

NRPC

# 2023 Highway Safety Performance Measure (PM1) Targets

*(TTAC Meeting December 14<sup>th</sup>, 2022)*

# Safety Performance Targets

## Today's Discussion

- Summarize the November conversation
- Updated summary table
- Adopt 2023 targets

# Safety Performance Targets

## Background

- FHWA rule (23 CFR Part 924) on the Highway Safety Improvement Program (HSIP).
- Requires State DOTs to set targets for Safety Performance (PM1) by August 31<sup>st</sup> for each calendar year.
- Requires MPOs to set regional targets 180 days after that – late February of the following (2023) calendar year.
- The targets are re-set each year and must be approved by the NRPC TTAC and MPO.

# Safety Performance Targets

## Safety Performance Measures

- 1. *Number of Fatalities:*** The total number of persons suffering fatal injuries in a motor vehicle crash during a calendar year.
- 2. *Rate of Fatalities:*** The number of fatalities per 100 Million Vehicle Miles Travelled (VMT), in a calendar year.
- 3. *Number of Serious Injuries:*** 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 number of serious injuries per 100 Million VMT, in a calendar year.
- 5. *Number of Non-Motorized Fatalities and Non-motorized Serious Injuries:*** The combined total number of non-motorized fatalities and non-motorized serious injuries involving a motor vehicle during a calendar year.

# Safety Performance Targets

## Data Sources

- **Fatality Analysis Reporting System (FARS):** Federal FARS Annual Report data is utilized to provide information on fatal crashes in the state/region.
- **State Motor Vehicle Crash Database:** Data collected and maintained by the NH Department of Safety is utilized to determine the number of serious injury crashes in the state/region.
- **Highway Performance Monitoring System (HPMS):** State VMT data is collected by the NHDOT and aggregated into a dataset for the state. VMT data can be calculated for MPO regions and individual communities.

# Safety Performance Targets

## Target Development – NRPC MPO

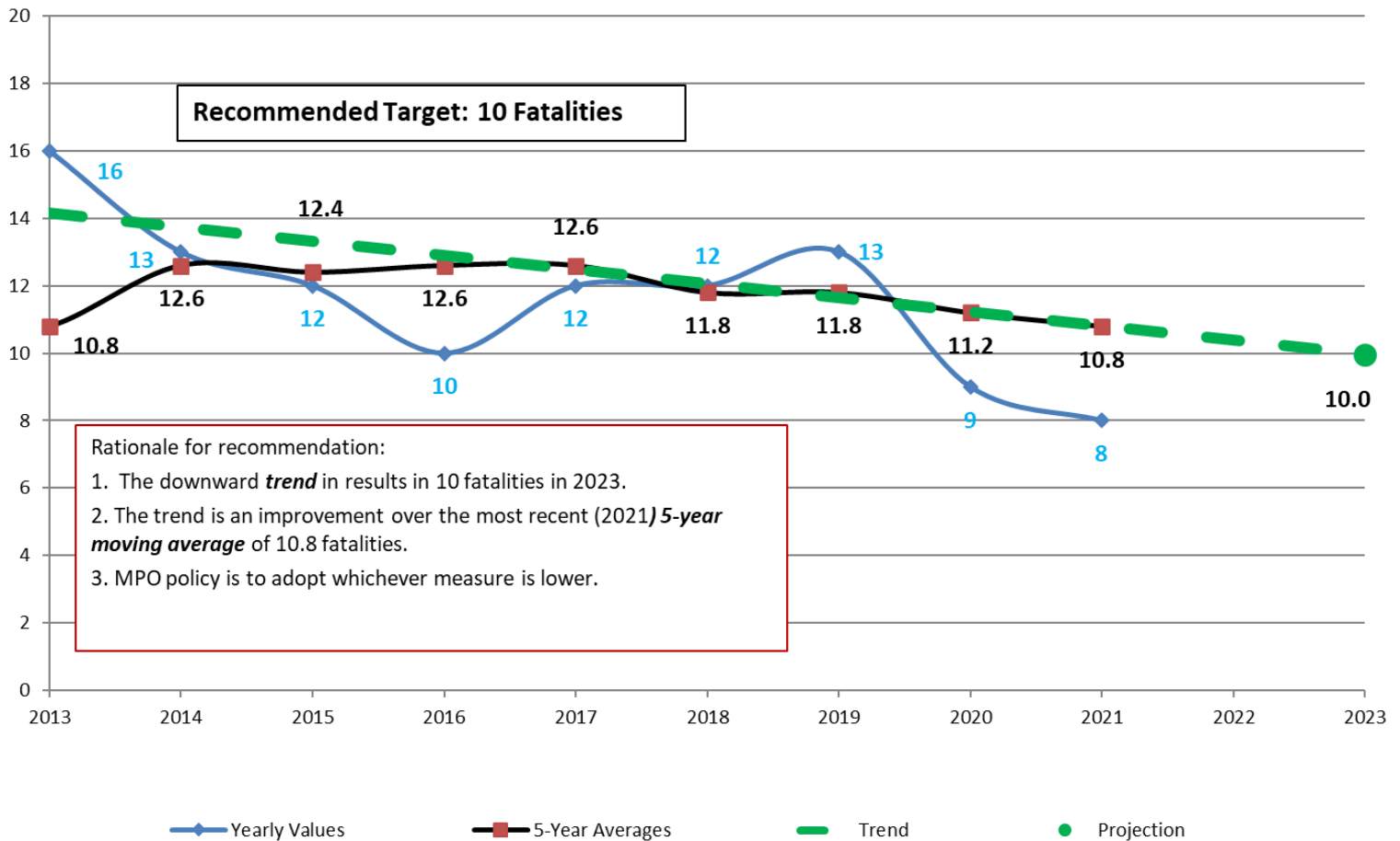
- As adopted by the NRPC TTAC and MPO Policy Committee in February 2019,
- Future year targets are set in the following manner:
  - The most recent *five-year moving average* for each measure
  - or -
  - The longer- term *trend* for each measure
  - **Whichever is lower**

