CITY OF SEATAC

Transportation Element Update & Transportation Master Plan

Presented by

transpogroup 7

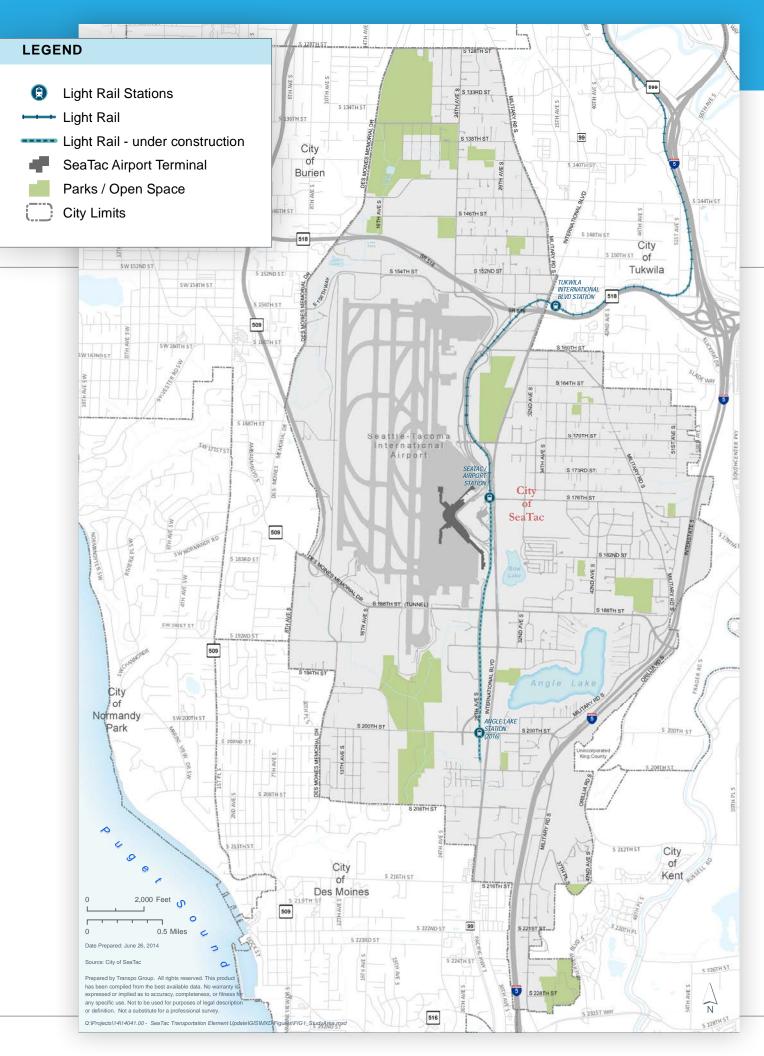
Planning Commission August 5, 2014





Agenda

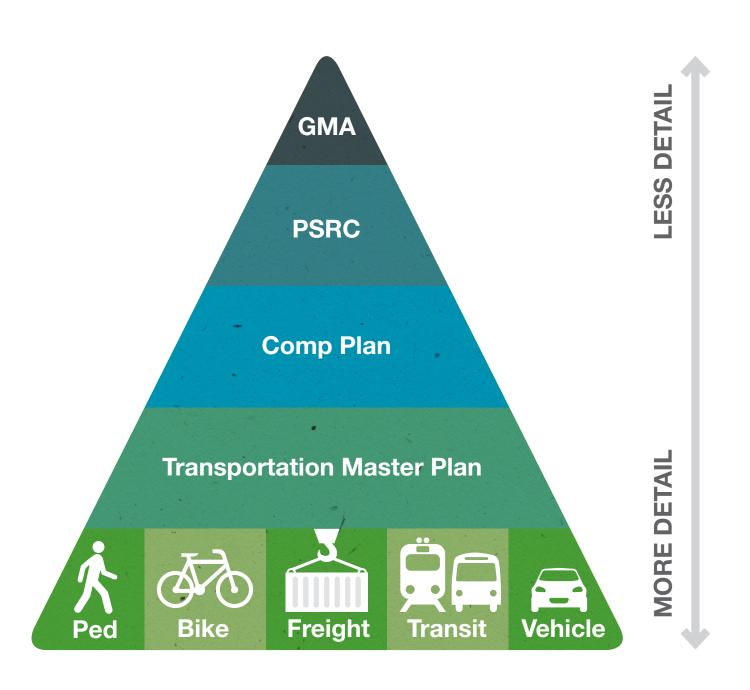
- > Initiate Discussion on Update of Transportation Element (TE) and preparation of Transportation Master Plan (TMP)
- > Review Existing Transportation Conditions
 - Transportation system
 - Traffic volumes and operations issues
 - Transportation safety concerns
 - Integration with Draft Safe and Complete Streets Plan
- > Introduce conversation on transportation policies





