

### PUBLIC PERFORMANCE REVIEW

Goal 4 – Improving Traffic Safety

6/28/2023



#### WELCOME

#### PRESENTED BY:

• Mandeep Kaundal, Director, Results Washington



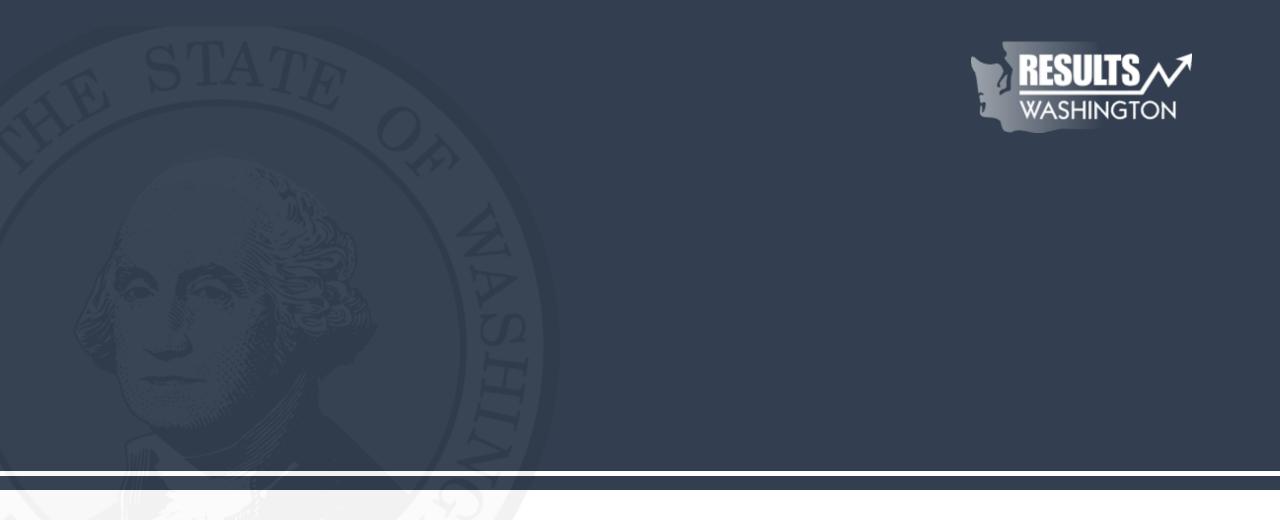
## Building Logistics

- Emergency exits are through the nearest door and follow illuminated signs
- Restrooms are located down the hall near the south or north exits
- Please take side conversations outside the room
- Attendees will find a QR code and a physical survey located on conference room tables
- ASL interpretation is being provided for today's meeting
- Our meeting is being live-streamed by TVW
- Meeting materials are located at www.results.wa.gov



### Topic Selection

- Traffic safety is tied to the Governor's goal 4: Healthy & Safe Communities
- Recommended by leaders across the state to review traffic related deaths and serious injuries
- Progress and initiatives presented by:
  - Washington Traffic Safety Commission (WTSC)
  - Department of Transportation (DOT)
  - Department of Licensing (DOL)
  - Washington State Patrol (WSP)



Governor's Opening Remarks



# TRAFFIC SAFETY INTRODUCTION

#### PRESENTED BY:

SHELLY BALDWIN, DIRECTOR
 WASHINGTON TRAFFIC SAFETY COMMISSION



## Traffic Safety: Introduction and Data



In collaboration with partners achieve—Target Zero—Washington's goal of zero traffic deaths and serious injuries.



Our vision: A Washington where we all work together to travel safely on our roadways.

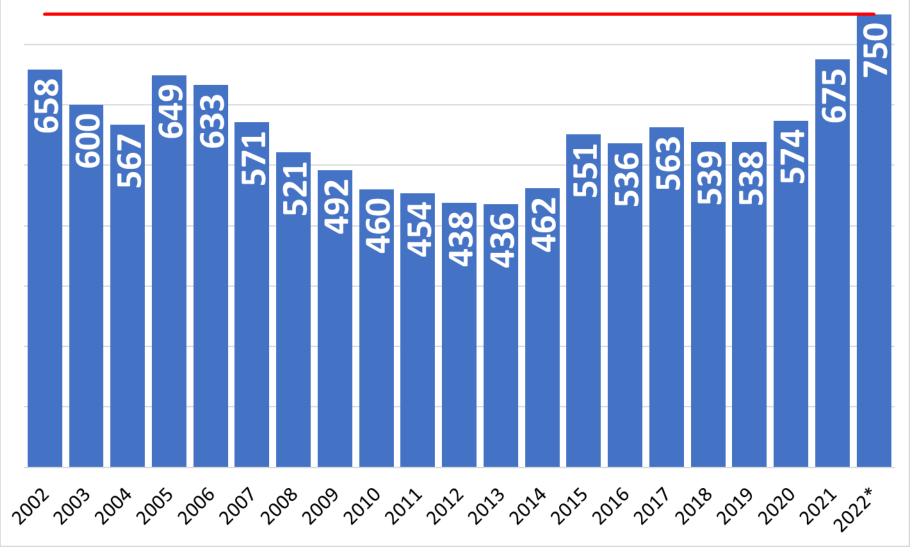


Our mission: We empower and equip people and communities with knowledge, tools, and resources to build a positive traffic safety culture.

#### Washington Traffic Fatalities

\*2022 PRELIMINARY AS OF MAY 2023

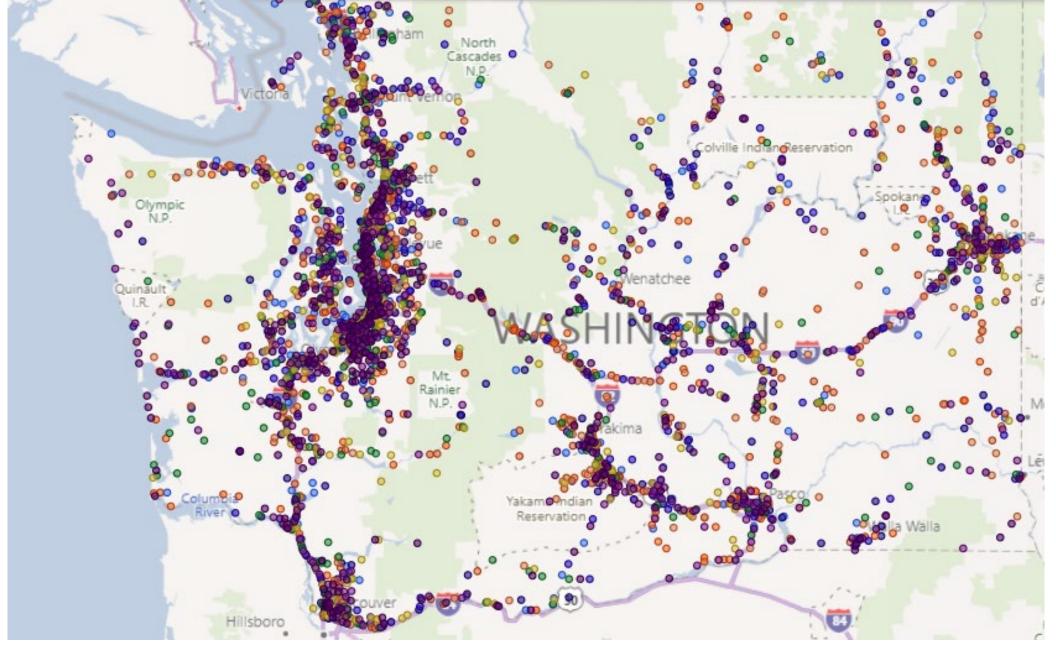
## TRAFFIC DEATH INCREASED 39% FROM 2019-2022



