

February 28, 2023

# Safety is a Core DOT&PF Value

**Integrity:** Doing the right thing even when no one is watching. Doing what you say you are going to do

**Excellence:** Commitment to continually improve

**Respect:** Positive regard for customers, stakeholders, investors and colleagues

Safety: Commitment to safeguarding transportation systems and users while promoting a safety culture in the workplace



## Non-motorized and vulnerable user update: 2023

Tracking Trends: Fatalities have increased in 2021, 2022

Review Results: Alaska's Safety Plan 2023 5-year Strategic Highway Safety Plan (SHSP) wrapping up

Improve Outcomes: Highway Safety Improvement Plan (HSIP) projects annually (data driven)

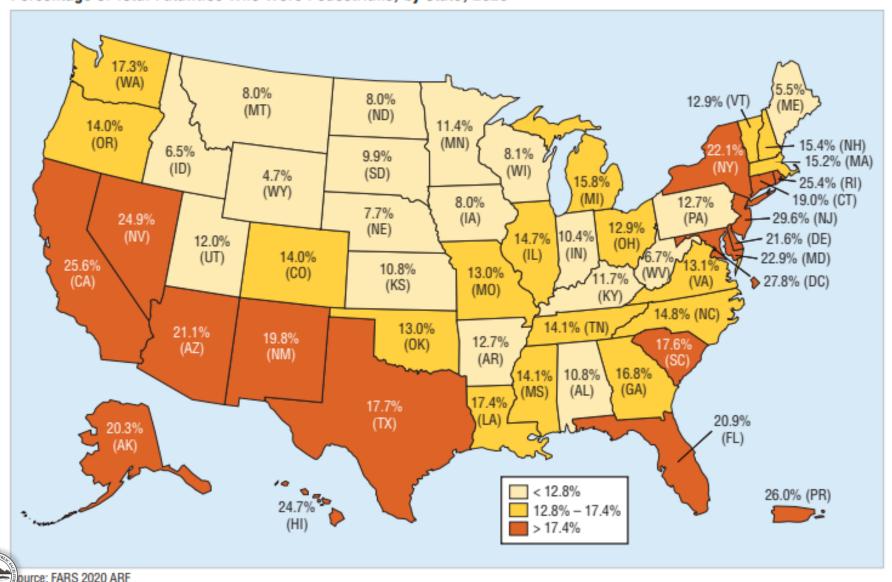
Renewed Focus & New Funding Eligibilities: Eliminate deaths and serious injuries statewide



