PERFORMANCE MEASURES TARGET SETTING: ROADWAY SAFETY AND TRANSIT ASSET MANAGEMENT

Surface Transportation Technical Committee

Kevin Kroll and Jing Xu
North Central Texas Council of Governments
Action Item
January 25, 2019
Background

Federal legislation specifies quantitative performance measures that must be tracked and reported annually or biennially.

2018 Performance Targets approved by RTC in December 2017
  Highway Safety Improvement Program (PM1)
  Transit Asset Management

Established Regional Safety Position:
  Even one death on the transportation system is unacceptable. Staff will work with our partners to develop projects, programs, and policies that assist in eliminating serious injuries and fatalities across all modes of travel.

Re-emphasized focus on safety-related improvements and funding.

RTC approved funding for future Safety project implementations.
Performance Based Planning

- Performance Measures
- Regional Goals (Mobility 2045)
- Targets
- Project Selection/Funding (2019-2022 TIP)
- Measure System Performance and Report Progress to Target

Options:
- Option A
- Option B
- Option C
Roadway Safety Performance Targets

- Target: Number of Fatalities
- Target: Rate of Fatalities
- Target: Number of Serious Injuries
- Target: Rate of Serious Injuries
- Target: Number of Non-motorized Fatalities plus Serious Injuries

(Targets based on a five-year rolling average)
Evidence-based, data-driven targets are required.

TxDOT Strategic Highway Safety Plan (SHSP) utilized a data-driven, multi-year, collaborative process to establish safety targets.

Stakeholder Consensus: Two percent reduction by SHSP Target Year of 2022.

<table>
<thead>
<tr>
<th>Year</th>
<th>Reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>0.4%</td>
</tr>
<tr>
<td>2019</td>
<td>0.8%</td>
</tr>
<tr>
<td>2020</td>
<td>1.2%</td>
</tr>
<tr>
<td>2021</td>
<td>1.6%</td>
</tr>
<tr>
<td>2022</td>
<td>2.0%</td>
</tr>
</tbody>
</table>
## TxDOT Safety Performance Targets and Projections

<table>
<thead>
<tr>
<th></th>
<th>TxDOT 2018 Targets</th>
<th>NCTCOG 2018 Projections</th>
<th>TxDOT 2019 Targets</th>
<th>NCTCOG 2019 Projections</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of Fatalities</td>
<td>3,704</td>
<td>665</td>
<td>3,791</td>
<td>599</td>
</tr>
<tr>
<td>Fatality Rate</td>
<td>1.432</td>
<td>0.96</td>
<td>1.414</td>
<td>0.84</td>
</tr>
<tr>
<td>No. of Serious Injuries</td>
<td>17,565</td>
<td>3,648</td>
<td>17,751</td>
<td>4,000</td>
</tr>
<tr>
<td>Serious Injury Rate</td>
<td>6.74</td>
<td>5.18</td>
<td>6.55</td>
<td>5.69</td>
</tr>
<tr>
<td>No. of Non-motorized</td>
<td>2,150.6</td>
<td>559.8</td>
<td>2,237.6</td>
<td>582.4</td>
</tr>
<tr>
<td>Fatalities and Serious</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Injuries</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Targets are based on a five-year rolling average (2014 – 2018) for 2019. Targets are revisited annually. Proposed reduction from original trend line projections.
Proposed RTC Safety Performance Targets Resolution Components

Affirm Regional Safety Position with Aspirational Goal

Even one death on the transportation system is unacceptable. Staff will work with our partners to develop projects, programs, and policies that assist in eliminating serious injuries and fatalities across all modes of travel.

