

Rainier Avenue South Road Safety Corridor

Seattle Bicycle Advisory Board Project Manager Jim Curtin December 3, 2014



SDOT's mission & vision

Mission: delivering a first-rate transportation system for Seattle.



Vision: a vibrant Seattle with connected people, places, and products.

SDOT's values



Presentation overview

- Project background
- Project area
- Existing conditions
- Data
- General Q & A
- Feedback session



Background

Project Inception

- Safety improvements requested by local community
- Data indicates significant speed and collision issues along the Rainier corridor



Background

Project Goals

- Reduce speeds
- Provide new and enhance existing pedestrian crossings
- Maintain efficient transit service
- Improve intersection safety
- Reduce injuries



Background

Strategies

- Data-driven education, enforcement, and engineering efforts
- Short and long-term engineering solutions
- Public input

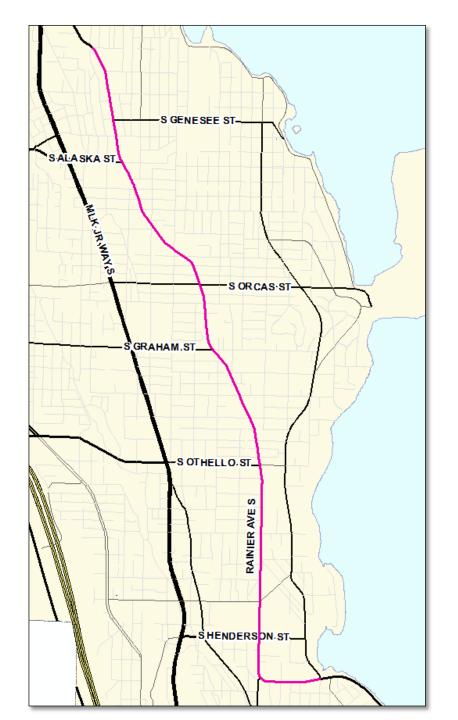
Implementation

- Spring 2015 and beyond



Project area

Rainier Avenue S
between
Letitia Avenue S
and
Seward Park Avenue S



Current street design

Rainier Avenue South

- Principal arterial
- 4 to 5 lanes
- 50-52 feet wide
- Curves and skewed intersections



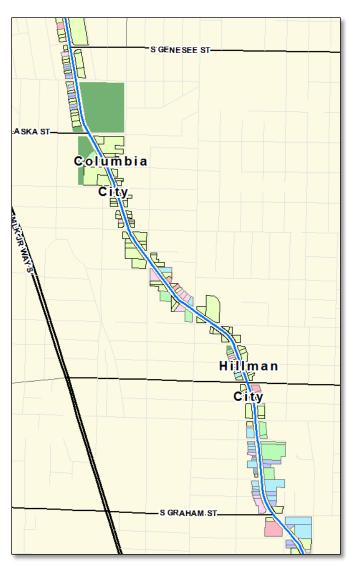
What's along the corridor

People

 More than 70,000 live in zip codes 98118 and 98144

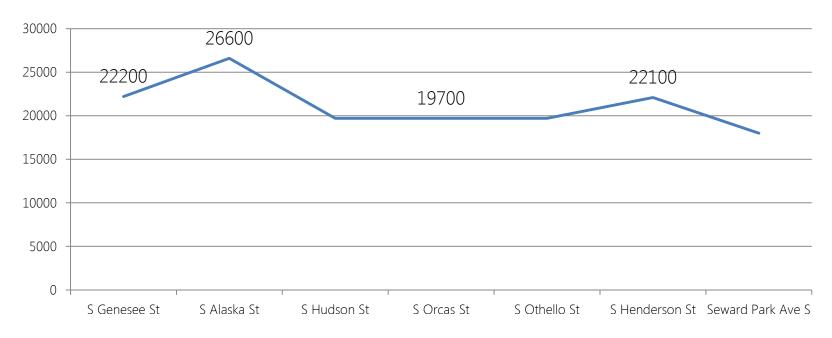
Land uses

- 431 parcels
 - 45% Commercial/Mixed Use (195)
 - 30% Single/Multi-Family (128)
 - 16% Vacant (70)
- 18 major institutions
- 10+ schools and daycare centers within three blocks
- 10 industrial uses
- 5 parks
- Senior housing and community centers
- 2 libraries



