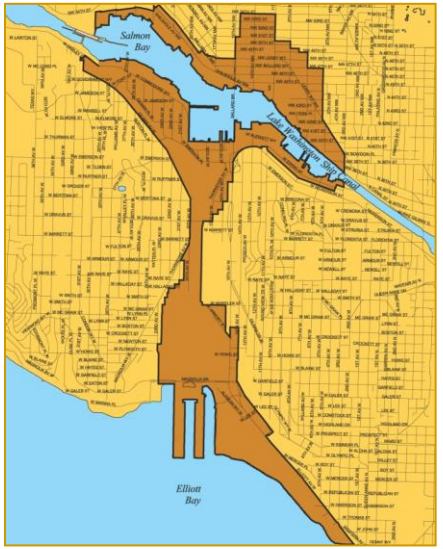
Industrial Areas Freight Access Project (FAP)

Freight Advisory Board
January 21, 2014

Key Outcomes from Last Meeting

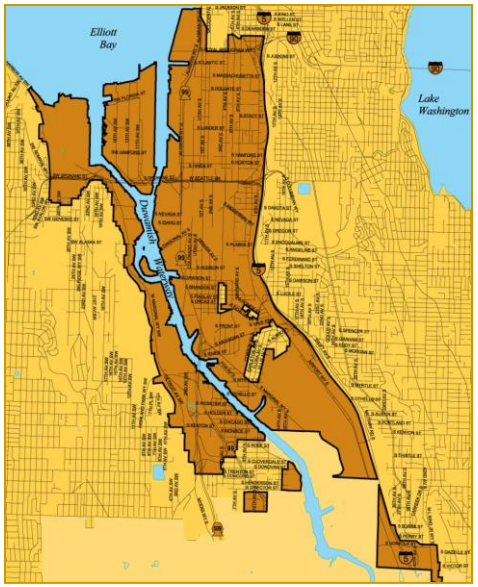
- Identified Challenges/Solutions
  - Street Paving/Construction
  - Traffic Signals
  - Obstructions/Clearances
  - Traffic Operations/Congestion
  - Other Issues
- Stakeholder Outreach
  - Businesses in the MICs
  - Shippers/Carriers
  - Others

PERFORMANCE MEASURES



Purpose in Context of the FAP

- Evaluate System Conditions
- Prioritize Projects
- Communicate Results



Items we have Considered

- WSDOT Freight Plan
- MAP-21 Performance Guidance
- Best Practices
- Data Availability / Resources

PERFORMANCE MEASURES

Key Categories

1. System Demand
2. System Efficiency
3. System Reliability
4. Mobility Barriers
5. Safety and Condition

**Performance is based upon a combination of several measures*

1. SYSTEM DEMAND

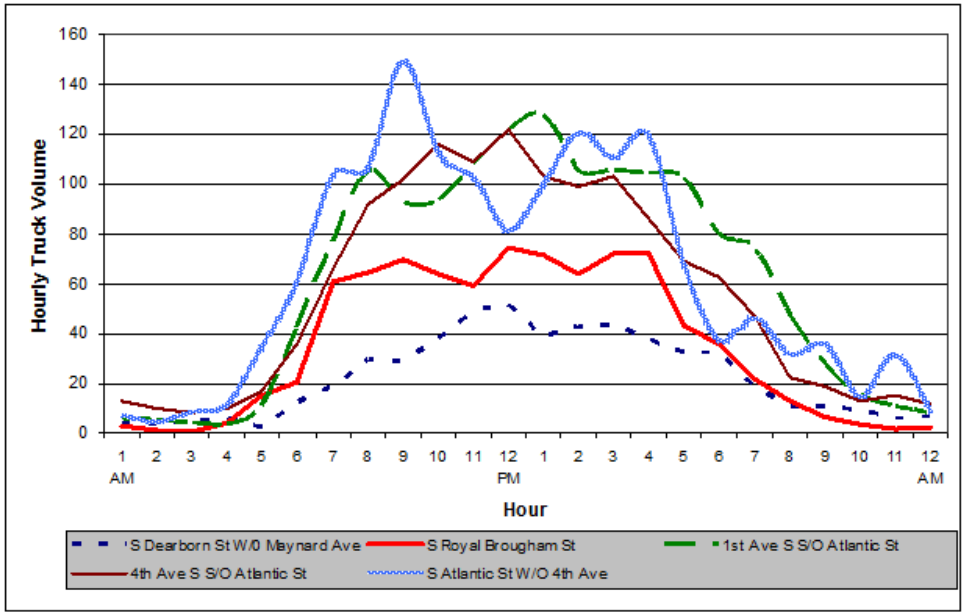
What it Measures

Scale of freight activity along a corridor

Possible Metrics

- Total Traffic Volumes
- Truck Volumes
- Tonnage

  per Corridor



2. SYSTEM EFFICIENCY

What it Measures

Travel times / delays along a network for a defined period

State Route/ Interstate	Route Description	Distance (miles)	Average Travel Time	Current Travel Time	Via HOV (min.)
405	Alderwood to Southcenter	29.40	29	29	N/A
5	Alderwood to Southcenter	27.97	29	28	N/A
5	Arlington to Everett	13.32	13	13	N/A
167	Auburn to Renton	9.76	10	10	10
405	Bellevue to Bothell	9.61	10	10	10
405 5	Bellevue to Everett	26.04	26	26	27

