MaaS and the Effect of AVs on People, Place and Policy

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Autonomous Vehicles
Mobility as a Service
Mobility as a Service

- Uber
- Lyft
- Zipcar
- Via
- Getaround
- CAR2GO
- Tesla
- Ford
- Audi
- Enterprise
- Alamo
- Hertz
Cars, Trucks & Buses in the US

• US Passenger Car fleet: 240 million
• Average Age of PC fleet: 11.5 years
• Single Unit Trucks: 8.3 million
• Combination (Tractor Trailers): 2.58 million
• Transit Buses: 62,450

• Rental Car fleet: 5 million
Mobility as a Service
People: Right Sized for Task
People: Save Money

- $8,700/year – average cost to own a car
- Does nothing 95% of the day
People: Save Money

- Family Car Subscription ~ Phone Bill ($200/mo.)
- $6,300 a year back into your pocket
People: Access to Mobility

• 20% of U.S. population can’t drive

• Many can’t afford a car; and rural transit is time consuming, inefficient & dehumanizing
People: Better Service

- First/last mile, now first/last 10 miles
People: Carpooling is cool & fun!
Key Research

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TRANSFORMING PERSONAL MOBILITY

Lawrence D. Burns, Director, Program on Sustainable Mobility
William C. Jordan, President, Jordan Analytics LLC
Bonnie A. Scarborough, Program Manager, Program on Sustainable Mobility
The Earth Institute, Columbia University

Place: Repurpose parking
Policy: You can keep on driving!
Policy: Safer and efficient roads
Policy: Reducing mayhem

• Killed in vehicle collisions: 1.3 million/year

• Including injuries:
  40 million disability adjusted life years annually

• Cost? $170 billion/year
Policy: Displaced workers
Key Research

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