# Proposed Safety Performance Measures and Short-Term Targets

Transportation Committee January 8<sup>th</sup>, 2018



# **Background on Performance Measures**

- MAP-21 (2012) established a performance and outcome based program for states and MPOs
- Used to ensure resources are invested in projects that make progress towards meeting 7 national goals
  - Safety
  - Infrastructure condition
  - Congestion reduction
  - System reliability
  - Freight movement/economic vitality
  - Environmental sustainability
  - Reduced project delivery delays



### **Background on Performance Measures**

- In order to achieve the performance goals, MAP-21 required state DOTs and MPOs to establish performance measures and specific short-range targets
- Three distinct "families" of performance measures:
  - Safety Performance Measures/HSIP (PM1)
  - Pavement/Bridge Performance Measures (PM2)
  - System Performance Measures and CMAQ (PM3)



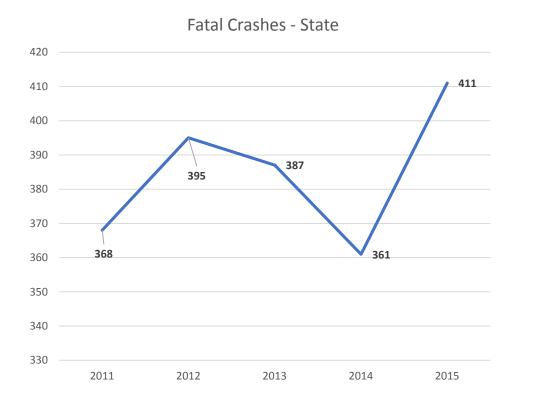
	Federal Measures and Target Setting Implementation Timeline				
	Final Rule	State Sets Targets By:	MPO Short-Term Operational	Measures	TPP and TIP Inclusion
PM1	Safety Performance Measure/HSIP	August 31st, 2017	February 27th, 2018	Annual reporting and target setting for: 1. Number of fatalities 2. Rate of fatalities (per 100 million VMT) 3. Number of serious injuries 4. Rate of serious injuries (per 100 million VMT) 5. Number of non-motorized fatalities and serious injuries	Updates or amendents after May 27th, 2018
PM2	Pavement/Bridge Performance Measures (PM2)	May 20th, 2018	180 days after state target is set (likely November 15th, 2018)	2 and 4 year targets for: Bridges: 1. % NHS bridges by deck area in good condition 2. % NHS bridges by deck area in poor condition Pavement: 1. % of interstate pavement in good condition 2. % of interstate pavement in good condition 3. % of non-interstate NHS pavement in good condition 4. % of non-interstate NHS pavement in poor condition	Updates or amendents after May 20th, 2019
PM3	System Performance Measures (Non-CMAQ	May 20th, 2018	180 days after state target is set (likely November 15th, 2018)	<ol> <li>% of reliable person-miles traveled on the interstate</li> <li>% of reliable person-miles traveled on non-interstate NHS</li> <li>% of interstate system mileage providing for reliable truck travel time</li> <li>2 and 4 year targets for interstate; 4-year targets for non- interstate</li> </ol>	Updates or amendents after May 20th, 2019
PM3	CMAQ – only applicable to Metro Area	May 20th, 2018	180 days after state target is set (likely November 15th, 2018)	<ul> <li>2 and 4 year targets while designated nonattainment/maintenance. Only 4 year if in attainment. <u>Staff is</u> working with MnDOT to establish all targets.</li> <li>1. On-road Mobile Source Emissions measure. Sum of emissions reductions of pollutants, in kilograms per day, for all projects funded with CMAQ funds.</li> <li>2. Non-Single Occupancy Vehicle measure. Percent of regional travel by non-SOV modes.</li> <li>3. Peak Hour Excessive Delay. Measured by annual hours of delay per capita. Delay is travel at less than 20 MPH or 60% of posted speed.</li> </ul>	Updates or amendents after May 20th, 2019

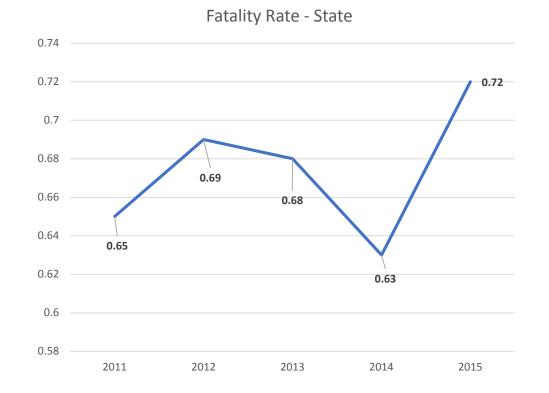
# Safety Performance Measures (PM1)

