

Portland Metro Area Value Pricing Feasibility Analysis

Clark County Board of Councils



Presentation overview

- Background and process for value pricing analysis
- What we're hearing: public engagement
- What we're learning: Round 1 analysis and Round 2 concepts
- Equity considerations
- Next steps



Regional growth

From 2014-15 the Portland area grew by 30,761 people

35,800 jobs were added

Peak congestion periods are getting longer and encroaching into the middle of the day.

Trips are taking longer, impacting passenger vehicles, public transportation and freight movement.



From 2013 to 2015...





WHILE THE POPULATION
HAS GROWN BY 3.0%,

CONGESTION

HAVE 13.6%,

HOURS OF DELAY

INCREASED 22.6%.

I-5 corridor performance



I-5	Corridor		2015	2013 vs 2015 Change
	Hours of Congestion (Daily Hours)	NB	15.7	+9.0%
		SB	15.5	+0.6%
	Daily Vehicle Hours Delay	NB	6,440	+18.1%
	(Daily Vehicle Hours)	SB	6,095	+23.6%
	Annual Crashes	NB	556	+12.0%
		SB	564	+17.0%





I-205 corridor performance

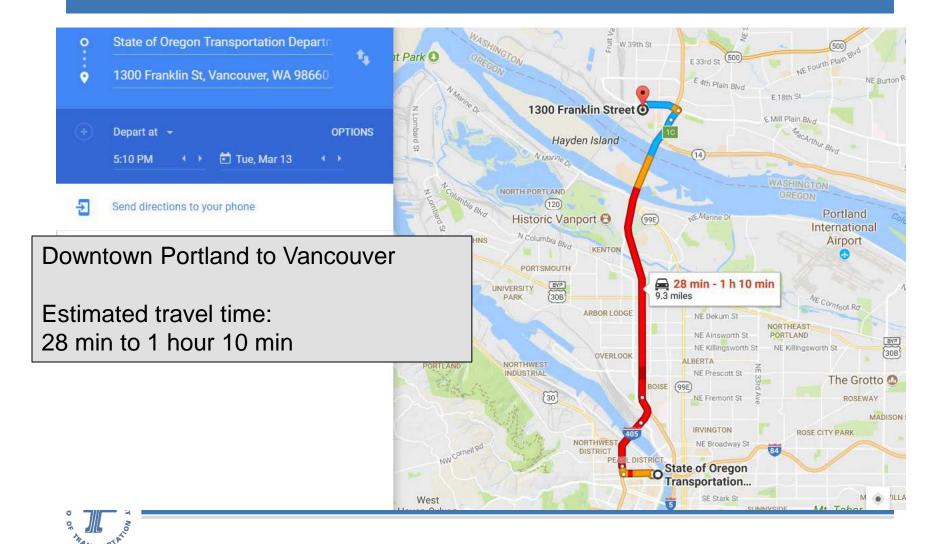


Corridor		2015	2013 vs 2015 Change
Hours of Congestion	NB	9.8	+32.4%
_	SB	10.0	+47.1%
Daily Vehicle Hours Delay (Daily Vehicle Hours)	NB	5,468	+45.0%
	SB	4,462	+52.6%
Annual Crashes	NB	476	+18.0%
	SB	430	+45.0%
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Source: ODOT. June 2017. Portland Region 2016 Traffic Performance Report.

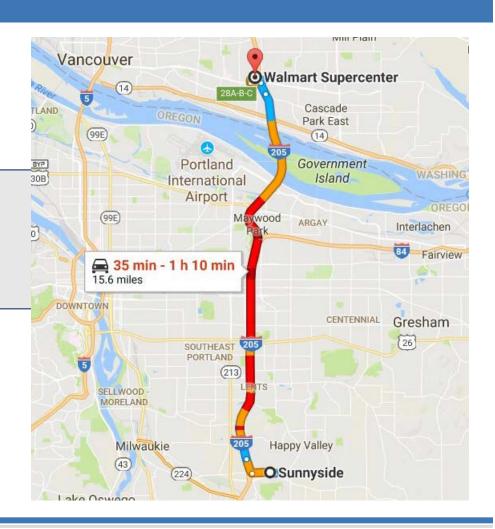
What's the problem?



