

SELF DRIVING CARS

Policy Issues and Considerations

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Government Affairs and
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Technology

- Fully autonomous
 - Drive themselves
- Semi autonomous
 - Lane-keeping
 - Enhanced navigation
 - Adaptive cruise control
 - Electronic braking
 - Self parking
 - Blind zone monitoring
- Next
 - Traffic jam assist
 - Pedestrian detection

Now

Next



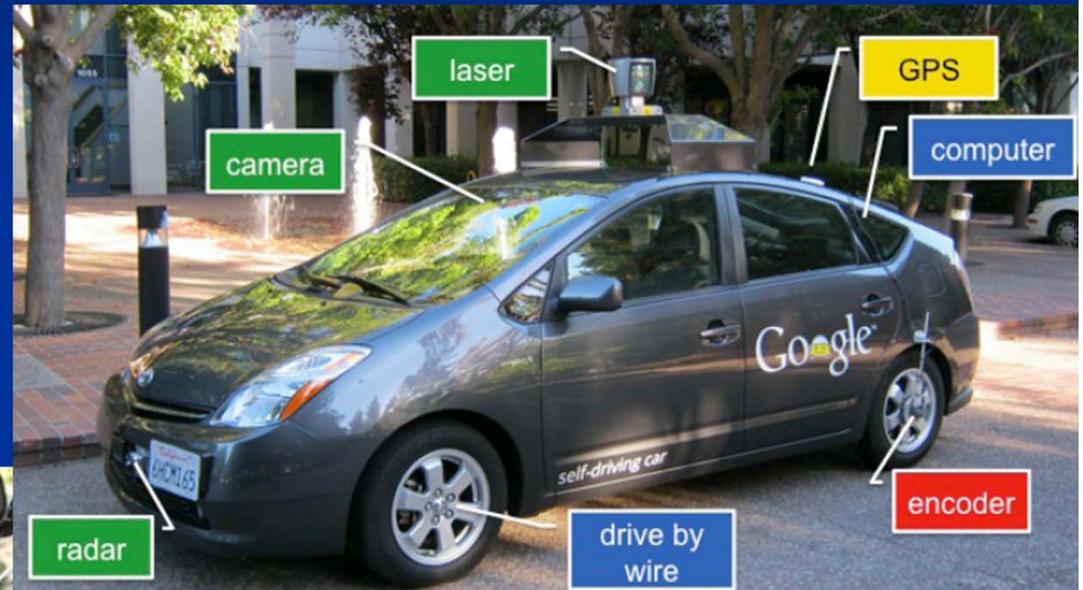
AAA Technology Safety Studies

- Speech-based Interactions with In-Vehicle Technology
 - AAA Foundation for Traffic Safety and University of Utah
 - Study of cognitive distractions caused by a variety of behaviors and technologies
- Driver Use of In-Vehicle Technologies
 - AAA, AAA Foundation, and MIT
 - Benefits and risks associated with the use, misuse, and over reliance on semi-autonomous technologies among motorists of all ages
 - Develop rating system to compare and contrast the effectiveness of a wide range of in-vehicle technologies intended to improve safety



Fully Autonomous Technology

- Cost: \$150,000
 - \$70,000 for laser scanner alone



Laws and Regulations

- States
 - Nevada, Florida enacted laws
 - Arizona, Hawaii, and Oklahoma considered, but did not enact
 - California law pending
- Federal role
 - NHTSA
- Liability
 - Who bears responsibility?
 - Insurers/manufacturers/
developers/owners/ operators



Google™



Potential Impacts

- Safety
- Mobility
- Vehicle ownership and use
- Insurance
- Auto-related industries
- Infrastructure (roads and transit)



Policy Questions

- How and who determines if technology is safe/legal?
- What technologies will be used?
 - Sensor-based (Google car)
 - Communication-based (V2I/V2V)
- Will needed infrastructure changes be made?
- How will mixed fleets function?
- How fast will technologies be adopted?
- Who is liable when things go wrong?
- Who get's a ticket when vehicle breaks the law?
- Who owns/has access to the data?
- What will we do with all the buses, trains, and roads?