

Transportation Planning Policy Board Meeting

September 21, 2016 9:30 a.m.

Agenda



Killeen-Temple Metropolitan Planning Organization Transportation Planning Policy Board (TPPB)

Wednesday, September 21, 2016 Central Texas Council of Governments Building 2180 North Main Street, Belton, Texas 76513

Regular Meeting: 9:30 A.M. AGENDA

- 1. Call to Order.
- 2. Opportunity for Public Comment.(1)
- 3. Staff Update: Staffing changes; advisory committees; air quality.
- 4. Action Item: Regarding approval of minutes from August 17, 2016 TPPB meeting.
- 5. **Action Item:** Regarding approval of the draft updated Congestion Management Process and initiation of the public involvement process.
- 6. **Action Item:** Approval of resolution supporting October 2016 as Walk to School Month and October 5, 2016 as Walk to School Day in the KTMPO region.
- 7. Action Item: Nomination and election of TPPB Chair for FY2017.
- 8. Action Item: Nomination and election of TPPB Vice Chair for FY2017.
- 9. Action Item: Approve meeting schedule for FY2017.
- 10. Recognition of Chair Cosper's contributions to the KTMPO.
- 11. Member comments.
- 12. Adjourn.

Workshop (If Needed) - To Follow Regular Scheduled Meeting AGENDA

- 1. Call to order.
- 2. Discussion on any of the following topics:
 - a. Current or past KTMPO documents and plans to include Unified Planning Work Program, Transportation Improvement Program, By-Laws, Public Participation Plan, Regional Thoroughfare/Bicycle Pedestrian Plan, Metropolitan Transportation Plan, Congestion Management Process, Annual Performance Expenditure Report, Annual Project Listing, Texas Urban Mobility Plan, Unified Transportation Plan, Federal Certification Process
 - b. Past or Future KTMPO Meeting processes or happenings
 - c. KTMPO Current, Past or Future MPO Boundary Studies
 - d. KTMPO Past or Future Annual Meetings
 - e. Current, Past or Future KTMPO Budgets and funding conditions
 - f. Rural Planning Organizations and/or Regional Mobility Authorities
 - g. Special Funding for Projects
 - h. Legislative Changes
 - i. Status of MPO Projects
 - j. Staff, TxDOT, Consultant, Guest presentations relating to transportation
 - k. Meetings pertaining to any transportation related items/topics
- 3. Adjourn.

The Killeen-Temple Metropolitan Planning Organization is committed to compliance with the Americans with Disabilities Act (ADA). Reasonable accommodations and equal opportunity for effective communications will be provided upon request. Please contact the KTMPO office at 254-770-2200 24 hours in advance if accommodation is needed. (1) Citizens who desire to address the Board on any matter may sign up to do so prior to this meeting. Public comments will be received during this portion of the meeting. Comments are limited to 3 minutes maximum. No discussion or final action will be taken by the Board.

Item 4: Minutes

KILLEEN-TEMPLE METROPOLITAN PLANNING ORGANIZATION (KTMPO) TRANSPORTATION PLANNING POLICY BOARD (TPPB) MEETING MINUTES

Wednesday, August 17, 2016 9:30 a.m.

Central Texas Council of Governments (CTCOG) 2180 North Main Street Belton, TX 76513

Policy Board Voting Members Present

Chair Scott Cosper—City of Killeen
Sam Listi for Vice Chair Mayor Marion Grayson—
City of Belton
Andrea Gardner for Mayor Frank Seffrood-City of
Copperas Cove
Mayor Rob Robinson—City of Harker Heights
David Olson for Councilmember Juan Rivera—City
of Killeen

Brian Chandler for Mayor Danny Dunn—City of Temple
Robert Ator for General Manager Carole
Warlick—Hill Country Transit District (HCTD)
Judge John Firth—Coryell County
Bobby Littlefield Jr.—Texas Dept. of
Transportation (TxDOT) Waco District
Elias Rmeili—TxDOT Brownwood District

Policy Board Non-Voting Members Present

Brian Dosa for Mary Himic—Fort Hood

Others Present

Erin Smith—City of Belton
Liz Bullock—TxDOT Waco District
Michael Bolin—TxDOT Waco District
Phil Haggerty—Belton Independent School
District (BISD)
Janet Sheguit—BSP Engineers
Denny Kelley—SEIF Temple

Jim Martin—KTMPO
Christina Demirs—KTMPO
Jason Deckman—KTMPO
Cheryl Maxwell—KTMPO
John Weber—KTMPO

Meeting Minutes

- **1. Call to Order:** Chair Scott Cosper called the meeting to order at 9:30 a.m. and stated that a quorum was present.
- 2. Opportunity for Public Comments: No comments were made by the public.
- 3. Staff Update: KTMPO staff provided the following updates.
- --Cheryl Maxwell stated that the annual MPO meeting will be held next month and officers will be elected at that meeting.

- --Cheryl Maxwell stated that TxDOT has agreed to conduct the IH-14 East Corridor Feasibility Study for possible alignments of IH-14 east of IH-35.
- -Ms. Maxwell also provided TPPB with an update on the Category 2-Proposition 1 & 7 MPO funding formula. The Texas Association of Metropolitan Planning Organization (TEMPO) is reviewing the MPO funding formula for Category 2 funding. The current proposal is to revise the funding formula to have two groups of MPOs based on population. One group will be made up of MPOs with populations greater than 700,000 and the other group will be MPOs with populations lower than 700,000. Each group has developed their own criteria and weights; however funding scenarios based on the new criteria/weights has not yet been provided. When it is provided, TPPB will have the opportunity to concur or submit a letter of dissention which will be forwarded to the State legislature along with the TEMPO recommendation. This will likely be an agenda item at next month's meeting.
- --Ms. Maxwell wanted to let TPPB know of the Notice of Proposed Rule Making (NPRM) for MPO Coordination & Planning Area Reform. The rule is intended to unify planning products for each urbanized area. If an urbanized area contains two or more MPOs, the MPOs must coordinated together and produce one MTP, TIP and other necessary documents. Another provision is that where planning areas adjoin, the MPOs must coordinate and agree on the boundary to ensure there is no overlap. Ms. Maxwell stated that the public comment period ends on August 26th but an extension has been requested by various groups.
- --The Freight Advisory Committee is looking for members from private industries.
- --John Weber provided an update on the Bicycle and Pedestrian Advisory Committee (BPAC) and air quality. The next BPAC meeting will be held on September 12, 2016 at 9:30 a.m. KTMPO is currently asking BPAC members to use the bike/pedestrian web map to map out locations for possible bike racks. BPAC recommendations will be given to the Central Texas Air and Information Research (CTAIR) Advisory Committee as possible locations to place bike racks.
- --For air quality, at the Temple station, June's ozone reading was 68 parts per billion (ppb) and July's reading was 58 ppb. At the Killeen station, June's reading was 67 ppb and July's reading was 57 ppb. The current Design Value is 67 ppb at the Temple station and 66 ppb at the Killeen station.
- 4. Action Item: Regarding approval of minutes from June 22, 2016 TPPB meeting.

David Olson made a motion to approve June 22, 2016 TPPB meeting minutes, seconded by Sam Listi; the motion passed unanimously.

5. Action Item: Regarding approval of an amendment to the 2040 Metropolitan Transportation Plan (MTP) to add the Belton Loop 121 project from FM 436 to IH 35.

