Consensus Safety Measurement Methodologies for ADS-equipped Vehicles Workshop

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ADS Safety Challenges

- Technology development is outpacing progress on standards and regulations
- Defining How Safe is Safe
- Developing Mission Critical Software
- Perception Uncertainty and Capability
- Challenges with identifying AI Requirements and Explainability
- Inconsistent Approaches to Safety
Following DOT Guidance
A Principled Approach to Safety
Uber ATG’s Safety Principles

- Proficient
- Fail-safe
- Continuously Improving
- Resilient
- Trustworthy

We are developing a safety case that demonstrates conformance to these principles.
ADS Standards Workstreams

- NIST Safety Measurement Methodologies Workshop
- SAE
  - AV Consortium
  - Standards Committees
- UL4600
- NHTSA Research/University Transportation Institutes