

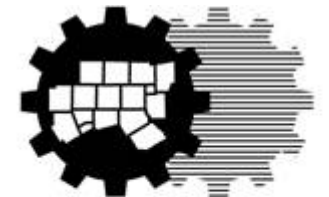
# Pavement/Bridge Performance Measure Target Setting:

## MPO Applications of TxDOT Targets & Potential Policy Considerations (NCTCOG)

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Association of Texas Metropolitan Planning Organizations (TEMPO)  
Autumn 2018 Meeting – San Antonio, TX

September 25, 2018



North Central Texas  
Council of Governments

# Regional Goals

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## **Implement Required Federal Measures**

**National Performance**

## **Support TxDOT Targets As Much As Possible**

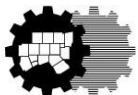
**State Performance**

## **Set Regional Goals To Improve Mobility**

**Regional Performance – Tell Our Story**

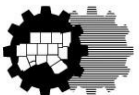
**Include in Metropolitan Transportation Plan (MTP)**

**Include in Transportation Improvement Program (TIP)**



# Relevant Dates

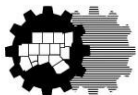
Complete	Rulemaking	MPO Target Setting Deadline	Reporting Period	Reporting Schedule
✓	Transit Asset Management	12/27/2017	Annually	Annually
✓	Safety (PM Rule 1)	2/27/2018	Annually	Annually
	Pavement and Bridge (PM Rule 2)	11/15/2018	Four-year Performance Periods (starting 2018-2022)	Biannually (beginning, middle, and end of performance periods)
	System Performance (PM Rule 3)	11/15/2018	Four-year Performance Periods (starting 2018-2022)	Biannually (beginning, middle, and end of performance periods)



# Regional Roadway System Components

Roadway Classification	Lane Miles		VMT**	
<b>2018 National Highway System (NHS)</b>				
<b>Interstates (on-system)*</b>	<b>3,331</b>	<b>26.47%</b>	<b>58,551</b>	<b>42.26%</b>
<b>Non-Interstate Freeway (on-system)*</b>	<b>1,613</b>	<b>12.82%</b>	<b>31,183</b>	<b>22.51%</b>
<b>Toll Roads (off-system)</b>	<b>877</b>	<b>6.97%</b>	<b>11,660</b>	<b>8.41%</b>
<b>Arterials (on-system)*</b>	<b>4,009</b>	<b>31.86%</b>	<b>24,400</b>	<b>17.61%</b>
<b>Arterials (off-system)</b>	<b>2,753</b>	<b>21.88%</b>	<b>12,761</b>	<b>9.21%</b>
	<b>12,583</b>	<b>100.00%</b>	<b>138,555</b>	<b>100.00%</b>

\* On-system refers to the TxDOT System  
 \*\* VMT (Vehicle-Miles of Travel) in 1,000's

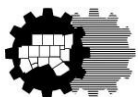


# Pavement – Good Condition

<b>NCTCOG REGION: NHS Roadway Classification</b>	<b>Total Network (%)</b>	<b>2018 Baseline Good Condition (%)</b>	<b>2022 Target Good Condition (%)**</b>
<b>Interstates (on-system)*</b>	<b>26.47%</b>	<b>58.20%</b>	<b>53.22%</b>
<b>Non-Interstate Freeway (on-system)*</b>	<b>12.82%</b>	<b>43.24%</b>	<b>40.37%</b>
<b>Toll Roads (off-system)</b>	<b>6.97%</b>	<b>39.77%</b>	<b>36.59%</b>
<b>Arterials (on-system)*</b>	<b>31.86%</b>	<b>36.11%</b>	<b>34.44%</b>
<b>Arterials (off-system)</b>	<b>21.88%</b>	<b>1.20%</b>	<b>1.90%</b>
<b>STATE OF TEXAS: Roadway Classification</b>	<b>Total Network (%)</b>	<b>2018 Baseline Good Condition (%)</b>	<b>2022 Target Good Condition (%)</b>
<b>Interstate NHS</b>	<b>19.19%</b>	<b>66.80%</b>	<b>66.40%</b>
<b>Non-Interstate NHS</b>	<b>80.81%</b>	<b>54.40%</b>	<b>52.30%</b>

