

Congestion Pricing



November 30, 2017 City Council Presentation



Why we are here?

- Congestion is a growing problem for the Portland region
- ODOT is considering congestion pricing on I-5 and I-205
- Desire to better understand the role of congestion pricing in Portland's future





Oregon legislature looking at pricing

- House Bill 2017 includes congestion pricing
- Focus on I-5 and I-205
- Portland is participating on advisory committee
- Portland focus on:
 - Demand management
 - Diversion to local streets
 - Equity
 - Climate
 - Responsible use of new revenue



HB 2017



Broader potential for pricing to meet multimodal objectives

- Potential strategies to reduce congestion and improve multimodal transportation outcomes
 - Cordons and other area-based pricing
 - Parking demand management
 - Automated, shared, electric vehicles
 - Bridge pricing
- Advance Portland's land use, housing, equity, Vision Zero, and climate policies





Costs of congestion - Economy

- Increased commute times
- Increased fuel costs, car maintenance, childcare, time away from family/community
- By 2025, Metro estimates the regional cost of congestion will be \$844 million per year





ECONOMIC IMPACTS OF CONGESTION

on the Portland-metro and Oregon economy



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Costs of congestion – Health & Equity

- People with lower incomes tend to live closer to congested and polluted roads:
 - Emissions contribute to asthma, heart attacks, and other problems
- Lower income people often live farther from work:
 - Long commutes are associated with obesity, high blood pressure, heart disease, diabetes, others

PBOT Equity Matrix





Costs of congestion -- Climate

- Nearly 40% of Oregon GHG emissions from motor vehicles
- Fastest growing percentage is freight, exacerbated by stop and go traffic
- Buses also impacted by congestion
 discourages transit use.



PBOT 7

Congestion is an economic problem

- Road use is free, leads to inefficiency
- Without pricing, roads are not subject to the rules of supply and demand
- This leads to many discretionary trips in peak periods





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- Pricing can be a tool to incent more efficient use of the limited right of way
- Different modes have different footprints on the road
- Price inefficiency & reward efficiency
 - Location/congestion level
 - Time of day
 - Number of passengers
 - Fuel efficiency
 - Parking > pick-up and drop-off zones

Relative footprint of a person trip by mode





Current strategies for congestion relief

- Provide alternatives to single occupancy vehicle trips – transit, carpools, biking, and walking
- Land use / Housing strategies (20-minute neighborhoods)
- Transportation Demand Management





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Strategies for congestion relief: road specific

- Build more and more roads: *very expensive*
- Change time of day for road use: *limited benefits*
- Intelligent Transportation Systems (signal synchronization and prioritization): *limited benefits*



Charge people for using roads at congested times



Congestion Pricing is key to existing plans

- **Portland Plan**: Action 124 calls for a shift in how we fund transportation
- Climate Action Plan: Actions 4A through 4C calls for road usage & fuel efficiency charges as long-term replacement for declining gas tax revenue
- Comprehensive Plan: Policy 9.50 calls for a regional congestion management approach, including a market-based system, to price or charge for auto trips & parking





Other cities have done this and it works

- London
 - Commute times fell by 14% almost immediately
 - Safety improvement (40-70% crash reduction)
- Singapore
 - Advanced system of pricing, now at 45% reduction and pushing for more





Stockholm

- Auto trips into and out of the city continued to decline with congestion tax in place
- Population rose during this time
- When tax was removed, trips rose again





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North American cities implementing & considering pricing policies

- Variable bridge tolls used in NY, Seattle
- Many other places
 looking at pricing policies
 (SF, LA, NYC, Vancouver)





Pricing and Transit

- Congestion pricing works best when paired with viable transit options
 - Stockholm pricing revenue directly funds new transit lines
 - London timed introduction of the cordon with the opening of new Tube line, and over 80% of revenue goes to improving bus service
- Local decisions about use of revenue
 - Some may be constitutionally restricted
 - We can still find ways to link the two (e.g. investments in making high crash corridors like 82nd Avenue safer and more efficient)





Portland and congestion pricing

- For pricing to work, we must find solutions that work for our communities
 - Advance Equity
 - Reduce Climate Impacts
 - Achieve Vision Zero
 - Support Land use and housing goals
- Support our entire transportation system, not just divert from one place to another





Initial equity questions

- Displaced communities that are driving farther
- Additional cost to those who can least afford it
- Limited access to transit in many communities





Next Steps: Per Resolution

- 1. Support ODOT congestion pricing effort
 - Demand management
 - Emphasis on equity, climate, safety
 - Diversion
 - Revenue use





Next Steps: Per Resolution

2. Research & evaluate pricing best practices to decrease congestion & improve multimodal options

- Consider comprehensive congestion pricing & demand management strategies including:
 - Cordons, other area-based pricing, bridge pricing
 - Parking demand management
 - Automated, electric, and shared vehicle mobility pricing
- Engage many stakeholders including low-income and other marginalized communities
- Work with regional and national partners to do it right





Congestion Pricing Timeline

	NOV	DEC	JAN '18	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	2019
	Advisory committee meets & develops recommendations														
ODOT Led								Develop report & proposal for FHWA; submit in December							
											Next steps for implementation, NEPA				
City of Portland led	Stakeholder outreach and engagement														
	Best practices research, collaboration with regional and national cities and experts														
														l findings report y Council	



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