Christina Demirs stated that Belton Loop 121 project was approved for TxDOT development funds. This project is broken into three sections, however the section from FM 436 to IH 35 is not currently in the MTP. A public comment period ran from June 25, 2016 to July 9, 2016 with a public hearing held on June 27, 1016. KTMPO received two comments in support of this amendment. At the August 3rd, 2016 Technical Advisory Committee (TAC) meeting, TAC made a recommendation to approve the MTP amendment.

Sam Listi made a motion to approve the MTP amendment, seconded by Andrea Gardner; the motion passed unanimously.

6. Action Item: Regarding approval of the Congestion Management Process (CMP) Congested Segment Prioritization Tool and resulting congestion network.

Christina Demirs stated that Alliance Transportation Group has developed a tool that allows us to apply differ weights for each performance measures. At the July TAC meeting, Alliance gave a demonstration on how to use the congested segment prioritization tool and asked each TAC member to use it and provide feedback on how each criteria should be weighted. At the August TAC meeting, Alliance presented two options. Option 1 was based on the score sheets received from TAC members and option 2 was based on feedback from TAC, KTMPO staff and Alliance. TAC recommended option 2 with adjustments. TAC recommended that congestion should be 30%, volume should be 20%, Safety Crashes and Transit should be 15% each, 10% for safety rear-end criteria, and 5% for both school and public input. Ms. Demirs provided a table that shows highway segments priority ranking and a table for arterial segments priority ranking. For highways, US 190 from SH 9 to FM 3470/Stan Schlueter Loop was the top ranked segment and for arterial roads, Trimmier Road from FM 3470/Stan Schlueter Loop to Hallmark Ave.

Brian Chandler made a motion to approve the criteria weighting and final congestion network prioritization, seconded by Robert Ator; the motion passed unanimously.

7. Action Item: Regarding approval of adjustments to the MTP Re-Prioritization Project Call.

Cheryl Maxwell stated that the question has come up on how to handle projects that are already in the MTP. From the approved scoring criteria, all projects, including those currently in the MTP must be submitted if an entity wants their project scored and ranked. This can cause an entity to submit many applications.

At the August TAC meeting, staff presented TAC with possible scenarios to address this. TAC recommended a two week extension of the nomination deadline and favored having an annual call for projects. Staff discussed this issue with TxDOT and recommends adding a listing for Future Anticipated Projects (Appendix A1).

Ms. Maxwell stated that the Future Anticipated Projects list would accommodate those projects that are more conceptual with specific details unknown. Submittals would be required to include a "Purpose and Need Statement" but no dollar value would be required. These projects would not be scored or ranked and could not move up to the Regionally Significant Unfunded list without going through the scoring process. Submittals for the Future Anticipated Project listing may occur at any time; staff will present these to the TAC and TPPB for approval and then process them as an administrative amendment. Ms. Maxwell provided TPPB with a tentative schedule showing the new deadline for project submittals as August 26 at noon. The floor opened to discussion.

Judge John Firth asked Bobby Littlefield if the amount of funding allocated to the MPO could be affected by submitting projects that may not have complete information, such as estimated cost. Mr. Littlefield responded that he was not aware of any consequences since the number of projects in the MTP listing does not affect the amount of funding being allocated.

Mr. Littlefield asked if during an annual call, does the sponsoring entity have to resubmit their project if the project changes or can the entity simply update the project, which would result in utilizing less time and fewer resources. Jason Deckman stated that if there is a significant change to the project, for example project scope, the project should be resubmitted but if it is a very minor change, such as updating the cost estimate, the project may not need to be resubmitted.

David Olson made a motion to approve the adjustments to the project call schedule, the addition of Appendix A1—Future Anticipated Projects in MTP project listing and the annual project call for MTP Projects, seconded by Bobby Littlefield; the motion passed unanimously.

8. Member Comments.

Michael Bolin stated that on September 22, 2016 from 1 p.m. to 5 p.m., TxDOT will be holding a local government workshop. The purpose of this workshop is to familiarize city officials with the process when projects involve federal or state funds and provide a networking opportunity with TxDOT staff.

9. Adjourn: The meeting adjourned at 10:04	a.m.
Scott Cosper, Chair	Cheryl Maxwell, MPO Director

Draft Congestion Management Process



Transportation Planning Policy Board September 21, 2016

Agenda Item No. 5

Congestion Management Process

Summary:

KTMPO adopted a Congestion Management Process (CMP) in October 2013 that provides a framework for identifying congestion problems and possible solutions for our region. KTMPO contracted with Alliance Transportation Group to further develop and implement the CMP by collecting data, monitoring system performance, identifying congestion problems and needs, identifying and evaluating strategies, updating the CMP with a prioritized list of policies, programs, and projects, and monitoring strategy effectiveness. The updated draft CMP is attached. The TAC recommended approval of the draft CMP at their September 14th meeting, and recommended initiation of the public involvement process. A 15 day public comment period is required along with a public hearing.

Tentative Schedule:

- August 3, 2016—TAC recommendation for a final congestion network prioritization
- August 17, 2016—TPPB approval of final congestion network prioritization
- September 14, 2016—TAC recommendation to approve draft Congestion Management Process and initiate Public Involvement Process
- September 21, 2016—TPPB approves Congestion Management Process and initiate Public Involvement Process
- September 24-October 8, 2016—15-day Public Comment Period
- Public Hearing—September 27, 2016, 5:00 p.m., CTCOG Building in Belton
- *October 5, 2016—TAC recommendation to approve Congestion Management Process, subject to any comments received
- October 19, 2016—TPPB approves Congestion Management Process

Action Needed:

Approve draft Congestion Management Process and initiate Public Involvement Process.

^{*}Date under review for possible rescheduling



Introduction

This document is the 2016 Congestion Management Process CMP) Update Report for the Killeen Temple Metropolitan Planning Organization (KTMPO) planning area (see Figure 1-2). The report describes the assumptions, methodology, performance measures, and potential congestion mitigation strategies included in the updated CMP.

Congestion Management Process (CMP)

Congestion management is the application of strategies to improve transportation system performance and reliability by reducing the adverse impacts of congestion on the movement of people and goods. A congestion management process (CMP) is a systematic approach for managing congestion that provides accurate, up-to-date information on transportation system performance and assesses alternative strategies for congestion management that meet state and local needs. The CMP is intended to produce transportation system performance measures and congestion management strategies that can be reflected in the regional metropolitan transportation plan (MTP) and transportation improvement program (TIP).