\* On-system refers to the TxDOT System

\*\* Based on 5-year moving average

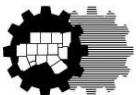


# Pavement – Poor Condition

<b>NCTCOG REGION: NHS Roadway Classification</b>	<b>Total Network (%)</b>	<b>2018 Baseline Poor Condition (%)**</b>	<b>2022 Target Poor Condition (%)**</b>
<b>Interstates (on-system)*</b>	<b>26.47%</b>	<b>5.81%</b>	<b>7.99%</b>
<b>Non-Interstate Freeway (on-system)*</b>	<b>12.82%</b>	<b>8.43%</b>	<b>9.32%</b>
<b>Toll Roads (off-system)</b>	<b>6.97%</b>	<b>6.76%</b>	<b>8.93%</b>
<b>Arterials (on-system)*</b>	<b>31.86%</b>	<b>18.52%</b>	<b>18.39%</b>
<b>Arterials (off-system)</b>	<b>21.88%</b>	<b>73.66%</b>	<b>69.82%</b>
<b>STATE OF TEXAS: Roadway Classification</b>	<b>Total Network (%)</b>	<b>2018 Baseline Poor Condition (%)</b>	<b>2022 Target Poor Condition (%)</b>
<b>Interstate NHS</b>	<b>19.19%</b>	<b>0.30%</b>	<b>0.30%</b>
<b>Non-Interstate NHS</b>	<b>80.81%</b>	<b>13.80%</b>	<b>14.30%</b>

\* On-system refers to the TxDOT System

\*\* Based on 5-year moving average



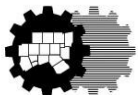
# Bridges – Good Condition

<b>NCTCOG REGION</b>	<b>2018 Baseline Good Condition (%)</b>	<b>2022 Target Good Condition (%)**</b>
<b>All NHS Facilities*</b>	<b>55.60%</b>	<b>61.30%</b>

<b>STATE OF TEXAS</b>	<b>2018 Baseline Good Condition (%)</b>	<b>2022 Target Good Condition (%)</b>
<b>All NHS Facilities*</b>	<b>50.63%</b>	<b>50.42%</b>

\* Based on total deck area

\*\* Based on trend analysis



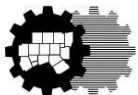
# Bridges – Poor Condition

<b>NCTCOG REGION</b>	<b>2018 Baseline Poor Condition (%)</b>	<b>2022 Target Poor Condition (%)**</b>
<b>All NHS Facilities*</b>	<b>2.00%</b>	<b>3.40%</b>

<b>STATE OF TEXAS</b>	<b>2018 Baseline Poor Condition (%)</b>	<b>2022 Target Poor Condition (%)</b>
<b>All NHS Facilities*</b>	<b>0.88%</b>	<b>0.80%</b>