## **FATAL CRASHES** 2013-2022

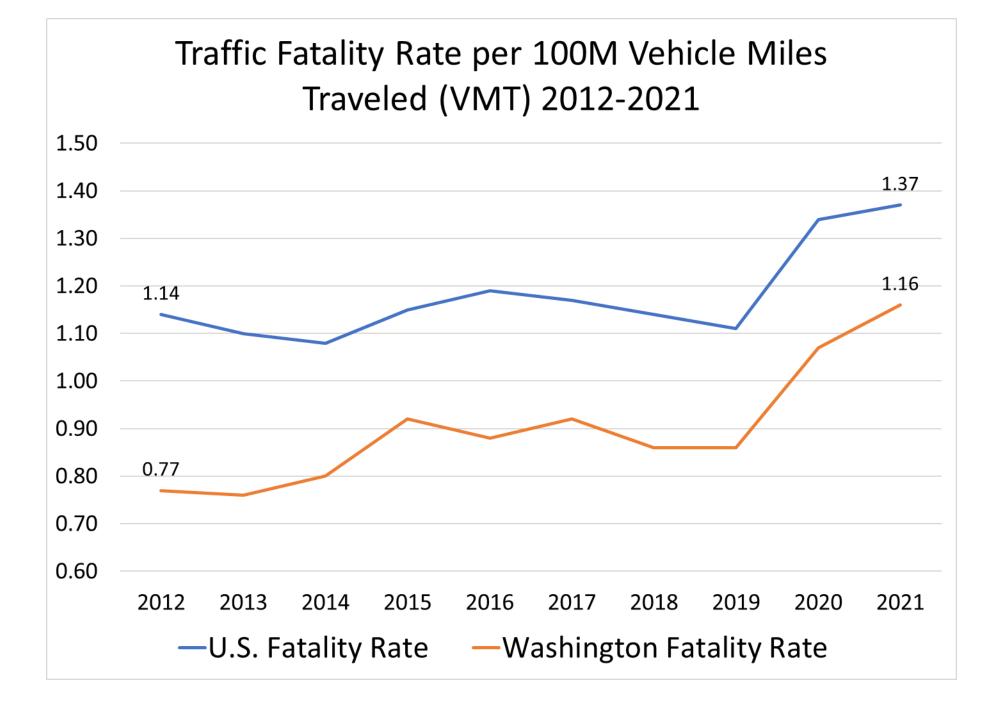
Eight counties that account for ~60% of fatalities:

- King
- Pierce
- Snohomish
- Spokane
- Yakima
- Clark
- Thurston
- Kitsap





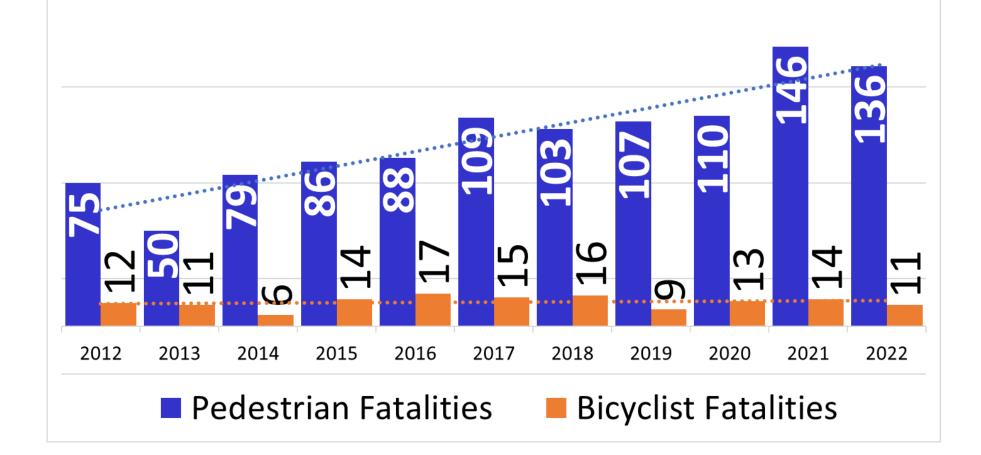
Washington's traffic fatality rate per 100M VMT is lower than the U.S. rate



#### Washington Pedestrian/Bicyclist Fatalities

\*2022 PRELIMINARY AS OF MAY 2023

## ROAD USER FATALITIES: WALKERS AND ROLLERS

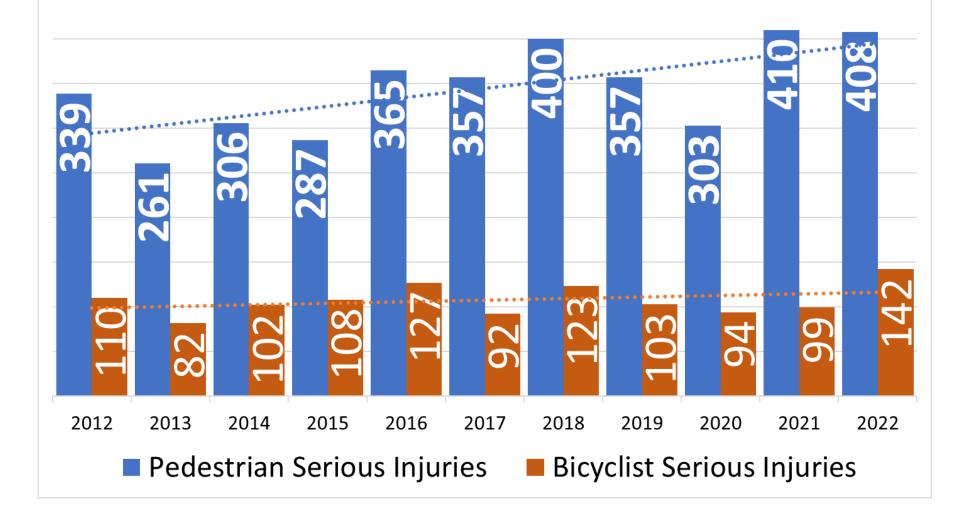




# ROAD USER SERIOUS INJURIES: WALKERS AND ROLLERS

## Washington Pedestrian/Bicyclist Serious Injuries

\*2022 PRELIMINARY AS OF MAY 2023



#### RACE AND ETHNICITY

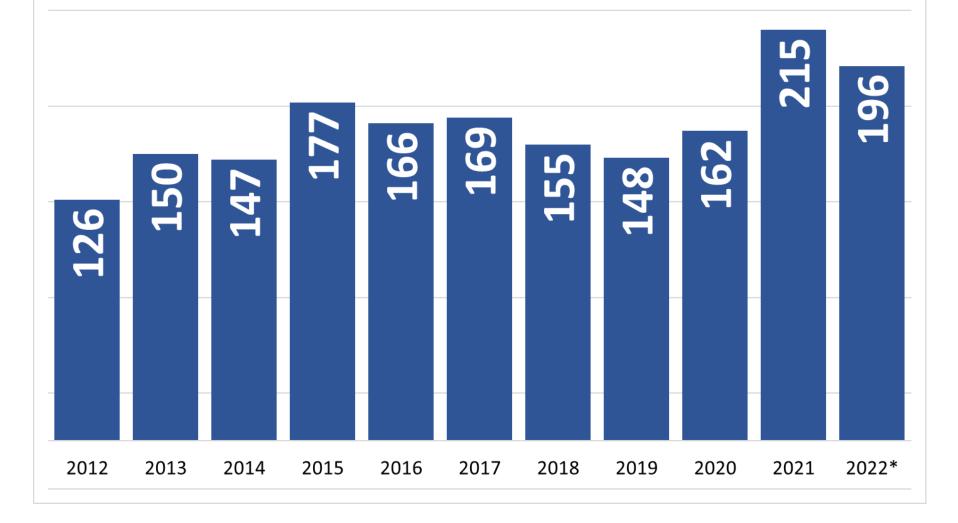
	All Fatalities		Pedestrian/Bicyclist Fatalities	
Race/Ethnicity Group	All Fatalities 2017-21	All Fatality Rate per 100,000 population	Pedestrian/ Bicyclist Fatalities	Pedestrian/ Bicyclist Fatality Rate per 100,000 population
American Indian/Native Alaskan	142	30.62	37 (26%)	7.98
Asian/Pacific Islander	145	3.92	50 (34%)	1.35
Black	134	9.24	36 (27%)	2.48
Hispanic	460	9.04	84 (19%)	1.65
White	1,893	7.54	405 (21%)	1.61
All Traffic Fatalities	2,889	7.65	642 (22%)	1.70