Affirm NCTCOG Support for TxDOT’s Safety Performance Targets for 2018 – 2022

Transmittal of Approved Safety Targets to TxDOT

Resolution Effective Immediately
Safety Performance Targets Next Steps

Reaffirm NCTCOG support for TxDOT’s Safety Performance Targets for 2018 and approve support for targets for 2019 – 2022

<table>
<thead>
<tr>
<th>Action</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTC Information</td>
<td>January 10, 2019</td>
</tr>
<tr>
<td>Regional Safety Advisory Committee</td>
<td>January 25, 2019</td>
</tr>
<tr>
<td>STTC Action</td>
<td>January 25, 2019</td>
</tr>
<tr>
<td>RTC Action</td>
<td>February 14, 2019</td>
</tr>
<tr>
<td>Target-Setting Deadline: Roadway Safety</td>
<td>February 27, 2019</td>
</tr>
</tbody>
</table>

Document compliance with federal requirements through adopted resolution

First biennial reporting period for Safety Performance Targets due in 2020

Continue focus on funding and implementing safety improvement projects
Transit Asset Management (TAM)

Images: DART, DCTA, FWTA, and NCTCOG
## Transit Asset Management Regional Targets Adopted

<table>
<thead>
<tr>
<th>Asset Category</th>
<th>Target</th>
<th>Metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rolling Stock (transit vehicles)</td>
<td>0%</td>
<td>Vehicles that meet or exceed the industry standard, defined as the Federal Transit Administration’s Default Useful Life Benchmark</td>
</tr>
<tr>
<td>Infrastructure (rail track)</td>
<td>0%</td>
<td>Rail track segments with performance restrictions</td>
</tr>
<tr>
<td>Equipment (transit support vehicles)</td>
<td>0%</td>
<td>Vehicles that meet or exceed the industry standard, defined as the Federal Transit Administration’s Default Useful Life Benchmark</td>
</tr>
<tr>
<td>Facilities (buildings, stations, park and rides)</td>
<td>0%</td>
<td>Transit facilities rated below “Adequate” (3.0) on the industry standard Transit Economic Requirements Model (TERM) scale.</td>
</tr>
</tbody>
</table>
# Rolling Stock Performance Compared to Targets

<table>
<thead>
<tr>
<th>Asset Type</th>
<th>Fiscal Year 2017 Observed</th>
<th>Fiscal Year 2018 Target</th>
<th>Fiscal Year 2018 Observed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bus*</td>
<td>6%</td>
<td>0%</td>
<td>?</td>
</tr>
<tr>
<td>Small Bus*</td>
<td>3%</td>
<td>0%</td>
<td>?</td>
</tr>
<tr>
<td>Light Rail Vehicle*</td>
<td>0%</td>
<td>0%</td>
<td>?</td>
</tr>
<tr>
<td>Commuter Rail Locomotive*</td>
<td>0%</td>
<td>0%</td>
<td>?</td>
</tr>
<tr>
<td>Commuter Rail Passenger Car*</td>
<td>0%</td>
<td>0%</td>
<td>?</td>
</tr>
<tr>
<td>Articulated Bus</td>
<td>0%</td>
<td>0%</td>
<td>?</td>
</tr>
<tr>
<td>Commuter Rail Passenger Coach**</td>
<td>35%</td>
<td>0%</td>
<td>?</td>
</tr>
</tbody>
</table>

*RTC Policy Emphasis Area

**Includes a number of assets that were rebuilt near the end of their useful life. The analysis above assumes a minimum extension of 10 years of useful life, which may be too conservative (i.e., vehicles may be in better condition than expected based on completed rebuild activities).
Proposed Transit Asset Management Targets Resolution Components

Affirm Transit Asset Management Targets for 2018 – 2022

Continue to Coordinate with Transit Providers

Consistent Transit Asset Management Definitions

Potential Enhanced Performance Measures for the Region’s Transit System

Transmittal of Approved Transit Asset Management Targets to TxDOT

Resolution Effective Immediately
**Action Requested**

**Recommend RTC Approval to Adopt and Reaffirm Positions:**

**Safety Performance Targets and Projections:**

- Reaffirm NCTCOG support for TxDOT's Safety Performance Targets for 2018 and approve support for targets for 2019 – 2022.

**Regional Safety Position:**

> Even one death on the transportation system is unacceptable. Staff will work with our partners to develop projects, programs, and policies that assist in eliminating serious injuries and fatalities across all modes of travel.

- Adopt resolution that documents compliance with federal requirements.

