



# System Performance Measures Update

## Non-Single Occupancy Vehicle (non-SOV) Travel

# Performance Measures Background

- In 2016, FHWA passed a rule establishing three performance measures (PM1, PM2, and PM3) that State DOTs and MPOs must track, as required by MAP-21 and the FAST Act, continued by BIL.

PM1

- Improving safety

PM2

- Maintaining pavement and bridge conditions

PM3

- Improving efficiency of the system and freight movement
- Reducing traffic congestion
- Reducing emissions

# Required Performance Measures under PM3

## Reliability

- Level of Travel Time Reliability (LOTTTR) on both the Interstate System and non-Interstate NHS
- Level of *Truck* Travel Time Reliability (TTTR)

## Congestion

- Percentage of non-single occupancy vehicle travel
- Peak hour excessive delay (PHED)

## Emissions

- Total reduction of on-road mobile source emissions from projects funded under the Congestion Mitigation & Air Quality (CMAQ) program

# Percentage of Non-SOV Travel

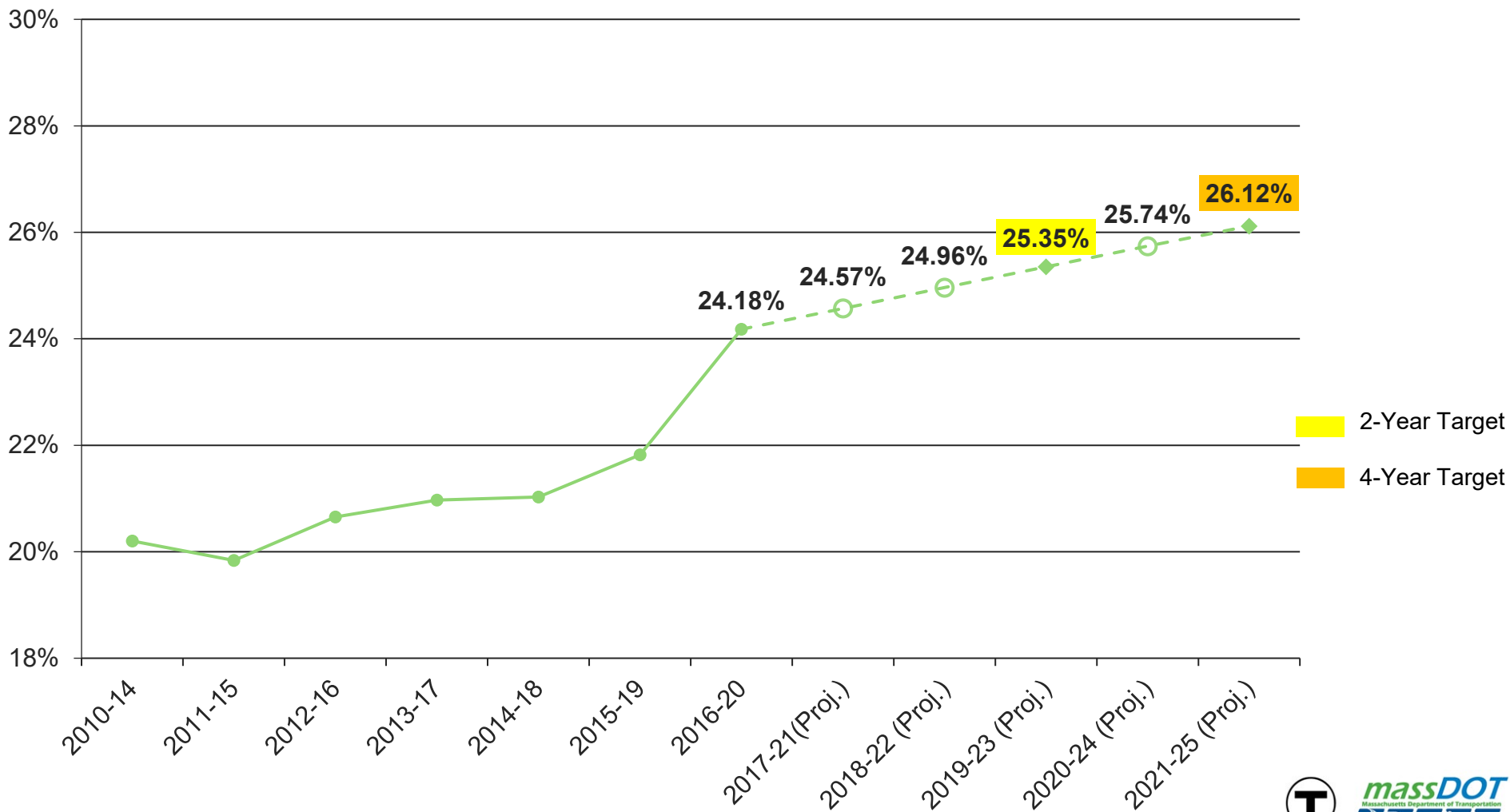
- The metric for non-SOV travel is based on the percentage of people commuting to work using a mode other than a single occupancy vehicle (e.g. carpool, van, public transit, walking, bicycling, or telecommuting).
- Reporting Requirements:
  - Must be reported on the **urbanized area (UZA)** level for the Boston UZA, which includes parts of NH and RI.
  - Worcester UZA, which includes parts of CT.
  - Springfield UZA, which includes parts of CT.

