

Figure 12

Transportation National Goals, Performance Measures and Targets				
<i>National Goal</i>	<i>Performance Measure</i>	<i>Baseline (2012-2016)</i>	<i>Performance Target for 2014-2018<sup>1</sup></i>	<i>Status for TDOT/MTPO</i>
<b>Safety</b>	Total number of traffic-related fatalities on all public roads	995.6	1,021.4	Targets established by TDOT on August 31, 2017 and by Johnson City MTPO on December 21, 2017
	Rate of traffic-related fatalities on all public roads per 100 million VMT <sup>2</sup>	1.358	1.337	
	Total number of traffic-related serious injuries on all public roads	7,319.4	7,630.8	
	Rate of traffic-related serious injuries on all public roads per 100 million VMT	9.976	9.982	
	Total number of non-motorized fatalities and serious injuries on all public roads	434.6	493.2	
<b>Infrastructure Condition - Pavement</b>	Percentage of pavements on the Interstate System in Good condition	To be determined	To be determined	Targets established by TDOT on May 20, 2018; Johnson City MTPO to establish before November 16, 2018
	Percentage of pavements on the Interstate System in Poor condition	To be determined	To be determined	
	Percentage of the non-interstate National Highway System in Good condition	To be determined	To be determined	
	Percentage of the non-interstate National Highway System in Poor condition	To be determined	To be determined	
<b>Infrastructure Condition - Bridge</b>	Percentage of National Highway System bridges classified as in Good condition	To be determined	To be determined	
	Percentage of National Highway System bridges classified as in Poor condition	To be determined	To be determined	

<sup>1</sup> The five-year rolling average is calculated by adding the number of fatalities for the consecutive five-year period, dividing by five, and rounding to the tenth decimal place.

<sup>2</sup> VMT – Vehicle Miles Traveled

<b>Congestion Reduction</b>	Annual Hours of Peak Hour Excessive Delay Per Capita		To be determined	Targets established by TDOT on May 20, 2018; Johnson City MTPO to establish before November 16, 2018
	Percentage of Non-Single Occupancy Vehicle (SOV) Travel		To be determined	
<b>System Reliability</b>	Percentage of the Person-Miles Traveled on the Interstate that are reliable		To be determined	Targets established by TDOT on May 20, 2018; Johnson City MTPO to establish before November 16, 2018
	Percentage of the Person-Miles Traveled on the Non-Interstate National Highway System that are reliable		To be determined	
<b>Freight Movement &amp; Economic Vitality</b>	Percentage of Interstate System mileage providing reliable truck travel time		To be determined	Targets established by TDOT on May 20, 2018; Johnson City MTPO to establish before November 16, 2018
<b>Environmental Sustainability</b>	Total emissions reductions by applicable pollutants under the CMAQ program	Not applicable to the Johnson City MTPO Area, which is in attainment and is not eligible for CMAQ funding	MTPO – not applicable	TDOT to establish before May 20, 2018; Johnson City MTPO – not applicable

Figure 12 (PM1)

<b>Transportation National Goals, Performance Measures and Targets</b>				
<b>National Goal</b>	<b>Performance Measure</b>	<b>Baseline (2013-2017)</b>	<b>Performance Target for 2015-2019<sup>1</sup></b>	<b>Status for TDOT/MTPO</b>
<b>Safety</b>	Total number of traffic-related fatalities on all public roads	1,000.6	1,022.0	Targets established by TDOT on August 31, 2018 and by Johnson City MTPO on November 14, 2018
	Rate of traffic-related fatalities on all public roads per 100 million VMT <sup>2</sup>	1.329	1.291	
	Total number of traffic-related serious injuries on all public roads	7,227.6	7,374.6	
	Rate of traffic-related serious injuries on all public roads per 100 million VMT	9.594	9.324	
	Total number of non-motorized fatalities and serious injuries on all public roads	467.4	546.8	

<sup>1</sup> The five-year rolling average is calculated by adding the number of fatalities for the consecutive five-year period, dividing by five, and rounding to the tenth decimal place.

<sup>2</sup> VMT – Vehicle Miles Traveled

Figure 12 (PM2 and PM3)

<i>National Goal</i>	<i>Performance Measure</i>	<i>Baseline</i>	<i>2-Year Performance Target</i>	<i>4-Year Performance Target</i>	<i>Status for TDOT/MTPO</i>
<b>Infrastructure Condition - Pavement</b>	Percentage of pavements on the Interstate System in Good condition	75.6%	N/A	60.0%	Targets established by TDOT on May 20, 2018; and by Johnson City MTPO on November 14, 2018
	Percentage of pavements on the Interstate System in Poor condition	0.14%	N/A	1.0%	
	Percentage of the non-interstate National Highway System in Good condition	44.8%	42.0%	1.0%	
	Percentage of the non-interstate National Highway System in Poor condition	3.24%	4.0%	4.0%	
<b>Infrastructure Condition - Bridge</b>	Percentage of National Highway System bridges classified as in Good condition	39.5%	36.0%	36.0%	
	Percentage of National Highway System bridges classified as in Poor condition	4.9%	6.0%	6.0%	
<b>Congestion Reduction</b>	Annual Hours of Peak Hour Excessive Delay Per Capita	Not applicable to the Johnson City MTPO Area, which is in attainment and is not eligible for CMAQ funding	MTPO – not applicable	MTPO – not applicable	TDOT to establish before May 20, 2018; Johnson City MTPO – not applicable
	Percentage of Non-Single Occupancy Vehicle (SOV) Travel				
<b>System Reliability</b>	Percentage of the Person-Miles Traveled on the Interstate that are reliable	87.7%	85.3%	83.0%	Targets established by TDOT on May 20, 2018; and by Johnson City MTPO on November 14, 2018
	Percentage of the Person-Miles Traveled on the Non-Interstate National Highway System that are reliable	N/A	N/A	87.5%	