- Reaffirm Transit Asset Management Regional Targets for 2018, approve targets for 2019 – 2022, and adopt resolution that documents compliance with federal requirements.
Contacts

Roadway Safety

Kevin Kroll
Transportation Planner
817-695-9258
kkroll@nctcog.org

Camille Fountain
Transportation Planner
817-704-2521
cfountain@nctcog.org

Sonya J. Landrum
Principal Transportation Planner
817-695-9273
slandrum@nctcog.org

Transit Asset Management

Jing Xu
Senior Transportation Planner
817-608-2335
jxu@nctcog.org

Shannon Stevenson
Program Manager
817-608-2304
sstevenson@nctcog.org
TOP FIVE RTC POLICY INITIATIVES

FOR 2019

Michael Morris, P.E.
Director of Transportation
North Central Texas Council of Governments

January 25, 2019
Public Transit Engineering and Planning

Collin County Transit

Southern Dallas County Transit

Tarrant County Transit

Social Service Transit Pass Program

First Mile / Last Mile Nodes

Passenger Rail / Freeway Interface
TOLL ROADS VS. TOLLED MANAGED LANES
Technology Advances

People Mover Systems

Technology-Based Transit

Technology-Based Carpooling

Autonomous Vehicles
next AMAZON
Federal Update

FY 2019 Appropriations

Partial Government Shutdown

- Continuing Resolution to extend FY 2018 funding levels through early 2019, or
- New appropriations for FY 2019 (funding through Sept. 30)

Pending Transportation Nominations

FHWA Administrator – Nicole Nason

- Current Assistant Secretary in State Department
- Former NHTSA Administrator and Assistant Secretary for Transportation Department

No Senate action on 2018 nominees for NHTSA, FTA – vacancies remain

FAA Administrator post remains vacant – no current nominee
Federal Update

116th US Congress convened January 3

New Committee Chairs and Ranking Members

- Senate Transportation: Roger Wicker (R-MS) and Maria Cantwell (D-WA)
- Senate Env. Pub. Works: John Barrasso (R-WY) and Tom Carper (D-DE)
- Senate Appropriations: Richard Shelby (R-AL) and Patrick Leahy (D-VT)
- House Transportation: Peter DeFazio (D-OR) and Sam Graves (R-MO)
- House Science: Eddie Bernice Johnson (D-TX) & Frank Lucas (R-OK)
- House Appropriations: Nita Lowey (D-NY) and Kay Granger (R-TX)
86th Texas Legislature

Dates of Interest

January 7  Biennial Revenue Estimate delivered
January 8  Legislative session begins
March 8    Bill filing deadline
May 27    Last day of 86th Legislature

NCTCOG weekly updates have begun and are sent every Friday
Senate Committees of Interest

**Transportation**
Chair- Nichols, **Vice Chair- Hancock**, Alvarado, Hinojosa, Kolkhorst, Perry, Rodriguez, Schwertner, **West**

**Natural Resources & Economic Development**
Chair- **Birdwell**, Vice Chair- Zaffirni, Fallon, Flores, Hancock, Hinojosa, Hughes, Miles, Paxton, Powell, Rodriguez

**Veteran Affairs & Border Security**
Chair- Campbell, **Vice Chair- Hall**, Johnson, Lucio, Menendez, Schwertner, Seliger

**Finance**
Chair- **Nelson**, Vice Chair- Hinojosa, Bettencourt, Birdwell, Campbell, Flores, Hancock, Huffman, Kolkhorst, Nichols, Perry, Taylor, Watson, **West**, Whitmire
House Committees of Interest

Transportation
  Chair-Canales, Vice Chair-Landgraf, Y. Davis, Krause, A. Martinez, Raney, Thompson, Bernal, Goldman, Hefner, Leman, Ortega, Thierry

Environmental Regulation
  Chair-Lozano, Vice Chair-Ed Thompson, Kuempel, Lozano, Reynolds, Blanco, Kacal, Morrison, John Turner, Zwiener

Defense & Veteran Affairs
  Chair-Flynn, Vice Chair-Tinderholt, Hinojosa, Lozano, Ramos, Reynolds, Romero, District 125

Appropriations
  Chair-Zerwas, Vice Chair-Longoria, Rose, Capriglione, Sherman, Stucky, John Turner
# 86th Texas Legislature