# ROAD USER FATALITIES: YOUNG DRIVERS

## Washington Fatalities Involving a Young Driver Ages 16-25

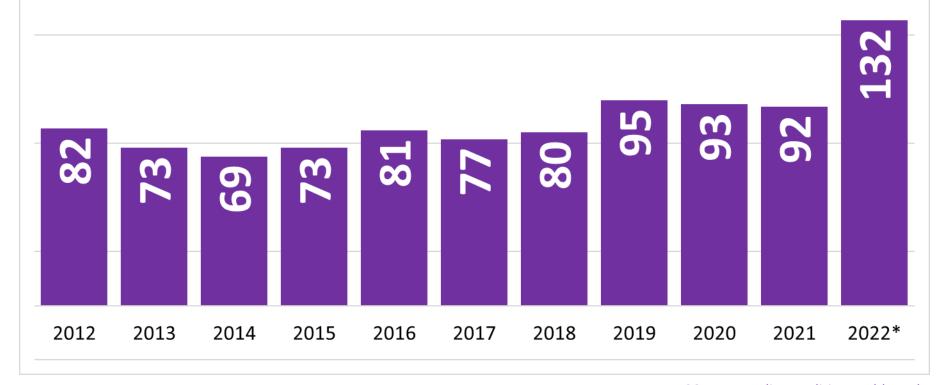
\*2022 PRELIMINARY AS OF MAY 2023



#### Washington Motorcyclist Fatalities

\*2022 PRELIMINARY AS OF MAY 2023

# ROAD USER FATALITIES: MOTOR-CYCLISTS

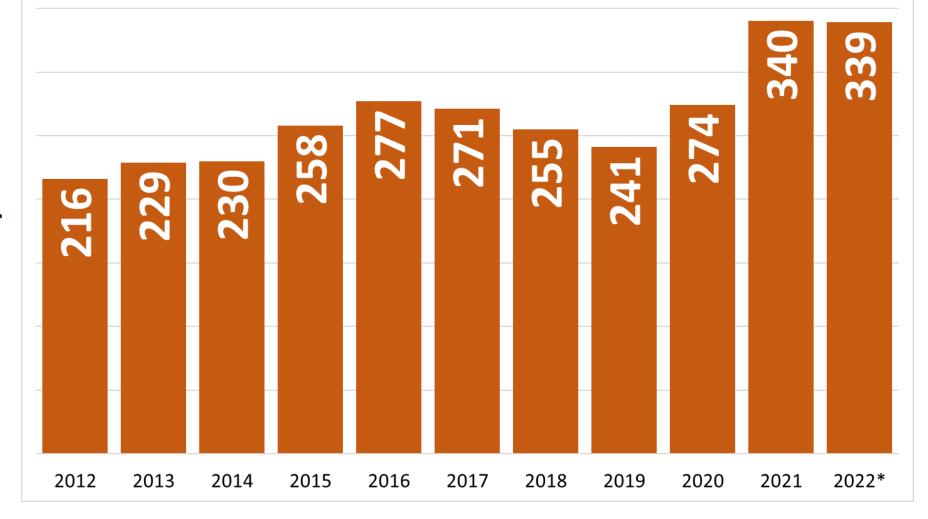


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#### Washington Fatalities Involving an Impaired Driver