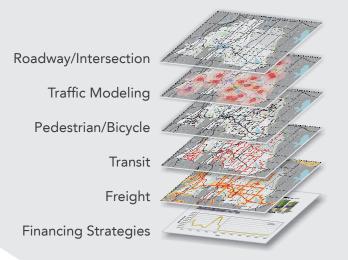
Transportation Element and Transportation Master Plan Objectives

- > Support overall Comprehensive Plan and City vision
- > Meet requirements of the Growth Management Act (GMA) and Vision 2040
- > Reflect Neighbors' planning
- > Integrate and prioritize transportation improvements serving all modes
- > Review and update transportation policies
- Revisit level of service standards/concurrency programwhat is acceptable for transportation?
- > Update transportation funding analyses and strategies





Primary Work Program Tasks





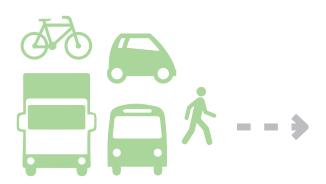
Agency coordination and public outreach Evaluate existing transportation systems conditions and issues

- > Traffic operations
- > Safety
- > All travel modes
- > Economic development



Prepare travel forecasts and evaluate options

- > Integration of transportation and land use planning
- > Coordinated travel demand model with Port of Seattle
- > Evaluate alternatives for SR 509 phasing



Define multimodal improvement projects

- > Complete Streets framework
- > Potential trade-offs
- > Costs
- > Project priorities





- > Consistency with Vision 2040 / GMA requirements
- > Transportation funding and impact fees
- > Level of service standards and concurrency



