AUTONOMOUS VEHICLES IN THE PACIFIC NORTHWEST

JULY 30, 2018 WORKSHOP, SEATTLE, WA

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Workshop Goals

- Understand Public/Private Sector Needs and Motivations
- Align Around Climate and Equity Goals
  - Areas of Coordination
  - Areas of Concern
  - Opportunities to Define Landscape
- Identify Actionable Next Steps
- Establish Ongoing Dialog
Baseline Report
- Literature Review
- Policy Comparative Analysis
- Workshop #1
NEW MOBILITY POLICY DEVELOPMENT

**Goals**
- Transportation
- Land Use
- Environmental
- Equity
- Etc.

**Objectives**

**Strategies**

**Implementation Actions**
- Regulation
- Pricing (Taxes and Fees)
- Investment (Capital)
- Programs (Ops & Maint.)

**Agency Needs**
- Data
- Capacity
- Knowledge
GOAL: MINIMIZE GREENHOUSE GAS EMISSIONS

POLICY OBJECTIVES

1. Maximize Accessibility While Reducing Energy Use
2. Enable Efficient Freight and Goods Movement
3. Prioritize Clean Energy Sources
4. Limit Metropolitan Footprint Expansion
5. Adapt to Land Use Changes Over Time
GOAL: MINIMIZE GREENHOUSE GAS EMISSIONS

GOVERNANCE AND OPERATIONAL OBJECTIVES

1. Update Structures and Facilitate Communication
2. Promote Culture of Innovation and Flexibility
Workshop Agenda

9:00  Welcome and Introduction
9:20  Background and Goals
9:40  City Goals and Key Strategy Questions
10:00 Equity Framework
10:30 Technology and the City (Company Presentations)
12:00 Lunch
12:30 Discussion on Climate and Equity Goals
4:00  Report Back / Large Group Discussion
4:30  Next Steps
URBANISM NEXT | FRAMEWORK

**LAND USE**
- RETAIL/COMMERCIAL/OFFICE/INDUSTRIAL EMPLOYMENT USES
  - How will the changing nature of travel, employment and shopping impact retail, commercial, and industrial districts?
- HOUSING
  - What are the opportunities to increase housing through infill? Will people choose to locate in cities, or move farther out in the suburbs?
- PARKS & OPEN SPACE
  - How do we protect open space under the pressure to expand cities? What opportunities are there to expand parking lots for parks?

**URBAN DESIGN**
- STREET DESIGN
  - As cities make plans for future expansions, changes to their street network, the inclusion of various modes/complete streets, and overall street design – what should they be considering?
- CENTERS AND CORRIDORS
  - Will AVs support transit to strengthen current nodes and corridors or will they lead to more dispersion with continuous low-density development?
- DENSIFICATION
  - How and where will AVs and new mobility increase or decrease development density?
- PLACE/IDENTITY
  - When shopping and transportation can be acquired anywhere, what happens to business districts, shopping districts and neighborhoods?
- PARKING (URBAN FORM)
  - How will reduced need for parking impact urban form?

**TRANSPORTATION**
- WALKING
  - How will we regulate the interactions between pedestrians and vehicles? What happens when pedestrians can stop AVs by simply stepping into the street?
- BIKING
  - Will the mixing of modes be favored upon because it is such a limitation to AV efficiency? Will some areas ban bikes? How will bikes work around curbside deliveries and drop-offs?
- PARKING (TRANSPORTATION)
  - What happens if parking utilization needs drop dramatically over a short period of time. How quickly will parking requirements shift with that?
- VEHICLES
  - One of the biggest questions is: Preliminary models of individual ownership of AVs show VMT increasing dramatically. Will AVs be fleets or individually owned?
- TRANSIT
  - Already, transit ridership has declined approximately 12% because of ride-sharing companies. What happens to transit when AVs are deployed?

**REAL ESTATE**
- LAND VALUE
  - A reduction in demand for parking will open up between 10% and 20% of land for redevelopment. How will this impact land value and project feasibility?
- PROJECT FEASIBILITY
  - Development will likely get more risky as market conditions related to parking demand and commercial and retail viability change. How do we reduce risk?

**IMPLICATIONS FOR...**

**EQUITY**
- How will the impacts of emerging technologies impact vulnerable and low income populations? What opportunities are there to improve services and reduce inequities?

**HEALTH**
- Preliminary research finds that people are replacing walking, biking, and transit trips with rideharing services. If this trend continues and is exacerbated by AVs, what will the impact be on our health? What are the impacts of E-commerce on health?

**ENVIRONMENT**
- How can we take advantage of emerging technologies to improve sustainability and environmental outcomes? Can we reduce GHG emissions? Can we improve stormwater treatment?

**ECONOMY**
- Up to 4 million people drive for a living. What happens to their jobs with the deployment of AVs? Brick-and-mortar stores are closing as shoppers go online. How will emerging technologies disrupt the economy?

**GOVERNANCE**
- Emerging technologies will disrupt revenues for cities, counties, and states. How do we provide a great level of service and support thriving communities?

**WHAT SHOULD WE DO?**
- Given the possible range of secondary impacts of emerging technologies on land use, urban design, transportation, and real estate, and the implications on equity, the economy, and the environment, how should governments, companies, and institutions respond to maximize the benefits and minimize the risks? How do policies, programs, and infrastructure investments need to adapt and change?
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