Traffic data

- 19,700 to 26,600 vehicles per weekday
- More than 11,000 daily transit trips, transit service every 10 minutes
- High levels of pedestrian activity
 - 100 crossings per day Rainier and Henderson
- Primary emergency response route
- Commercial vehicle route

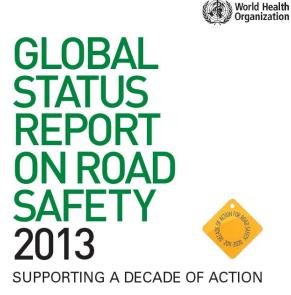


Average Weekday Traffic Volume

Collisions: World Health Issue

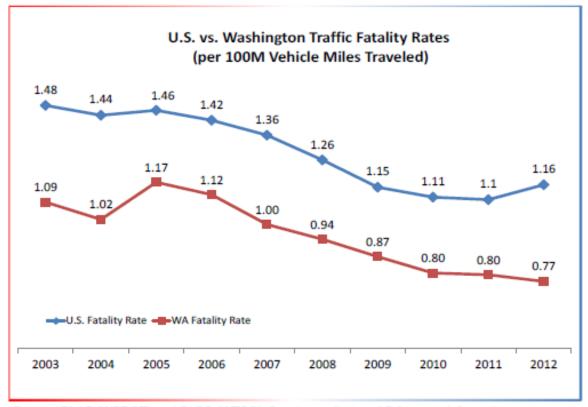
- 1.24 million per year worldwide road traffic deaths
- 35,200 traffic deaths in United States
- 3.8 million crash injuries





2013 WA Annual Collision Summary

- 5,359,469 licensed drivers, 6,003,141 vehicles
- 440,773 speeding citations
- 39,389 cell/texting citations, 31,724 DUI
- 440 deaths in Washington, 76 in King County



Working toward zero traffic deaths

*includes collisions from the freeways **2011 fatalities through 9/26/2011

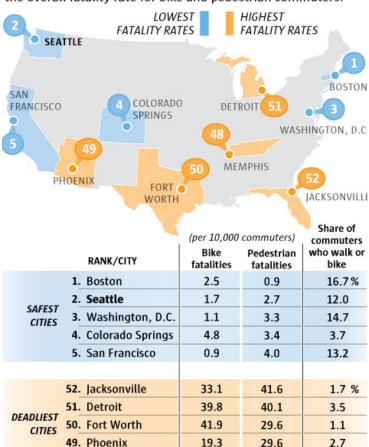
Seattle frequently recognized as safe city but there's room for improvement

- 10,000+ collisions annually
- 350+ pedestrian crashes annually
- 400+ bicycle collisions annually
- Around 20 deaths per year

Traffic Fatalities in Seattle 1986 - 2011

Safest, deadliest cities for walking and biking

Cities where many people walk or bike to work are among the safest. Seattle ranks second, based on a formula to determine the overall fatality rate for bike and pedestrian commuters.



Source: Benchmarking Report, Alliance for Biking & Walking, 2014

48. Memphis

GARLAND POTTS / THE SEATTLE TIMES

29.1

2.1

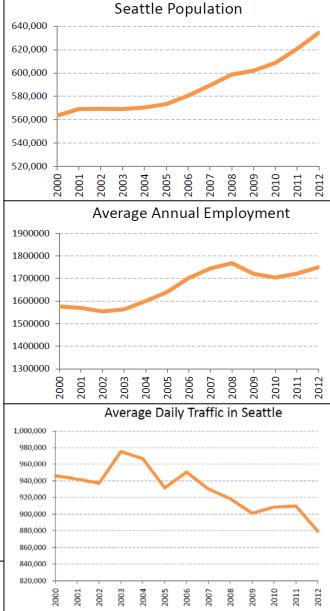
36.0

Seattle is growing. A lot.

Seattle tops list of fast-growing cities

Seattle had the fastest rate of growth among the 50 most-populous U.S. cities from 2012 to 2013.