- 5 federally-required performance measures
  - 1. Number of traffic fatalities
  - 2. Rate of fatalities (per 100 million vehicle miles travelled)
  - 3. Number of traffic crashes involving serious injuries
  - 4. Rate of serious injury crashes (per 100 million vehicle miles travelled)
  - 5. Number of non-motorized fatalities and serious injuries



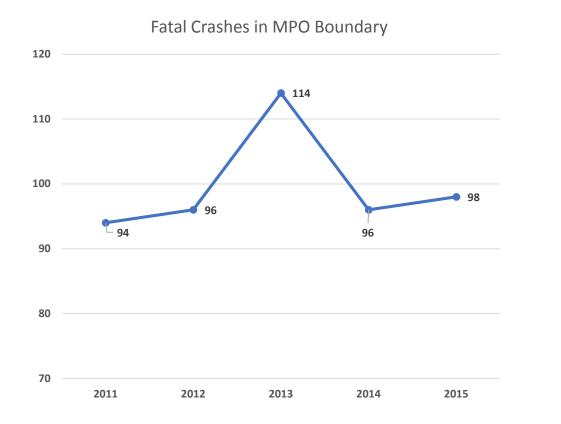
# **Traffic Fatality Trends (state-wide)**

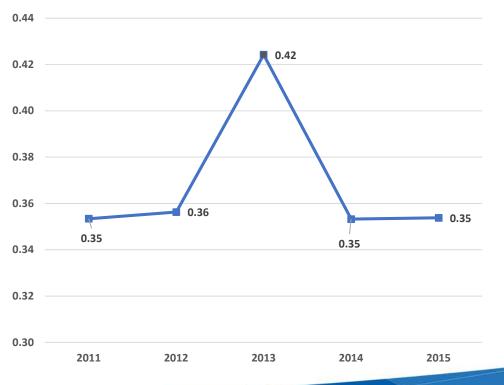






### **Traffic Fatality Trends in Metro Area**

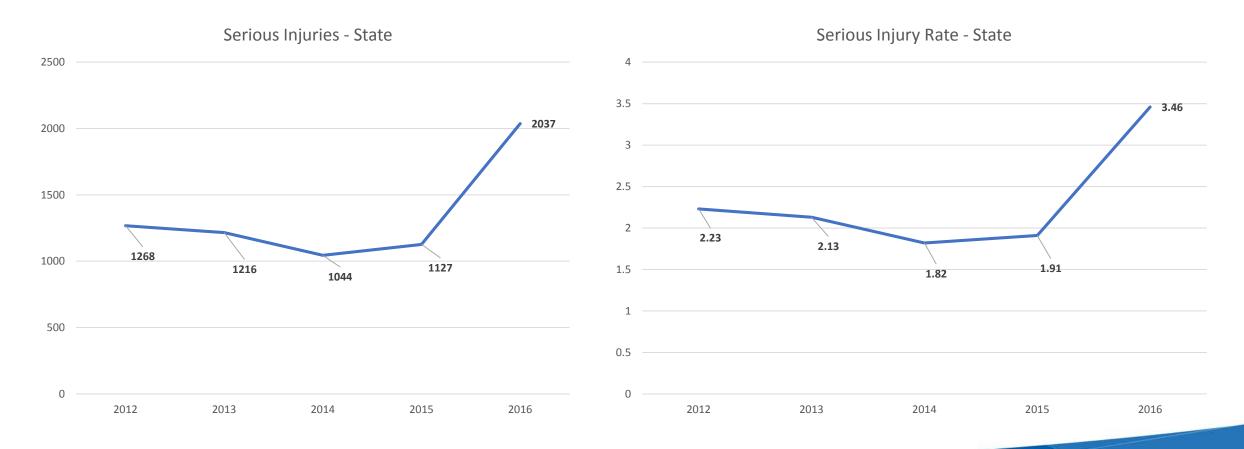




Fatal Crash Rate in MPO Boundary

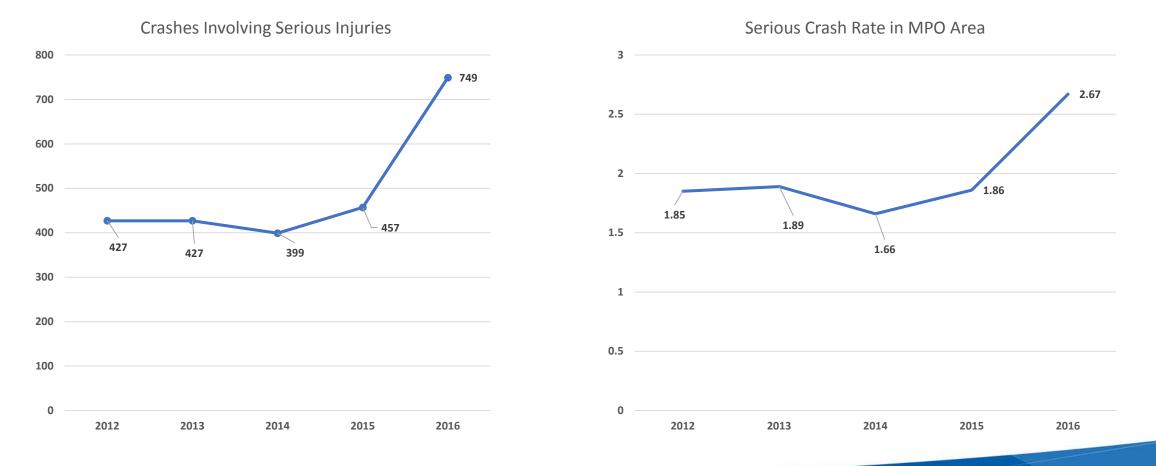


# Serious Injury Trends (state-wide)



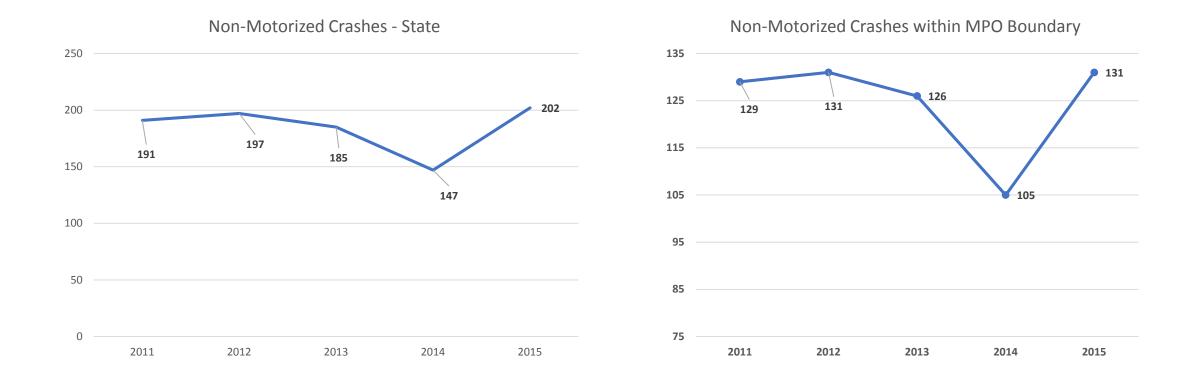