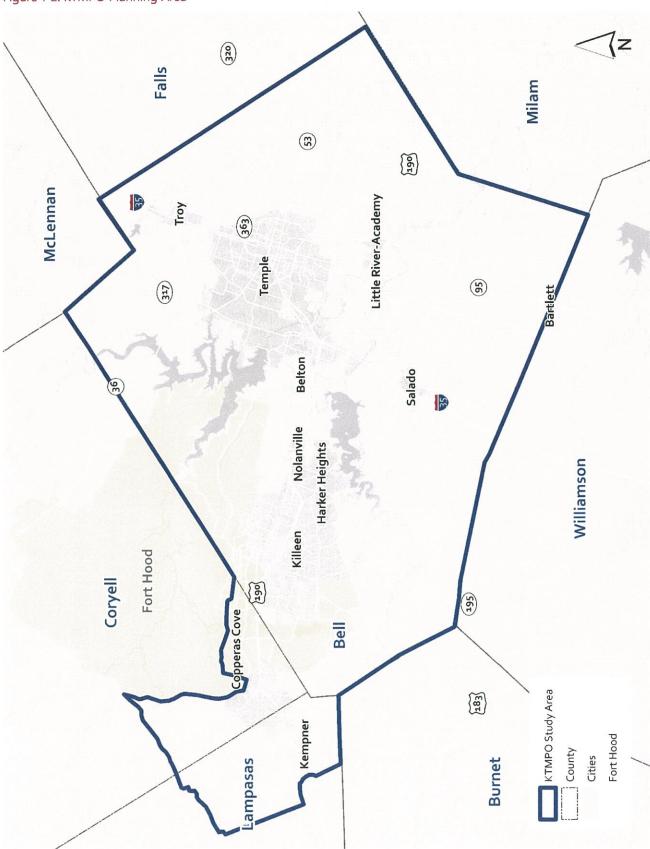
The CMP, as defined in federal regulation, is intended to serve as a systematic process that provides for safe and effective integrated management and operation of the multimodal transportation system. The process includes:

- Development of congestion management objectives;
- O Establishment of measures of multimodal transportation system performance;
- O Collection of data and system performance monitoring to define the extent and duration of congestion and determine the causes of congestion;
- Identification of congestion management strategies;
- O Implementation activities, including identification of an implementation schedule and possible funding sources for each strategy; and
- O Evaluation of the effectiveness of implemented strategies.

A CMP is required in metropolitan areas with population exceeding 200,000, these areas are known as Transportation Management Areas (TMAs). Federal requirements also state that all CMPs shall be developed and implemented as an integrated part of the metropolitan transportation planning process. The Congestion Management System (CMS) was first introduced by the Intermodal Surface Transportation Efficiency Act (ISTEA) of 1991 and was continued under successive transportation authorization laws, including the current law, Fixing America's Surface Transportation (FAST) Act. The CMP is intended to be an ongoing process, fully integrated into the metropolitan transportation planning process. The CMP is a "living" document, continually evolving to address the performance measure results, concerns of the community, new objectives and goals of the MPO, and up-to-date information on congestion issues.



Figure 1-2: KTMPO Planning Area





Types of Congestion

- O Recurring Congestion
 - Peak period
 - Freight
 - Intersection
 - Freeway corridor
 - Non freeway corridor
 - School related
 - Central BusinessDistrict
 - Bottleneck or hot spot
 - Railroad crossing
 - Parking related
- Non-Recurring
 Congestion
 - Incident related
 - Special event traffic

Congestion Management Data

Federal regulation 23 CFR 500.109 defines congestion as "the level at which transportation system performance is unacceptable due to excessive travel times and delays." According to the Federal Highway Administration (FHWA), roadway congestion is comprised of three key elements: severity, extent, and duration. However, congestion can have a different meaning depending on the context in which the congestion is experienced. Defining a CMP Network and developing performance measures to analyze congestion along the network are key steps in the CMP. These steps establish the foundation for the process, and are meant to define how congestion is perceived locally.

Congestion Data Sources

Before a CMP Network can be defined or performance measures can be determined, it is important to determine what data is available. The KTMPO CMP employs three main quantitative data sets, whose data coverage is shown in Figure 2-1, and one qualitative data set for analyzing congestion. The CMP also uses additional supplementary data from other sources that helps further the identification and analysis of congestion throughout the region.

National Performance Management Research Data Set (NPMRDS)

The NPMRDS is a vehicle probe-based data set developed by HERE and acquired by the FHWA to support the agency's Freight Performance Measures (FPM) and Urban Congestion Report (UCR) programs. The data set uses crowd-sourced GPS information, typically obtained from mobile phones, vehicles, and portable navigation devices, to provide monthly average travel times (in 5 minute intervals) along the National Highway System (NHS), Strategic Defense Network (STRAHNET), and principal arterials within five miles of a border crossing. The data is also packaged with a location referencing system, which is a network of segments called Traffic Message Channels (TMCs), which can be used in a geographic information system (GIS) to link travel time data to road segments. The data used in this CMP includes monthly data from 2014 for Bell, Coryell, and Lampasas Counties, and was obtained from TxDOT.

Although the NPMRDS separates probe data into passenger vehicle and freight vehicle data, this CMP Update uses the combined data to account for the effects of congestion on the movement of both people and goods throughout the region.

INRIX

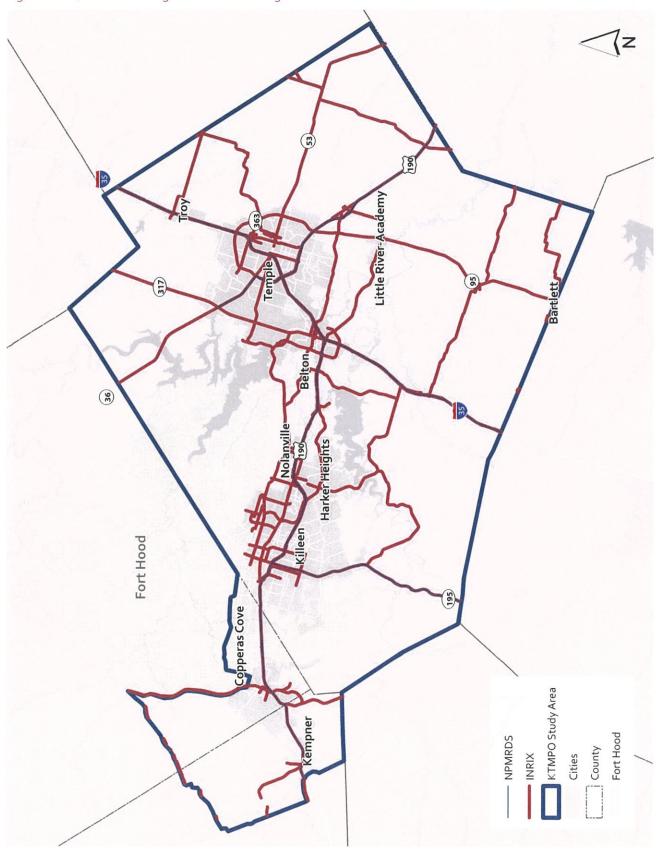
The INRIX data set is similar to the NPMRDS in that it is a probe-based data set produced from GPS information taken from personal navigation devices. However, INRIX traffic data is presented in units of speed, instead of average travel time, averaged over 15 minute intervals. The INRIX speed data set used in this CMP is the 2013 version and was obtained from TxDOT, which packages the data with its Road-Highway Inventory Network (RHiNo) for location referencing and travel time calculation.

Regional Travel Demand Model (TDM)

A TDM is a representation of travel behavior throughout a transportation system network. The model uses roadway attributes and socioeconomic data such as population and employment to predict travel behavior. The latest KTMPO TDM uses 2010 and



Figure 2-1: Quantitative Congestion Data Coverage





CMP Network

Defining a CMP Network involves specifying the geographic boundaries and transportation system components that are the basis of analysis and foundation of the congestion management process. Efforts to improve traffic conditions in the region begin on the CMP Network, and the level of congestion on this network serves as a gauge for overall congestion in the region.