<i>National Goal</i>	Performance Measure	Baseline	2-Year Performance Target	4-Year Performance Target	Status for TDOT/MTPO
<b><i>Freight Movement &amp; Economic Vitality</i></b>	Percentage of Interstate System mileage providing reliable truck travel time	1.35	1.35	1.33	Targets established by TDOT on May 20, 2018; and by Johnson City MTPO on November 14, 2018
<b><i>Environmental Sustainability</i></b>	Total emissions reductions by applicable pollutants under the CMAQ program	Not applicable to the Johnson City MTPO Area, which is in attainment and is not eligible for CMAQ funding	MTPO – not applicable	MTPO – not applicable	TDOT to establish before May 20, 2018; Johnson City MTPO – not applicable

### 8.3 Transit National Goals with Performance Measures and Targets

FTA has also established performance measures and targets for the public transit agencies for a strategic and systematic process of operating, maintaining, and improvement public capital assets effectively through their entire life cycle, along with requirements for safety management systems. At this time, the final rule for Public Transportation Agency Safety Plans (new Part 673 for Title 49 of the CFR) has not been issued by FTA.

**Figure 13**

<b>Transit National Goals, Performance Measures and Targets</b>			
<b>National Goal</b>	<b>Performance Measure</b>	<b>Performance Target</b>	<b>Status for JCT/MTPO</b>
<b>Transit Asset Management</b>	<b>Rolling Stock:</b> The percentage of revenue vehicles (by type) that exceed the useful life benchmark (ULB)	Buses: 50% Cutaway: 45% Minivan: 45%	Transit Agencies established targets on May 22, 2017; Johnson City MTPO established targets on May 23, 2017
	<b>Equipment:</b> The percentage of non-revenue service vehicles (by type) that exceed the ULB	75%	
	<b>Facilities:</b> The percentage of facilities (by group) that are rated less than 3.0 on the Transit Economic Requirements Model (TERM) Scale	100%	
	<b>Infrastructure:</b> The percentage of track segments (by mode) that have performance restrictions	Not applicable as JCT does not operate passenger trains	Not applicable

### 8.4 Linking Performance Measures and Targets to Project Selection from the MTP to the TIP

Section 2.2 on page 13 of this TIP document describes the process and the criteria that are used to select projects to include in the TIP. As stated earlier in this document, projects are derived from the Johnson City MTPO 2045 Metropolitan Transportation Plan (MTP), which was last updated in 2018. The MTPO considers the ten (10) federal planning factors (page 15) when creating the criteria to select projects to include in the MTP and the TIP. Future updates to the MTP will also include the aforementioned performance measures and the selection of projects will show progress toward meeting the established performance targets.

Figure 14 below demonstrates the linkage between the goals and objectives within the 2045 MTP to the federal planning factors and national goals in the FAST Act. As you can see, the four goals and corresponding objectives in the MTP support achievement of each of the seven (7) national goals and each of the ten (10) federal planning factors. Current projects in the TIP can be shown to support improving safety and congestion, as they improve safety at intersections, improve traffic flow in congested corridors, and improve bridges.

### 8.3 Transit National Goals with Performance Measures and Targets

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**Figure 13**

<b>Transit National Goals, Performance Measures and Targets</b>				
<i>National Goal</i>	<i>Performance Measure</i>	<i>Baseline % Past ULB (June 2018)</i>	<i>Performance Target % Past ULB (June 2019)</i>	<i>Status for JCT/MTPO</i>
<b>Transit Asset Management</b>	<b>Rolling Stock:</b> The percentage of revenue vehicles (by type) that exceed the useful life benchmark (ULB)	Bus - 0% Cutaway - 84% Minivan - 33% Vans - <25%	Bus - 0% Cutaway - <75% Minivan - 0% Vans - <25%	Transit Agencies established targets on June 26, 2018; Johnson City MTPO established targets on August 23, 2018
	<b>Equipment:</b> The percentage of non-revenue service vehicles (by type) that exceed the ULB	Service Vehicles - 40%	Service Vehicles - <60%	
	<b>Facilities:</b> The percentage of facilities (by group) that are rated less than 3.0 on the Transit Economic Requirements Model (TERM) Scale	Maintenance - 0% Passenger - 0%	Maintenance - 0% Passenger - 0%	
	<b>Infrastructure:</b> The percentage of track segments (by mode) that have performance restrictions	Not applicable as JCT does not operate passenger trains	Not applicable as JCT does not operate passenger trains	Not applicable