\*2022 PRELIMINARY AS OF MAY 2023

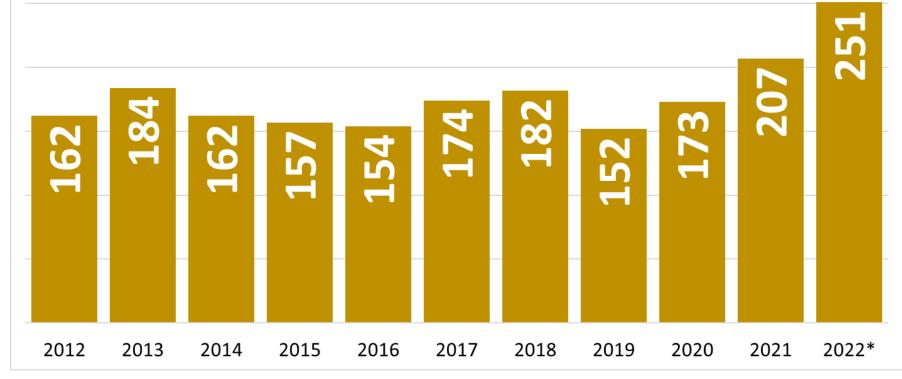
### HIGH RISK BEHAVIOR: IMPAIRMENT



## Washington Fatalities Involving a Speeding Driver

\*2022 PRELIMINARY AS OF MAY 2023

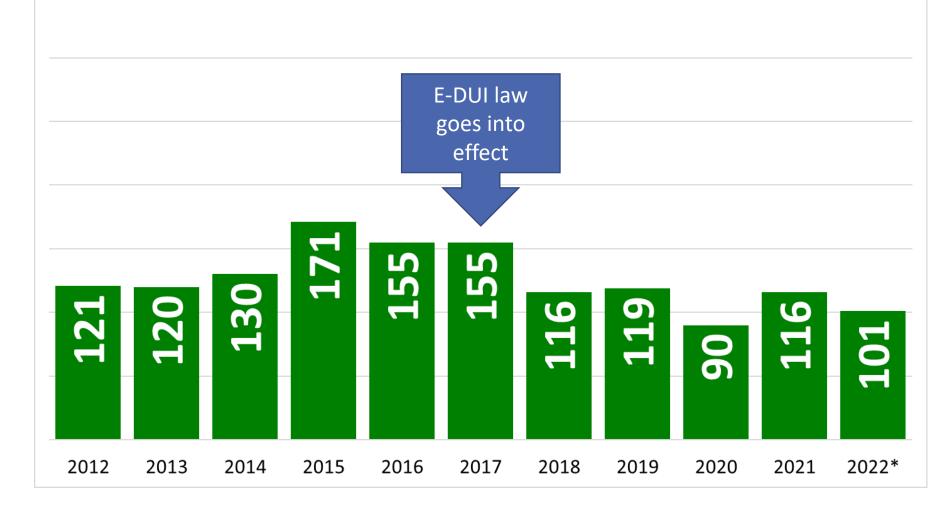
### HIGH RISK BEHAVIOR: SPEEDING



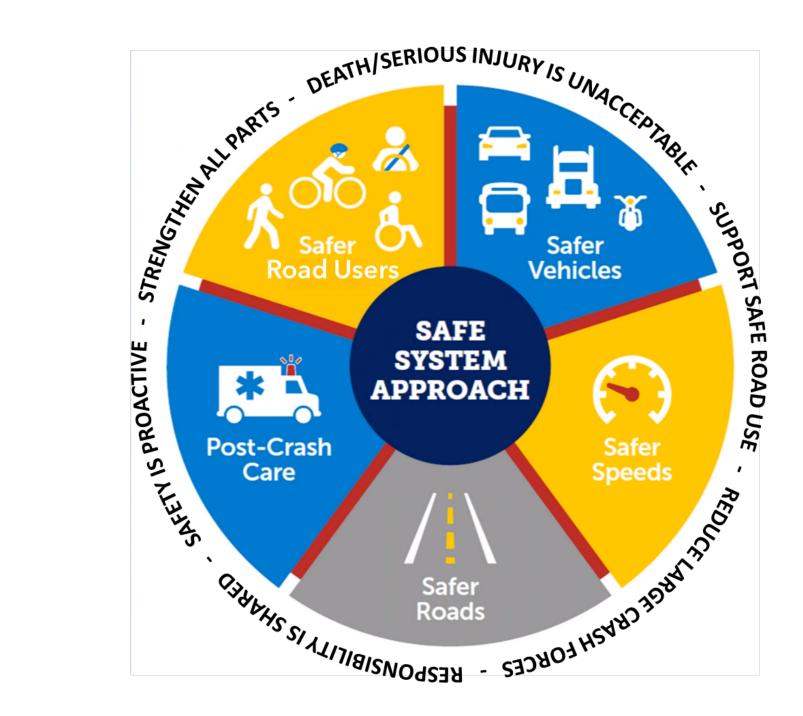
## HIGH-RISK BEHAVIORS: DISTRACTED DRIVING

## Washington Fatalities Involving a Distracted Driver

\*2022 PRELIMINARY AS OF MAY 2023



### SAFE SYSTEM APPROACH



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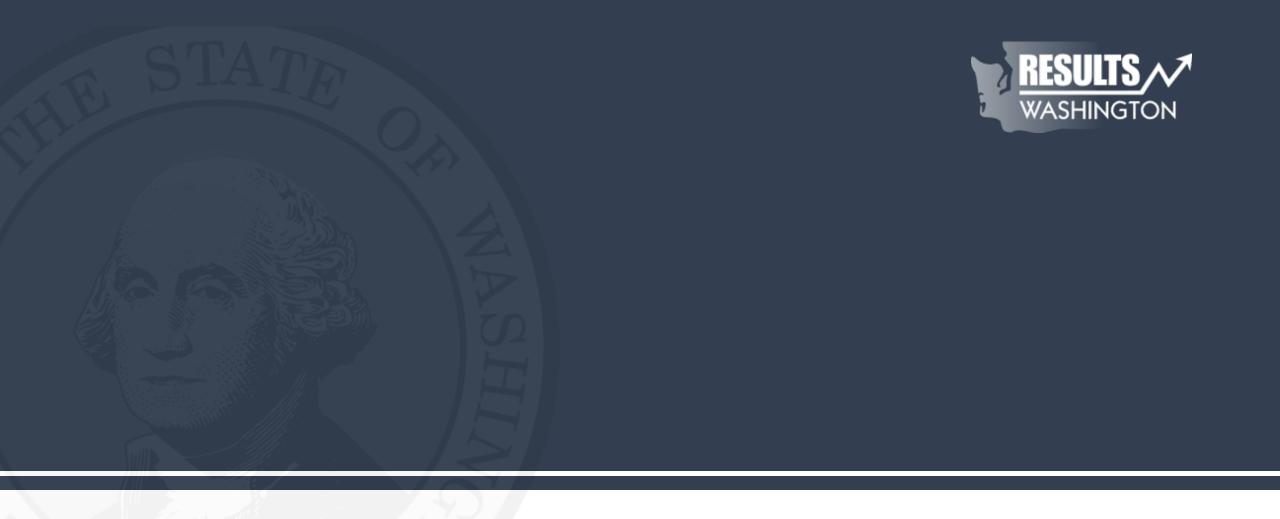
- Encourage safe, responsible driving and behavior by people who use our roads
- Create conditions that prioritize everyone's ability to reach their destination unharmed



- Design roadways to mitigate human mistakes, account for injury tolerances, and encourage safer behaviors
- Separate users in space and time and protect the most vulnerable users.



- Excessive speed is one of the primary factors that leads to serious injury or death
- The Safe System manages speeds through engineering solutions, enforcement, and positive safety culture



## Governor Q&A



# TRAFFIC SAFETY ROAD SAFETY

#### PRESENTED BY:

- JOHN MILTON, Ph.D., P.E., RSP<sub>21B</sub>, PTOE, STATE SAFETY ENGINEER, DIRECTOR OF TRANSPORTATION SAFETY DEPARTMENT OF TRANSPORTATION
- VENU NEMANI, P.E., CHIEF SAFETY OFFICER, CITY TRAFFIC ENGINEER
   SEATTLE DEPARTMENT OF TRANSPORTATION

#### Vulnerable road user assessment

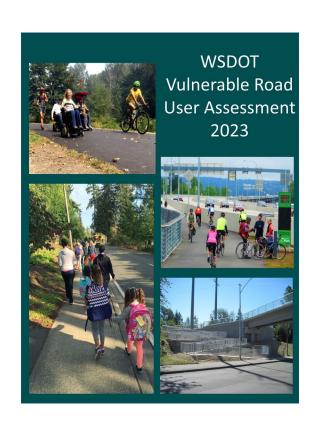
- Federal requirement
- Assess crashes involving pedestrians and bicyclists that were killed or seriously injured (aka VRU crashes)
- Goal: assess performance, identify areas for analysis, identify potential strategies to reduce/prevent

