# PM1: SAFETY PERFORMANCE MEASURES SNHPC 2023

Southern New Hampshire Planning Commission Technical Advisory Committee January 19, 2023

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# Background:

Transportation Performance Management

# PM1: Safety Performance Measures

FAST Act requires DOTs to measure and report performance in the following areas:

- <u>Safety</u>
- Pavement and bridge
- System performance/ congestion
- Freight movement, and
- Congestion mitigation and air quality (CMAQ).



# Background Info – Federal Legislation and Safety Performance

What are the Five Federally-required safety measures?



### 1. Number of Fatalities

The 5-year average of the total number of persons suffering fatal injuries in a motor vehicle crash during a calendar year.

### 2. Rate of Fatalities

The 5-year average of the ratio of the number of fatalities to the number of vehicle miles traveled (VMT, in 100 Million VMT) in a calendar year.

# 3. Number of Serious Injuries

The 5-year average of the total number of persons suffering at least one serious injury in a motor vehicle crash during a calendar year.

# 4. Rate of Serious Injuries

The 5-year average of the ratio of the number of serious injuries to the number of VMT (in 100 Million VMT) in a calendar year.

# 5. Number of Non-Motorized Fatalities and Non-motorized Serious Injuries

The 5-year average of the combined total number of non-motorized fatalities and non-motorized serious injuries involving a motor vehicle during a calendar year.

# Federal Legislation and State-level Safety Performance Targets

States set safety performance targets:



MPOs including SNHPC are allowed the flexibility to set their own safety targets

<u>OR</u>

MPOs may support the Statelevel performance targets

For 2023 SNHPC Recommends:

Support State Targets FOR 2023

**EXCEPT** 

That SNHPC adopt A REGIONAL target for the Fatality Rate.

SNHPC Safety Performance Measures (PM1) 2023

Measure 1: Number of Fatalities (Five-Year Moving Average)



Measure 1: Projected Number of SNHPC Fatalities

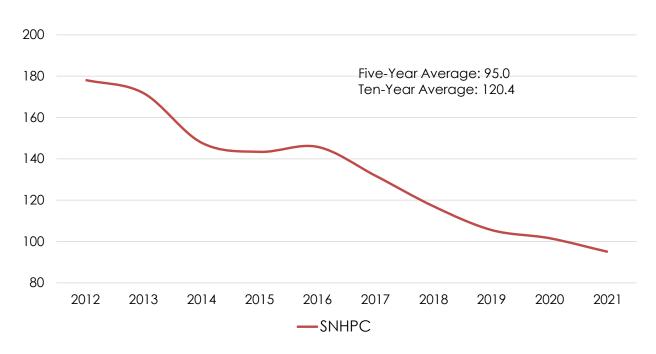


Measure 2: Fatality Rate (Five-Year Moving Average) 1.0 0.9 8.0 0.7 Five-Year Average: 0.706 Ten-Year Average: 0.717 0.6 0.5 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 —SNHPC —State

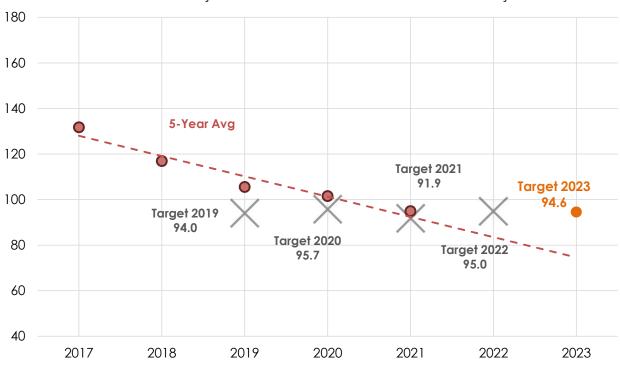
Measure 2: Projected SNHPC Fatality Rate



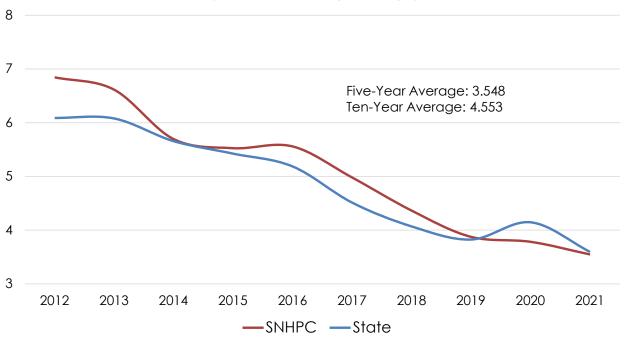
Measure 3: Number of Serious Injuries (Five-Year Moving Average)



