aging Drivers Benefit?

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# Near-Term Vehicle-Based Driver Assistance Systems

- n **Lane Departure Warning**
  - o Warn that you are leaving your lane/the road
- n **Forward Crash Warning**
  - o You might strike the rear of a lead vehicle
- n **Lane-Change/Merge Crash Warning**
  - o It is not safe to change lanes/merge
- n **Blind Spot Detection**
  - o There is a vehicle in your blind spot

# Will These Systems Aid Young/Old Drivers Differently?

- n **These systems will reach young drivers last, and aging drivers first**
  - o **Cost**
- n **Are there inherent differences that will lead to differences in benefits?**
  - o **Reaction time, range of motion, cognition**
- n **Will systems be readily adaptable to different user needs?**

# We Don't Really Know!

- n Testing these systems is seldom, if ever, performed with teens or those over 70
- n Testing is usually aimed at accumulating exposure
  - o Mileage is lower for young and older drivers
  - o It becomes a very expensive proposition
- n We need to promote funding to explore studies of system use by novice and >70