What's the problem?

Sunnyside to Vancouver

Estimated travel time: 35 min to 1 hour 10 minutes





Comprehensive approach to congestion relief in HB 2017

Bottleneck relief





Transportation options

Freight rail

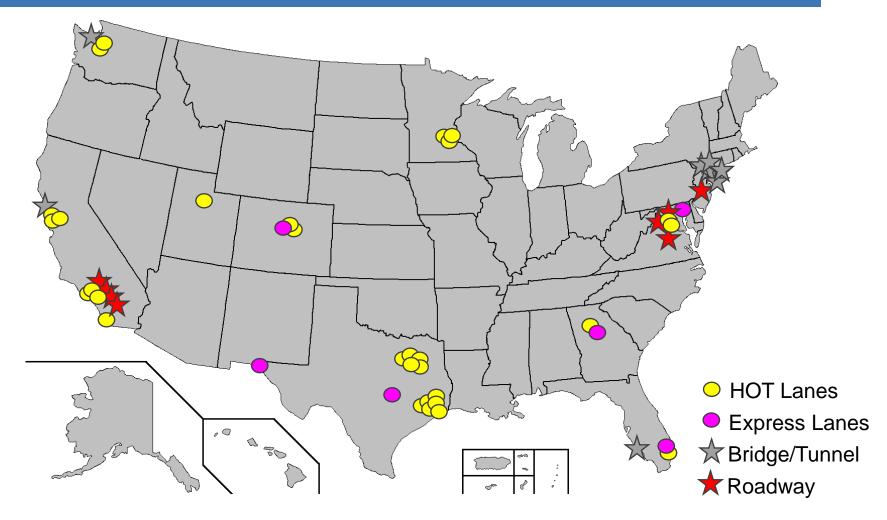




Value pricing



Variably priced lanes and roadways

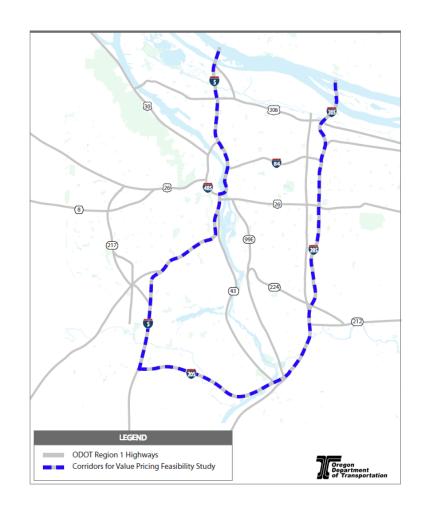




Value Pricing Feasibility Analysis

Policy Advisory Committee will recommend to OTC:

- Location(s) best suited for value pricing to reduce congestion
- The type(s) of value pricing to implement
- Mitigation strategies to evaluate further