# Safety Performance Targets

# of Fatalities				
State of NH			NRPC Region	
Year	Fatalities	5-year Average	Fatalities	5-year Average
2007	129	n/a	17	N/A
2008	138	n/a	13	N/A
2009	110	n/a	4	N/A
2010	128	n/a	13	N/A
2011	90	119.0	9	11.2
2012	108	114.8	12	10.2
2013	135	114.2	16	10.8
2014	95	111.2	13	12.6
2015	114	108.4	12	12.4
2016	136	117.6	10	12.6
2017	102	116.4	12	12.6
2018	147	118.8	12	11.8
2019	101	120.0	13	11.8
2020	104	118.0	9	11.2
<b>2021</b>	<b>118</b>	<b>114.2</b>	<b>8</b>	<b>10.8</b>

# Safety Performance Targets

## # of Fatalities - 2023 Projection NRPC Region





# Safety Performance Targets

	5-Year Moving Averages Used for Establishing Trends											2022	2023
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Target	Target
Fatality Total	11.2	10.2	10.8	12.6	12.4	12.6	12.6	11.8	11.8	11.2	10.8	11.2	<b>10.0</b>
Fatality Rate	0.689	0.635	0.674	0.786	0.774	0.779	0.771	0.711	0.701	0.674	0.653	0.735	<b>0.593</b>
Serious Injury Total	74.2	75.6	73.2	69.4	68.2	68.6	63.6	59.6	59.4	56.2	50.2	54.8	<b>45.7</b>
Serious Injury Rate	4.59	4.71	4.57	4.34	4.26	4.23	3.88	3.59	3.54	3.40	3.05	3.270	<b>2.753</b>
Non-Motorized Fatal + Serious Injuries	6.2	5.4	6.8	7.2	8.2	7.8	8.6	7.4	7.8	6.8	6.8	6.8	<b>5.8</b>