Defining the CMP Network

In May 2013, KTMPO held a series of public workshops to collect input from the community on various transportation topics, including congestion. The public provided feedback about proposed CMP goals and identified congestion locations throughout the area (Figure 2-3). KTMPO staff combined the results from the workshops with congested corridor information provided by the regional public transit provider Hill Country Transit District (HCTD) and Texas Department of Transportation (TxDOT), creating a consolidated list of congested roadways. KTMPO Staff presented this list of roadways to the KTMPO Technical Advisory Committee and Transportation Planning Policy Board where it was approved as the official CMP Network for the region.

The 2013 CMP Network did not take into account quantitative data coverage. However, the 2016 CMP does use quantitative data. As a result of the analysis of this quantitative data, an expanded CMP Network was proposed for the 2016 CMP Update. The updated CMP Network (Figure 2-4) reflects the overlapping data coverage from the four congestion datasets mentioned previously, as well as information gathered from the congestion survey. The network is broken up into segments for analysis purposes, which are detailed in Table 2-2.

Performance Measures

Developing performance measures to identify, assess, and communicate to others about congestion is a critical element of the CMP. A performance measure is a quantifiable measure to assess how well the KTMPO region is meeting the established congestion management goals and objectives. Performance measures serve as indicators to better understand the usage of a transportation facility or the characteristics of travelers using the transportation system. Performance measures can also be assessed over time to indicate whether congestion management strategies are successful in meeting the establish goals and objectives of the CMP.

By monitoring performance and the outcomes from implemented improvement strategies, the quality of decision-making in the planning process can be improved and limited financial resources can be expended more wisely and effectively. The requirement for on-going assessment of the performance measures leads to the need to identify measures that are quantifiable, without placing a heavy burden on time, cost or training on KTMPO staff. This CMP establishes a set of performance measures that can be calculated from real world data on an annual basis and that provide KTMPO with useful information and trends to inform transportation investment decisions.



Figure 2-4: Updated CMP Network (53) Little River-Academy (8) 317 Belton 35 KTMPO Study Area Nolanville Harker Heights County Cities Fort Hood Copperas Cove



Identifying Performance Measures

The Federal CMP requirements do not mandate specific performance measures that must be used during the process. Identifying appropriate congestion performance measures is up to each MPO. Although there are a wide range of performance measures available, it was determined by KTMPO that those selected for this 2016 CMP Update must be understandable, outcome-oriented, and supported by readily available data sources.

The 2013 CMP recommended several performance measures. The 2016 CMP Update evaluated the 213 performance measures to determine whether the old performance measures meet current standards and need for quantifiable measurement. The following questions were considered to assist in identifying appropriate congestion management performance measures:

- O Is the measure easily understandable to both the general public and elected officials?
- O Does the MPO have the ability and adequate funding to collect the data to track the measure on an on-going basis?
- O Does the measure provide the ability to track roadway congestion for the region overall, as well as for individual transportation facilities?
- O Do the measures reflect the local definition of congestion?

Table 2-3 highlights the different performance measures previously considered for inclusion in the CMP, and the following sections below explain the measures in more detail.



Volume-to-Capacity Ratios

In addition to being part of the LOS determination for a roadway, volume-to-capacity (V/C) ratios can be used separately as measure of congestion. V/C ratio is defined as the ratio of demand flow rate to capacity for a traffic facility. Using V/C ratios is popular because data on existing traffic volumes is relatively easy to obtain and the measures (traffic volumes and roadway capacities) can be forecasted by employing the area's TDM.

Travel Time Measures

Travel time measures focus on the time it takes to travel along a selected portion of a highway corridor. Common variations of travel time measures include the following:

- O Travel time the amount of time needed to traverse a corridor segment
- O Travel speed the length of a segment divided by the travel time
- O Travel time index ratio of observed travel speed to free-flow travel speed

These travel time measures can be used for specific roadway segments, intersections, or corridors. The 2016 CMP Update uses the Travel Time Index (TTI) because it allows for direct comparison between different types of roadways in the region.

Delay Measures

Delay measures calculate the additional travel time experienced by drivers due to varying traffic conditions. In other words, delay is the difference between observed travel time and free flow travel time. Delay measures are dependent on how free flow travel time is defined. Free flow travel time could be derived from the posted speed limit or could be defined as the maximum observed travel time. Depending on how free flow travel time is defined, measures of delay can vary.

The 2016 CMP Update proposes using average delay per vehicle as the primary delay measure, supplemented by aggregated delay information where available.

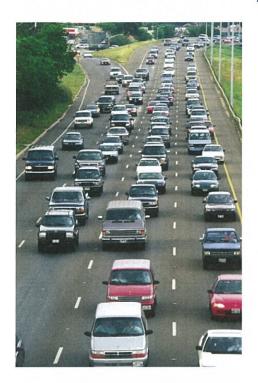
Crash Measures

Crash measures identify high concentrations of crashes at particular locations along a corridor or at a particular turning movement at an intersection or cross street. Crashes certainly impact travel conditions, and can be the cause of nonrecurring congestion along corridors and intersections. Identifying "hot spot" crash locations, and examining the location in the field can assist in identifying potential projects to improve the safety and function of the roadway corridor or intersection. Common improvements could include improving sight distance, adding turn lanes, adding traffic signals, implementing street calming devices, etc. Crash data measures in the KTMPO area could include the following:

- Number of crashes along a specified corridor
- O Number of crashes at a particular intersection
- O Type of crashes along a specified corridor
- O Type of crashes at a particular intersection
- O Number of crashes per million vehicle-miles over a section of roadway

There are some constraints to using crash measures to alleviate congestion. For instance, the type of crashes and how they are recorded can make it difficult to measure congestion from reviewing crash data. There may be reporting inconsistencies in the crash data that is documented by local enforcement agencies. Crashes may not be





Identification of Congestion Hotspots

Identifying congestion hotspots is part of determining specific congestion problems in the region. Part of the identification process also includes defining what levels of congestion are acceptable or unacceptable in the region. The process of congestion hotspot identification involves using the multiple available data sets to calculate performance measures along the CMP Network, and then aggregating those measures in a way that allows for easy comparison between segments. Finally, segments along the CMP Network are prioritized based on the results of the congestion data analysis, as well as other evaluation criteria, that support the goals and objectives of the CMP and ensure compatibility with other regional planning processes.

Data Analysis

There are many ways to analyze congestion, as reflected in the use of multiple performance measures and data sets throughout this CMP. By using these different measures in conjunction with one another, congestion hotspots can be identified with a relative degree of confidence. Using multiple performance measures and data sets also allows for flexibility in defining and identifying congestion, as certain measures from different sources can be weighted and presented differently to reflect congestion in a way that is specific to the region.

Before calculating congestion performance measures for the 2016 CMP Update, the data sets were first processed so that similar attributes or measures could be easily compared from one data set to the next. Using the three major quantitative congestion data sets (NPMRDS, INRIX, and the KTMPO TDM), performance measures were calculated depending on the data available within each data set. Table 3-1 shows how the quantitative congestion performance measures were calculated. Figures 3-1 through 3-4 show congestion in the region as measured through the Travel Time Index across the three quantitative datasets.



