Outline

• Past measures

• Updated modeling tools

• Proposed health and equity metrics and future directions
Past Measures
Past Measures

**Figure 7. Benefits and Costs of the Plan**

- **System User, Emissions and Safety Benefits**
- **Facility Capital and Operating Costs**

- **Constrained Plan**
- **Full Plan**

*Annual regional benefit in 2010

**Figure 9. Changes in Total User Benefits per Passenger Trip**

- **Poverty Populations**
- **Minority Populations**
- **Region**

- **Full Plan**
- **Constrained Plan**
Travel Model Improvements
Travel Model Improvements

• Activity-based model means:
  • Person-oriented
  • Can describe travel by:
    • Income
    • Home location
    • Age
  • No longer bound to “areas of concern,” can directly analyze population groups
Equity Metrics

Interactive dashboard tools
Equity Metrics

Avg Commute Time

<table>
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<th>Income Group</th>
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Annual Travel Cost

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<tr>
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<td>$2,538</td>
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<td>Toll</td>
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Equity Metrics

Annual Transport Costs by Income

Percent of Annual Income Spent on Weekday Travel

County:
- (All)
- King
- Kitsap
- Pierce
- Snohomish

Average Yearly Travel Cost:
- No Toll
- Toll
Equity Metrics

Annual Travel Costs by income group
### Health Metrics

#### % of People Taking Walk Trips

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#### % of People Taking Bike Trips

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<td>3.6%</td>
<td>4.1%</td>
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Summary and Discussion

• New model allows more detailed equity and health analysis, such as:
  • Costs and travel time by income and person/household type
  • Share of income spent on transportation
  • Active transportation by person types

• Which of these provide most insight/value?
• What other metrics should we strive towards?
Thank you