Measure 3: Projected Number of SNHPC Serious Injuries



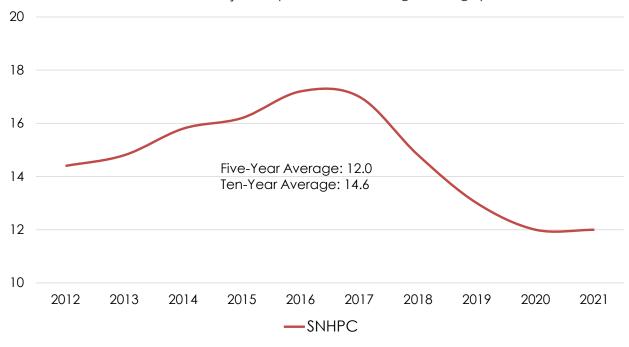
Measure 4: Serious Injury Rate (Five-Year Moving Average)



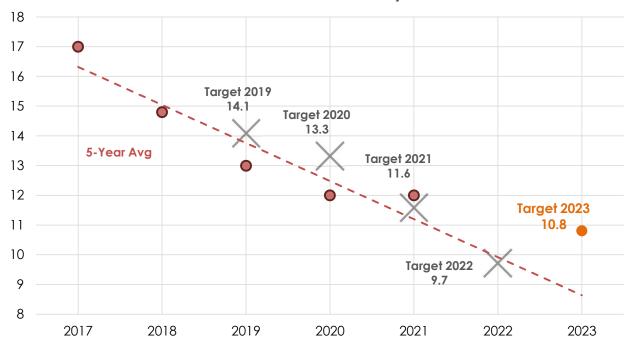
Measure 4: Projected SNHPC Serious Injury Rate



Measure 5: Number of Non-motorized Fatalities and Serious Injuries (Five-Year Moving Average)



Measure 5: Projected Number Non-motorized Fatalities and Serious Injuries



# State-level 2023 Safety Performance Targets

Safety Measures				
Number of Fatalities				
Fatality Rate per 100 Million VMT				
Number of Serious Injuries				
Serious Injury Rate per 100 Million VMT				
Non-Motorized Fatalities and Serious Injuries				

	State Five-Year F	Tre	ends	State Target	
	2016-2020	2017-2021	Recent	Desired	2023 Target
	118.0	114.4	<b>\</b>	<b>↓</b>	115.2
	0.879	0.857	$\rightarrow$	$\downarrow$	0.861
	509.6	472.2	$\downarrow$	$\downarrow$	472.7
	4.146	3.596	<b>\</b>	<b>\</b>	3.559
S	48.6	42.8	$\downarrow$	<b>\</b>	33.2

# 2023 Proposed SNHPC Regional Safety Performance Targets

	SNHPC Five-Year Ro	olling Averages	Tre	nds	State Target	SNHPC Recommended Target
Safety Measures	2016-2020	2017-2021	Recent	Desired		2023
Number of Fatalities	18.2	18.8	<b>↑</b>		115.2	Support State Target (approx. 19 regionally)
Fatality Rate per 100 Million VMT	0.681	0.706	$\uparrow$		0.861	Adopt Regional Target: 0.750
Number of Serious Injuries	101.6	95.0	$\downarrow$		472.7	Support State Target (approx. 95 regionally)
Serious Injury Rate per 100 Million VMT	3.784	3.548	$\downarrow$		3.559	Support State Target
Non-Motorized Fatalities and Serious Injuries	12.0	12.0	-		33.2	Support State Target (approx. 11 regionally)

## SNHPC 2023 Safety Performance Targets (Proposed)

## **Safety Measures**

Number of Fatalities
Fatality Rate per 100 Million VMT
Number of Serious Injuries
Serious Injury Rate per 100 Million VMT
Non-Motorized Fatalities and Serious Injuries