Figure 3-1: NPMRDS Travel Time Index

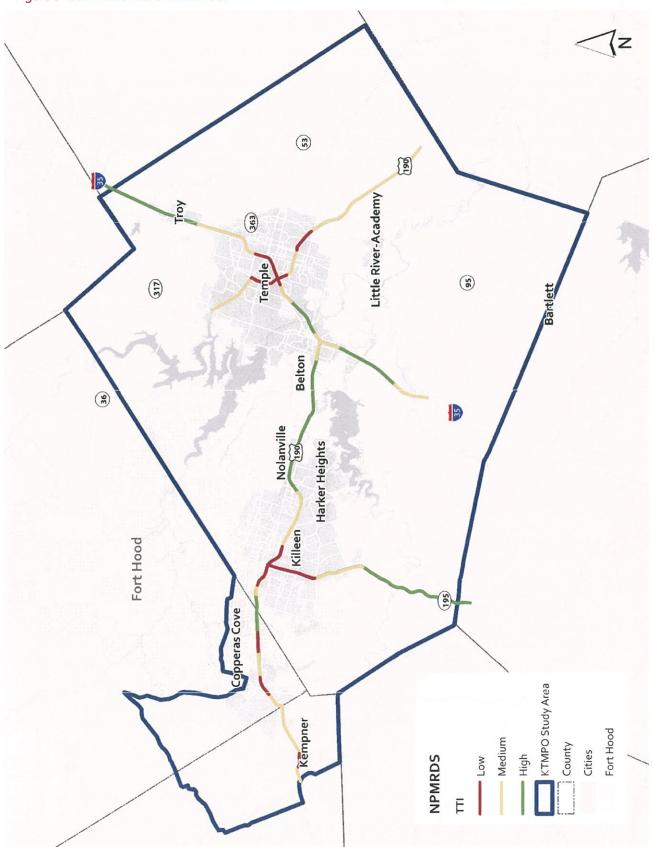
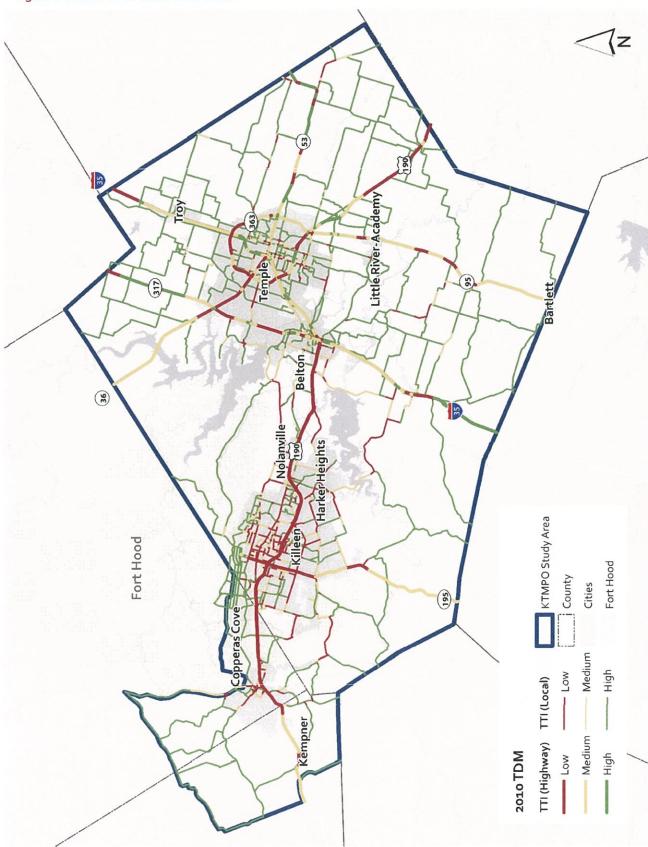




Figure 3-3: 2010 TDM Travel Time Index





Data Conflation

Data conflation is the process of combining the different quantitative congestion data sets that have dissimilar geographic extents. Because the geographic information included with each dataset originated from different sources, it was necessary to aggregate the data into one geographic layer to ensure the results for each segment of the CMP were directly comparable.

The conflation process involved generating a buffer region around each segment of the CMP Network, then using GIS geoprocessing tools to use the buffer as a "catchment area" to collect the segments from each data source. Once the quantitative data was collected on one layer, the previously computed performance measures from Table 3-1 were compared for each data source. The complete inventory of performance measures for each CMP segment can be found in Appendix X.

The final step in the conflation process was to apply weights to the quantitative congestion performance measures and qualitative congestion data (from Google Traffic) to create a composite congestion score. The weights assigned to the congestion data are shown in Table 3-2. This score represents a weighted measure of congestion generated from the various different data sets, both quantitative and qualitative, that identifies congestion hotspots within the region. Figure 3-5 displays congestion hotspots determined by the number of data sources which indicate there is congestion for a particular segment.

Table 3-2: Congestion Score Data Weighting

	Number of Sources	NPMRDS	INRIX	TDM	Google	Total
All Sources	5%	20%	50%	20%	5%	100%
TDM + INRIX	5%		60%	30%	5%	100%
TDM + NPMRDS	5%	50%		40%	5%	100%
TDM Only	25%			70%	5%	100%



Prioritization Process

The data conflation process results in a combined measure of congestion that can be used to rank the segments of the CMP Network to determine the "worst" performing segments in terms of vehicle travel speed. However, the goals and objectives of the KTMPO CMP do not focus solely on speed data as the only means to target congestion mitigation strategies. For that reason, this 2016 CMP Update introduces a more robust congestion hotspot prioritization process that considers other elements of the transportation system as evaluation criteria to determine which congested hotspots should be the primary focus of congestion mitigation strategies in the region. The following section describes the elements of the prioritization process.

Congestion Score

As described in the section about data conflation, each segment of the CMP Network was given a congestion score that represents a weighted measure of congestion as determined through the quantitative and qualitative congestion data collected for the network. The congestion score was the most heavily weighted evaluation criteria used in the prioritization process.

Other Evaluation Criteria

The CMP uses the other evaluation criteria described in the following section to prioritize congestion hotspots in the region. The full results of the prioritization process, including tables detailing the values assigned for the evaluation criteria for each segment, can be found in Appendix X.

Traffic Volume

Using traffic volumes in the prioritization process allows the CMP to consider not only the severity of congestion on each segment, but also the magnitude of the congestion (i.e. how many people are affected by congestion). The volume data used in the prioritization process was taken from the Travel Demand Model, and represents the average flow along all TDM links within a segment.

Safety

One of the primary goals of the CMP is to facilitate the movement of people and goods in a safe manner. Therefore, safety was a major consideration in the prioritization process for the 2016 CMP Update. There were two evaluation criteria related to safety that were used to rank the congested hotspots:

- O Crash Rate The prioritization process uses the number of crashes normalized by the volume of traffic along each roadway in the CMP Network to prioritize congestion hotspots. The goal of including the crash rate is that segments with higher occurrences of crashes will receive higher priority so that future projects aimed at addressing congestion on that segment may also reduce crash rates.
- O Rear End Crash Rate In addition to considering the overall crash rate, the prioritization process also considers the percentage of crashes that are rear-end collisions. Rear end crashes could correspond to a higher prevalence of congestion where motorists may unexpectedly encounter congestion-related queues.





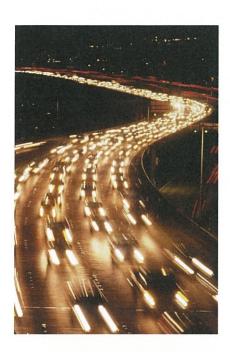
Prioritized Hotspot List

Table 3-4 and Table 3-5 show the congested segments of the CMP Network, ranked based on the results of the prioritization process. The list is separated into highway and arterial elements of the CMP Network. The list represents a snapshot of the highest priority congestion hotspots along the transportation network in Killeen-Temple based on the data available during the 2016 CMP Update. As KTMPO continues to acquire data and update other regional planning documents, the evaluation criteria and weights used to sort this list should be revisited to ensure that the CMP continues to reinforce current planning efforts in the region.