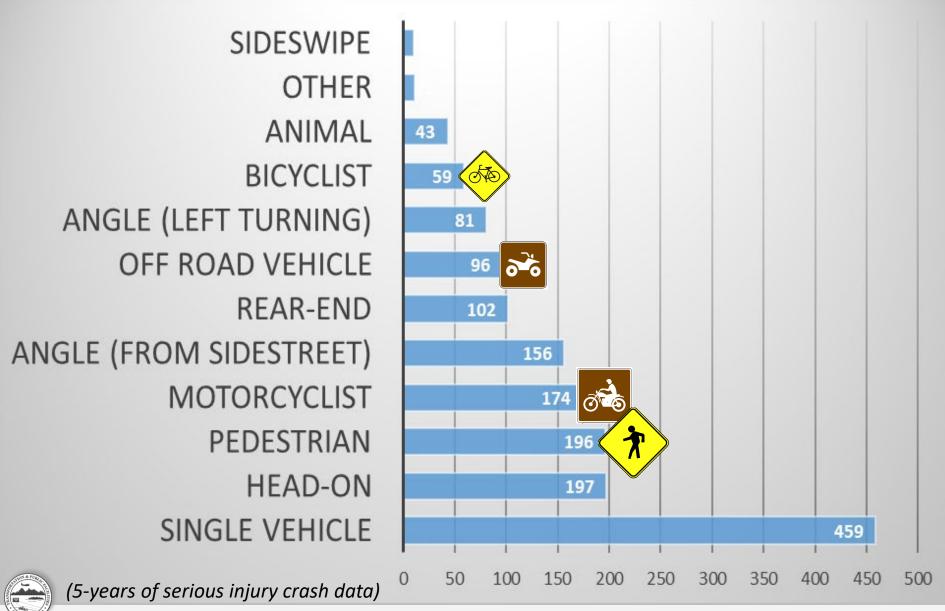


# PROBLEM: Pedestrians are Over-Represented in Alaska Fatality Counts

Percentage of Total Fatalities Who Were Pedestrians, by State, 2020



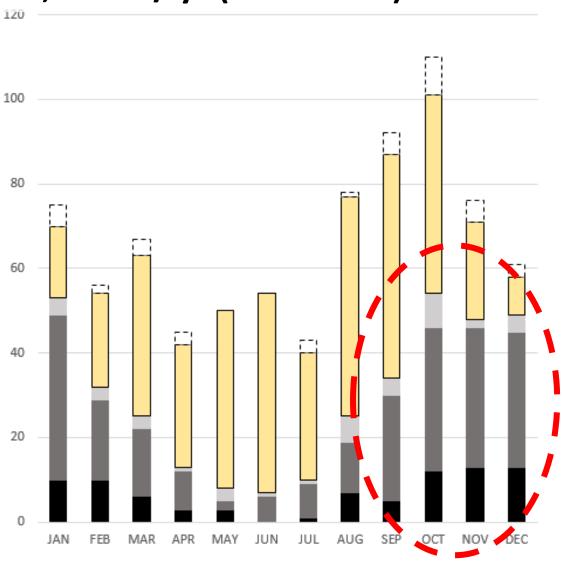
# Different Crash Types REQUIRE Different Solutions



# Pedestrian injury crash factors in Alaska

800+ Ped crashes; 160+ / yr (2016-2020)





## **Pedestrian Crash Data**

## **Reported Crash Data**

- ~160 crashes per year
- 3 out of 4 are in Anchorage
- 85% injury
- 1 in 4 are serious or fatal
- 1 in 5 of all statewide fatal crashes
- Trend: total crashes declining while fatalities are increase again
- Increasing fatalities past 5 years





## **Bicyclist Crashes**

## **Reported Crashes**

- ~120 crashes/year
- 3 out of 4 are in Anchorage
- 85% injury
- 1 in 10 are serious or fatal (no change)
- 1 in 100 of all statewide fatal crashes
- Trend: total crashes declining while fatalities are increase again
- Mostly at sidestreets, driveways





# **Motorcyclist Crashes**



## **Reported Crashes**

- ~115 crashes/year
- Half are in Anchorage
- 85% injury
- 1 in 3 are serious or fatal
- 1 in 10 of all statewide fatal crashes
- Mostly uncontrolled intersections (sidestreet STOPs, driveways)

## Some factors:

- Skid resistance
- Visibility
- Safety gear
- Safety training



# Challenges



**Extreme winter conditions** 

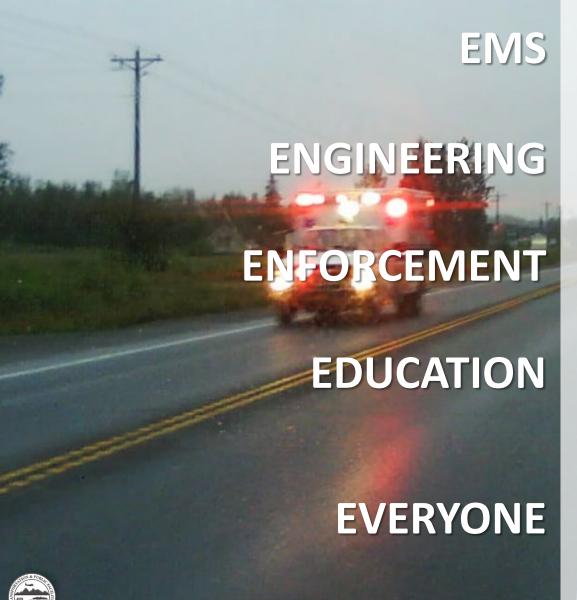
Pedestrian movements increasing

Lack of snow storage areas results in snow on pedestrian facilities

Slower-moving equipment contributes to delays is sidewalk clearing

Durable infrastructure needed to withstand climate

## Solutions: Multiple Agency, Partnership Approach



**Emergency lifesaving:**Best equipment, training

Build forgiving roads: All modes, less conflict

**Presence:** Encourage better behavior

Educate about all "E"s: All angles, community conversation, awareness

**Discuss:** Drive, walk, and bike safely, reasonably

Transportation Alternative Program (TAP) partnership with Fairbanks North Star Borough (FNSB) for Bike Interchange – Steese & Graehl Park