## FY 2020-21 Statewide Appropriations

<table>
<thead>
<tr>
<th>SENATE BILL 1</th>
<th>HOUSE BILL 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiscal Year 2020-2021 Total: $243B</td>
<td>Fiscal Year 2020-2021 Total: $247B</td>
</tr>
<tr>
<td>TxDOT: $31.6B</td>
<td>TxDOT: $31.3B</td>
</tr>
<tr>
<td>Prop 1: Estimated $4.3B</td>
<td>Prop 1: Estimated $4.3B</td>
</tr>
<tr>
<td>Prop 7: Estimated $5.1B</td>
<td>Prop 7: Estimated $5.1B</td>
</tr>
<tr>
<td>TERP: $154.7M</td>
<td>TERP: $154.7M</td>
</tr>
<tr>
<td>LIRAP/LIP: $0M</td>
<td>LIRAP/LIP: $96.6M</td>
</tr>
</tbody>
</table>
86th Texas Legislature

Actively Seek and Support Legislation to Meet Transportation and Air Quality Needs

- Flexibility
- Funding
- Air quality programs
- Property/airspace for communications and development
- Improve safety

Support Progress Made Towards Transportation and Air Quality During Recent Legislative Sessions

Provide Support for Other Transportation Topics to be Addressed in Legislation
86th Texas Legislature

Bill Topics of Interest

Air Quality
Tolls
Transportation Revenue
Economic Stabilization Fund
Safety
Technology
Transit
Questions and Comments

Amanda Wilson
Program Manager
(817) 695-9284
awilson@nctcog.org

Nick Allen
Communications Coordinator
(817) 704-5699
nallen@nctcog.org

Rebekah Hernandez
Communications Supervisor
(682) 433-0477
rhernandez@nctcog.org

Kyle Roy
Communications Coordinator
(817) 704-5610
kroy@nctcog.org

https://www.nctcog.org/trans/involve/legislate
Federal-State Partnership for State of Good Repair Program Grant

Program Overview and Notice of Funding Opportunity

SURFACE TRANSPORTATION TECHNICAL COMMITTEE (STTC)
INFORMATION ITEM
JANUARY 25, 2019

Jing Xu
Senior Transportation Planner, Transit Planning & Operations
North Central Texas Council of Governments
jxu@nctcog.org
State of Good Repair Program Grant

Overview

**Agency**: Federal Railroad Administration

**Purpose**: To fund capital projects to repair, replace, or rehabilitate qualified railroad assets to reduce the state of good repair backlog and improve intercity passenger rail performance.

**Funding Opportunity**:  
- $272 M available (no project maximum)  
- Due: Monday, March 18, 2019  
- Minimum 20% local match required
State of Good Repair Program Grant

Eligibility Information

Eligible Projects:
- Replace existing assets in-kind;
- Replace existing assets with assets that increase capacity or provide a higher level of service;
- Bring existing assets into a State of Good Repair;
- Ensure that service can be maintained while existing assets are brought to a State of Good Repair.

Preference given to joint applications; 50 percent or greater non-Federal match from multiple sources (including private sector).

Key Objectives: Supporting Economic Vitality; Leveraging Federal Funding; Preparing for Future Operations/Maintenance Costs; Innovative Approaches to Safety and Project Delivery; Accountability.
State of Good Repair Program Grant

Potential Regional Candidate Project

Trinity Railway Express Corridor State of Good Repair Improvements

- Strong regional interests and well established partnerships via recent or concurrent discretionary grant projects submittal (BUILD, INFRA, etc.).
- Shared corridor of Intercity Passenger Rail and Commuter Rail.
- Potential project components related to improvement on railroad assets’ state of good repair, corridor capacity, system performance, safety, and so on.
State of Good Repair Program Grant
Potential Regional Candidate Project Location
### State of Good Repair Program Grant