Value Pricing Policy Advisory Committee

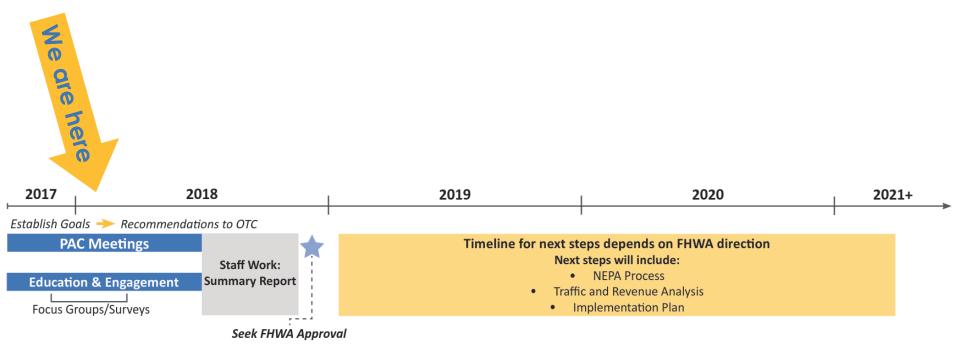
Oregon Transportation Commission			
Clackamas County	Clark County	Multnomah County	Washington County
City of Portland	Port of Portland	Metro	City of Vancouver
TriMet	Ride Connection	Verde	Oregon Trucking Associations
Portland Business Alliance	Fred Meyer	OPAL Environmental Justice of Oregon	The Street Trust
Oregon Environmental Council	AAA Oregon	Westside Economic Alliance	Community Alliance of Tenants
ODOT	WSDOT	2 OTC members (Co-Chairs)	FHWA (ex officio)

Policy considerations for the PAC

- Traffic operations improvements
- Diversion of traffic
- Adequacy of transit service
- Equity impacts
- Impacts on the community, economy, and environment
- Revenue and cost
- Public input
- Consistency with state law/ policy and regional plans
- Feasibility under federal law
- Project delivery schedules



Implementation timeline





Public Outreach



Getting the word out

- News releases
- Media coverage
- Toolkit emailed to stakeholder groups
- Emails to ValuePricing mailing list
- ODOT social media posts (Facebook and Twitter)
- Digital advertising



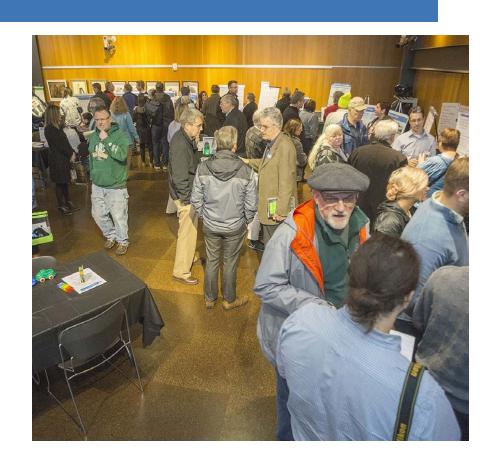


@ClackamasTC between 4:30-7:30PM tonight for a one-on-one conversation



High level of regional input

- 6,722 visitors to online open house
- 3,400 views of overview video on ODOT YouTube site
- 260 people at 3 open houses
- 1,810 completed questionnaires
- 1,400 email/voicemail comments





What we are hearing

Common themes in public comments

- Congestion is a problem and getting worse
- Negative effects of congestion:
 - Time spent in traffic
 - Increased stress, anxiety, and frustration
 - Unpredictable travel time
 - Unsafe driving conditions



What we are hearing

Questions and concerns about pricing implementation

- Impacts on low income communities
- Diversion of traffic onto surface streets & into neighborhoods
- Questions and ideas about how revenue should be used
- Range of perspectives:
 - Must add capacity / Must not add capacity
 - Don't want to pay another fee / Want a more reliable trip



Initial concept evaluation



Round 1 evaluation: Overview

Screening assessment

- Traffic operations
- Capital expenditure
- Physical constraints
- Equity and mitigation

Corridor segmentation





Concept 1: 2027 Baseline

No tolls on any lanes or roadways along I-5 or I-205

- Traffic operations
 - Widespread hypercongestion
 - 10 MPH peak period average speed
- Capital and operating costs
 - -2027 planned investment
- Geometric and physical constraints
 - -2027 planned investment
- Equity and mitigation
 - -2027 planned investment