Assess performance

Identify areas for analysis

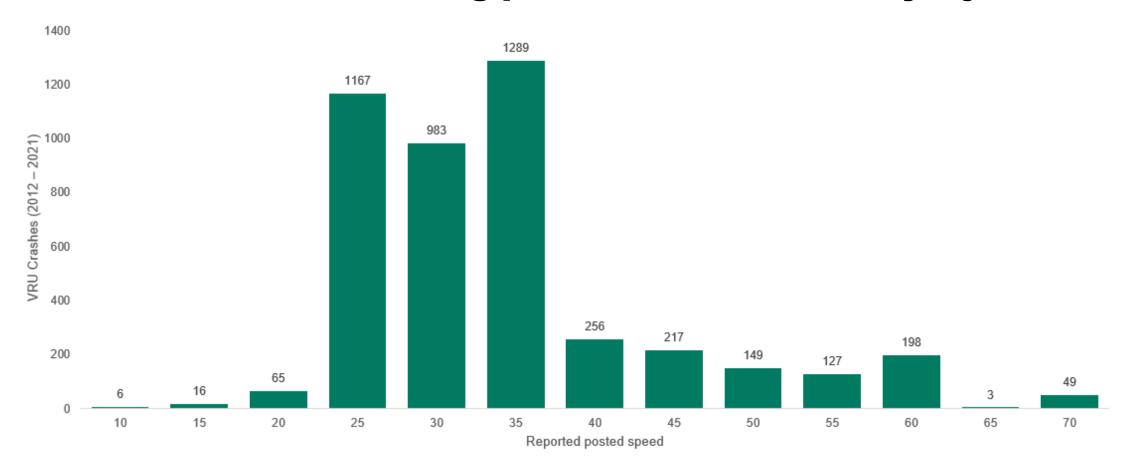
Identify strategies to reduce/prevent

FHWA Guidance - <u>link</u>



# Posted speeds help us understand injury potential and strategies to address those crashes

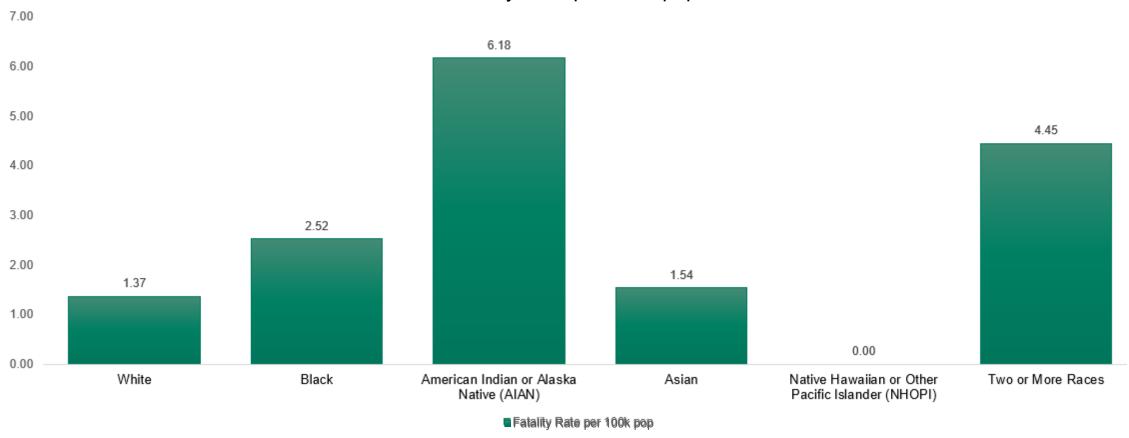
2012-2021 - Crashes involving ped/bike killed/seriously injured



Source: Crash data from WSDOT Engineering Crash Datamart, Year-end snapshot 2022, May 2022.

# Race and overrepresentation 2019-2021 Pedestrian and Bicyclist Fatalities

Fatality Rate per 100k pop\*



Sources: Fatality race data from Coded Fatality Files (WTSC) (Feb 2023); 2020 population estimates from Office of Financial Management, State of WA (<u>link</u>) (Dec 2022). Fatality rate calculated using the average fatality count from 2019 through 2021.



#### Variables used in location identification

- Areas of Persistent Poverty (RAISE)
- Tribal lands
- Social Vulnerability Index (CDC)
- Environmental Health Disparities Index (WADOH)
- Disadvantaged Communities score (USDOT)
- Census tracts data: active transportation use
  - School density
  - Transit stop density
  - Transit route mileage density

# Analysis allowed for a proposed method to identify locations for potential action

#### Proposal: Total combined value of the following variables:

- If Areas of Persistent Poverty (RAISE), then 10
- If tribal land, then 10
- Social Vulnerability Index (CDC), score from 1-10
- Environmental Health Disparities Index (WADOH), score from 1-10
- Disadvantaged Communities score (USDOT), score from 1-10
- Using census tracts, using range of highest and lowest values divided in equal parts, score from 1-10:
  - School density
  - Transit stop density
  - Transit route mileage density

#### **Data Gaps and Challenges**

- Crash reporting does not distinguish between different crash types for vulnerable road users
- Limited data on walking and biking facilities and volumes
- Both are valuable in selecting crash prevention strategies



#### Vulnerable road users assessment outreach

#### **Coordination ongoing through fall:**

- WTSC
- Cooper Jones Active Transportation Council
- MPO/RTPO Coordinating and Technical Councils
- Tribal Government or Councils
- Local Governments (City and County) or Councils

#### **Complete Streets for Road Safety**

In 2022, the Washington State Legislature directed WSDOT to "improve the safety, mobility and accessibility of state highways" through the incorporation of Complete Streets principles on state transportation projects over \$500,000





Photo: Tom Fucoloro, Seattle Bike Blog



#### Safe System Approach to Road Safety



When we focus on the principles of the Safe System

We change how design and operate our roadways!

### A Fundamental shift in thinking

#### **Traditional**

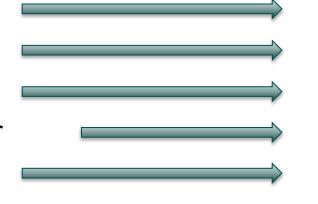
Prevent all crashes

React to crashes

Blame road users

Improve human behavior

Control speeding



#### Safe System

Prevent fatal and serious crashes

Proactive approach to crashes

Shared responsibility

Design and operate for safe road use

Reduce system crash forces (kinetic

energy)



#### The Safe System throughout our policies and manuals



Secretary's Executive Order Number: E 1085.01

Signature on file

Roger Millar, PE, FASCE, FAICP Secretary of Transportation May 31, 2023

e

#### Road Safety - Advancing the Safe System Approach for All Users

#### I. Introduction

#### A. Purpose

This Secretary's Executive Order directs employees to implement policies and procedures that advance the Safe System Approach to road safety. The purpose of this order is to achieve the goals of the Washington State Strategic Highway Safety Plan, known as Target Zero, and the Washington State Department of Transportation (WSDOT) Highway Safety Improvement Program Implementation Plan, titled Getting to Zero.

This policy provides for a sustainable approach to highway safety for all roadway users though planning, programming, scoping, design, and operations using scientifically sound safety management practices.

Through the Safe System Approach, WSDOT intends to systematically reduce fatal and serious injury crash potential statewide. This approach provides for explicit consideration of all road users in the planning, design, construction, operation, and maintenance of transportation facilities. It directly addresses the disproportionate effects of past transportation projects on specific neighborhoods and locations.

It establishes a principle that road users are considered equitably in design and operational decision making within the given roadway context. It coordinates with WSDOT Executive Order (EO) 1090 Advancing Practical Solutions and EO 1119 Anti-Racism Policy and Diversity, Equity, and Inclusion Planning.

#### R Supersession

This Secretary's Executive Order supersedes and replaces the prior version with the title Sustainable Highway Safety Program, dated February 11, 2013. All references to the superseded E 1085.00 now reference E 1085.01.

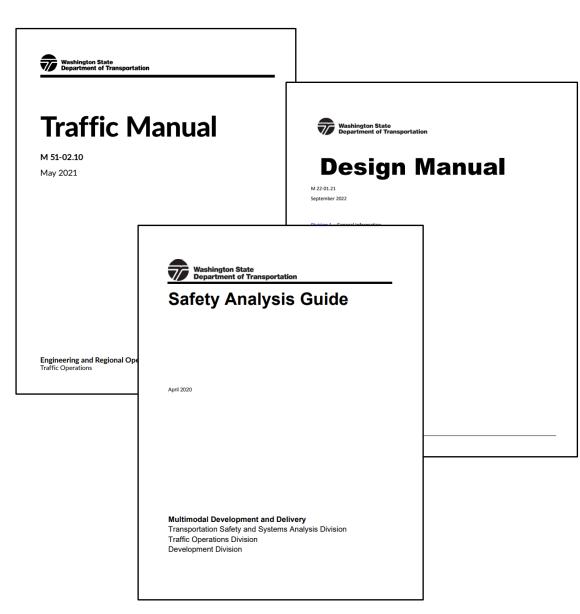
#### C. What Has Changed

This revision modifies the language in each section of this document, including the following changes:

