FINDINGS OF THE COMMISSION ON AV TESTING AND SAFETY

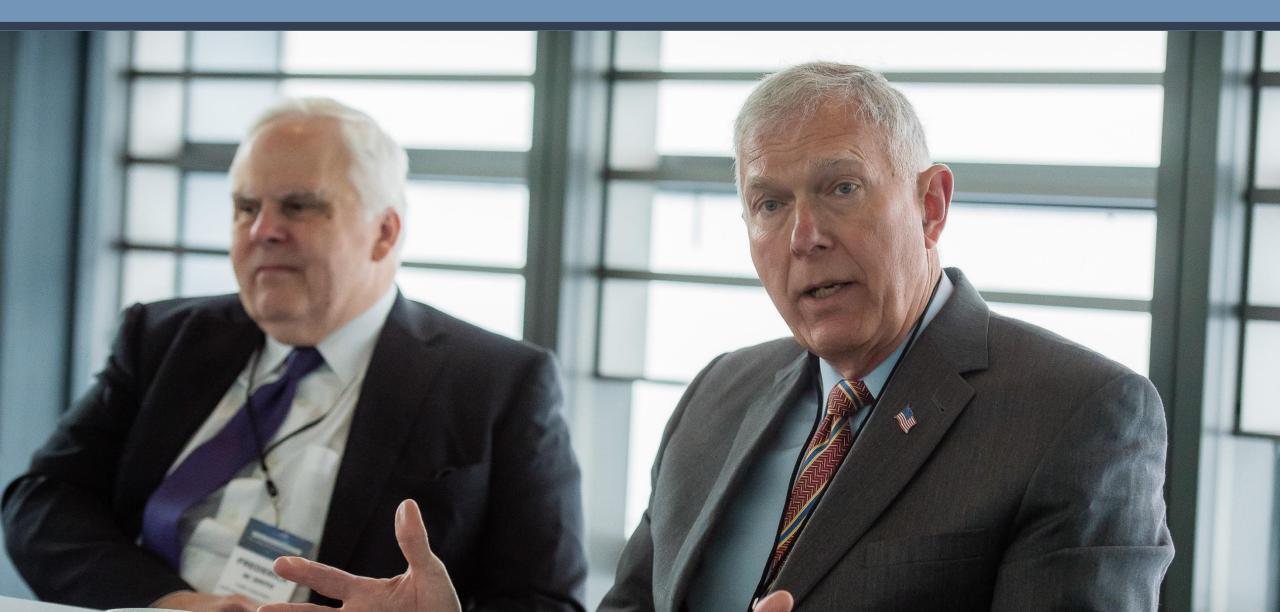
Amitai Bin-Nun

VP, Autonomous Vehicles and Mobility Innovation

October 23, 2017

• Securing America's • Future Energy

WHO IS SAFE?

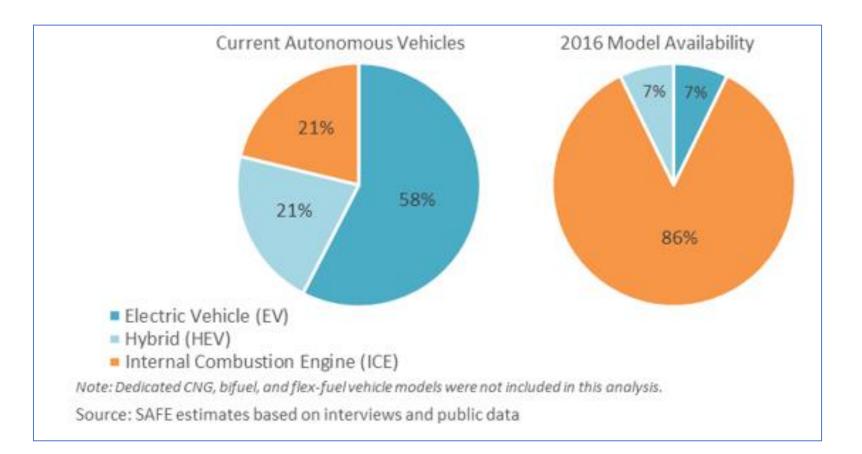


SAFE POSITION ON AUTONOMOUS VEHICLES

SAFE advocates for policies to accelerate the deployment of autonomous vehicles and maximize the benefits they offer society

AV: I JUST WANT TO BE ... EV?

