Transit in the Era of Automated and Shared Mobility Technologies





CATTS

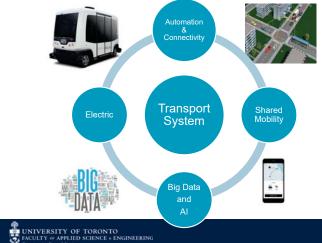
Centre for Automated & Transformative Transportation Systems

 A new centre within UTTRI (University of Toronto Transportation Research Institute)





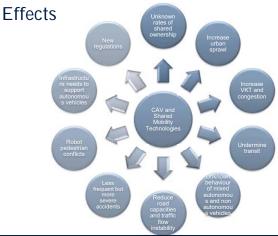
Major Trends



The Promise



The Threat: Risks, Unknowns & Unintended



The Evidence (thus far)

Effects of ride-sourcing on:

- Auto ownership and VKT
 - Negligible change in auto ownership
 - High rates of VKT increase due to latent demand and deadhead trips
- Traffic Congestion and GHG
 - Increase in congestion in large cities
 - Increase in commute times and congestion in cities with poor transit service
- Transit Ridership
 - Generally, ride-sourcing is competitive with transit, particularly in contexts characterized by low order transit
 - Complements high order transit (e.g. metro) serving as a FM/LM service



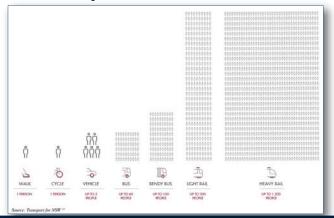


Higher order transit is the most space efficient of all modes, offering the highest person capacity



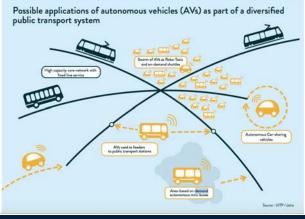


Higher order transit is the ultimate form of "Shared Mobility"



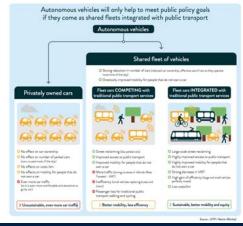


The Transit Future



UNIVERSITY OF TORONTO
FACULTY APPLIED SCIENCE & ENGINEERING
Transportation Reason & Institutes

The Transit Future





Thank You!