\* Based on total deck area

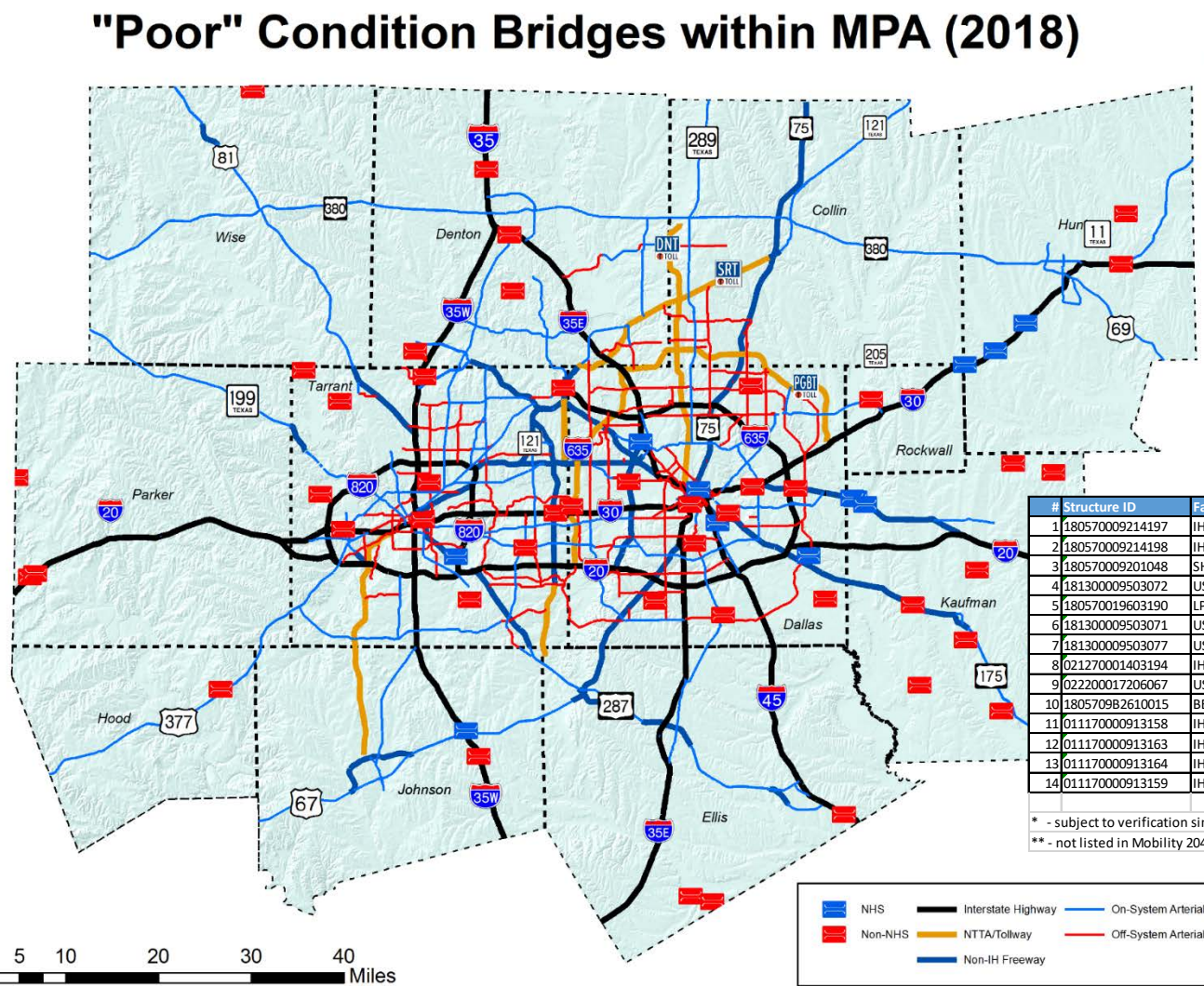
\*\* Based on trend analysis





# Poor Condition Bridges (2018) – NCTCOG

"Poor" Condition Bridges within MPA (2018)

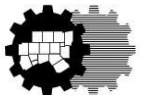
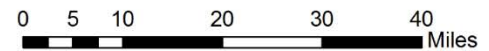


#	Structure ID	Facility Carried	Feature Crossed	County	Category	TIP?	UTP?	MTP?
1	180570009214197	IH 345 SB	IH 30, US 75 & Dart Rail	Dallas	Interstate	No*	No	No**
2	180570009214198	IH 345 NB	IH 30, US 75 & Dart Rail	Dallas	Interstate	No*	No	No**
3	180570009201048	SH 310	S Lamar, Budd St, UP RR	Dallas	Non-IH Freeway	Yes	No	Yes
4	181300009503072	US 80 EB	East Fork Trinity River	Kaufman	Non-IH Freeway	No	Yes	Yes
5	180570019603190	LP12 NB to IH35 NB	IH 35E SB	Dallas	Off-System	No	No	Yes
6	181300009503071	US 80 EB	East Fork Trinity River	Kaufman	Non-IH Freeway	No	Yes	Yes
7	181300009503077	US 80 WB	Buffalo Creek Relief	Kaufman	Non-IH Freeway	No	No	Yes
8	021270001403194	IH 35W NB	IH 35W SB Alvarado Exit	Johnson	Interstate	Yes	Yes	Yes
9	022200017206067	US 287 NB	Carey Street	Tarrant	Non-IH Freeway	Yes	Yes	Yes
10	1805709B2610015	BELT LINE RD	Goff Branch	Dallas	Off-System	Yes	Yes	No**
11	011170000913158	IH 30 - EB	FM 2642	Hunt	Interstate	No	Yes	Yes
12	011170000913163	IH30 WB	FM 1903	Hunt	Interstate	No	Yes	Yes
13	011170000913164	IH30 EB	FM 1903	Hunt	Interstate	No	Yes	Yes
14	011170000913159	IH 30 - WB	FM 1565 O-P	Hunt	Interstate	No	Yes	Yes

\* - subject to verification since it might be included in larger project  
 \*\* - not listed in Mobility 2045 but subject to MTP Policy MO3-002 to ensure system efficiency by constructing bridge replacements

Legend:

- NHS (Blue line)
- Non-NHS (Red line)
- Interstate Highway (Thick black line)
- NTTA/Tollway (Yellow line)
- On-System Arterial (Thin blue line)
- Off-System Arterial (Thin red line)
- Non-IH Freeway (Blue line with arrows)



# Staff Recommendations

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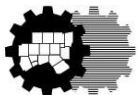
**Support TxDOT Pavement and Bridge Targets**

**Pursue Long Term Partnership With Public Agencies to Improve Pavement and Bridge Conditions (Aspirational Goals)**

**Continue Coordination With TxDOT and TEMPO to Clarify Responsibilities, Protocols, and Timelines for Pavement and Bridge Performance Data Collection and Target Selection**

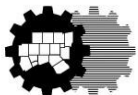
**Consider Regional Pavement and Bridge Performance Targets for Non-Interstate NHS Categories**

**Consider Regional Pavement and Bridge Performance Measures and Targets for Non-NHS Facilities**



# Schedule

July 27	STTC Information Item – Performance Measures and Targets
August 9	RTC Information Item – Performance Measures and Targets
August 24	STTC Workshop – Performance Measures and Targets
September 13	RTC Information Item
September 28	STTC Information Item – Identify Draft Targets
October 8, 15, 18	Public Meetings
October 11	RTC Information Item – Identify Draft Targets
October 26	STTC Action Item - Recommend Approval of Final Targets
November 8	RTC Action Item – Approval of Final Targets
November 15	Submittal to TxDOT Deadline



# Questions

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