Possible Metrics

- Total Delay by Corridor during Peak Periods*
- Annual Hours of Truck Delay by Corridor

* Prioritized for freight activity

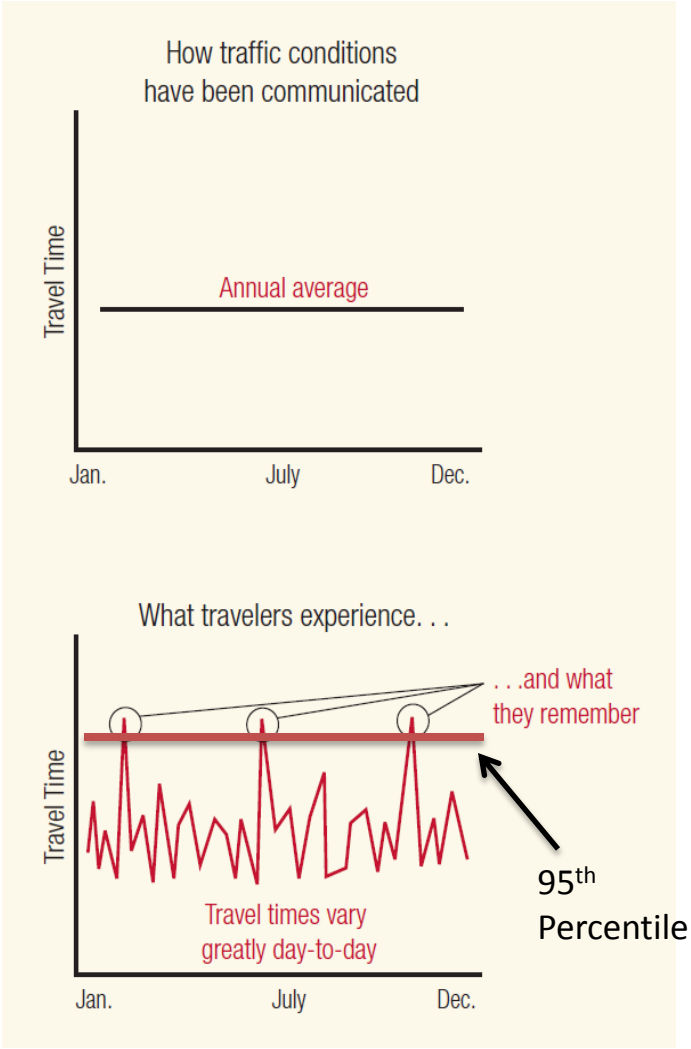
3. SYSTEM RELIABILITY

What it Measures

Variability of travel time or delay

Possible Metrics

- 80th Percentile Travel Time by Corridor
- Buffer Index (95th Percentile) per MIC



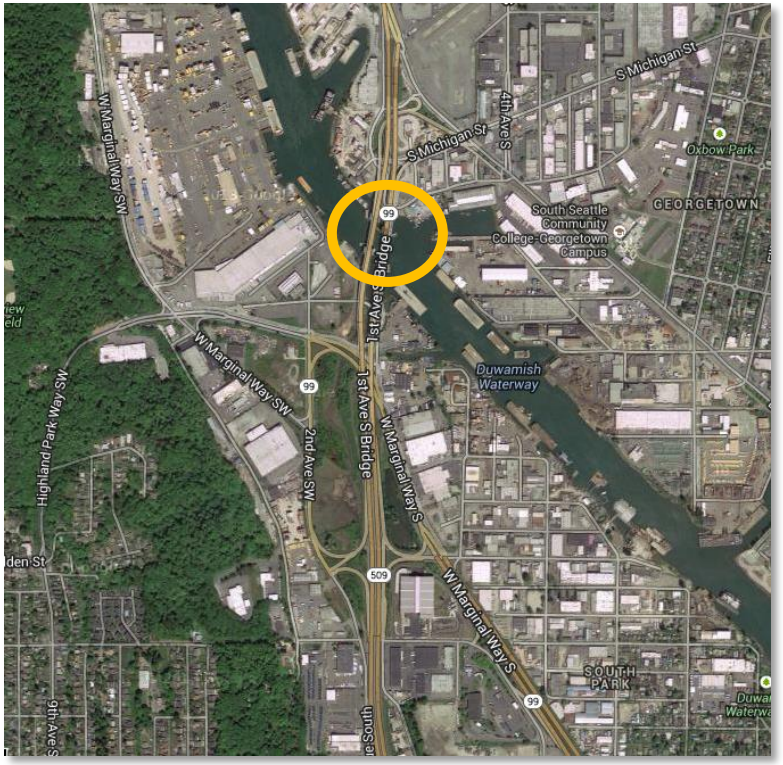
4. MOBILITY BARRIERS

What it Measures

Bottleneck locations or route constraints

Possible Metrics

- Bottlenecks per Corridor
- At-grade Crossings



5. SAFETY AND CONDITION

What it Measures

Collisions and roadway conditions

Possible Metrics

- Freight Collision Rates
- Pavement Conditions
- Potential Modal Conflicts

Questions to Consider

- Do these measures capture how we should be evaluating the health of the transportation system for freight?
- Are these measures relevant to routing decisions?
- What are we missing?