# **Serious Injury Trends in Metro Area**





### **Non-Motorized Fatal/Serious Injury Trends**



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### **MnDOT's Adopted 2018 Targets (state-wide)**

1. Total traffic fatalities: 375

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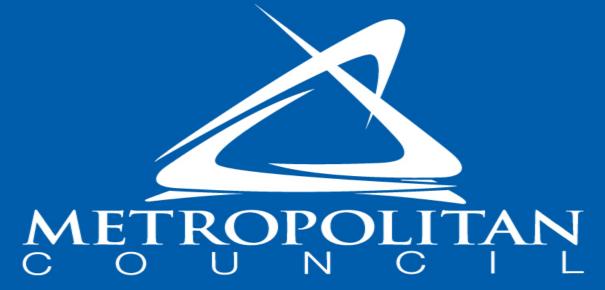
- 2. Fatality rate (per 100 million VMT): 0.62
- 3. Serious injury crashes: 1,935
- 4. Serious injury crash rate (per 100 million VMT): 3.19
- 5. Non-motorized fatalities/serious injuries: 348



#### **Proposed Metropolitan Council Short-Term Targets**

- 1. Total traffic fatalities: 89
- 2. Fatality rate (per 100 million VMT): 0.31
- 3. Serious injury crashes: 642
- 4. Serious injury crash rate (per 100 million VMT): 2.35
- 5. Non-motorized fatalities/serious injuries: 112





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