Autonomous vehicles by Powertrain Type



TELLING THE BROADER STORY

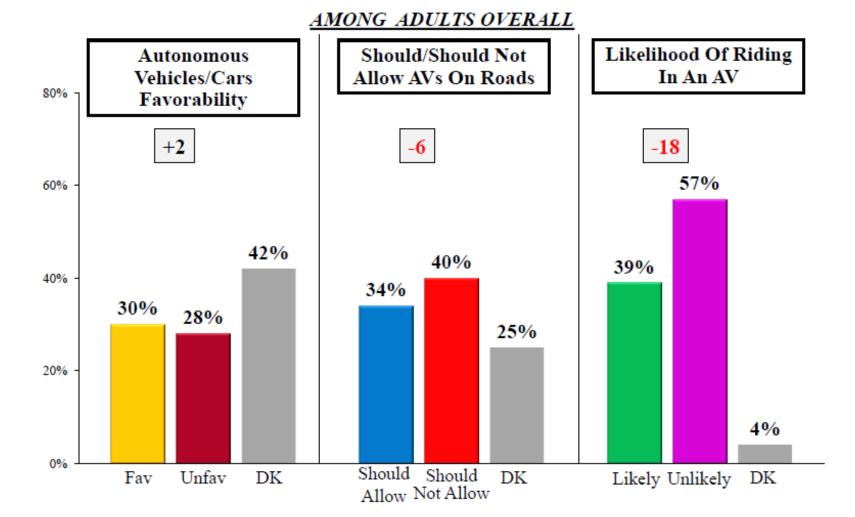
- Commission on AV Testing and Safety
- Self Driving Cars: The Impact on People with Disabilities
- Online Policy Dialogue with Department of Labor's Office of Employment and Disability Policy
- Self-Driving Vehicles: New Technologies and the Potential for Energy Savings in the Commercial Vehicle Sector (this month)
- AVs and Future of Labor Study (pending)

The Commission



CONCERN FOR PUBLIC ACCEPTANCE

Most Americans Lack Good Feelings About AVs



THE COMMISSION



Major General, USAF (ret.) Mark Rosenker, Chairman

• Former Chairman of the National Transportation Safety Board



Admiral, USN (ret.) Dennis Blair

Former Director of National Intelligence and Commander In Chief, U.S. Pacific Command



Paul Brubaker

• President and Chief Executive Officer, Alliance for Transportation Innovation



Robert Lange

- Principal and Corporate Vice President, Exponent
- Former Executive Director, Product Safety, General Motors

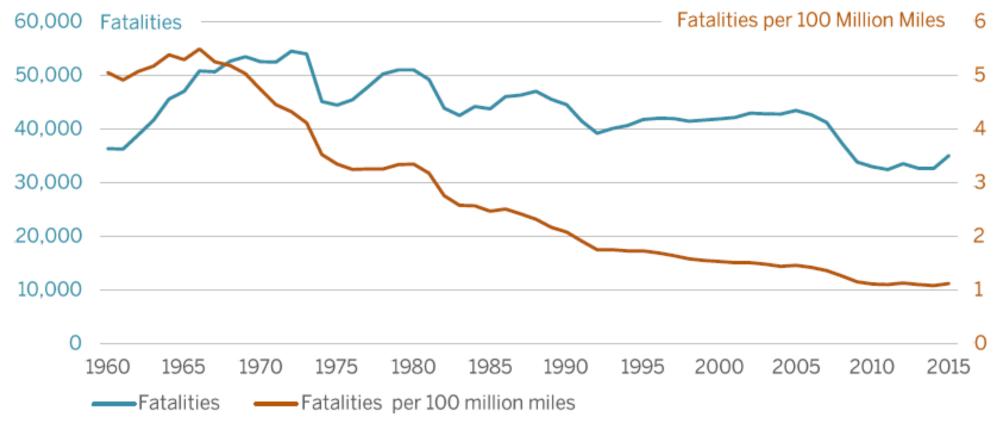


Cuneyt Oge

• President, SAE International

SAFETY IMPROVEMENT HAS PLATEAUED

U.S. Road Fatality Rate



Source: U.S. Department of Transportation

TWO MAJOR SOURCES OF RISK



- Early accidents may dominate coverage and public opinion
- Need for transparency to build consumer confidence and align expectations
- Misregulation AND underregulation
- Slow speed and complexity may impede progress

These issues are intertwined; addressing regulatory challenges in a transparent fashion abets consumer acceptance

ADDRESSING "CONSUMER CONCERN" RISK

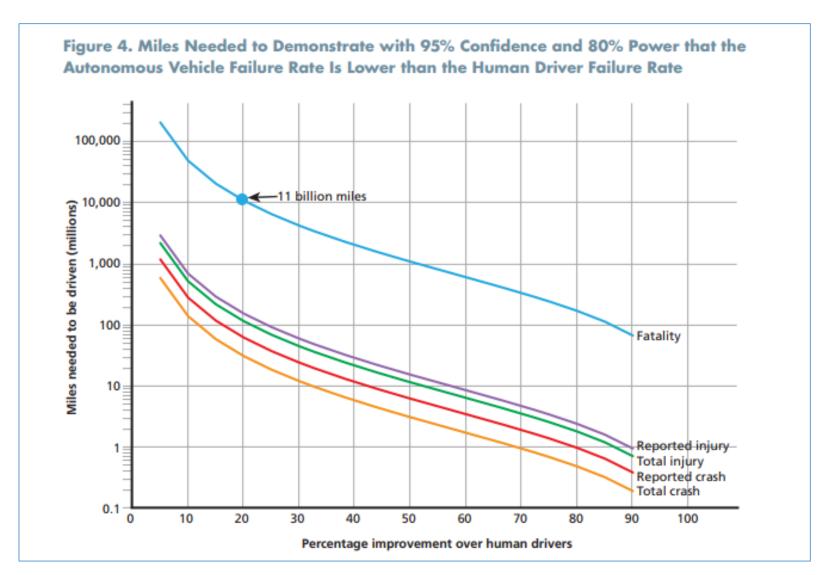
- Create and commit to safety benchmarks for AV performance
- Establish safety milestones to track the technology road map
- Safety is at a premium during AV testing utilize redundant safety measures
- AV providers should ensure that users and regulators are informed of capabilities and limitations