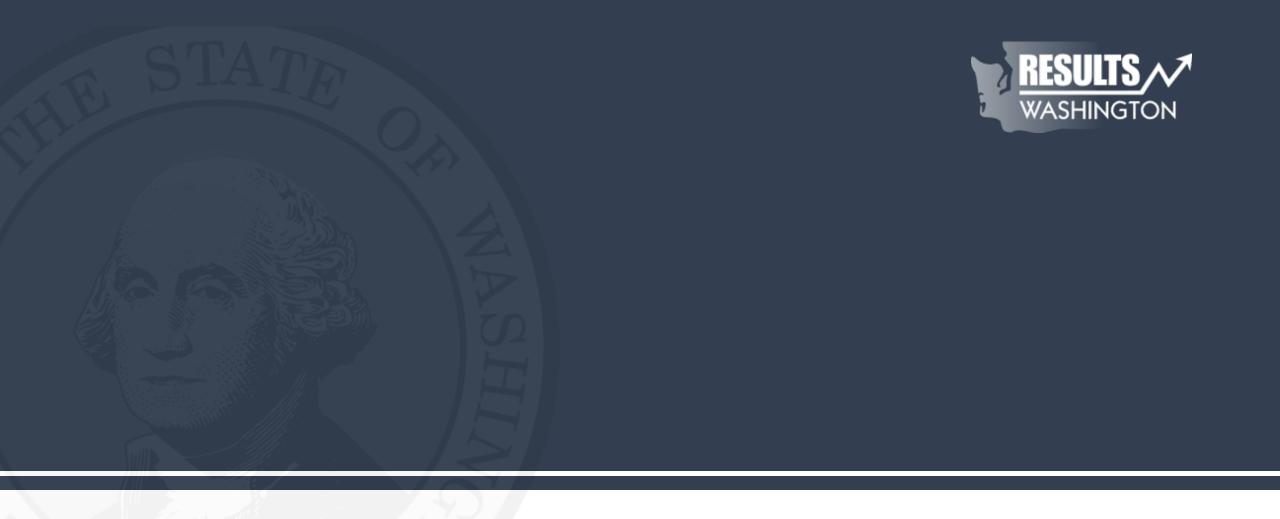
- It reorganizes Section I to separate the purpose from the background information to understand the context of the policy.
- · It renames the Sustainable Safety approach as the Safe System Approach.
- · It addresses disproportionate crash outcomes for specific modes and locations.

WSDOT Secretary's Executive Order E 1085.01 Road Safety – Advancing the Safe System Approach for All Users Page 1 of 6 May 31, 2023









## Governor Q&A



# TRAFFIC SAFETY DRIVER EDUCATION

#### PRESENTED BY:

 DAN COOKE, LICENSING, ENDORSEMENTS, & TRAFFIC SAFETY ADMINISTRATOR DEPARTMENT OF LICENSING



Licensing, Endorsements, and Traffic Safety

Changing Driver Behavior Through Driver Education



#### > Equity and Accessibility

- Guides
- Language Access
- > Expanding access to education

#### **Education and Assessments**

- ➤ Motorcycle Skills
- Driver Skills

The goal is to take the Washington State Driver Guide from a white wall-of-text

full-color, graphic enhanced, adaptive, interactive, easy-toupdate, user-friendly resource that will serve all Washingtonians and act as the face of the Department of Licensing.

You can be a safer driver by looking well ahead. You can avo the need to stop or turn quickly. The less you have to stop or turn quickly, the less likely you are to run into someone or

By looking well ahead, you can save on fuel. Every time yo to stop quickly, it takes time and fuel to get your vehicle to up to speed. A gradual approach into a stop situation pu in a win win situation. You will use the least amount of ou will put the least amount of wear on your tires and g system, and you have the best opportunity to contro

Look to the sides - As other vehicles, pedestrian

intersection always look to the left and right for vehicles way, does not mean that you will be given the right of way. stopped, look to the left and right before you start moving. If s completely, so that you do not block the intersection i you have to stop.

Before you turn left or right acros-Before you turn left or right across oncoming traffic, turn on your signal at least 100 feet ahead and look for a safe gap in the traffic. Check the street you are turning into to make sur that no vehicles, pedestrian, or bicyclitar are in or approach your path. If you are on a street with a bicycle lane, check behind you for oncoming bicyclitat and yield to them be-fore After stonning you may turn right on red unless prohibited

Whenever there is a lot of activity along the side of the road, there is a good chance that someone will cross or enter the road. Therefore, it is very important to look to the sides, look within that 4 second range, when you are near shopping









How To Make A Left Turn

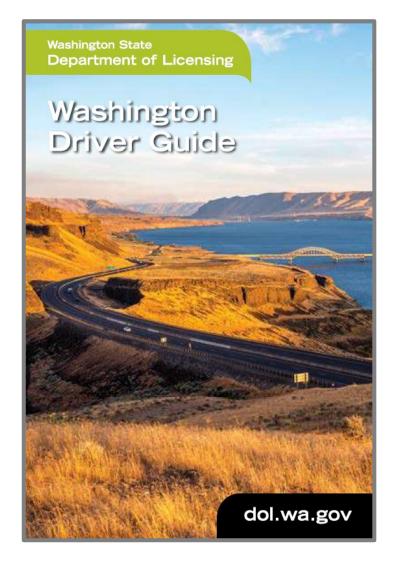
Do not rely on traffic signals or signs to tell you that no one will be crossing in front of you. Some drivers do not obey traffic signals or signs, 44 an intersection, look left and right even if other traffic has a red light or a stop sign. This is especially important just after the light has turned green. This is when people on the cross street are most likely to hurry through the intersection before the light change to red.

Within 50 feet of a railroad crossis



#### KEEP RIGHT, EXCEPT TO PASS





Translated into 5 additional languages:

English, Spanish, Russian, Traditional Chinese, **Simplified Chinese**, Vietnamese, **Ukrainian**, Korean, **Arabic**, Japanese, **Punjabi**, **Tagalog** 

- Written using plain language that will help Non-Native English Speakers and people with learning disabilities
- Updated & improved for ADA accessibility
- Intentional in selecting graphics and images that reflect the cultural, racial, and ethnic diversity of Washington State



Expanding access to driver education means:

### **Conducting Research**

- Identify significant obstacles related to costs of learning to drive
- Quantify the extent that costs present to low-income novice drivers
- Compare results in other states and jurisdictions

#### **To Determine**

- How to address financial need
- Effective systems to increase access
- Equitable distribution of financial assistance
- Potential sources of revenue to subsidize driver education





80%

60%

40%

20%

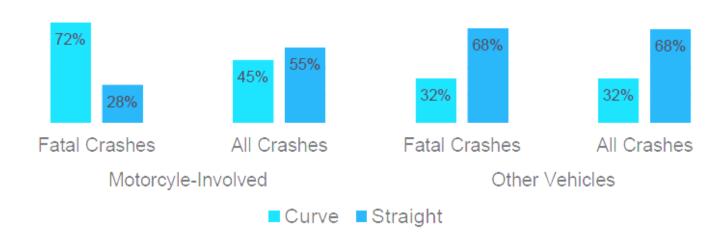
0%

# 48% of fatalities can be tied to a rider's inability to handle curves or stop effectively to avoid a collision

## **Motorcycle only crashes:**

- 75% are the result of the rider losing control
- 72% of fatal crashes occurred in curves
- A rider's odds of dying in a curve are 5.5 times higher than other vehicle drivers

