TO: CATSO Technical Committee

FROM: CATSO Staff

SUBJECT: Item 5 - FAST Act Safety Targets/Adoption of Vision Zero

DATE: February 7, 2018

The federal Map-21 legislation established, and the Fast Act continues, a performance-based approach to transportation projects. Seven national performance goals were established for the Federal-Aid Highway Program. From these seven goals, fifteen performance measures were developed for states, Metropolitan Planning Organizations (MPOs), and transit agencies, which are required to set goals and monitor progress. Safety is the second performance measure for which targets must be set. CATSO finalized and adopted Transit Asset Management performance measures in November 2017. Additional targets will be developed by CATSO as required.

Accordingly, CATSO is required to develop and adopt safety targets based on the annual number and rate of traffic fatalities and serious injuries, and the annual number of vulnerable roadway user fatalities and serious injuries, within its Metropolitan Planning Area (MPA). All Missouri MPOs, including CATSO, have the choice to adopt the safety targets set by the Missouri Department of Transportation (MoDOT) or set their own by February 27, 2018.

Given that the City of Columbia adopted a Vision Zero Action Plan in 2017, with a goal of zero traffic deaths and serious injuries by 2030, staff recommends that in lieu of the safety targets set by MoDOT, CATSO consider the adoption of Vision Zero 2030 and its corresponding safety targets. A demonstration of both sets of potential targets is provided on the following pages for the Technical Committee’s consideration.

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**MoDOT Statewide Safety Targets**

August 2017 (reported in HSP and HSIP)

Targets based on 5-year rolling average:

|  |  |
| --- | --- |
| **Performance Measure** | **Statewide Target for CY2018** |
| Number of Fatalities  | 857.7 |
| Fatality Rate per 100 Million VMT | 1.163 |
| Number of Serious Injuries  | 4,559.3 |
| Serious Injury Rate per 100 Million VMT | 6.191 |
| Number of Non-Motorized Fatalities and Serious Injuries | 431.9 |

Targets based on 7% fatality reduction, 4% serious injury reduction, 1% VMT increase and 4 % non-motorized reduction.

**Potential CATSO Safety Targets, based on MoDOT Targets**

February 2018

|  |  |  |
| --- | --- | --- |
| **Performance Measure** | **Estimated 2018 Totals Based on 5 year Rolling Avg.** | **Target for CY20181** |
| Number of Fatalities  | 15.12 | 14.04 |
| Fatality Rate per 100 Million VMT3 | 1.24 | 1.13 |
| Number of Serious Injuries  | 72.4 | 69.5 |
| Serious Injury Rate per 100 Million VMT | 5.95 | 5.57 |
| Number of Non-Motorized4 Fatalities and Serious Injuries | 11.2 | 10.75 |

1Targets based on 7% fatality reduction, 4% serious injury reduction, and 4 % non-motorized reduction.

2All numbers rounded to the nearest 10th or 100th

3 2018 CATSO VMT estimate of 1,248,011,257

4 Non-motorized fatalities and serious injuries are included in the total numbers of fatalities and serious injuries, and are also shown separately to demonstrate the data and targets related specifically to vulnerable road users.

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**Potential CATSO Safety Targets, based on Vision Zero**

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CATSO Vision Zero targets are based on the 2016 MPA fatality and serious injury rates, the year preceding the City’s 2017 adoption of the Vision Zero Action Plan. Because the plan aims to reduce all traffic related fatalities and serious injuries to zero by 2030, within 13 years, annual targets are based on an annual decrease of approximately 1.38 fatalities, 6.38 serious injuries and 1.08 non-motorized fatalities/serious injuries (based on an annual 1/13, or 7.69%, decrease from 2016 fatality and serious injury rates).

Although the below Vision Zero targets are initially lower than the state targets, the long-term nature of the targets, as integral to the 13 year plan, demonstrate greater decreases over time.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Measure** | **Actual Numbers CY2016** | **Target CY 20171** | **Target CY 2018** | **Target CY 2019** | **Target CY 2020** |
| Number of Fatalities | 18 | 16.622 | 15.24 | 13.86 | 12.48 |
| Fatality Rate per 100 Million VMT3 | 1.47 | 1.35 | 1.22 | 1.10 | 0.98 |
| Number of Serious Injuries | 83 | 76.62 | 70.24 | 63.86 | 57.48 |
| Serious Injury Rate per 100 Million VMT | 6.78 | 6.20 | 5.63 | 5.07 | 4.51 |
| Number of Non-Motorized Fatalities and Serious Injuries | 14 | 12.92 | 11.84 | 10.76 | 9.68 |

1Actual 2017 numbers have not yet been reported, but when finalized can be compared to target numbers.

2All numbers rounded to the nearest 10th or 100th.

3 MoDOT 2016 CATSO VMT estimate is 1,223,420,505. Annual 1% VMT increase for all subsequent years.

4 Non-motorized fatalities and serious injuries are included in the total numbers of fatalities and serious injuries, and are also shown separately to demonstrate the data and targets related specifically to vulnerable road users.

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***Suggested Technical Committee Action***

Staff requests that the Technical Committee make a recommendation to the Coordinating Committee on the preferred safety targets to be used and on the potential adoption of Vision Zero 2030.