Documentation and Environmental Review

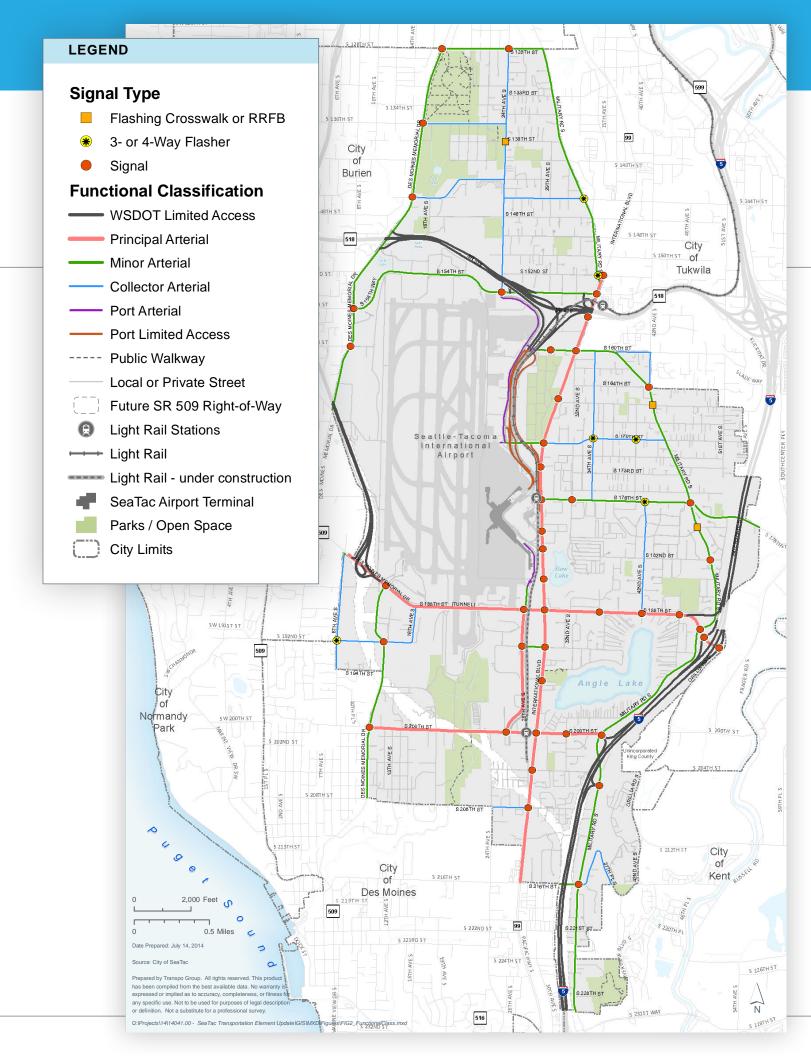






Existing Transportation System

- > Well connected to regional freeway system
- > Primary north-south travel on three arterials
- > East-west travel corridors restricted by Airport and topography
- > Freight routes

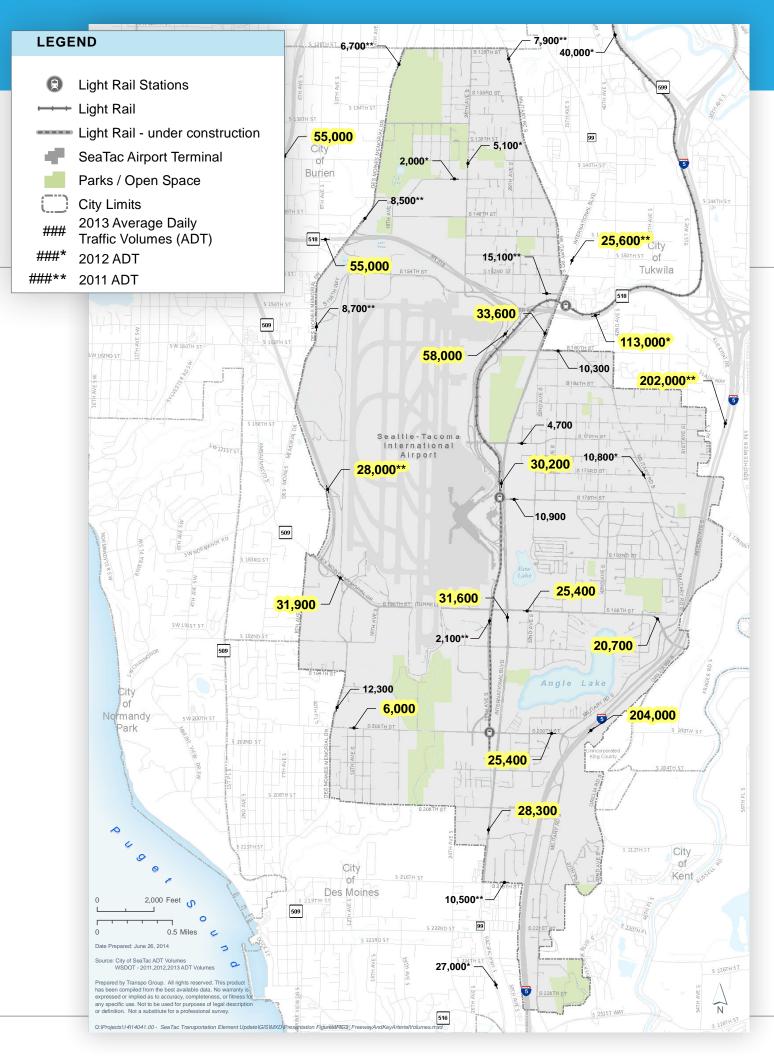




Traffic Volumes

- > Freeways carry most of traffic, but much of it is through travel
 - I-5 carries over 200,000 vehicles per day
 - SR 518: 110,000 vehicles east of Airport and 55,000 to the west
 - North Airport Expressway: 58,000 vehicles on a weekday
 - SR 509: about 30,000 vehicles per day at south end of freeway segment
- > International Blvd carries 25,000 to 35,000 vehicles per day in SeaTac
- > S 188th Street: 20,000 to over 30,000 vehicles a day
- > S 200th Street: 25,000 vehicle a day near I-5