Collision data

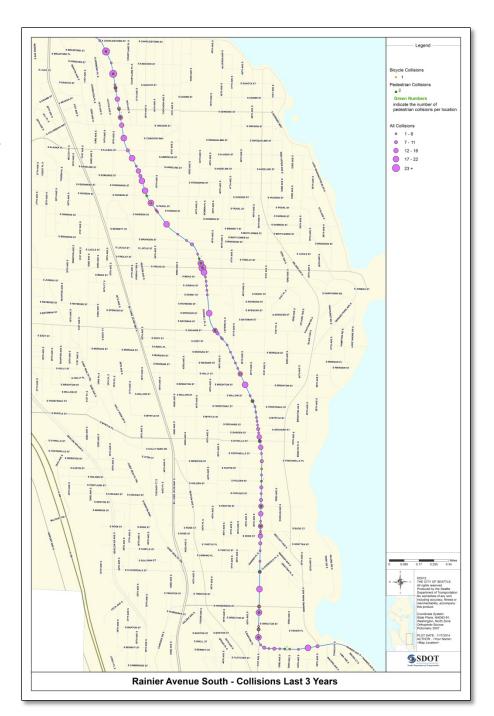
Average of 1 crash/day on Rainier

Last 3 years

- 1243 total collisions
- 630 injuries
- 2 fatalities

Last 10 years

- Nearly 3600 total collisions
- 1700+ injuries
- 11 fatalities



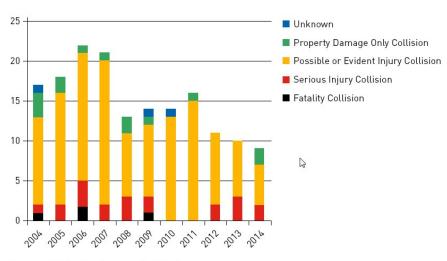
Collision data

Pedestrian and bicycle collisions Last 3 years

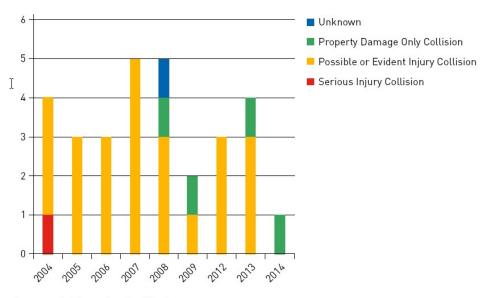
- 46 pedestrian-vehicle
- 10 bicycle-vehicle

Pedestrian and bicycle collisions Last 10 years

- 165 pedestrian-vehicle
- 30 bicycle-vehicle



Annual Pedestrian Collisions



Annual Bicycle Collisions

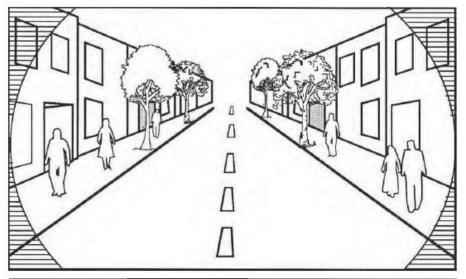
Recent speed studies

Posted speed limit 30 miles per hour

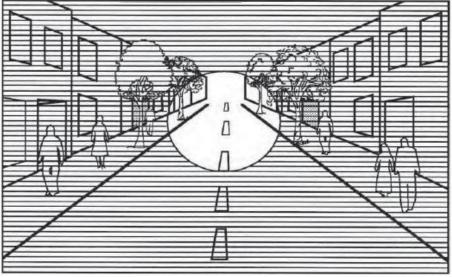
Location	85th Percentile Speed	Percent Speeding (3+ mph over the speed limit)	Average number of high-end speeders per weekday
S Hudson Street	35 mph	20%	611/day
42nd Avenue South	38 mph	55%	1812/day
S Holly Street	37 mph	56%	1083/day
S Cloverdale Street	36 mph	38%	1083/day

High-end speeders = 10+ miles per hour over the speed limit

Why speed matters



Drivers' Field of Vision 15 mph



Drivers' Field of Vision 30 mph

Why speed matters

HIT BY A VEHICLE TRAVELING AT: MPH Only 1 out of 10 pedestrians survives

Behavioral issues and enforcement

Contributing causes

- Distraction
- Speeding
- Impairment
- Failure to yield

Enforcement

- Targeted patrols
- Photo enforcement



Bicycling along and across Rainier

BMP

No facilities recommended

Rainier Safety Project

- Low cost, big safety impact
- No funding for PBL at this time

Bicycle Community

- Rainier an attractive route
- Strong desire for protected bike lanes



Next steps

December through January	Outreach and conceptual designs
February 2015	Design Alternatives Review Meetings
March/April 2015	Final determination and outreach meeting
Spring 2015	Implementation begins