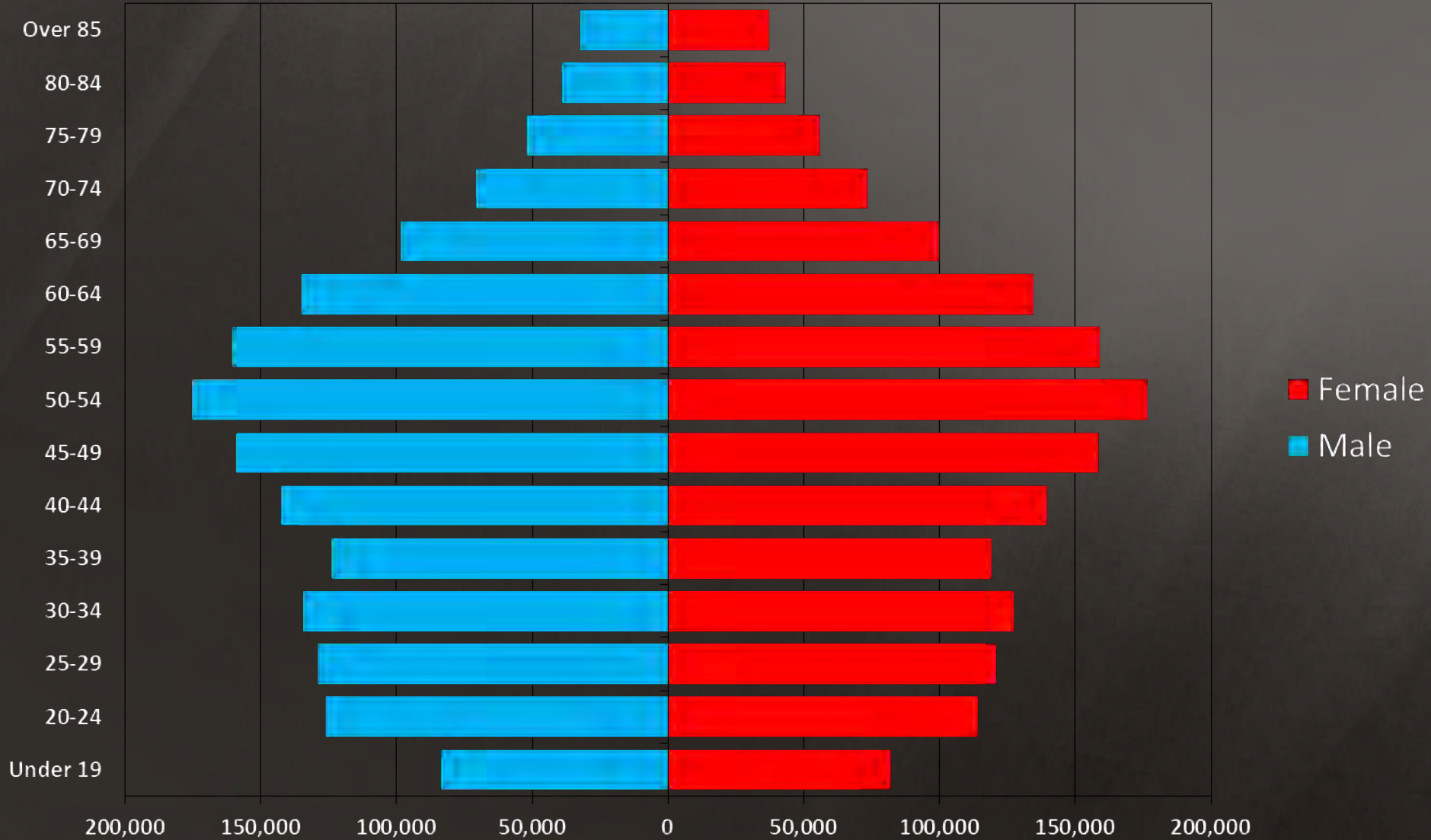


# The Aging Driver and Engineering Solutions

Brad Estochen  
State Traffic Safety Engineer  
Minnesota Department of Transportation