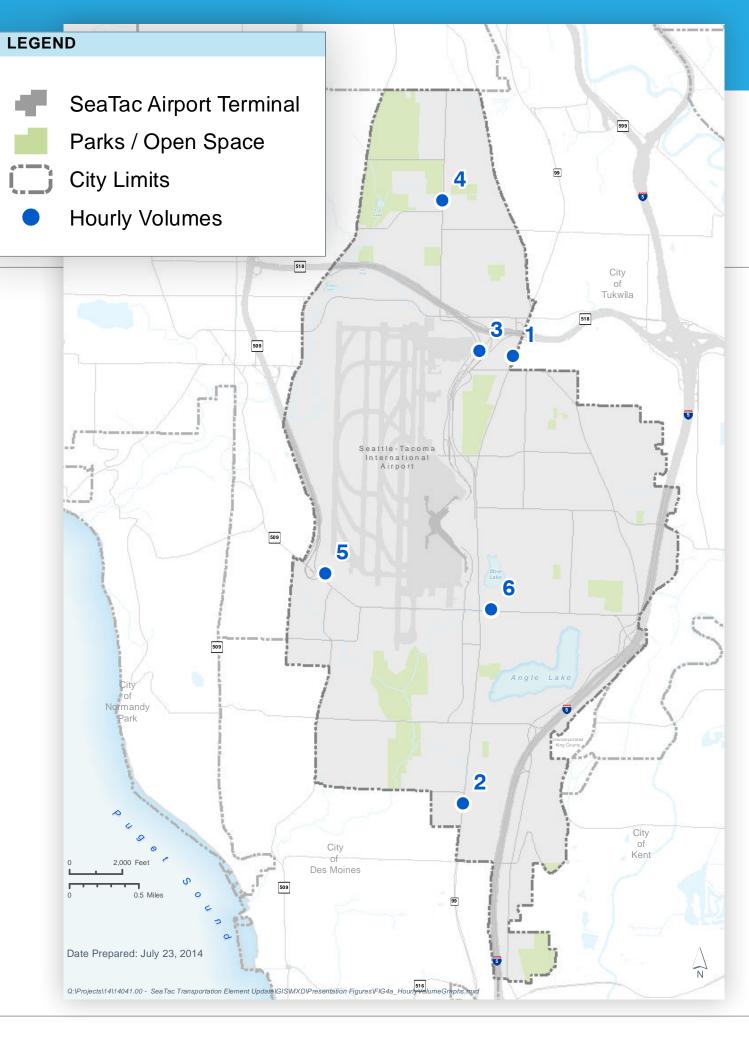




Traffic Volumes

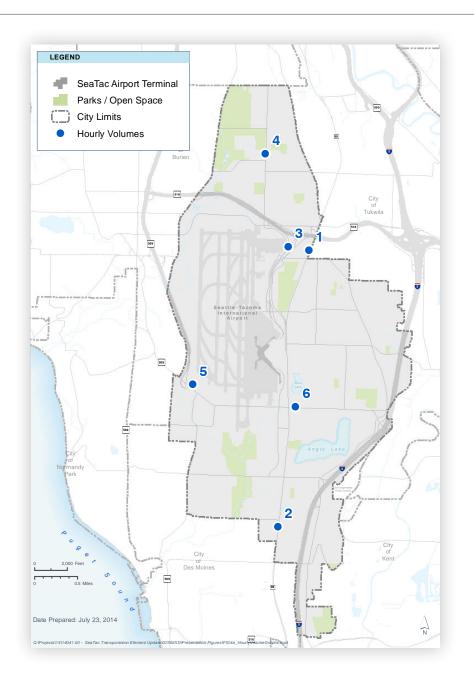
- > Traffic volumes have not changed much over past 4 to 6 years; some locations have decreased
- > Traffic patterns peak differently than typical suburban areas
 - Airport has high volume in middle of day and at night
 - International Blvd has smaller commute peaks due to mid-day Airport and business traffic
 - Other arterials such as 24th Avenue S and S 160th Street have lower volumes; consistent volumes during the day

