Seattle Industrial Areas
Freight Access Project
Summary of Future Conditions

Image Credit: Port of Seattle

Tony Mazzella and Jon Pascal
Freight Advisory Board
June 17, 2014
Presentation overview

• What drives future traffic growth – overview of assumptions

• Changes to the transportation network – assumed improvements

• Forecast traffic volumes along key corridors

• Next steps

• Questions
Regional growth and truck tonnage

Regional Growth Estimates

- Truck Tonnage >400 million
- Population: 5 million
- Jobs: 3.1 million

Forecast

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4 PSRC, Washington State Department of Employment Security
Future travel demands

- Population and employment are expected to grow by more than 25% by 2035
- Future travel demand will grow with population and economic activity
- Vehicle trips will not grow as significantly due to transit expansion and tolling
- Truck activity will grow faster than regional traffic
- Street network will remain much the same except for programmed projects and SDOT changes in managing streets for transit, bicycles, and passenger rail
What drives future traffic growth?

**Vehicle mode**

- **Passenger Vehicles**
- **Non-Port Trucks**
- **Port Trucks**

**Reasons change occurs**

- Population and employment growth
- Changes in land use and modal options
  
  **Sources**
  
  - Alaskan Way Viaduct Tolling Study
  - PSRC Travel Demand Model

- MIC industrial growth
- Changing industry composition
  
  **Source**
  
  Commodity Flow Profile from Freight Analysis Framework (FAF3)

- Trade growth and intermodal shifts
  
  **Source**
  
  Port of Seattle Container Terminal Access Study
Non-port truck trips growth

• MICs will comprise an increasing share of regional goods movement dependent industry activity
  - Construction
  - Natural Resources
  - Manufacturing
  - Wholesale
  - Transportation
  - Utilities
  - Retail
  - Food Services

• Output and demand from goods movement dependent industries is growing faster than employment – productivity gains

• As a result, non-port truck trips will grow faster than overall regional traffic
Goods movement dependent industry growth

Non-port truck trips growth by commodity type

**Source:** Regional Forecasts from FHWA's FAF3 National Model and Cambridge Systematics Assumptions on Average Truck Payload Factors by Commodity.
Port truck trips growth

- Consistent with the Port of Seattle Growth Goal of 3.5 million TEUs/Year

Transportation network changes

- Improvements to the transportation system will change routing patterns
  - New projects
  - Tolling

- Shifting routes of auto trips and changes in congestion will impact truck routing
  - Relative pattern of truck route shifts obtained from PSRC model
Assumed improvements

- Transportation projects identified in previous planning studies
- Major projects include:
  - Alaskan Way Viaduct Replacement
  - Mercer Street Improvements
  - Seattle Waterfront / Alaskan Way
  - Lander Street Grade Separation
Forecasting methodology

- Passenger Vehicles
- Non-Port Trucks
- Port Trucks

2035 Forecast Volumes
Truck volumes – reading the maps

Example Map

Average Daily Traffic Volume (ADT)

Average Daily Truck Volume

Color represents percent of trucks in the traffic stream

- Green: < 5%
- Yellow: 5 - 10%
- Red: > 10%
Truck volumes – north

**Existing**

- Existing AQT Volume
- Existing Truck Volume & Truck Percentage:
  - < 5%
  - 5 - 10%
  - > 10%

- Example: 59,700 (green), 2,390 (orange)

**Forecast**

- Forecasted AQT Volume
- Forecasted Truck Volume & Truck Percentage:
  - < 5%
  - 5 - 10%
  - > 10%

- Example: 64,000 (green), 3,950 (orange)

**PRELIMINARY**
Truck volumes – central

Existing ADT Volumes

Existing Truck Volume & Truck Percentage
- 0 - 5%
- 5 - 10%
- > 10%

Forecast ADT Volumes

Forecasted Truck Volume & Truck Percentage
- 0 - 5%
- 5 - 10%
- > 10%

PRELIMINARY
Truck volumes – south

Existing ADT Volumes
- < 10,000
- 10,000 - 25,000
- 25,000 - 50,000
- > 50,000

Existing Truck Volume & Truck Percentage
- 0 - 5%
- 5 - 10%
- > 10%

Forecasted ADT Volumes
- < 25,000
- 25,000 - 50,000
- 50,000 - 75,000
- > 75,000

Forecasted Truck Volume & Truck Percentage
- 0 - 5%
- 5 - 10%
- > 10%
## Next steps

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<th>Activity</th>
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<td>Future Conditions and Needs Identification</td>
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<td>September</td>
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Questions?

tony.mazzella@seattle.gov | (206) 684-0811
www.seattle.gov/transportation/freight_industrialareas.htm

http://www.seattle.gov/transportation