# Safety Performance Targets

	5-Year Moving Averages Used for Establishing Trends											2022	2023
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Target	Target
Fatality Total	11.2	10.2	10.8	12.6	12.4	12.6	12.6	11.8	11.8	11.2	10.8	11.2	10.0
Fatality Rate	0.689	0.635	0.674	0.786	0.774	0.779	0.771	0.711	0.701	0.674	0.653	0.735	0.593
Serious Injury Total	74.2	75.6	73.2	69.4	68.2	68.6	63.6	59.6	59.4	56.2	50.2	54.8	45.7
Serious Injury Rate	4.59	4.71	4.57	4.34	4.26	4.23	3.88	3.59	3.54	3.40	3.05	3.270	2.753
Non-Motorized Fatal + Serious Injuries	6.2	5.4	6.8	7.2	8.2	7.8	8.6	7.4	7.8	6.8	6.8	6.8	5.8

# Safety Performance Targets

## Further Discussion..

- Motion:
  - The Nashua Regional Planning Commission TTAC recommends that the Nashua Metropolitan Planning Organization adopt the 2023 Highway Safety Performance Targets as presented.

# Safety Performance Targets

**Thank you!**

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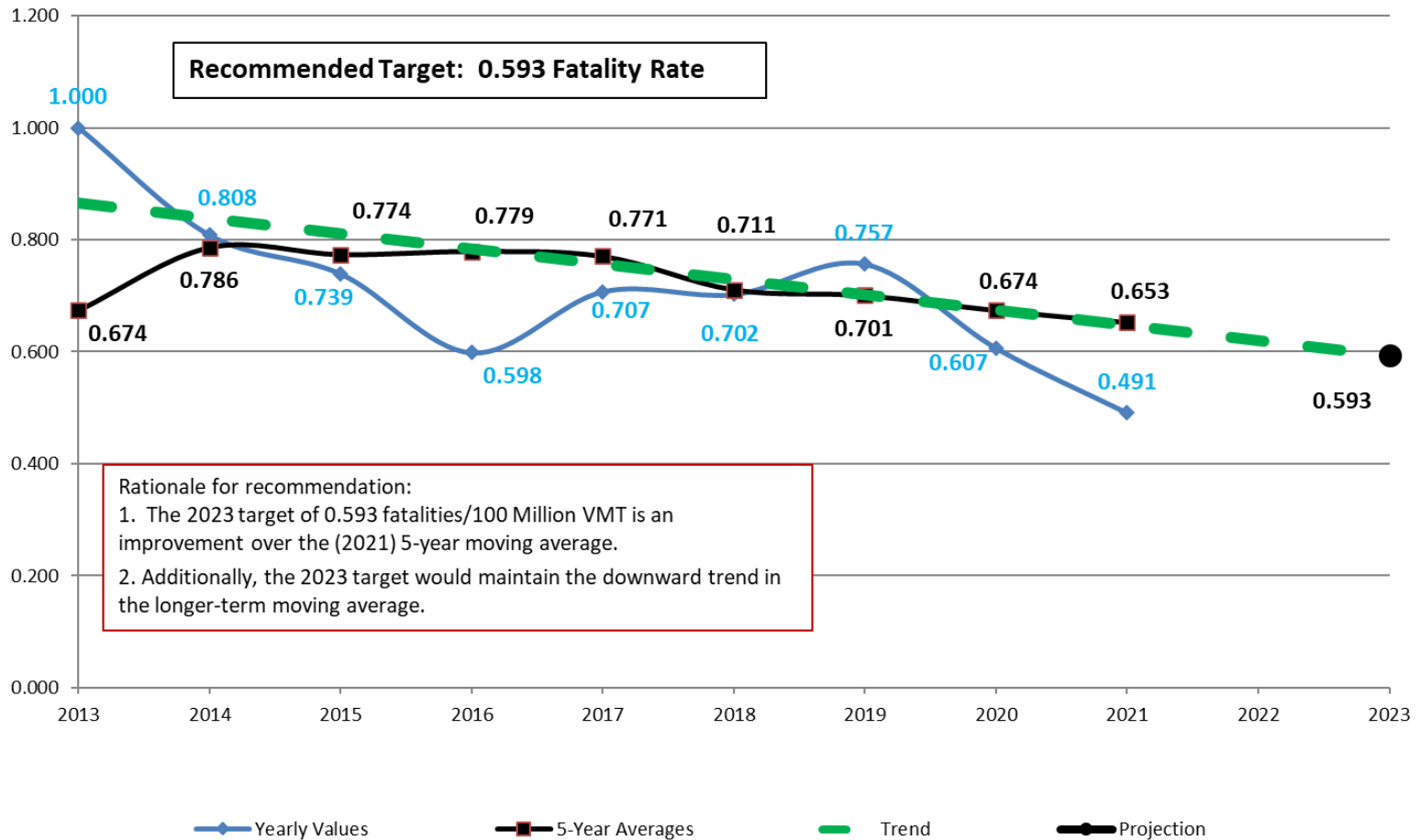
# Safety Performance Targets