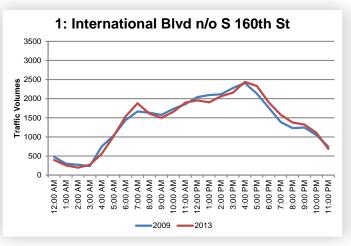
 no strong commute peaks

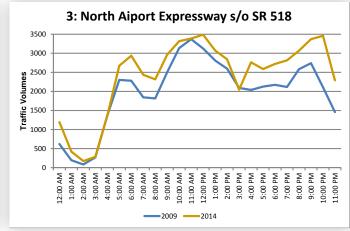


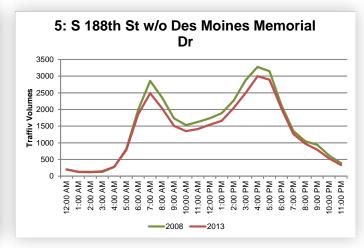


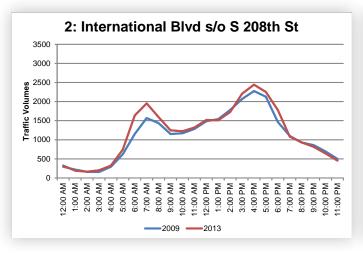
Hourly Volume Graphs

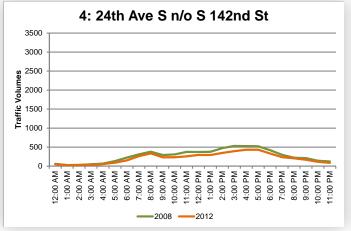


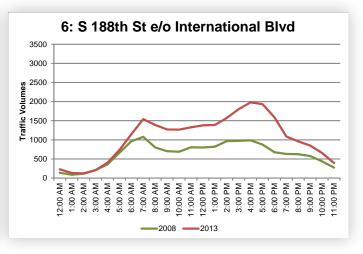










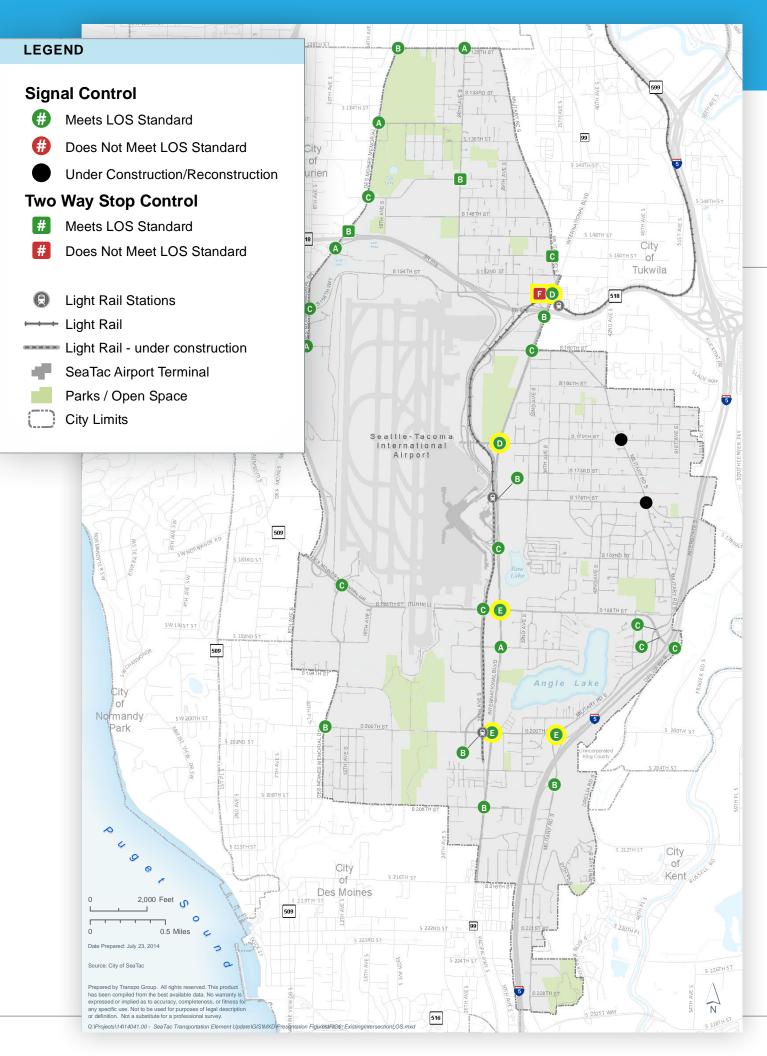






Traffic Operations

- > Traffic at most major intersections is controlled by traffic signals
- > Most intersections in City operate with moderate delays during PM peak commute period
- > Highest levels of congestion are:
 - Along International Blvd
 - At freeway interchanges
 - Only SR 518 Westbound off-ramp (leftturns) to S 154th Street operates below adopted level of service standards
- > Traffic queues affect the calculated delays, such as 28th Avenue S/S 188th Street