# Means of Transportation to Work - Worcester UZA

	Worcester, MA--CT Urbanized Area (2010)						
	2016	2017	2018	2019	2020	2021	2022
<b>Workers 16 years and over</b>	242,150	243,354	244,892	247,569	250,043	259,570	241,415
<b>Car, truck, or van:</b>	89.20%	88.50%	88.10%	87.13%	84.78%	82.52%	79.06%
<b>Drove alone</b>	79.92%	79.71%	79.60%	78.99%	76.62%	74.33%	71.05%
<b>Carpooled:</b>	9.28%	8.79%	8.50%	8.14%	8.17%	8.19%	8.01%
<b>Public transportation (excluding taxicab):</b>	1.94%	1.97%	1.87%	2.11%	1.94%	1.73%	1.76%
<b>Bicycle</b>	0.18%	0.98%	0.95%	1.09%	0.98%	0.87%	0.82%
<b>Walked</b>	3.25%	3.21%	3.46%	3.60%	3.65%	3.30%	3.18%
<b>Taxicab, motorcycle, or other means</b>	1.13%	1.37%	1.62%	1.76%	1.83%	2.03%	2.26%
<b>Worked at home</b>	4.31%	4.76%	4.78%	5.26%	7.63%	10.23%	13.62%

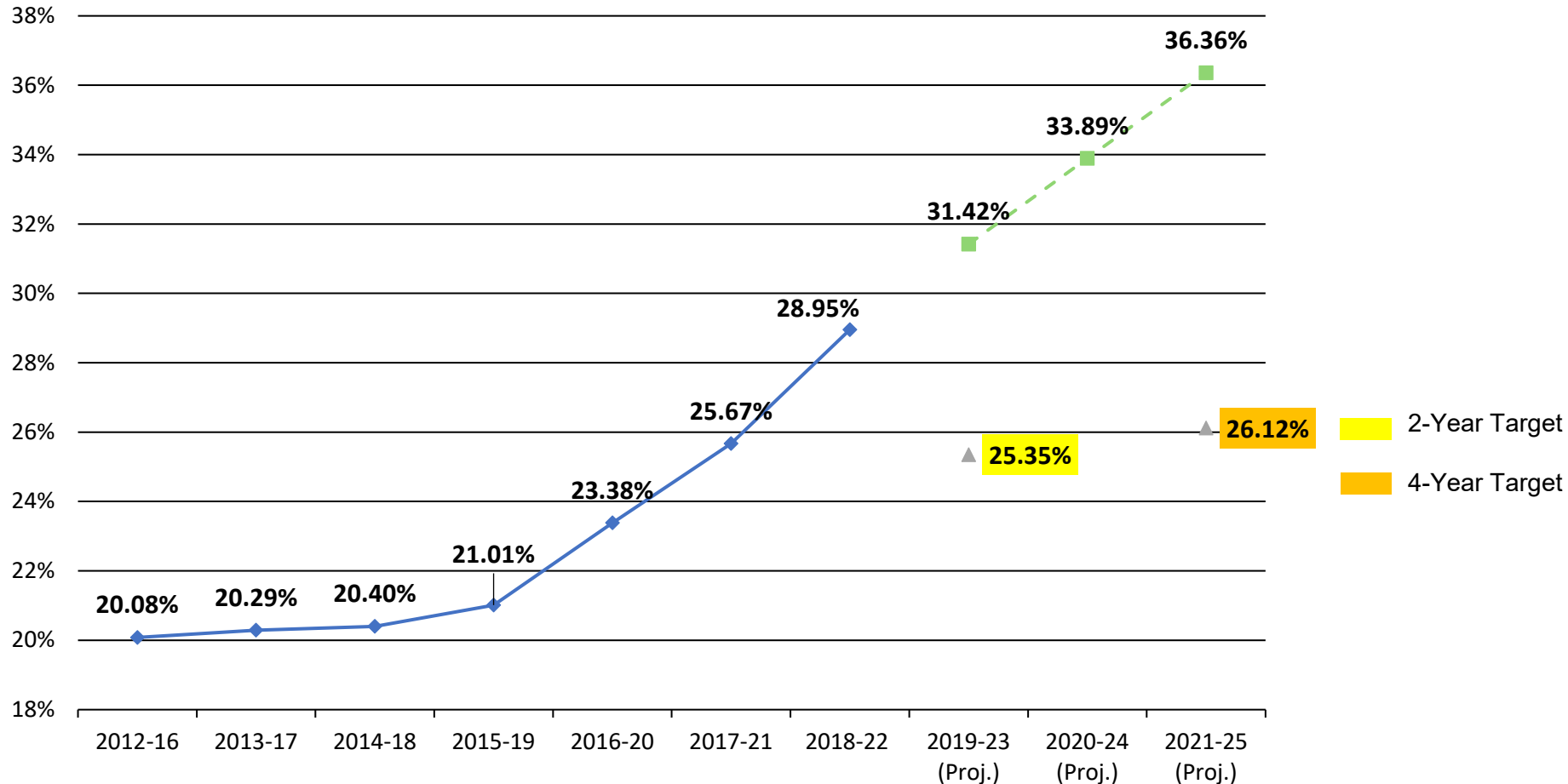
# Percentage of Non-SOV Travel – Worcester