Freeway value pricing treatments

Freeway Pricing

Priced Roadways

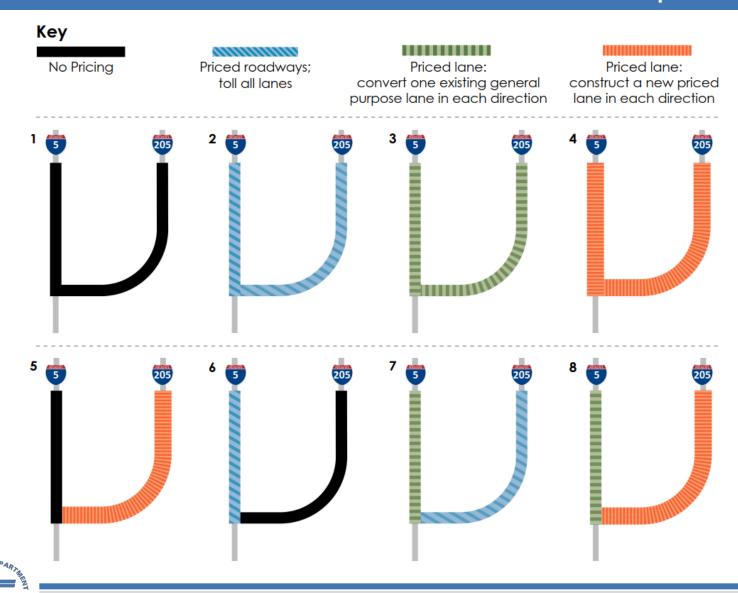


Priced Lanes





Round 1 evaluation: Initial concepts



Key findings from Round 1

Priced Lane - Convert existing lane

- Not operationally feasible in areas with only 2 lanes (e.g., Rose Quarter)
- Freight not typically allowed in left most lane
- Equity trade off: Maintains a "free" lane, but may not share benefits of pricing
- Single tolled lanes tend to generate limited revenue



Key findings from Round 1

Priced Lane - Construct a 4th lane

- Most expensive & impactful due to construction
- Improved traffic operations are largely due to added roadway capacity
- Equity trade off:
 - Maintains unpriced lane;
 - Impacts from construction & added traffic.
- The travel benefits would be limited by downstream bottlenecks
- Limited revenue from single-lane tolls



Key findings from Round 1

Priced Roadway

- Highest level of congestion relief
- Does not preclude freight (as do priced lanes)
- Equity trade-offs
 - No unpriced lane option
 - —Can function with lower price, shared benefits
- Significantly less expensive to implement
- Highest revenue potential



Recommended Round 2 Concepts



Project team recommendation

Round 2 Concepts for further evaluation

Based on:

- —Technical evaluation
- Public and stakeholder outreach
- Professional experience around the country and internationally



Round 2 Concept A: Priced Lane Conversion

Northern I-5 priced lanes

- Convert existing northbound HOV to priced lane
- Convert existing southbound GP to priced lane
- Key rationale
 - Relatively simple FHWA process
 - Significant existing congestion
 - Least expensive Round 2 Concept
- Key topics
 - Current HOV performance/compliance
 - Diversion
 - Federal and NEPA requirements





Round 2 Concept B: Priced Roadway

Toll all lanes on I-5

- Near downtown Portland
 - Multnomah Blvd to Going St
 - Both directions
- Key rationale
 - Few possible solutions without significant investment
 - Provides new revenue source
 - Most severe congestion in Portland metro area
- Key topics
 - Diversion
 - Tradeoffs for equity
 - Federal and NEPA requirements





Round 2 Concept C: Priced Roadway

Toll all lanes on I-5 and I-205

- Key rationale
 - Greatest congestion relief
 - Greatest revenue potential
 - Mitigation strategies
 - Relatively inexpensive
 - Opportunity for part-time operations
- Key topics
 - Diversion
 - Impacts on I-84, I-405 and Boone Bridge (Wilsonville, OR)
 - Equity impacts and mitigations
 - Federal and NEPA requirements





