

Introductions

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The Future of Transit



Technology is not the Issue

Autonomous Vehicles - Regulations



What is an Autonomous Vehicle

- **Level 1** – Adaptive cruise control, lane centering, auto braking.
- **Level 2** – Maintains its speed, slows down to avoid other cars, and stays in its lane. Tesla’s “autopilot”.
- **Level 3** – Vehicle makes decisions. It can change lanes, and pass. Audi A7 prototype.
- **Level 4** - Can handle most situations. Limited to areas like a college campus or city downtown. Google, EasyMile.
- **Level 5** - Google’s goal: Vehicle does all driving tasks and can go anywhere. No human, no steering wheel, no pedals.

Vehicle Safety

- Current State
 - 1 death every 94 million miles traveled
 - 35,092 killed in 2015, 7.2% increase from 2014
 - Over 2 million injured
 - 94% caused by driver error
- Future State with AV – **Who is liable?**
 - 1 in 130 million miles traveled (Tesla)
 - 0 in billions of miles

EasyMile AV – Level 4



Autonomous Vehicle Pilots

Rancho Mission Viejo

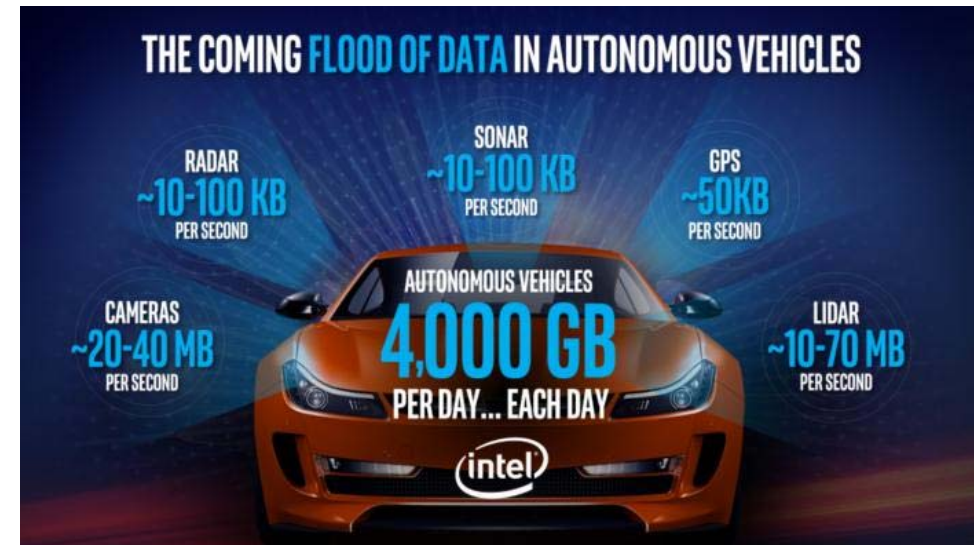


Bishop Ranch Business Park
San Ramon



Questions

- How do we pay for the necessary AV infrastructure?
- Will AV increase or decrease traffic?
- How much data is collected per vehicle per day?
- Who owns the data?
- Cybersecurity



Moral Machine - MIT



**MORAL
MACHINE**

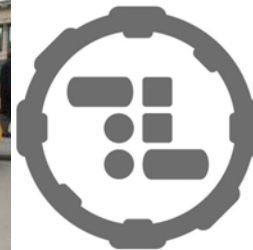
On Demand Service



Integrated Modes - RideTap

Subsidized On Demand Pilots

- Lyft in San Clemente
 - Subsidy per passenger \$5-\$7 versus \$28
 - Data sharing, Call Center and ADA compliance
- Keolis in Mission Viejo
 - ADA Accessible Vans
 - TransLoc



TransLoc®



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