Created connection between Steese pathway and park

DOT&PF addressed drainage plaguing the parks

FNSB maintained park amenities including some in state right of way

Result: more orderly parking, improved bicycle and pedestrian access to the park and downtown Fairbanks





Crosswalks and traffic calming during summer - by the City with DOTPF agreement

Partnership with City of Homer

Seasonal low speed zone extension – tied to vulnerable road user congestion





Girdwood: Alyeska Highway at Hightower Avenue pedestrian crossing

Community-driven solution by the Girdwood Board of Supervisors, Municipal of Anchorage, with DOT&PF partnership

Seasonal pedestrian traffic control – tied to vulnerable road user congestion



# Safety solutions have different risk levels and different cost levels



## Glenn Highway & Bragaw Street: 2005 vs 2020





Anchorage Metropolitan Area Transportation Solutions (AMATS): Connect Anchorage



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# Strategic Highway Safety Plan Update

Comprehensive 5-year transportation safety plan

Coordinated with other State safety plans including:

- Highway Safety Improvement Program
- Highway Safety Plan (HSP)
- Commercial Motor Vehicle Safety Plan (CMVSP)
- Statewide Transportation Improvement Program (STIP)
- Long Range Transportation Plan (LRTP)

**Updated plan expected May 2023** 

Will incorporate the Safe System Approach

Focus Area Teams meet three times annually to implement Emphasis Area Action Plans





## **SHSP Emphasis and Focus Areas**

### **Safe Vehicles**

## **Vehicle Safety**

- Commercial vehicles
- Vehicle safety equipment
- Connected & autonomous vehicles

## Safe Roads and Safe Speeds

## Roadways

- Departures
- Intersections

### **Speed Management**

## **Safe Road Users**

## Vulnerable Road Users

- Pedestrians
- Bicyclists
- ATV
- Motorcycles
- Young & Older Drivers

## **Dangerous Driving**

- Aggressive
- Distracted
- Drowsy
- Speeding
- Impaired
- Occupant Protection

Occupant Protection
Task Force

Impaired Driving Task Force

### **Post-Crash Care**

Emergency Response and Traffic Records

Traffic Records
Coordination
Committee

#### **LEGEND**

**Emphasis Area** 

#### Focus Area

Existing Task
Force or
Committee



# Alaska Statewide Active Transportation Plan (ASATP)





Increase agency-user coordination and progress measures

**Promote healthy lifestyles** 

Develop a safer and more efficient active transportation network and infrastructure to encourage walking and bicycling

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# Alaska Statewide Active Transportation Plan Policy and Procedure Lead Role



# DOT&PF is moving to modernize policies:

- Complete Streets Policy and Implementation Strategy
- Policy and Procedure, Manual Updates
- Track Federal Funding
- Data Collection



## **Americans with Disabilities Act (ADA)**

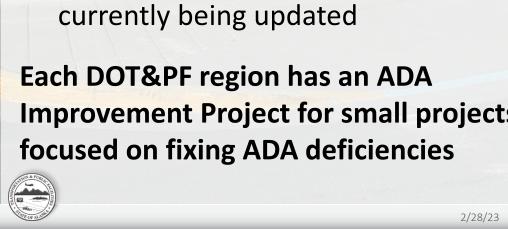
ADA issue if insufficient width to navigate the sidewalk

**Solution: Gambell Street utility** undergrounding (to begin 2024/2025)

**DOT&PF's ADA Transition plan** identifies methods for system screening, inventorying, and prioritizing barriers to accessibility

**DOT&PF ADA Transition Plan is** currently being updated

**Improvement Project for small projects** focused on fixing ADA deficiencies





## Raised and Leading Crosswalks

## Raised crosswalks:

- Several on local roads in Anchorage
- Option on case-by-case basis
- Maintenance challenges
- Could have targeted use in conjunction with local planning

Other crossing solutions possible based on traffic speed, volumes, walking age, and demand.

## **Leading Pedestrian Interval (LPI):**

- LPI signal timing
- Option on a case-by-case basis
- Best used at intersections with heavy pedestrian volume & heavy vehicle turning
- Hasn't been implemented yet in Alaska



# Safety: Where do we take our next steps?





## **Next Priorities: Strategic, Accountable Process**



## **How to Start?**

Community
Suggestions,
Partnerships:
Begin with
broad support
thru Cities,
Boroughs,
community
group written
requests, plan
or ...