ADDRESSING REGULATORY RISK

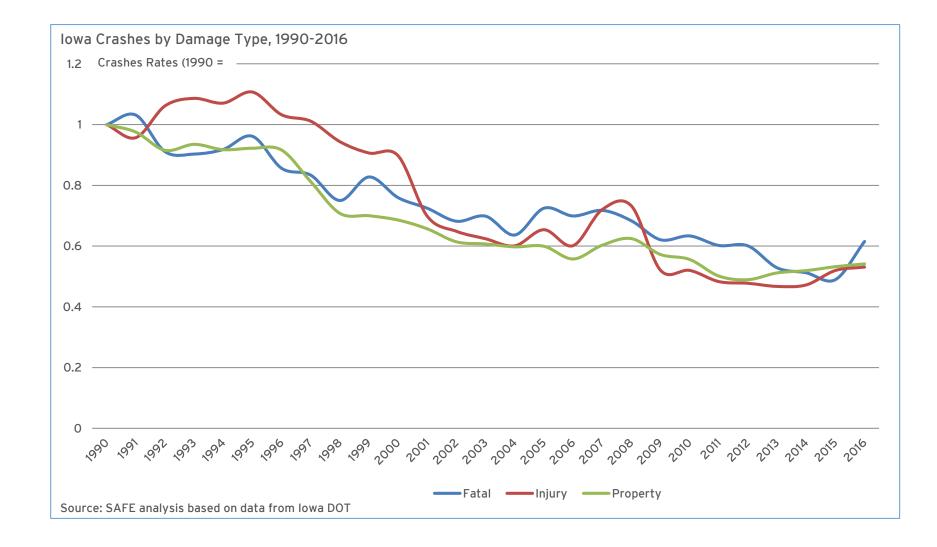
- AV providers are encouraged to form a data sharing consortium to accelerate safety experience and work with regulators
- Significant benefit of the consortium results from formulation of objective, practical, quantitative metrics for measuring AV safety
- We expect consortium to be driven by industry and result in consensus-driven AV regulations which are flexible and rest on a modern foundation reflecting software-driven nature of automation

A COMMENT ON ROAD TESTING

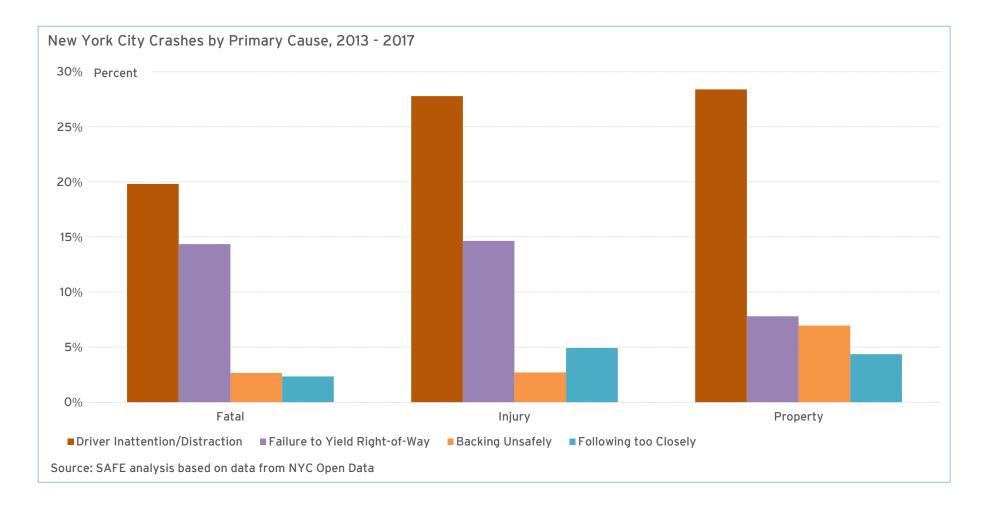
RAND: BILLIONS OF MILES TO TEST AV



SAFE: CRASHES ARE CORRELATED



SAFE: CRASHES RESULT FROM COMMON CAUSES



Shining a path forward... any questions?