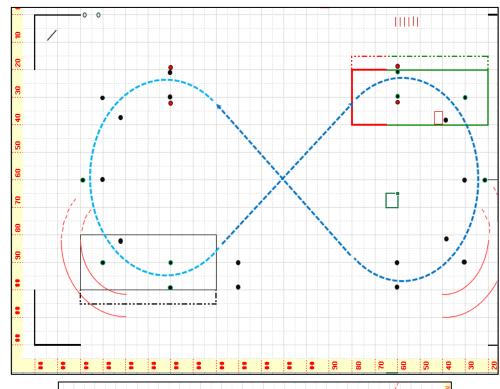
Roadway Characteristics in Single Vehicle Crashes, Comparing Motorcycle-Involved vs Other Vehicle Types, 2013-2018

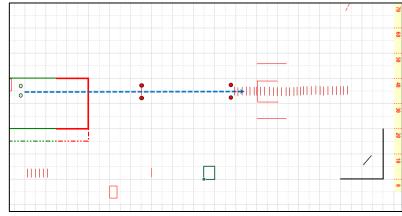


Data Source: WSDOT MRFF data

### New Knowledge and Skills Tests

- Skills: added a higher speed quick stop and a cornering run, consisting of both a leftand right-hand curve
- Knowledge: focused on strategies, situational responses, and decision making





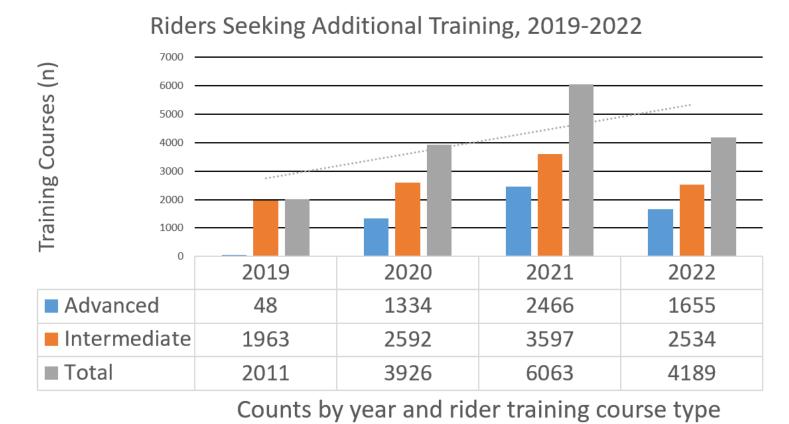
# Since 2020, training schools have created five new motorcycle safety courses targeting intermediate or advanced riders

Four more courses in development

Analysis on the impact of training and testing changes begins in 2025.

#### We'll be looking for:

- Is behavior changing?
- Reduced crashes?
- Reduced crash severity?



Total ..... Linear (Total)

Intermediate

Advanced



## The current skills test doesn't reflect the modern driving environment.

hasn't seen a significant update since the 1950's

#### It must support drivers: young and old.

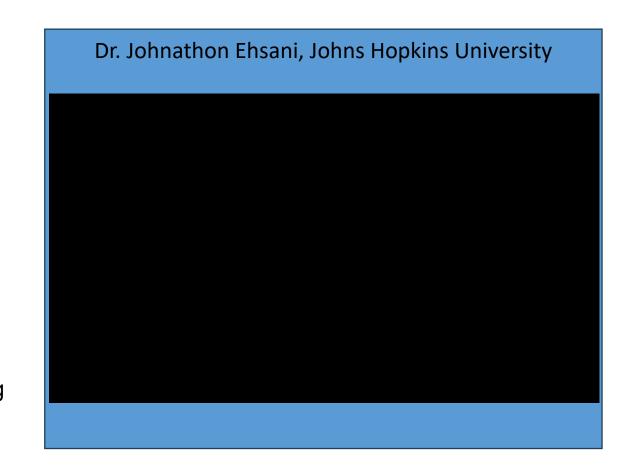
The skills test must assess those who pose a threat to themselves or others, not just the novice

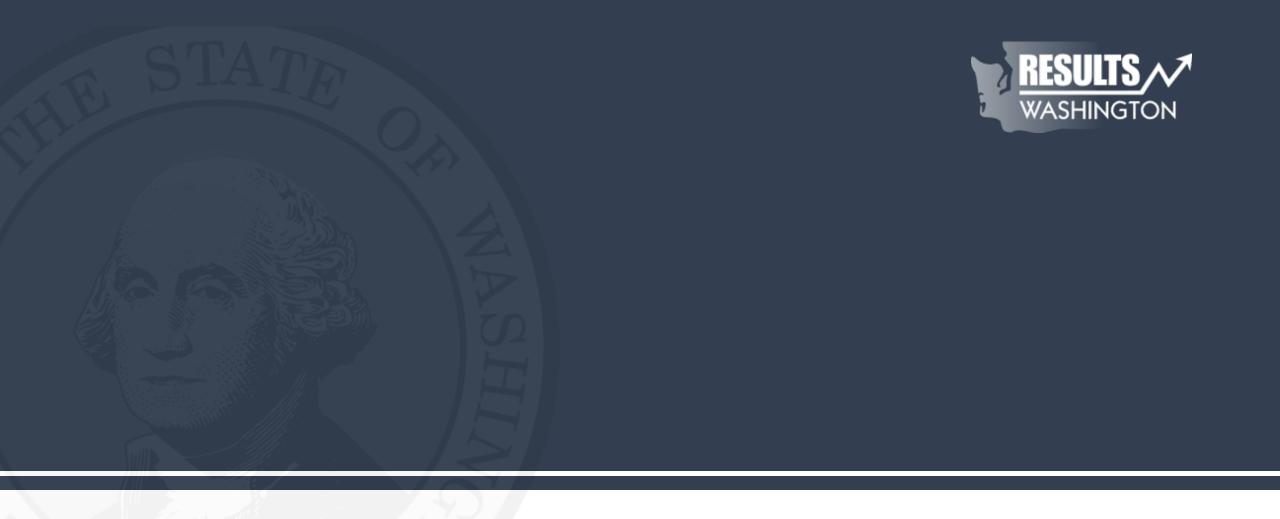
It should incorporate hazard awareness and risk perception training and assessments into the licensing process.



## Through the National Academy of Sciences, partnership with Johns Hopkins University

- The purpose of the project:
  - Advance a national conversation about testing novice drivers
  - Determine the extent to which current testing practices are based on scientific evidence
  - Measure the impact of introducing elements of a model driving test
  - Provide recommendations and guidance to states
- What Washington gets:
  - Identify critical components should appear on a driver's skills test to evaluate a driver's potential.
  - 2024 field testing and a pilot in Washington.
  - The potential to introduce Hazard Perception testing to the first state in the US.





## Governor Q&A



# TRAFFIC SAFETY FUTURE COMMENTS AND NEXT STEPS

#### PRESENTED BY:

CHIEF JOHN R. BATISTE
 WASHINGTON STATE PATROL



## RECRUITMENT & RETENTION

- Graduated 88 new troopers with the 115<sup>th</sup> and 116<sup>th</sup> Trooper Basic Training Class (TBTC) in 2022
- 117<sup>th</sup> TBTC graduated 43 new troopers in May 2023. WSP is on track for a 60-person 118<sup>th</sup> TBTC beginning early July 2023
- Lateral class slated for early 2024
- Graduated 16 new Commercial Vehicle Enforcement Officers (CVEO) with the 16<sup>th</sup> and 17<sup>th</sup> CVEO Training Class

WE'RE HIRING! VISIT <u>www.wsp.wa.gov</u> TO LEARN MORE





## WSP TECHNOLOGY

- Body worn cameras, in-car camera systems, and less lethal Tasers for WSP Commissioned Officers
- Speed safety cameras are now authorized to deploy in active WSDOT work zones
- The Aviation Section is an effective force multiplier utilized across the state for traffic safety enforcement efforts, including:
  - Speed enforcement
  - Impaired drivers
  - Street racing
  - Fleeing vehicles