Table 3-4: Final Prioritized List of Congestion Hotspots – Highways

Segment ID	Description	Priority Rank
4C	US 190 - SH 9 TO FM 3470/STAN SCHLUETER LOOP	1
4D	US 190 - FM 3470/STAN SCHLUETER LOOP TO BUSINESS 190	2
4E	US 190 - BUSINESS 190 TO IH 35	3
20A	IH 35 - SALADO (FM 2268) TO US 190	4
20C	IH 35 - S LOOP 363 TO N LOOP 363	5
26B	LOOP 363 - SPUR 290 TO IH 35 S	6
20B	IH 35 - US 190 TO S LOOP 363	7
20D	IH 35 - N LOOP 363 TO FALLS COUNTY LINE	8
26C	LOOP 363 - IH 35 S TO SH 36	9
26A	LOOP 363 - US 190 TO SPUR 290	10
16	SH 195 - WILLIAMSON COUNTY LINE TO FM 3470/STAN SCHLUETER LOOP	11
32B	US 190 SE - PRITCHARD RD TO MILAM COUNTY LINE	12
4A	US 190 - FM 1715 TO BUSINESS 190	13
28	SH 36 - LOOP 363 TO SH 317	14
32A	US 190 SE - LOOP 363 TO PRITCHARD RD	15
26E	LOOP 363 - IH 35 N TO SH 53	16
26D	LOOP 363 - SH 36 TO IH 35 N	17
26F	LOOP 363 - SH 53 TO US 190	18





Congestion Mitigation Strategies

The CMP is a tool to be utilized in the KTMPO region to address persistent congestion problems and prioritize transportation investments. There are many congestion management strategies and these strategies differ in terms of effectiveness, cost, complexity, and difficulty of implementation. Congestion management strategies are not one size fits all. Congested roadways and intersections need to be properly examined to evaluate which congestion mitigation strategy will effectively improve the congestion related problems. The CMP framework identifies numerous congestion mitigation strategies that can individually or collectively improve the operational efficiency of the KTMPO transportation system. When suitable strategies are implemented, the improvements impact auto, transit, pedestrian, and bicycle usage. The following sections identify several proven congestion management strategies that can be used to mitigate congestion in the KTMPO region.

Identifying Strategies

The mitigation strategies presented in the following section were selected based on their appropriateness for the KTMPO region and address congestion from a variety of angles. New infrastructure, infrastructure optimization, technological efficiency improvement, non-motorized improvement, and non-infrastructure program strategies have been considered for this plan. These strategies confront congestion at multiple scales so as to address deficiencies at specific locations as well as region-wide. Some strategies are more appropriate for highway projects, while others are more appropriate for arterial road projects.

How well each strategy can effectively mitigate operational, intersection, and capacity deficiencies depends on the specifics of each situation. There is no single best strategy for mitigating congestion. Instead, areas prone to congestion need to be reviewed on a case-by-case basis, and the most appropriate strategies for each situation need to be selected. This plan provides a toolbox of strategies that are already being used in the KTMPO area, as well as additional strategies that are being implemented in similar areas.

New Infrastructure

New infrastructure strategies, such as building new roadways, are typically used to significantly increase capacity in areas with high congestion. New infrastructure strategies typically do not aid in relieving non-recurring congestion, which accounts for about half of all congestion (FHWA, 2015). Non-recurring congestion, such as construction work, weather, and special events should be addressed by other means. Building new infrastructure can also be much more cost-intensive than improving existing infrastructure or operations, especially if new right-of-way must be procured.

Constructing Park-and-Ride Facilities

Park-and-ride facilities allow easy integration of multiple transportation modes and help facilitate the use of alternative transportation to and from areas with high traffic volumes. Motorists can leave their cars at the facility, then use transit to complete their journey. This relieves the motorists from the burden of finding parking at the final destination and can provide a more pleasant commute experience compared to driving in congested traffic.



Right-of-Way Management

Maintaining and preserving existing right-of-way makes it easier to make future roadway improvements, as the region grows and roadway enhancements become more necessary.

Highway Geometric Improvements

Improvements to highway geometry can reduce crashes and improved traffic flows.

Wayfinding and Signage Improvements

Clearly marked streets and wayfinding can help maintain steady traffic flows and direct vehicles down the most appropriate routes.

Transit Fixed Route Operations

Fixed route transit services, such as additional bus routes, can provide a more predictable and reliable service to transit users and encourage others to begin using this service instead of driving. The presence of transit service has the effect of increasing total capacity of a roadway due to the more efficient utilization of space needed to move several people by a bus or transit vehicle compared to several single-occupant automobiles.

Intersection Turn Lanes

By separating turning traffic from through traffic, movement can be maintained and the number of vehicle conflicts can be reduced.

Grade Separated Railroad Crossings

Grade separation can improve safety and reduce the amount of queued traffic caused by long trains.

Roundabout Intersections

Roundabouts can help facilitate a continuous flow of traffic and reduce the number of conflicts in an intersection. By reducing the amount of stop and go traffic, roundabouts can also improve air quality and reduce noise.

Acceleration/Deceleration Lanes

Additional lanes for accelerating or decelerating allow for vehicles to safely match speeds with other vehicles before merging.

Hill-Climbing Lanes

Hill-climbing lanes allow for safe passing of slower vehicles while ascending hills.

Grade-Separated Intersection

The separation of grades at intersections can reduce vehicle conflicts where crashes are more likely to occur.

Designated Truck Routes

Diverting commercial and truck traffic to designated roads can limit congestion, air pollution, and noise along those roads, while potentially relieving congestion on other roads.





Traffic Signal Optimization

Optimizing timings and sensors for location specific needs can help maintain traffic flows.

Transit Signal Priority

By giving transit services priority at traffic signals, transit services can be improved and incentivized as a viable mode of transportation.

Demand-Responsive Signal System

Traffic signals modify timings based on traffic demand and help to maintain traffic flows when the transportation system is under heavy load.

Transit Vehicle Tracking

Tracking the exact locations and arrival times of transit vehicles can improve the user experience and incentivize transit use.

Non-Motorized Improvements

Non-motorized improvement strategies typically involve improving or creating new infrastructure that more effectively facilitates the use of active transportation. Active transportation includes modes such as walking or biking. Encouraging and facilitating active transportation can help reduce the number of trips made by single occupancy vehicles, thus reducing congestion on roadways. According to the National Travel Household Survey (2009), about half of all trips in metropolitan areas are three miles or less and about 28% of all trips are one mile or less. These distances can easily be made by bicycle or on foot, but 65% of trips one mile or less are made by automobile. Capacity improvements for non-motorized transportation often have no effect on motorized transportation capacity but can decrease the demand for motorized transportation. Non-motorized improvements can also improve safety conditions and reduce conflicts for people who currently already use active transportation.

Bicycle Paths/Lanes

Additional bicycle lanes/paths can improve safety for those who travel by bicycle and help to facilitate the use of bicycles to replace shorter trips usually taken by cars.

Sidewalks

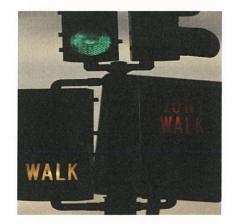
Sidewalks along roadways can improve the safety conditions for pedestrians and help reduce conflicts between pedestrians and motorists.

