WALK. ROLL. CONNECT.

Getting you where you want to go







We're All Traffic: Active Transportation in TSMO

TSMO and MOD Integration Peer Exchange Feb. 19, 2021

"Small but mighty": ATD=3.0 FTE

- <u>Active Transportation Plan</u>: Level of Traffic Stress analysis/findings, policy discussion, action/implementation plan
- Pedestrian Safety Action Plan: FHWA EDC-4, Safe Transportation for Every Pedestrian. bit.ly/WSDOT-STEP-2018-Plan
- Speed Management for Injury Minimization: Multi-agency, multidisciplinary work group developing policy framework jurisdictions can adapt and adopt
- SRTS and Ped/Bike Program grants: 2021-23 report now with legislature to decide \$\$
- <u>Bicyclist/pedestrian data</u>: Short-duration counts; permanent counters; researching methodologies including crowdsourced
- **Research:** Most recent: FHWA-funded report on multimodal network connectivity, methodologies for siting highway crossings for pedestrian route directness and safety
- Internal: Input on Design Manual and Traffic Manual updates; MAP21 safety performance measures; Traffic System Management/Operations (TSMO); Highway System Plan coordination; ADA coordination; asset management; convened "invisible teams" across regions/divisions to share information, build understanding and capacity
- External: <u>Cooper Jones Active Transportation Safety Council</u>; <u>AASHTO Council on Active Transportation</u>, Nonmotorized Design Technical Subcommittee; APBP Diversity, Equity and Inclusion Task Force; lots of presentations; more

TSMO and Active Transportation

- The Active Transportation Plan (ATP) serves as a statewide needs assessment required under state law (<u>RCW 47.06.100</u>) to address:
 - statewide strategy
 - integration of bicycle and pedestrian pathways with other road users
 - coordination with local and regional government
 - the role of such facilities in reducing traffic congestion

TSMO goal: Maximize the safety and efficiency of existing <u>and</u> planned infrastructure and systems (for whom?)

- Regards existing capacity as an asset that needs to be managed and preserved
- Maximizes safety performance of existing system
- Utilizes strategies that are multimodal, intermodal and crossjurisdictional
- Focuses on reliability
- Implements quickly at relatively low cost
- Aims to defer roadway expanding projects

Chicken and Egg



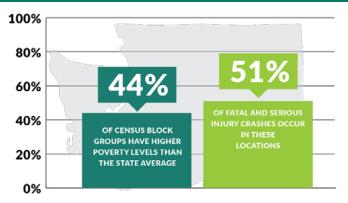
- We didn't count cars, then build roads.
- We said, "People need to get places. Let's make that easier, safer, more convenient."
- We did GREAT at that.
- For drivers....
- So great that now we have to talk about TSMO to deal with the "success".
- Let's unleash the power of induced demand for walking, bicycling and transit the way we did for driving.

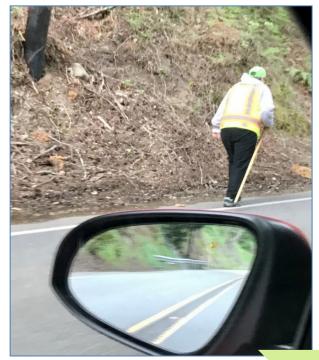
Equity: The data

- History: Effects of transportation and land use decisions
 - Very clear patterns in data
 - Redlining and roads:
 Disparities in walk/bike infrastructure, road design, highway locations, exposure to pollution

Demographics

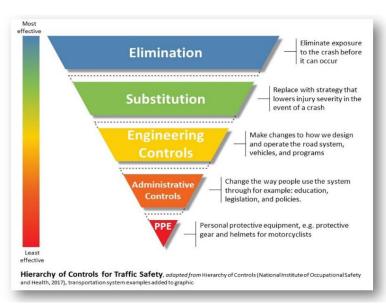
- ~25% of Washingtonians don't drive
- More fatal/serious crashes in census tracts w/higher levels of poverty and Black, Indigenous, people of color

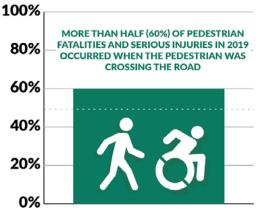


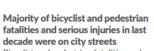


Safety: The data

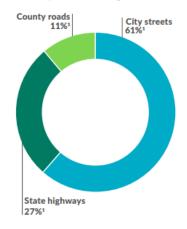
- Pedestrian crossings
- Driver speed
- Population centers
- Target Zero: Safe Systems
 Approach







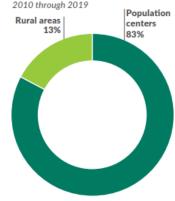
Bicyclist and pedestrian fatalities and serious injuries; 2010 through 2019