## WSP PROGRAMS

- WSP Drug Recognition Expert
   (DRE) Phlebotomy Program
   moved from a pilot to permanent
   solution
- New toxicology lab being built in Federal Way
  - Help reduce the toxicology case backlogs and improve testing turnaround times





## SERVICE & PUBLIC SAFETY

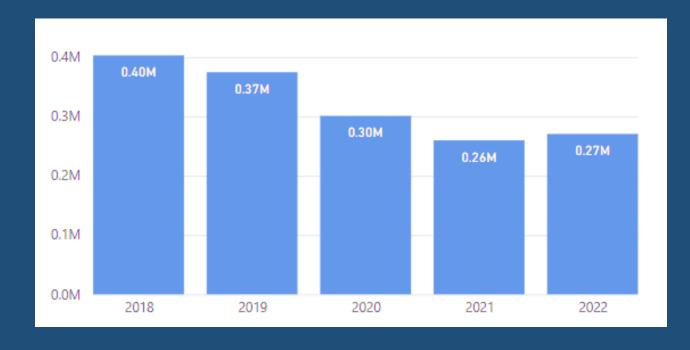
- Traffic fatalities are on the rise across the state, with 2022 being the highest in decades.
   WSP identified where trends were occurring and used data to inform our deployment efforts
- High Visibility Enforcement (HVE) patrols
- Community engagement opportunities have returned post-pandemic:
  - Chief for a Day
  - El Protector
  - School Safety Talks
  - D.A.R.E. certified trooper
  - Mobile Impaired Driving Unit

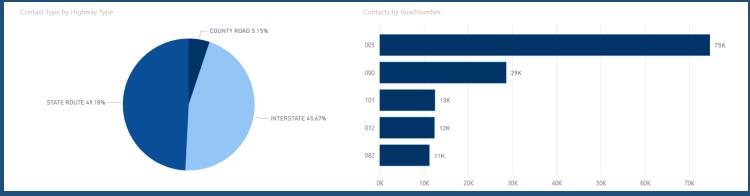




## SPEEDING VIOLATIONS

- In 2022, Washington State Patrol made approximately 270,000 speeding contacts
- This was a 4 percent increase from 2021
- The majority of these contacts occurred on State Routes and Interstates (94.85% in 2022)
- The roadways with the most speeding contacts in 2022 were: I-005, I-090, US 101, US 012, and I-082



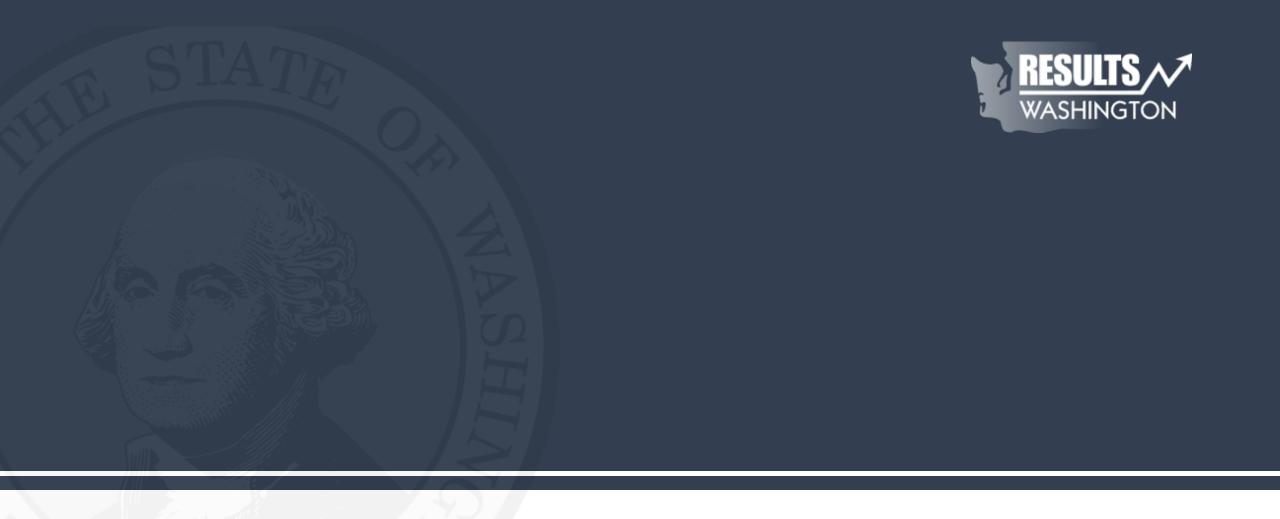




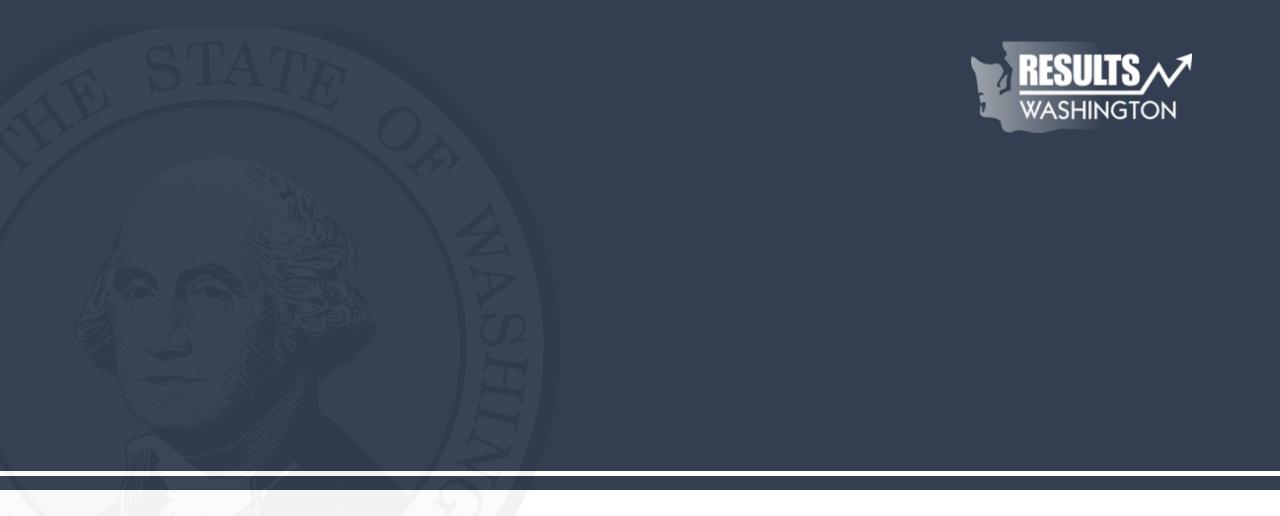
## Working Together

- Traffic safety is a team effort we all have an essential role
- Together we can actively take steps to reduce the number of deaths and serious injuries on Washington's roadways
- We need continued support and innovative ideas
- The impact of working together will make a healthy and safe Washington





## Governor Q&A



## Governor's Closing Remarks

Join us July 19<sup>th</sup> 10:30 a.m. – 11:45 a.m.

Topic:
Outdoor Youth
Learning
Opportunities and
Benefits

#### THANK YOU FOR ATTENDING TODAY!

PLEASE TAKE A MOMENT TO COMPLETE OUR BRIEF SURVEY USING THE QR CODE BELOW:



YOU CAN VIEW THE RECORDING OF TODAY'S MEETING AT: <a href="https://results.wa.gov/measuring-progress/public-performance-reviews">https://results.wa.gov/measuring-progress/public-performance-reviews</a>