Pedestrian Signals

Pedestrian signals can help to improve pedestrian safety as well as reduce conflicts at intersections.

Bicycle Racks

Secure, safe, and convenient bicycle parking options can encourage more cycling and reduce trips taken by car.







the transportation system as well as influence how commuters select their travel mode. Implementing land uses that contain a mix of residential, retail, and employment can improve the feasibility of conducting trips by walking or biking, therefore reducing automobile demand on congested corridors.

Commuter Choice Tax Benefits

Employers can provide incentives and discounted transit passes to encourage transit use in exchange for tax benefits.

HOV Toll Savings

Preferential pricing for multi-occupant vehicles on toll roads incentivizes ridesharing, which can again reduce the number of cars on the road at a particular time.

Parking Management

Preferential parking for vehicles that carry more than a single occupant can encourage ridesharing.

Driver Education

Driver education programs can inform drivers about choices that are available to avoid and reduce congestion.

CMP Strategy Toolbox

Table 4-1 displays the "toolbox" of strategies for the KTMPO region to consider when managing congestion. The toolbox includes several attributes for each strategy to help local policy-makers and transportation planners assess the applicability of each strategy to particular types of deficiencies/congestion in the region (columns 2 through 4). Columns 5 through 10 provide information about each strategy in terms of implementation period, inclusion in the 2013 CMP, and appropriate facility type for implementation: highway, arterial, or strategies that are not dependent on any particular location but are instead regional in extent (typically strategies that address demand management).



Evaluating Strategy Effectiveness

The 2016 CMP update provides KTMPO with a prioritized list of congested roadway segments in the region, as well as a list of strategies that can be considered in future planning studies that may address congestion in those hotspot locations. This update also takes the initial step of assessing the effectiveness of each of these strategies towards addressing the particular congestion problems identified during data analysis. The matrices in Tables 4-2 through Table 4-4 show whether a highway or arterial congestion mitigation strategy is likely to be effective, marginally effective, or not applicable to each segment of the CMP Network. As the priorities and travel patterns in the region continue to change, new projects are implemented, and new mitigation strategies are identified, these matrices will be updated to reflect the most up-to-date assessment of how the region can best address its congestion needs. It should also be noted that these recommendations are no substitute for detailed corridor-level analyses, which will be necessary to conduct before any specific projects can be advanced through the region's Metropolitan Transportation Plan (MTP) and Transportation Improvement Plan (TIP) planning and implementation processes.



Table 4-3: CMP Strategy Effectiveness (Arterials)

able 4-5. CIVIP Strategy Effectiveness (Art	Ci iais,												
slangi2 naistabe9		•	0	•	0	0	•		•	0	0	0	0
Sidewalks		•	•			•	•	0	0	0			
Bicycle Paths/Lanes		0	0		0	0		0	•	•	0	0	
Yshoinglesignsity	0	•	0	•	0	0		0		0	•	0	
Electronic Commercial Vehicle Clearance and Tolla	0	0	0	0	0	0	0	0	0	0	0	0	0
noizezimiżąO lengi2 ciłlerT		•	0	•		•				0		0	
Demand-Responsive Signal System		•	0	•				0	•	•		0	•
eane J pridmiD-IIIH	0	0	0	0	0	0	0	0	0	0	0	0	0
Bottleneck Removal	0	•	0	•				0		•	-	0	
Grade-Sepa rated Intersection	0	0	0	0	0	0	0	0	0	0	0	0	0
Acceleration/Decelers tion Lanes	0	0	0	0	0	0	0	0	0	0	0	0	0
Roundabout Intersections	0	0	0	•	0			0	•	0	0	0	0
Strait Se parated Railroad Crossings	0	0	0	0	•	0	0	0	0	0	0	0	0
lntersection Turn Lanes	0	•	0	•		0	0	0	0	•	0	0	0
Bus Pullouts	0	•		•				•	0	0	•	0	
Bus on Shoulder System (BOSS)	0	0	0	0	0	0		0	0	0	0	0	0
Transit Fixed Route Operations	0	•	0	•	•	•		0		•	•		0
Highway Geometric Improvements	0	0	0	0	0	0	0	0	0	0	0	0	
Right of Way Management	0	•	0	0	•	0			0	0	•		
etments TreebM		•		0	•	0		0		0		0	0
gnibeq2 yewevha	0	0	0	0	0	0	0	0	0	0	0	0	0
Subseq2 season	0	0	0	0	0	0	0	0	0	0	0	0	0
Mew Location Roadways	0		*	•	•			0				0	0
New SOV Lanes	0	0	0	0	0	0	0	•	0	0	0	0	0
Current Project	ш	- 1	1	- 1	- 1	>	- 1	1	- 1	. 1	- 1	- 1	- 1
Capacity Deficiency	×	×	×	1	×	1	×	1	1	×	- 1	1	
Instersection Deficiency	×	×											
		EMPER T				1	- 1	×	×	- 1	- 1	×	×
Operational Deficiency	×	×	×	×	×	, ×	×	× ,	×	1	×	×	× ,
Priority Rank Operational Deficiency	×					× 9	, X			1 1	я ×		
		×	×	×	×			1	×	AVE D - N 1ST STTO BUSINESS 190		×	1



"...the most important element of the CMP is the Monitoring Plan..."

Plan Monitoring and Performance Tracking

The Congestion Management Process is intended to be a dynamic guidebook for tracking progress towards the region's congestion management goals. As such, the most important element of the CMP is the Monitoring Plan, which guides the MPO through the process of tracking and reporting performance on the CMP Network and assessing progress made towards congestion reduction.

The general steps required to carry out an effective monitoring program for congestion management are:

- 1. Maintain and update the designated CMP network
 - Evaluate available data sources to determine any expansion in coverage
- Identify locations where CMP projects have been implemented and document these segments in the appropriate GIS layer
 - a. Identify the strategy within the strategy matrix that each project implements
- 3. Obtain selected monitoring datasets from TxDOT or other available sources
- 4. Use the performance monitoring datasets to evaluate the CMP network performance
- Document outcomes, particularly at locations where transportation investments have been made, to determine performance improvements or identify challenges remaining to be addressed

The first two steps in the monitoring plan are straightforward and are not expanded upon in this chapter. The following sections describe the data sources, processing, and outcome documentation that KTMPO should implement to monitor system performance.

Step 3: Obtain Performance Data

As discussed in Chapter 2, thanks in large part to the proliferation of smartphone data, there are now a number of travel time data sources available to KTMPO through its planning partners. In monitoring system performance, KTMPO should seek to acquire the following data sources:

- o National Performance Management Research Data Set (NPMRDS) The NPMRDS is readily available through TxDOT and delivered in a manner that is fairly user-friendly. As the official data source used by FHWA to calculate Federal performance measures, the NPMRDS also provides KTMPO with technical support from FHWA. Unfortunately, data coverage is limited to roadways on the National Highway System. At the time of the 2016 CMP Update, FHWA was in the process of re-procuring the NPMRDS, so in upcoming years there may be changes to the format of the data.
- O INRIX INRIX is a private travel data company that collects data and sells it to interested parties. In this case, TxDOT has partnered with the Texas A&M Transportation Institute (TTI) to purchase data from INRIX and have TTI process the data to produce the annual list of the top 100 congested roadway segments



 Connect performance measure calculations to geographic data – the process for joining the performance data to the shapefile is explained in detail by the guidebook provided by FHWA that accompanies the data.