Resolution

### Governor, Legislature

• Direct **Funding** for Solutions



### **Commissioners DOT&PF, DPS**

- Approve Action Plans
- Require Annual Audits



## **Regional Directors to HQ**

- Recommend Action Plans
- Assign staff

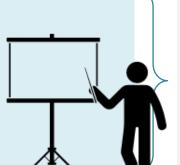


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#### Staff

## Study

- Traffic, crashes, conflicts
- Match proven countermeasures
- Write Action Plans,
   \$\$ for 4E's



## **Staff Review Team**

- EMS
- Engineers: DOT&PF
- Enforcement DPS
- Education: PR
- Human Factors: Dept Health



## Continue making all urban roads and walkways safer



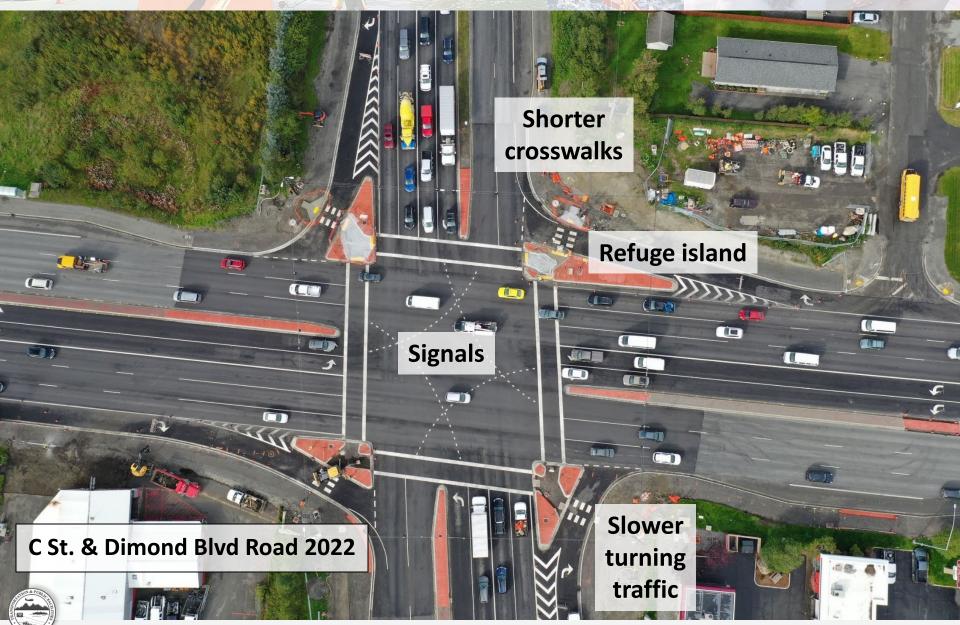
## Continue making all urban roads and walkways safer



# Continue making urban arterials safer



# Continue making urban intersections safer



# Roads are a shared system



# Pedestrian crash factors in Alaska



30% of fatal crashes are hit and run

20% of crashes, alcohol is suspected

**30%** of crashes are at signals

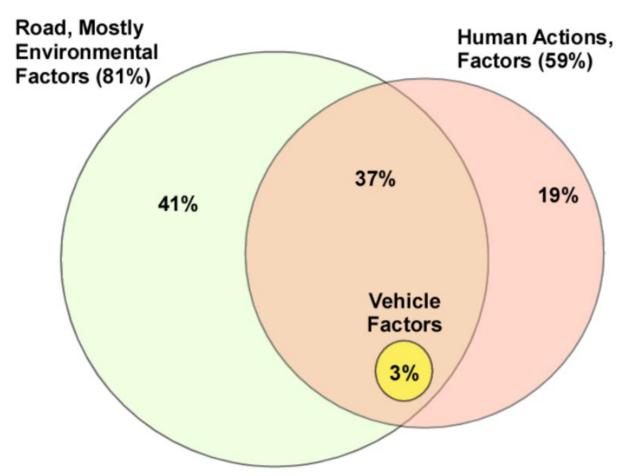
20% of crashes are at side streets with stop signs

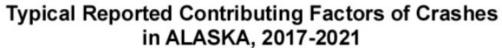
**50%** of crashes are crossing midblock

50% of crashes are on arterials—half on state roads, half on local roads

## Alaskans must work together

## The #1 safety feature in any vehicle is the DRIVER.







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