# Minnesota Licensed Drivers by Age and Sex, 2011

SOURCE: <http://www.fhwa.dot.gov/policyinformation/statistics/2011>



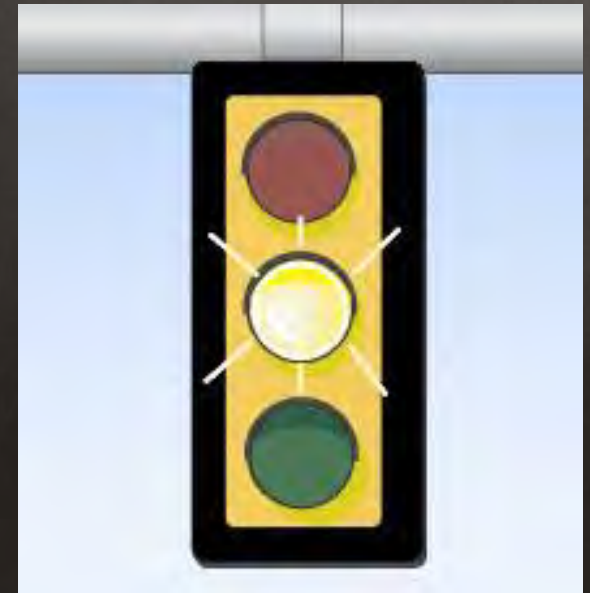
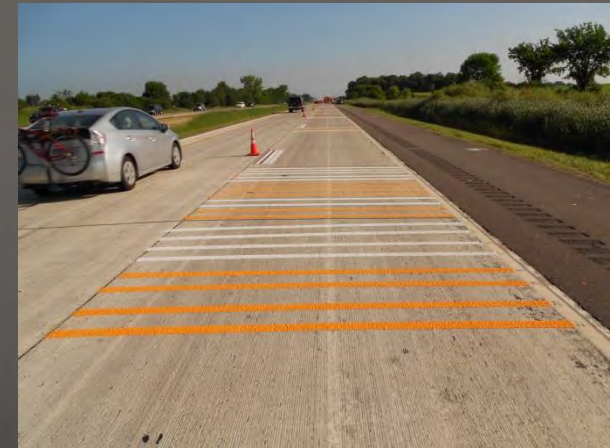
What is good for older drivers is generally good for all drivers



