### Seattle Industrial Areas Freight Access Project Summary of Future Conditions



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Seattle Department of Transportation

## **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



<sup>&</sup>lt;sup>4</sup> 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 Port of Seattle Container Terminal Access Study Source

# 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



Source: Port of Seattle Container Terminal Access Study, 2014.

# 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



Major Projects



### Truck volumes – reading the maps



## Truck volumes – north

PRELIMINARY







## Truck volumes – south

PRELIMINARY





Forecast

# Next steps

| July                  | Future Conditions and Needs<br>Identification            |
|-----------------------|--|
| September             | Improvement Project Identification<br>and Prioritization |
| October /<br>November | Preparation of Draft Plan                                |

# Questions?

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