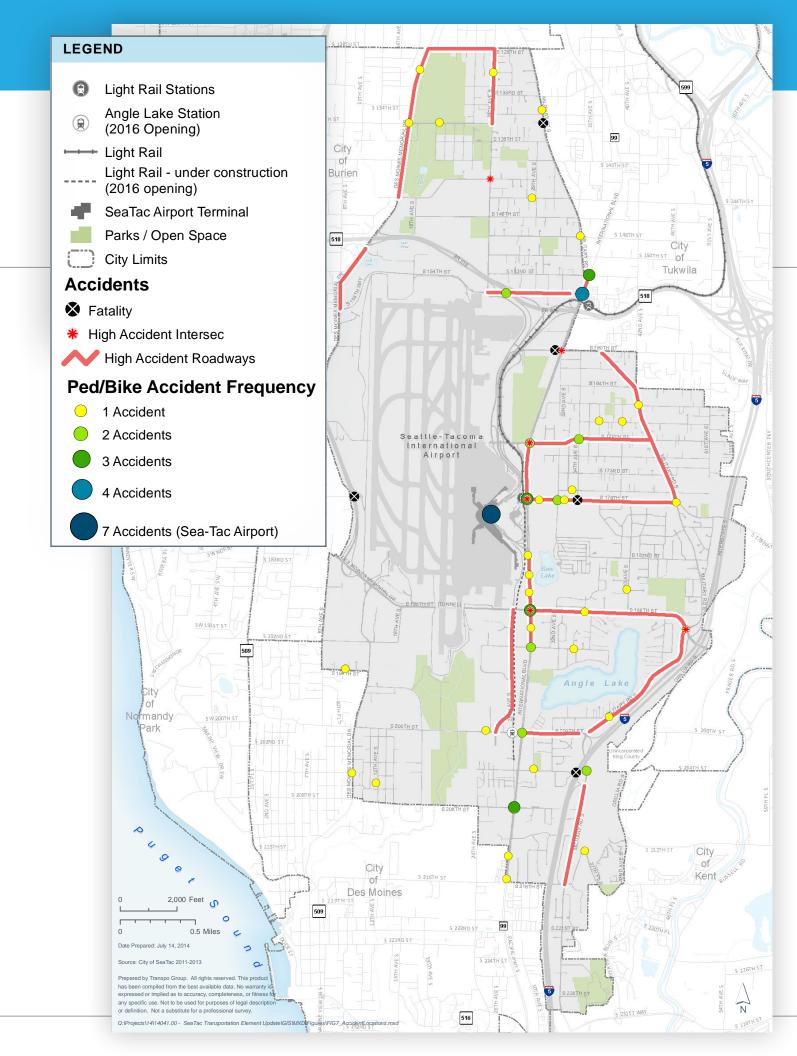




Transportation Safety

- > Over 1,960 recorded collisions over three year period (2011-2013)
- > Two-thirds of collisions are at or are related to intersections
- > Five fatality collisions
 - One on I-5 (pedestrian involved)
 - Three driving under the influence (D.U.I.)
 - > 34th Avenue S/S 176th Street
 - > Military Road south of S 135th Street
 - > Temporary SR 509 Construction Ramp
 - S 160th Street west of International Blvd
- > 196 collisions with injuries; 424 additional recorded with possible injuries
- > 68 collisions involved pedestrians or bicyclists 26 of these along International Blvd
- > Most common types of collisions:
 - Rear end (31 percent)
 - Angle collisions (20 percent)
 - Turn collisions (12 percent)
 - Sideswipes (12 percent)
- > These types of collisions are typical in suburban/urban areas due to congestion, lane changes, property access