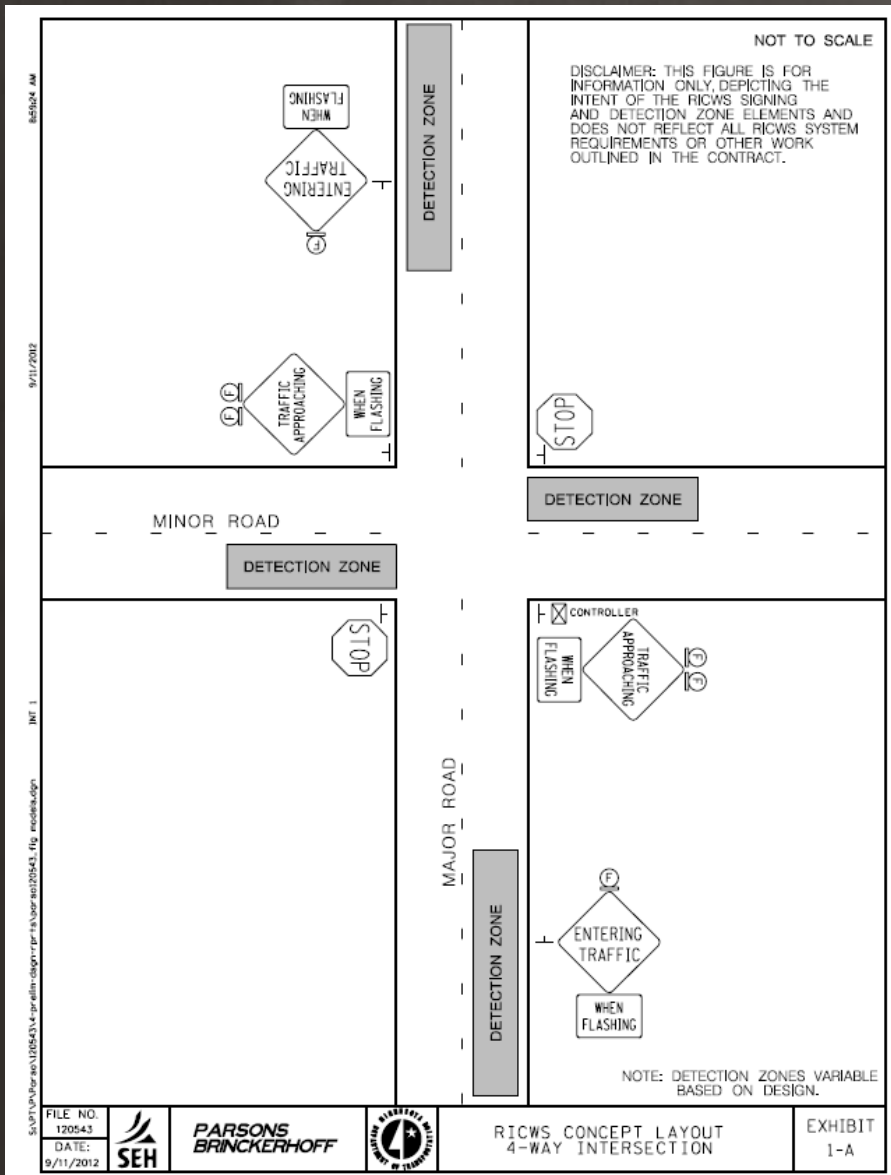
# Tools

- Traditional Infrastructure Improvements
  - Signs
  - Signals
  - Pavement Markings
  - Intersection and Roadway Design
- Vehicle Enhancements (rapid)
- Culture Changes (slow)

# Increased Visual Acuity



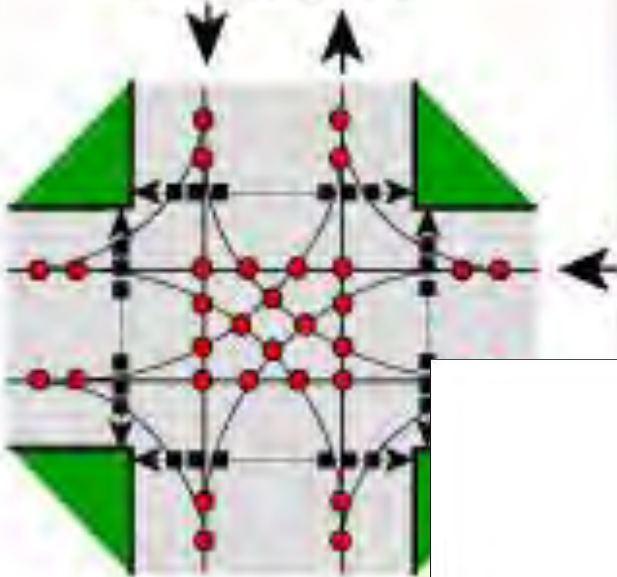
# Technology Assistance



# Intersection Improvements

## CONFLICTS

2-lane road standard intersection



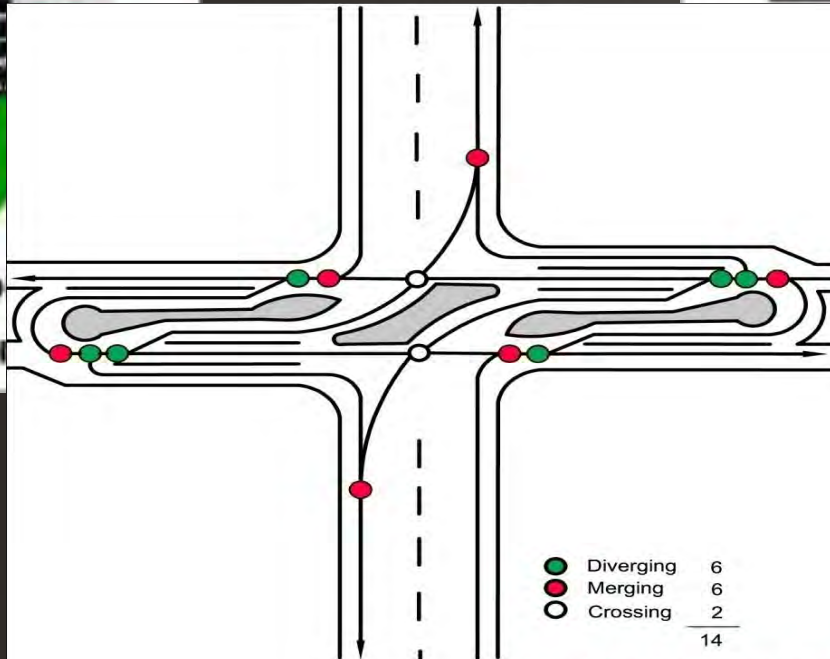
- 32 Vehicle to vehicle conflicts
- 24 Vehicle to pedestrian conflicts

## CONFLICTS

2-way roundabout



- 6 Vehicle to vehicle conflicts
- 2 Vehicle to pedestrian conflicts



TOTAL CONFLICT POINTS = 14

# Vehicle Enhancements

- Driver Assist System
  - Lane Departure
  - Blind Spot Detection
  - Collision Avoidance
  - Vehicle to Vehicle communication



- Automated Vehicles





# Mobility Needs

- Pedestrians



- Bicyclists



- Transit

- Ridesharing



# Questions