## **State Target SNHPC Target**

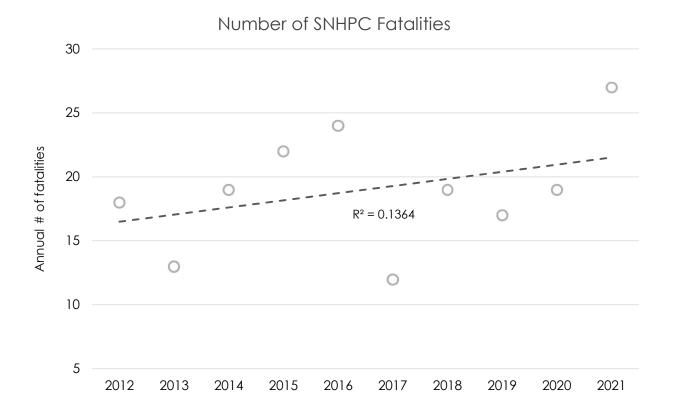
20	023	Action		
115.2	19.1	Support State Target		
0.861	0.750	Regional Target		
472.7	94.6	Support State Target		
3.559	3.559	Support State Target		
33.2	10.8	Support State Target		

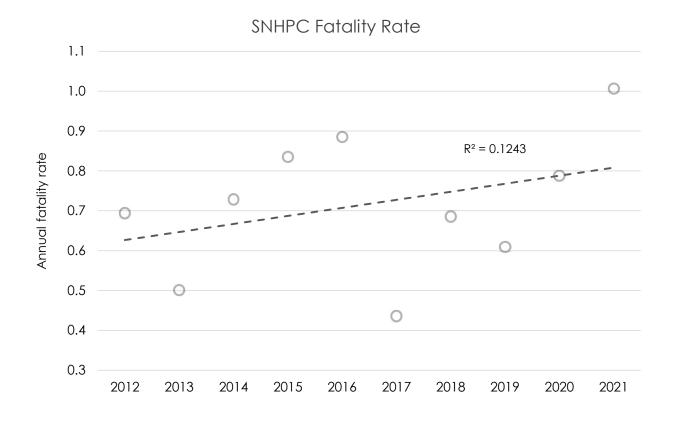
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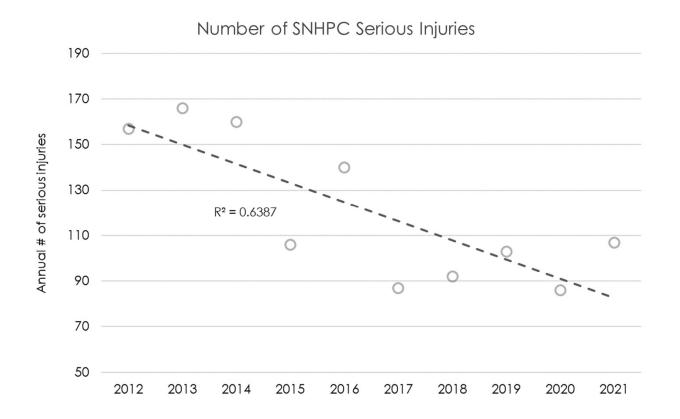
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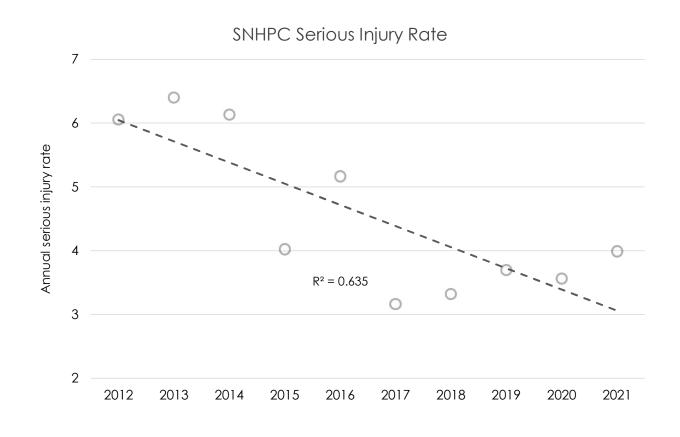
438 Dubuque St Manchester, NH 03102 (603)669-4664 Questions?











# Number of SNHPC Non-motorized Fatalities and Serious Injuries