## Rate of Fatalities

Year	State of NH		NRPC Region	
	Rate of Fatalities	5-year Average	Rate of Fatalities	5-year Average
2007	0.958	n/a	1.019	N/A
2008	1.058	n/a	0.804	N/A
2009	0.848	n/a	0.249	N/A
2010	0.980	n/a	0.802	N/A
2011	0.708	0.910	0.571	0.689
2012	0.838	0.886	0.751	0.635
2013	1.046	0.884	1.000	0.674
2014	0.732	0.861	0.808	0.786
2015	0.871	0.839	0.739	0.774
2016	1.009	0.899	0.598	0.779
2017	0.746	0.881	0.707	0.771
2018	1.067	0.885	0.702	0.711
2019	0.729	0.884	0.757	0.701
2020	0.870	0.884	0.607	0.674
<b>2021</b>	<b>0.898</b>	<b>0.861</b>	<b>0.491</b>	<b>0.653</b>

# Safety Performance Targets

## Fatality Rate (per 100 Million VMT) - 2023 Projection NRPC Region

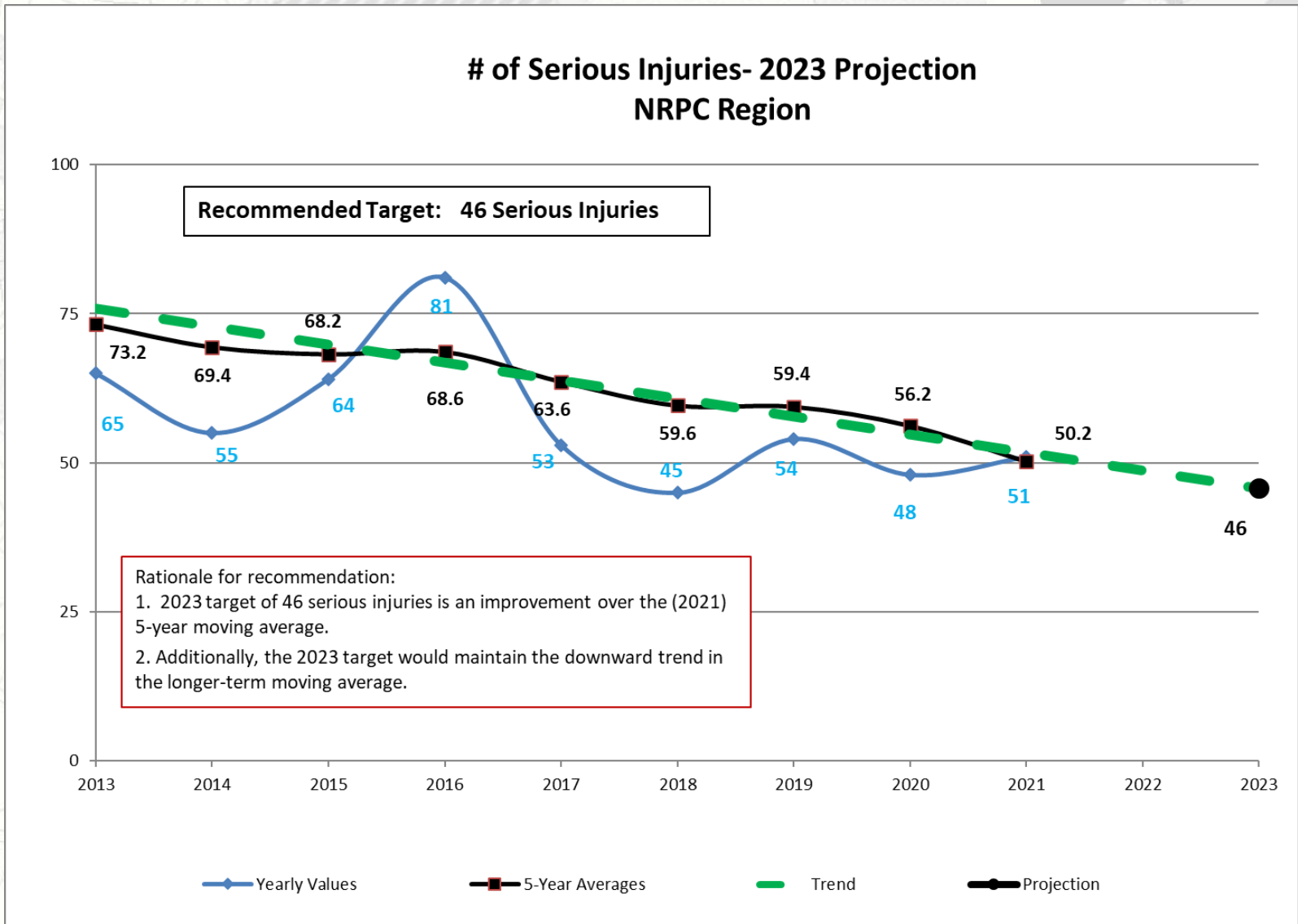


# Safety Performance Targets

## # of Serious Injuries

Year	State of NH		NRPC Region	
	Serious Injuries	5-yr Ave	Serious Injuries	5-year Average
2007	N/A	N/A	71	N/A
2008	N/A	N/A	77	N/A
2009	667	N/A	74	N/A
2010	528	N/A	70	N/A
2011	462	552.3	79	74.2
2012	623	570.0	78	75.6
2013	489	553.8	65	73.2
2014	451	510.6	55	69.4
2015	459	496.8	64	68.2
2016	477	499.8	81	68.6
2017	410	457.2	53	63.6
2018	451	449.6	45	59.6
2019	485	456.4	54	59.4
2020	512	467.0	48	56.2
<b>2021</b>	<b>482</b>	<b>466.4</b>	<b>51</b>	<b>50.2</b>