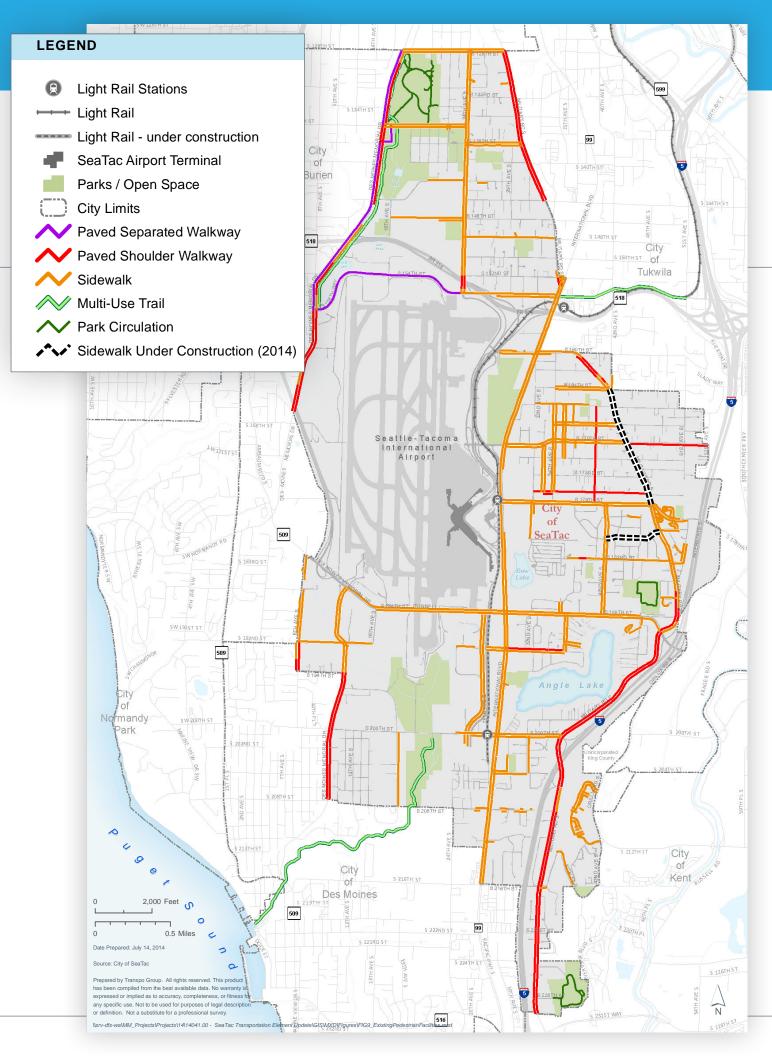






Existing Transportation System Conditions – Pedestrian Facilities

- > Build from Draft Safe and Complete Streets Plan (2012)
- > Sidewalks are present along most major roadway corridors
- > Paved shoulders exist along north-south arterials such as Des Moines Memorial Drive, Military Road – which can reduce use or increase safety issues
- > Multi-use trails and park paths also provide pedestrian connectivity
- > Missing or deficient pedestrian connections:
 - Lack of sidewalks along higher volume/higher speed corridors
 - Connections for pedestrians to schools
 - Within neighborhoods and along non-arterials