#### Timeline

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>November 16, 2018</td>
<td>Notice of Funding Opportunity Announced</td>
</tr>
<tr>
<td>January 25, 2019</td>
<td>STTC Information</td>
</tr>
<tr>
<td>February 14, 2019</td>
<td>RTC Information</td>
</tr>
<tr>
<td>February 22, 2019</td>
<td>STTC Action</td>
</tr>
<tr>
<td>March 8, 2019</td>
<td>Request Deadline for Letters of Support</td>
</tr>
<tr>
<td>March 14, 2019</td>
<td>RTC Action</td>
</tr>
<tr>
<td>March 18, 2018</td>
<td>Grant Application Deadline (<a href="http://www.grants.gov">www.grants.gov</a>)</td>
</tr>
<tr>
<td>March 28, 2019</td>
<td>Executive Board Action (Endorsement)</td>
</tr>
</tbody>
</table>
Contact Information

Jing Xu
Senior Transportation Planner
jxu@nctcog.org
817-608-2335

Shannon Stevenson
Program Manager
sstevenson@nctcog.org
817-608-2304
Policy Position on Communication with Tribal Nations

Surface Transportation Technical Committee Information Item
January 25, 2019

Kate Zielke
GOALS FOR COMMUNICATION

Developing mutual respect
Building communication channels
Ensuring two-way dialogue
Identifying and engaging early transportation planning opportunities prior to decision-making
AUTHORITY FOR FEDERAL AGENCIES

US Constitution, Article I Section 8 “Commerce Clause”
Legal obligation for federal agencies to engage in government-to-government consultation with tribes
Tribal nations are sovereign nations

National Historic Preservation Act
Consultation related to areas of religious and cultural significance, historic properties

National Environmental Policy Act
Consultation related to social or cultural relationship to physical environment

For additional authorities
Tribal Consultation Best Practices In Historic Preservation
Providing technical assistance that helps tribal nation governments participate more actively in transportation planning

Engaging tribal nations through in-person dialogue and written correspondence

Developing a strategic direction document or plan outlining communication and coordination protocols with the input and collaboration of tribal nations

Establishing formal agreements for coordination with interested tribal nations

Developing and delivering internal staff training on how to communicate respectfully and effectively with tribal nation governments
Nationally and locally, transportation projects have sought and incorporated tribal nations’ input. Texas Department of Transportation is working with tribes to develop an interpretive panel about tribal history and current tribal presence as part of mitigation for a new bridge over Waxahachie Creek in Ellis County.
CONTACT INFORMATION

Jeff Neal  
Program Manager, Streamlined Project Delivery and Data Management  
jneal@nctcog.org  
817-608-2345

Amanda Wilson  
Program Manager, Public Involvement and Government Relations  
awilson@nctcog.org  
817-695-9284

Kate Zielke  
Senior Transportation Planner  
kzielke@nctcog.org  
817-608-2395
INFRA Discretionary Grant Program

Program Overview

- INFRA – Infrastructure For Rebuilding America
- Discretionary grant program authorized under the Fixing America’s Surface Transportation (FAST) Act through 2020
- Fiscal Year (FY) 2019: $855 – 902.5 million available nationwide
- Key program objectives:
  - Supporting economic vitality at the national and regional level
  - Leveraging Federal funds to attract non-Federal infrastructure investment sources
  - Deploying innovative technology, encouraging innovative project delivery approaches, and incentivizing use of innovative financing
  - Holding grant recipients accountable for their performance
- TxDOT awarded $65 million in INFRA FY 2018 funds for North Tarrant Express Segment 3C – IH 35W (Eagle Parkway to North Tarrant Parkway)
Eligible applicants:
- State, U.S. territory, local, or tribal governments
- Government subdivisions including transit agencies, port authorities, and metropolitan planning organizations

No more than 3 applications may be submitted by each applicant

Eligible projects:
- Highway freight project on the National Highway Freight Network (23 U.S.C. 167)
- Highway or bridge project on the National Highway System including projects that add capacity on the Interstate System to improve mobility
- Railway-highway grade crossing or grade separation project
- Freight project within boundaries of a public or private freight rail, water (including ports), or intermodal facility
INFRA Discretionary Grant Program
Award Details, Cost Sharing, and Utilization