# Safety Performance Targets





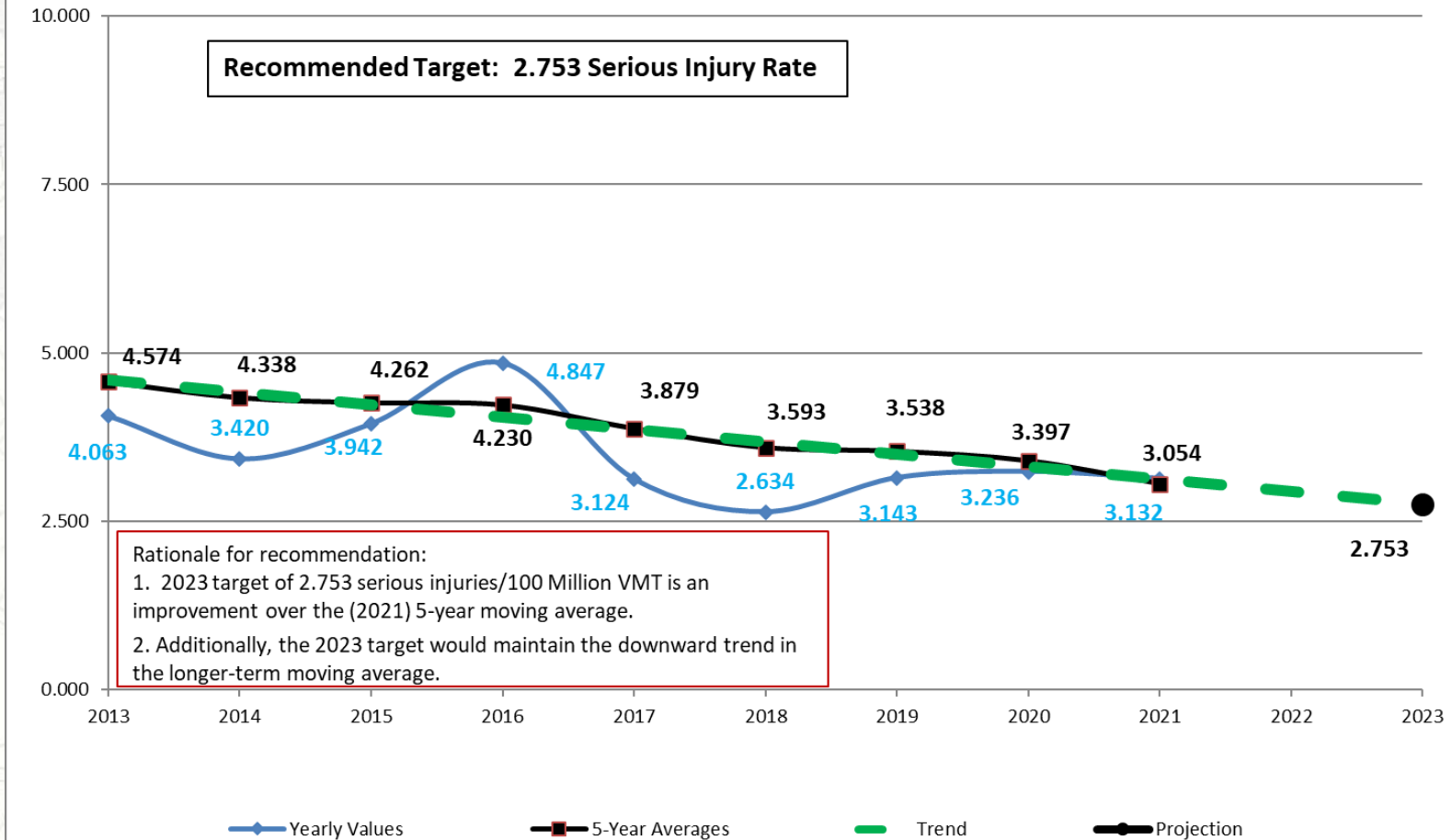
# Safety Performance Targets

## Rate of Serious Injuries

Year	State of NH		NRPC Region	
	Rate of Serious Injures	5-yr Ave	Rate of Serious Injures	5-year Average
2007	N/A	N/A	4.254	N/A
2008	N/A	N/A	4.762	N/A
2009	N/A	N/A	4.599	N/A
2010	N/A	N/A	4.321	N/A
2011	3.632	N/A	5.009	4.589
2012	4.832	N/A	4.878	4.714
2013	3.790	4.085	4.063	4.574
2014	3.477	3.933	3.420	4.338
2015	3.505	3.847	3.942	4.262
2016	3.540	3.829	4.847	4.230
2017	2.997	3.462	<b>3.124</b>	3.879
2018	3.270	3.358	<b>2.634</b>	3.593
2019	3.500	3.362	<b>3.143</b>	3.538
2020	4.285	3.518	<b>3.236</b>	3.397
<b>2021</b>	<b>3.670</b>	<b>3.532</b>	<b>3.132</b>	<b>3.054</b>

# Safety Performance Targets

## Serious Injury Rate (per 100 Million VMT) - 2023 Projection NRPC Region



# Safety Performance Targets

## # of Non-Motorized Fatal & Serious Injuries

State of NH			NRPC Region	
Year	Non-Motorized Fatalities & Serious Injuries	5-yr Ave	Non-Motorized Fatalities & Serious Injuries	5-year Average
2007		N/A	12	N/A
2008		N/A	2	N/A
2009		N/A	4	N/A
2010		N/A	5	N/A
2011	52	52.0	8	6.2
2012	58	55.0	8	5.4
2013	56	55.3	9	6.8
2014	52	54.5	6	7.2
2015	64	56.4	10	8.2
2016	41	54.2	6	7.8
2017	62	55.0	12	8.6
2018	39	51.6	3	7.4
2019	37	48.6	8	7.8
2020	34	42.6	5	6.8
<b>2021</b>	<b>39</b>	<b>41.6</b>	<b>6</b>	<b>6.8</b>

# Safety Performance Targets

## Non-Motorized Fatalities/Serious Injuries- 2023 Projection NRPC Region