Round 2 Concept D: New Priced Lane

New priced lane on I-205

- In southern Portland metro area
 - Stafford Rd to OR 99E
 - Includes Abernethy Bridge
- Key rationale
 - Removes existing 2 lane bottleneck
 - Provides new revenue source
 - Potential to relieve congestion in southern I-205 corridor
- Key topics
 - Diversion
 - Operational effects on I-5
 - Federal and NEPA requirements





Round 2 Concept E: Price Abernethy Bridge

Toll both directions on Abernethy Bridge

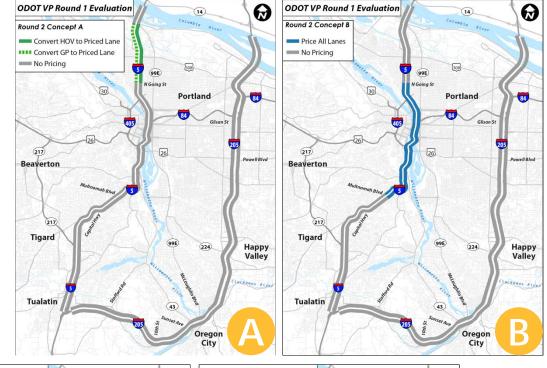
- Single toll location at bridge center
- Key rationale
 - Reduces impact on existing 2 lane bottleneck on bridge
 - New revenue source for seismic upgrades
 - Potential to relieve congestion within bridge vicinity
- Key topics
 - Diversion
 - Revenue potential
 - Operational effects on I-205
 - Federal and NEPA requirements

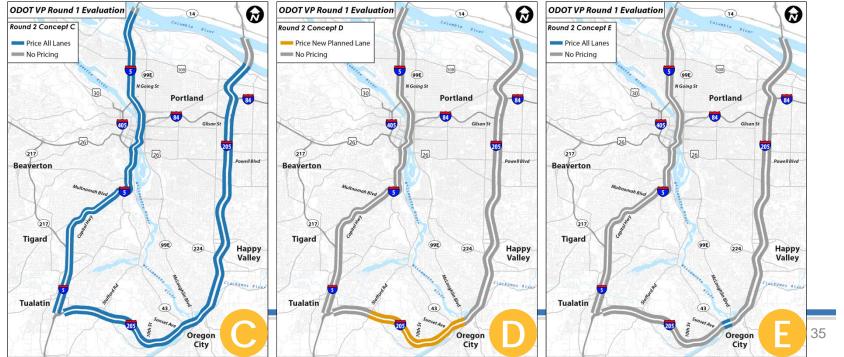




Round 2 Concepts

5 concepts: A through E





Equity considerations



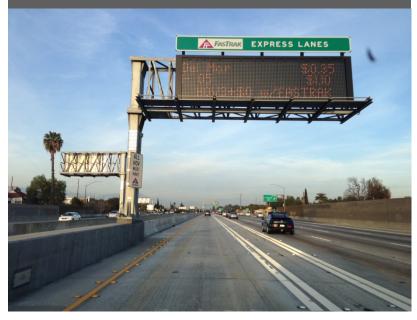
Key equity considerations

- What input do environmental justice communities have?
- How would benefits be distributed?
- What choices will exist and for whom?
- How would impacts be experienced?
- What can be done to better distribute benefits and mitigate impacts?



Actions other states have taken

Incentives and discounts



HOV Toll-Free Use Signage, I-10 Express, Los Angeles, California

- HOV use for free / discounted rates
 - Most express lanes
 - Some toll roads
- Subsidized toll rates
 - Los Angeles Low Income
 Assistance Plan for I-10 / I-110
- Toll credits for use of modal alternatives
 - Atlanta I-85 Express Lanes
 - Los Angeles I-10 / I-110 Express
- Toll credits by location
 - Ft. Worth Chisholm Trail Tollway



Actions other states have taken

Special access programs



License Plate Tolling Signage, North Tarrant Express, Ft Worth, Texas

- Cash accounts for unbanked populations
 - —California
 - —Washington
 - Texas
- License-plate tolling
 - —Colorado
 - —Washington
 - Texas
 - —Florida