- Project award minimum and distribution:
  - Large Project (> $100 million) = $25 million; Small Project (< $100 million) = $5 million
  - 25% of available funding to be dedicated to rural projects
  - Approximately $200 million of authorized FY 2016-2020 INFRA funds remain for freight rail, port, and intermodal projects ($500 million aggregate of $4.5 billion under the FAST Act)

- Cost sharing:
  - Maximum share of future eligible project costs – 60% INFRA / 80% total Federal assistance
  - Cost share requirements differ from the Leveraging Selection Criteria, which considers the extent to which an applicant proposes to use non-Federal funding

- FY 2019 INFRA grant funds must be obligated by September 30, 2022
- Project construction must begin by March 30, 2024
INFRA Discretionary Grant Program

Merit Criteria Evaluation

- Support for National or Regional Economic Vitality
  - Benefit-Cost Analysis
  - Economic Competitiveness
- Leveraging of Federal Funds
- Potential for Innovation
  - Technology Deployment
  - Streamlined Project Delivery
  - Financing
- Performance and Accountability
- Project Readiness
- Large/Small Project Requirements
Select projects in both the east and west sub-regions of North Central Texas

Evaluate project readiness and prioritization (TIP, 10-Year Plan/UTP, etc.)

Identify partnership opportunities with TxDOT, other transportation providers (public and/or private), and/or local governments

Review recent discretionary grant project submittals (TIGER, FASTLANE, BUILD, INFRA, etc.), USDOT debriefings, and composition of awarded projects

Analyze locations with potential to maximize non-Federal revenue leverage

Examine “exposed” corridor segments, advanced phasing prospects, and potential to address system deficiencies

Determine significant economic development opportunities with needed transportation catalysts
Regional transit agencies desire to expand passenger service to accommodate growing population.

Freight capacity through Dallas-Fort Worth is limited by Trinity Railway Express passenger operations.

System plan under development to match capacity investments between private rail and public rail entities enabling an improved network for all users.
INFRA Discretionary Grant Program
Possible Project Candidates – Freight/Passenger Rail Integration (cont.)
INFRA Discretionary Grant Program
Possible Project Candidates – Roadway

- DFW Connector North Airport Interchange (including SH 114 TEXpress direct connections to DFW Airport and SH 121)
- IH 30 Dallas/Tarrant County – Cooper Street to SH 161/PGBT (including ultimate main lanes, TEXpress, and frontage roads)
- IH 30 Rockwall County – Dalrock Road to SH 205 (Lake Ray Hubbard bridge)*
- IH 35E/IH 35W Merge Interchange (Denton)
- IH 820 East – Ultimate Phase
- SH 114 Main Lanes – FM 156 to US 377 (Fort Worth/Northlake/Roanoke)
- SH 360 – Six Flags Drive to Abram Street (profile “flip” of Randol Mill Road interchange)

* Possible submittal by TxDOT
INFRA Discretionary Grant Program

Timeline

December 21, 2018  INFRA Notice of Funding Opportunity Announced
January 25, 2019  STTC Information
February 14, 2019  RTC Action
February 15, 2019  Request Deadline for Letters of Support (send to Rebekah Hernandez – rhernandez@nctcog.org)
February 22, 2019  STTC Endorsement of RTC Action
February 28, 2019  Executive Board Approval
March 4, 2019  INFRA Application Deadline (www.grants.gov)
Contact Information

Natalie Bettger
Senior Program Manager
(817) 695-9280
nbettger@nctcog.org

Dan Lamers
Senior Program Manager
(817) 695-9263
dlamers@nctcog.org

Christie Gotti
Senior Program Manager
(817) 608-2338
cgotti@nctcog.org

Karla Weaver
Senior Program Manager
(817) 608-2376
kweaver@nctcog.org

Application Preparation

Jeff Hathcock
Program Manager
(817) 608-2354
j hathcock@nctcog.org

Jeffrey C. Neal
Program Manager
(817) 608-2345
j neal@nctcog.org

Shannon Stevenson
Program Manager
(817) 608-2304
sstevenson@nctcog.org

January 25, 2019
Surface Transportation Technical Committee – Information Item
INFRA Discretionary Grant Program Overview & FY 2019 Notice of Funding Opportunity