

# 2018-2022 Highway Safety Targets

## *OahuMPO Citizen Advisory Committee Memo*

October 6, 2021

### Federal Requirements:

The Federal Highway Administration's (FHWA) [Safety Performance Management Final Rule](#) requires States and MPOs to set safety performance targets for **all public roads**. The performance measures are based on 5-year rolling averages and include the following:

- Number of fatalities
- Rate of fatalities per 100 million vehicle miles traveled (VMT)
- Number of serious injuries
- Rate of serious injuries per 100 million VMT
- Number of non-motorized fatalities and number of non-motorized serious injuries

Source: [https://safety.fhwa.dot.gov/hsip/spm/mpo\\_factsheet.cfm](https://safety.fhwa.dot.gov/hsip/spm/mpo_factsheet.cfm)

### What are these Targets Used for?

Once the Policy Board adopts a set of targets, the Policy Board and MPO staff will use those targets to:

- Plan and program projects so that they contribute toward the accomplishment of those targets
- Work with the State and safety stakeholders to address areas of concern for fatalities and serious injuries
- Include these safety targets in the Oahu Regional Transportation Plan (ORTP) and Transportation Improvement Program (TIP)
- Include a description in the TIP of the anticipated effect of its projects toward achieving safety targets and link projects in the TIP to the targets

### Required Target Adoption Options:

MPO staff in conjunction with its O'ahu Regional Transportation Plan Safety Working Group prepared the following four target options for consideration. For options B, C, and D, each of the different methodologies are applied to the fatalities, serious injuries, and non-motorized fatalities and serious injuries targets. The rate of fatalities and the rate of serious injuries for Options B, C, and D, are the average of the 2016-2020 O'ahu data.

- **Option A: Adopt HDOT's targets as is**  
Hawai'i Department of Transportation's (HDOT) safety targets cover the entire state, including O'ahu. Option A would be to adopt HDOT's targets as is.
- **Option B: Adopt O'ahu Vehicle Miles Traveled Proportion of HDOT's Statewide Targets**  
Methodology: Data from HDOT on vehicle miles traveled (VMT) was used to calculate the five-year average for 2016-2020. O'ahu's VMT proportion of Statewide VMT is approximately 60.2%. For the number of traffic fatalities, number of serious injuries,

and the number of non-motorized traffic fatalities and serious injuries, Option B is 60.2% of the HDOT's Statewide targets.

- **Option C: Adopt a 2% Decrease from the O'ahu Baseline in Fatalities, Serious Injuries, and Non-Motorized Fatalities and Serious Injuries**

Methodology: Data from HDOT on O'ahu fatalities, serious injuries, and number of non-motorized traffic fatalities and serious injuries was used to calculate the five-year average from 2016-2020 to be used as a baseline. Option C is a 2% reduction in fatalities, serious injuries, and number of non-motorized traffic fatalities and serious injuries from the 2016-2020 average.

- **Option D: Adopt an Annual Reduction in Number of Fatalities to Reach Zero Deaths by 2045**

Methodology: Data from HDOT on O'ahu fatalities was used to calculate the number of deaths we need to reduce in order for us to reach zero fatalities by 2045. The five-year rolling average for 2018-2022 must be 52.5 deaths, a 2.5 persons reduction in the 2016-2020 O'ahu average number (55.0). This is about a 4.5% reduction. This percentage was also applied to the number of serious injuries and number of non-motorized traffic fatalities and serious injuries.

## Non-Required Target Adoption Options:

Through working with the Hawai'i Department of Health, the following targets were recommended for the OahuMPO Policy Board to adopt:

- Reduce annual number of serious injuries that involve speeding by 40% by 2045
- Reduce annual number of fatalities and hospitalizations for all traffic related injuries by 20% by 2045
- Reduce annual number of senior (ages 65 years and older) pedestrian fatalities and hospitalizations by 20% by 2045

## Data:

The data from the last ten years (2011-2020) on the Statewide and O'ahu number of fatalities, rate of fatalities per 100 million vehicle miles traveled (VMT), number of serious injuries, rate of serious injuries per 100 million VMT, number of non-motorized fatalities and number of non-motorized serious injuries, speed-related injuries, fatalities and hospitalizations, and senior pedestrian fatalities and hospitalizations may be viewed here: [https://oahumpo1-](https://oahumpo1-my.sharepoint.com/:x:/g/personal/kotsuka_oahumpo_org/EUGssImIQzVHil-ydILRMmUBESbEJ_qey_cwheguOexATw?e=oNPfn3)

[my.sharepoint.com/:x:/g/personal/kotsuka\\_oahumpo\\_org/EUGssImIQzVHil-ydILRMmUBESbEJ\\_qey\\_cwheguOexATw?e=oNPfn3](https://oahumpo1-my.sharepoint.com/:x:/g/personal/kotsuka_oahumpo_org/EUGssImIQzVHil-ydILRMmUBESbEJ_qey_cwheguOexATw?e=oNPfn3)