Majority of bicyclist and pedestrian fatalities and serious injuries on state highways are in population centers

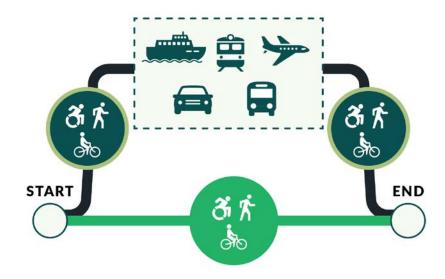
Bicyclist and pedestrian fatalities and serious injuries on state highways;



Core concepts in plan's focus on facilities

- It's about the network!
- Level of traffic stress: objective,
 quantitative set of design and
 operations factors to define gaps.
- Focus on population centers lets
 us address critical safety needs and
 tap into latent demand where
 potential is highest.
- Latent demand unleashed when you can get all the way to your destination; importance of route directness and crossing availability in the context of travel need.
- "USER COUNT" is not a synonym for active transportation demand!

 Use of demographic information helps us address disproportionate serious injuries and deaths by applying equity factors + safety + demand in evaluation and future prioritization.



Level of Traffic Stress

- Examine roadway and intersection
 Level of Traffic Stress to
 determine suitability for walking
 and biking: Roadway width
 (number of lanes), posted speed
 limit, traffic volume, shoulder
 width, bike lanes/sidewalks;
 calculated differently for in-town vs
 rural, calculated separately for
 pedestrians and bicyclists
- Note on data limitations: Is there a sidewalk? Does that signal have a pedestrian head or detect bicyclists?

- Analytical process:
 - Calculate Level of Traffic Stress 1 (suitable for all ages/abilities) to 4
 - 2. Identify network gaps (LTS 3 or 4)
 - 3. Evaluate gaps using safety, equity and demand criteria to identify highest need



ATP goals

- Networks: Connect comfortable and efficient walking and rolling networks so people can reach their destinations and other forms of transportation and have everyday access to physical activity.
- Safety: Eliminate deaths and serious injuries of people walking and rolling.
- Opportunity: Eliminate disparities in access to safe active transportation connections for people and communities most dependent on walking, bicycling and transit.
- Participation: Increase the percentage of everyday short trips made by walking or bicycling.
- Partnership: Collaborate with local, regional, state, tribal and federal partners to complete and improve the network across boundaries.

Evaluation criteria

Safety

- History of driver crashes with bicyclists or pedestrians that result in death or serious injury
- Systemic safety: based on roadway characteristics that contribute to crash potential (LTS)
- Connections to and between destinations (including intermodal links and trails)

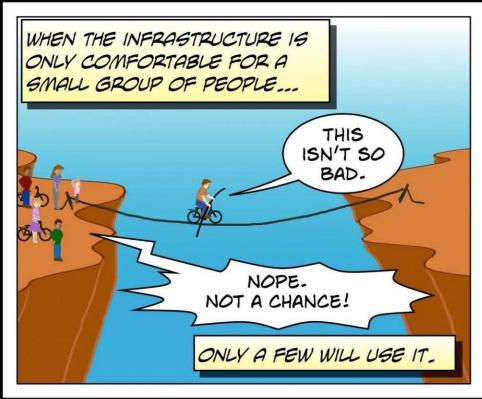
Equity

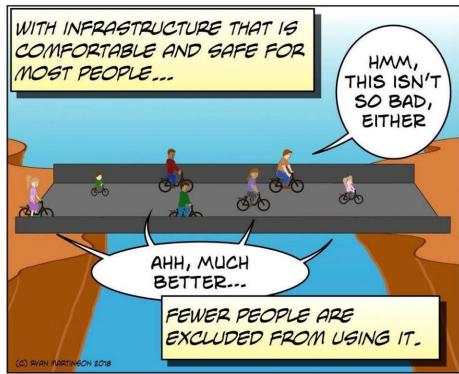
- Places with relatively high numbers of people living in poverty
- Places with relatively high numbers of Black, Indigenous, people of color
- Places with relatively high numbers of people with a disability

Potential Demand

 Potential demand based on population density, density of jobs, proximity to schools, bus stops/intermodal connections, and other destinations

It's about the network





It's about accessible active transportation

"... the curb-cut effect illustrates the outsize benefits that accrue to everyone from policies and investments designed to achieve equity."

Angela Glover Blackwell,
 <u>"The Curb-Cut Effect"</u>,
 Stanford Social Innovation
 Review



Stay in touch

- Barb Chamberlain
 Active Transportation Division
 Director
 (360) 704-6386
 <u>barb.chamberlain@wsdot.wa.gov</u>
 @BarbChamberlain
- Walk + Roll E-News: Subscribe at http://bit.ly/WSDOTactive-enews

