Preparing for Autonomous Vehicles

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Works like magic
No stylus
Far more accurate
Ignores unintended touches
Multi-finger gestures
Patented!
“There’s no chance that the iPhone is going to get any significant market share. No chance....”

*Steve Ballmer*, CEO Microsoft, 2007

“*The iPhone’s impact will be minimal. It will only appeal to a few gadget freaks. Nokia and Motorola have nothing to worry about.*”

*Bloomberg Analyst*, 2007
• Promise
• Peril
• Plan

Get Ready!
Coming Soon!

GM's Self-Driving Cars to Be Ready for Ride-Sharing in 2019

Uber signs deal to buy up to 24,000 autonomous vehicles from Volvo

Waymo to buy 'thousands' of minivans for self-driving vehicle service
Convergence

https://electrek.co/
Trends reinforce

Person Miles Traveled

Electric Vehicles: <1%

Vehicle sharing w/smart-phone: ~5%

Autonomous Vehicles: 0%
Trends reinforce

Person Miles Traveled

Electric Vehicles: 20%
Vehicle sharing w/smart-phone: 20%
Autonomous Vehicles: 20%
Trends reinforce

Person Miles Traveled

Electric Vehicles

Vehicle sharing w/smart-phone

Autonomous Vehicles
BETTER & CHEAPER

• No driving
• No parking
• No fueling
• No repairs
• Safer

• 10X utilization
• Falling vehicle cost
• Low operating cost
• Low insurance
• Low finance
W. Seattle to Boeing Field

- Transit > 1 hour
- $0.55 per mile $0.16
- 70% cost savings
- Annual savings: $3,300
Resist
- Love of driving
- Fear & distrust
- Liability
- Job loss

Embrace
- Love of tech
- Ride-sharing
- Millennials
- Labor shifts
Urban mobility transformed in 10 years
Greenhouse emissions slashed
Land freed from parking cars
Rethinking our streets
Percentage of respondents reporting a shock over a 12-month period, by type.

- **24%** Major home repair
- **30%** Major car repair
- **4%** Divorce, separation, or widowing
- **24%** Trip to hospital
- **24%** Pay cut
- **10%** Other large expense

Notes: This data is from a 2015 national survey of more than 7,800 households. Respondents could have experienced none, one or more of the identified shocks.

Source: Pew Charitable Trusts
Reduced Cost

Improved Mobility

Increased Safety

Reduced GHGs

Land from parking

Reduced Congestion*

Boost to Productivity

Improved Regional Competitiveness*
Potential downsides

- Job loss
- Road finance
- Congestion
- Sprawl
- Privacy & data security
Potential downsides

- Job loss
  - Create pathways to growing sectors

- Road finance

- Congestion
  - Price roads efficiently

- Sprawl

- Privacy & data security
  - Set rules
GET READY
Co-producer & regulator

• Private fleets on public roads

• Guard the public interest
Rally the regional players

- State Government
- Local Government
- Transit Agencies
- Research Institutions
- Regional Planning & Economic Development Agencies
- NGOs
- AEV Technology & Service Providers
- Business Leaders
- Utilities
- Labor
Rally the regional players
Action agenda: Q1 & Q2 - 2018

1. Build capacity to engage new policy area
2. Convene regional players
3. Recruit companies for 2019
4. Cities and utilities to partner on Clean Energy grants from Commerce
   - $13 million by June 2019 for charging capacity
Action agenda: Q2-Q4 - 2018

1. Rules of the road
   a. Clarify roles & responsibilities
   b. Regulatory certainty for TNCs

2. Model ordinances for cities
   a. Public safety
   b. Roadway & sidewalk rules
   c. Parking

3. Policy to mitigate downsides
   a. Ensure competition
   b. Variable road pricing by time of day and location
   c. Pathways for displaced workers
Thank you!

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