Autonomous Vehicles: Sharing the Road with Vulnerable Users

Lifesavers Conference - 2019

@Marco_Conner
@TransAlt | www.transalt.org
We get what we design
Highly Automated Vehicles

SAFETY

SPACE
“If done right, driverless cars could bring a reduction in congestion, crashes, injuries, and deaths. We could see elderly, disabled, and low-income people well-served by transit, more sharing, a solution for the last mile, and a reduction in parking demand.”

Sam Schwartz
Reclaim Magazine
New York City… (sad)
“But there is also a fair probability that vehicle miles traveled will soar, congestion will increase, and a lot of jobs will disappear. Driverless cars could take people out of subways, and slow buses even more than they already are.”

Sam Schwartz
Reclaim Magazine
Future Potholes for HAVs

- Ability to detect vulnerable road users
- Poor visibility
- Road conditions
- More vehicles
MISSION:
Our mission is to reclaim New York City's streets from the automobile and advocate for biking, walking and public transit as the best transportation alternatives.

BY THE NUMBERS:
Founded: 1973
Members: 10,000
Staff: 30
Supporters: 130,000
Activists: 500
About Transportation Alternatives
About Transportation Alternatives
SPACE FOR CARS?

OR

SPACE FOR PEOPLE?
Automobiles are like in-laws. You want to have good relations with them, but you don’t want them to run your lives.

Mike McGinn, Mayor of Seattle 2010-13
STREET SPACE FOR 60 PEOPLE

60

60

60
US Road Fatalities in 20th Century:

3+ Million People
We get what we design
DISRUPTION EVERYWHERE
Risks
Ride-Share Fleets Adopting HAVs

● Net increase in vehicles

● Trawling is incentivized
56 Traffic Lanes across 14th st. in Manhattan needed to accommodate 58,000 additional NYers traveling by car…*

*During rush hour, based on 700 vehicles per lane per hour and 1 ½ occupant per vehicle
We get what we design
Our streets are our [cities’] public asset...
We need them to also foster community by providing places to gather and enjoy.

Eric Garcetti, Mayor of LA
Social Interactions on Three Streets - Neighboring and Visiting

Donald Appleyard, Livable Streets, 1981 (Credit to Jason Kottke)
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