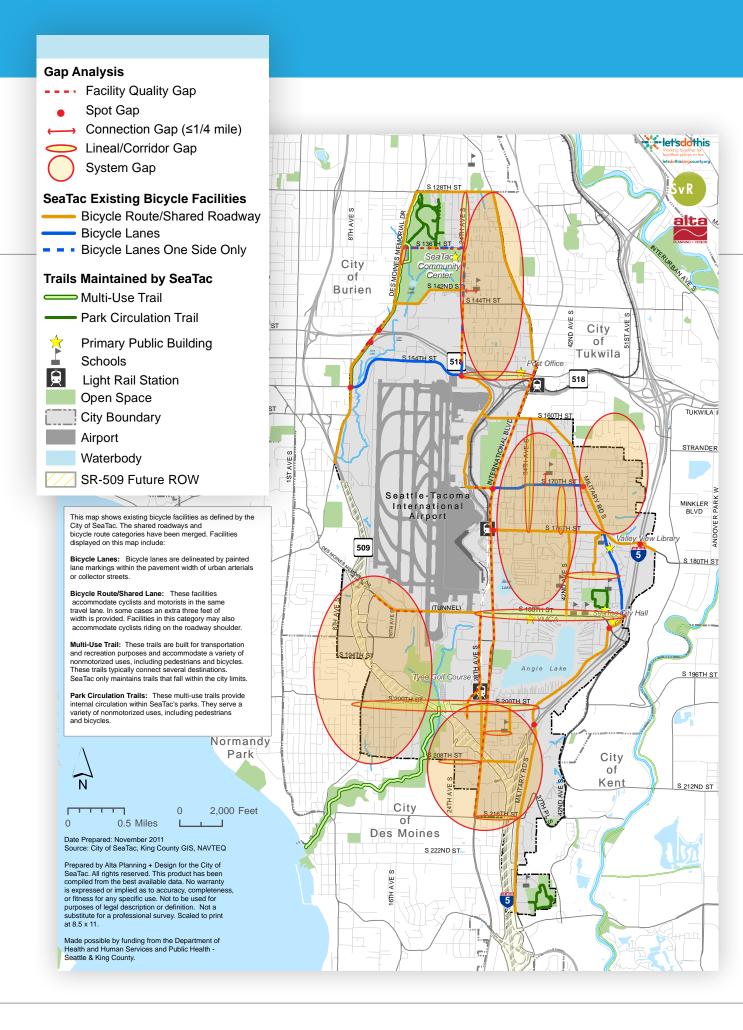




Existing Transportation System Conditions – Bicycle Facilities

- Build from Draft Safe and Complete Streets Plan (2012)
- > Limited bicycle lanes
- > Bicycle routes using shared lanes with traffic, examples:
 - International Blvd
 - S 188th Street
 - Military Road
 - S 176th Street
- > Shared bicycle facilities on higher volume/higher speed arterials
- > Limited connections to regional facilities
- > Conflicts with pedestrian use along shoulders and on-street parking
- > Missing segments







Existing Transportation System Conditions –Transit



Link Light Rail and RapidRide provide solid framework for transit service in SeaTac

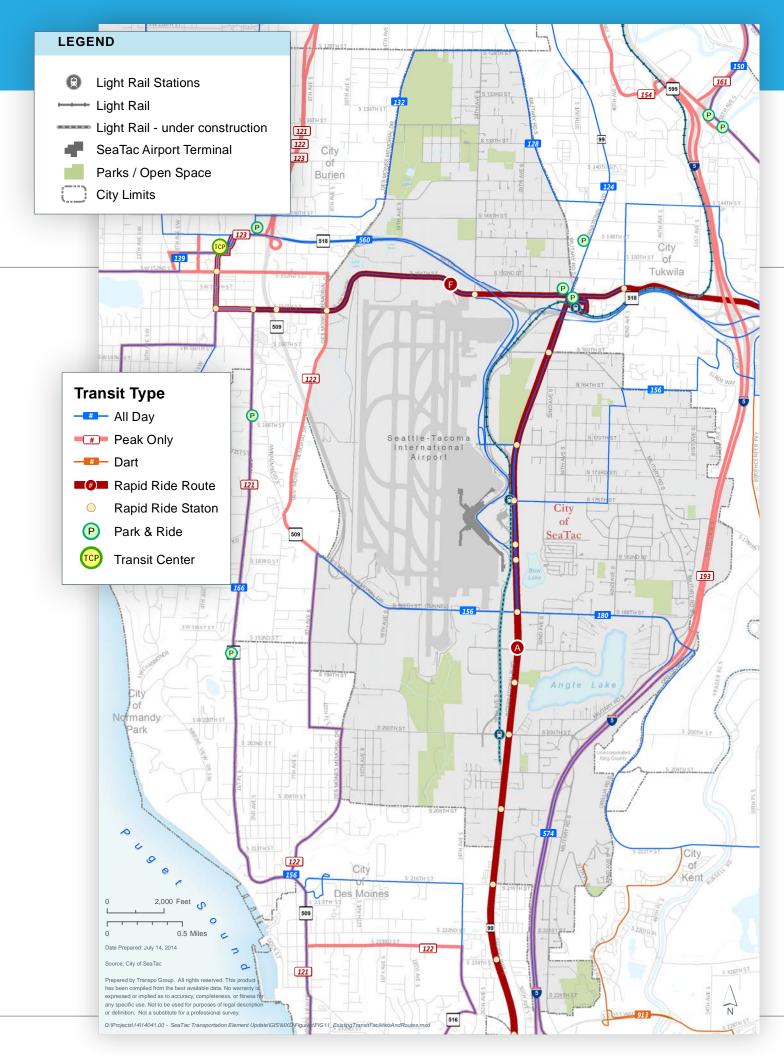


Supported with other peak period express bus service



Three Park-and-Ride lots serving greater SeaTac area

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Transportation Policy Introduction

VISION 2040 & GMA

INTEGRATION OF PEDESTRIAN AND BICYCLE FACILITY IMPROVEMENTS WITH TRAFFIC NEEDS

LEVEL OF
SERVICE
STANDARDS &
CONCURRENCY

TRANSPORTATION FUNDING STRATEGIES & IMPACT FEES





Next Steps



Travel demand model being updated

Forecasts and alternatives evaluation

Multimodal improvements and priorities

Policy updates

Meet with Planning Commission and City Council in November

Public outreach as part of the Comprehensive Plan update process