Actions other states have taken

Enhanced multi-modal investments

In-line bus station on I-35W Express Lane, Minneapolis, Minnesota

- Provide improved and expanded transit facilities and services to address accessibility
 - —Washington
 - -Minnesota
 - –California



Next Steps



Next steps: Spring engagement

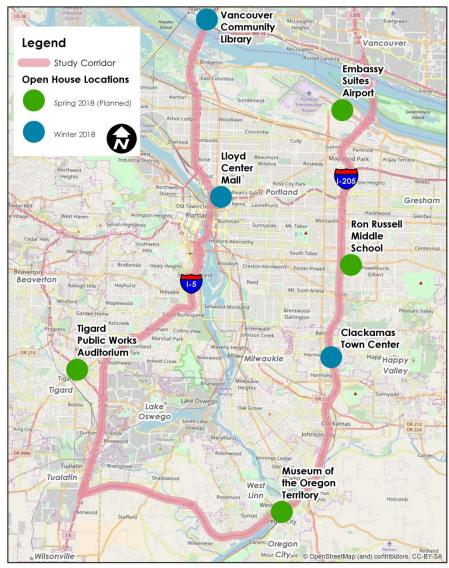
- 6 equity focused discussion groups
- open houses in April (3 inperson and 1 online)
- Updated tool kit for community groups
- Presentations, briefings, website, email/vm





Open house locations across the region

Portland Metro Area Value Pricing Feasibility Analysis Public Engagement Open Houses





Spring Open Houses

Thursday April 12 th 5:30pm to 7:30pm	Museum of Oregon Territory Oregon City
Saturday April 14 th	Ron Russell Middle School
10am to 12pm	Southeast Portland
Wednesday April 18 th 5:30pm to 7:30pm	Public Works Auditorium Tigard
Saturday April 21st	Embassy Suites Airport
9:30am to 12:30pm	Northeast Portland

On-line open house planned for April 5 to 19



PAC Recommendation Process

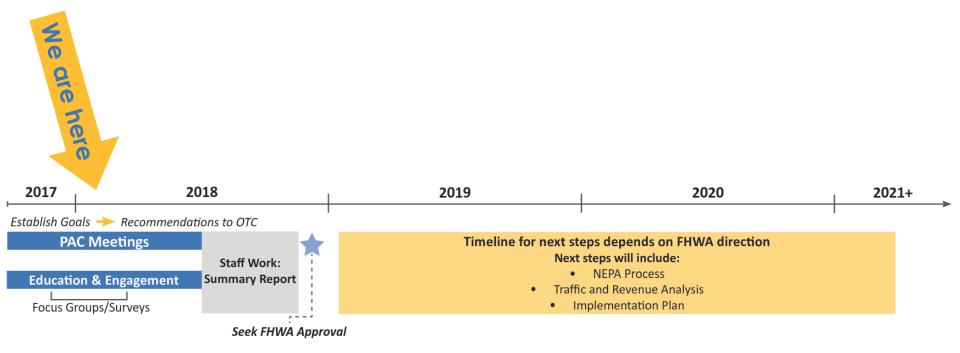
	PAC4 April 11	PAC 5 May 14	PAC 6 June 25
Information/ Discussion	Mitigation approaches / current policies	Round 2 concept analysis findings	Refinement of recommendations
Outcome	Identify mitigation opportunities & approaches	Preferred concept(s)	Final Recommendations - Location - Type - Mitigations

OTC I	mee	eting
Ju	ıly 1	2

Present the PAC recommendation(s) and hear public comment



Implementation timeline





For more information and to sign up for updates

Project web site

www.ODOTvaluepricing.org

Contact us

- valuepricingINFO@odot.state.or.us (project team)
- valuepricingPAC@odot.state.or.us (Advisory Committee)