- Pre-COVID trends and projection from 2022



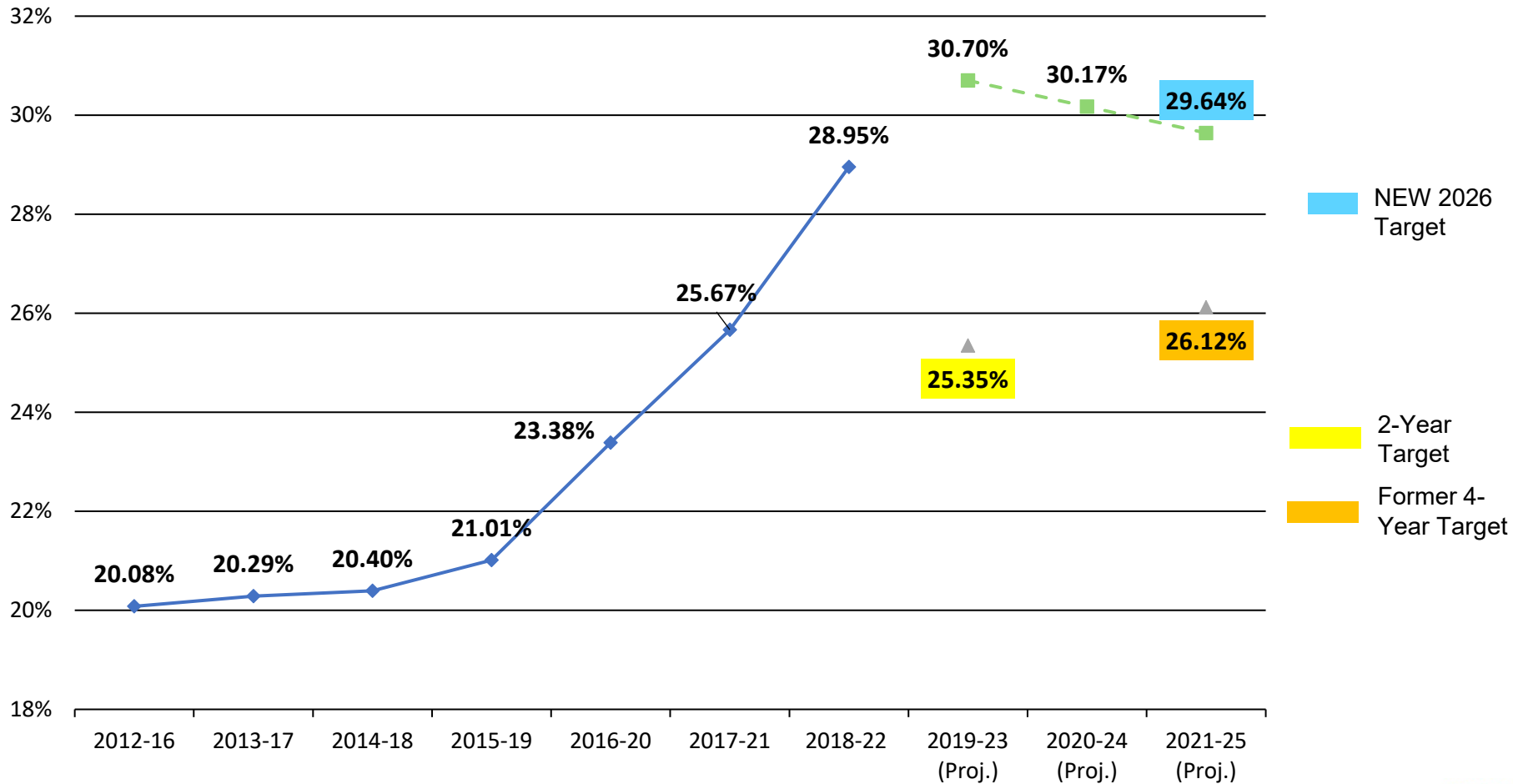
# Percentage of Non-SOV Travel- Worcester

- Trends using latest data, if previous methodology was applied



# Percentage of Non-SOV Travel- Worcester

- Latest data and trend with adjusted methodology





# Summary

<b>Measure</b>	<b>Baseline Figure (2021)</b>	<b>2-Year Target</b>	<b>4-Year Target</b>	<b>Mid-Performance Value (5-Year ACS)</b>	<b>Adjusted 4-Year Target</b>
Non-SOV Travel	Boston: 36.9%	Boston: 38.8%	Boston: 39.8%	Boston: 41.36%	Boston: 42.6%
	Springfield: 21.5%	Springfield: 22.2%	Springfield: 22.2%	Springfield: 22.49%	Springfield: 22.7%
	Worcester: 23.4%	Worcester: 25.4%	Worcester: 26.1%	Worcester: 28.95%	Worcester: 29.6%