## Congestion Pricing



## 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


HB 2017

- Climate
- Responsible use of new revenue


## 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

Transport for London
Congestion charging


Central ZONE

Mon - Fri $7 \mathrm{am}-6 \mathrm{pm}$

## 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



## 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.

Residents and businesses will be motivated to change their behavior in ways that reduce carbon emissions.


## 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



## Pricing roads leads to more efficient choices

Relative footprint of a person trip by mode

- Pricing can be a tool to incent more efficient use of the limited right of way
- Different modes have different footprints on the road


Most effective way to move 60 people?


## 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



## 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

2035
COMPREHENSIVE PLAN 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


[^0]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)


## HOW A GO ZONE COULD WORK IN LOS ANGELES



## 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
 $82^{\text {nd }}$ 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 | OCT | NOV | DEC | 2019 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Advisory committee meets \& develops recommendations |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | Develop report \& proposal for FHWA; submit in December |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | Next steps for implementation, NEPA |  |
| Stakeholder outreach and engagement |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Best practices research, collaboration with regional and national cities and experts |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | Initial findings report to City Council |  |  |  |

## Congestion Pricing




[^0]:    Portlandoregon.gov/transportation