INRIX

In the file format that TxDOT provides INRIX data to its planning partners, most of the data processing has already been accomplished. The data deliverable contains a spreadsheet that has 15-minute average travel speeds and freeflow travel speeds already computed for each RHiNo segment, and a shapefile with the RHiNo segments for all roadways in the region. The MPO can use the 15-minute and freeflow speed data to compute the TTI and Delay performance measures. Additional delay measures outlined in Chapter 3 are available in another spreadsheet, which contains the performance measures calculated by TTI for the Texas 100 Most Congested Roadways. Note that the Texas 100 roadway network may not contain performance data for as many roadways as may be available through the 15-minute spreadsheet. The data deliverable also contains a guidebook that the MPO may use to join the calculated performance data to the provided shapefiles, although some care is advised to ensure that the directionality of the speed data aligns with the directionality of the shapefile.

Google Traffic

The first step to collect congestion data from Google Traffic is to identify a reference network (e.g. CMP Network) to determine which roads to evaluate. The network as a whole is split into manageable sections or cells that should roughly reflect the scale to which Google Maps is being viewed during the data collection. The scale in Google Maps should be defined so that all roads are easily identified—that is, roads do not overlap others to the point that the level of congestion cannot be deciphered—but it should not be zoomed in so far that the traffic overlay shows data for small local roads not a part of the analysis. A half-mile to one-mile scale in Google Maps should be sufficient.

The next step is to set up a data log which records a unique ID, street name, direction, and extent identified by closest cross street. Extent of each segment is different and does not necessarily have to be from one major road to another. The log should also include the specified time periods and days for which data is being collected. Once the congestion log is set up, the next step is to work cell-by-cell screening for congested segments. This process involves observing the Google Traffic overlay for each specified time period and day, taking note of where there is reoccurring congestion. Then, focusing in on one of the identified congested segments, record the segment description information in the data log and work through the different time periods recording the magnitude of congestion, based on the scale provided in Google Traffic. Once this process is completed for a segment, the process is repeated for other segments along the reference network in that cell. Before moving on to the next cell, screenshots of the full extent of the cell in Google Maps should be taken as a QC measure.

After all congested segments have been identified for the reference network, the collected congestion information is aggregated and brought into GIS. This is done by either creating a new shapefile and manually drawing in the congested segments based on Google base maps and the descriptions provided in the data log or by using the data log to approximately match the congestion data to a current network. The final product should include congested segments with associated attributes that describe the







Step 5: Documenting Performance Outcomes

Once performance measures have been calculated from the appropriate datasets, KTMPO should note year-over-year changes in each metric for each reporting segment of the CMP Network. This should result in a re-prioritization of the segments to determine what changes (if any) have occurred to the list of highest priority congested roadway segments. The MPO may choose to expand upon or re-weight the evaluation criteria used in the prioritization process to best align the process with current metropolitan planning goals and objectives.

While documenting performance changes, KTMPO should note which segments of the CMP Network had congestion mitigation projects implemented during the time since the last performance update (this should have been accomplished in Step 2 of the monitoring plan). Noting correlations between the types of strategies that are implemented and the changes in congestion performance will allow the MPO to develop metrics that predict the expected performance impacts for strategies in the CMP Toolbox.

For example, if one of the region's municipalities implements a signal re-timing project along several roadway corridors on the CMP Network, the MPO can record the changes in the TTI and delay on those corridors before and after the signal re-timing and develop an average improvement value that can be expected on similar corridors for which signal re-timing is an appropriate congestion mitigation strategy. Once specific projects are implemented, performance improvement metrics can be directly compared to project costs to identify the most cost-effective congestion mitigation strategies that are tailored to conditions in the region.

Conclusion

An ongoing monitoring program is one of the key steps in implementing the FAST Act performance management strategy. It not only allows KTMPO to identify emerging problems on the transportation system, but it also allows the MPO to measure the outcomes of transportation investment decisions to determine if the planning process is being effective in addressing local transportation challenges. Learning what works and doesn't work provides a basis for continuous improvement in the outcomes of the metropolitan planning process.

Resolution Walk to School Month/Day



Transportation Planning Policy Board September 21, 2016

Agenda Item No. 6

Resolution Supporting Walk to School Month and Walk to School Day

Summary:

Organized by the Partnership of a Walkable America, National Walk to School Day in the United States began in 1997. In 2000, the International Walk to School Day was created when the US, UK, and Canada joined together to promote walking to school. As participation in International Walk to School Day increased, the International Walk to School Committee declared the month of October as International Walk to School Month in 2006. Today, approximately 40 countries worldwide celebrate walking to school every October including 14,800 schools in the US. October 5th, 2016 is also declared as International Walk to School Day.

The KTMPO Bike/Ped Advisory Committee recommended the TPPB approve a resolution supporting October 2016 as Walk to School Month and October 5, 2016 as Walk to School Day in the KTMPO region.

<u>Action Item:</u> Approve resolution supporting the month of October as Walk to School Month and October 5, 2016 as Walk to School Day.



RESOLUTION NO. 2016-02

A RESOLUTION OF THE KILLEEN-TEMPLE METROPOLITAN PLANNING ORGANIZATION PROCLAIMING THE MONTH OF OCTOBER 2016 AS WALK TO SCHOOL MONTH AND OCTOBER 5, 2016 AS WALK TO SCHOOL DAY

WHEREAS; The International Walk to School Committee has declared October 2016 as International Walk to School Month and October 5, 2016 as Walk to School Day; and

WHEREAS: International Walk to School Month provides an opportunity for all young Texans

International Walk to School Month provides an opportunity for all young Texans to live a healthy lifestyle while educating the general public about the benefits of non-

motorized transportation uses; and

WHEREAS; International Walk to School Month encourages all citizens to walk, thereby reducing

vehicular emissions in Central Texas; and

WHEREAS; walking is a healthy, safe, and environmentally-friendly form of transportation and an

excellent form of recreation; and

WHEREAS; walking within communities is an effective means to reduce air pollution, conserve

energy, and promotes the "livability" of communities by reducing traffic, noise, and

congestion;

NOW, THEREFORE, BE IT RESOLVED that the Killeen-Temple Metropolitan Planning Organization hereby

proclaims October 2016 as Walk to School Month and October 5, 2016 as Walk to

School Day in the CTCOG region.

BE IT FURTHER RESOLVED that the Killeen-Temple Metropolitan Planning Organization urges all to

participate in walking events and urges all road users to share the road safely with

pedestrians.

PASSED AND ADOPTED on this 21st day of September, 2016 at a regular meeting of the Killeen-Temple

Metropolitan Planning Organization Transportation Planning Policy Board (TPPB)

meeting which was held in compliance with the Open Meetings Act, Texas Government

Code, 511.001, et seq., at which meeting a quorum was present and voting.

ATTEST:

Officer Elections and Calendar for FY17

and the second of the second of the second



Transportation Planning Policy Board September 21, 2016

Agenda Items No. 7, 8 & 9

Item No. 7: Nomination and Election of TPPB Chair for FY2017

Past Practice:

KTMPO Bylaws allow officers of the Transportation Planning Policy Board (TPPB) to serve in an officer position for a maximum of two consecutive years per term. However, per MAP-21 legislation, TPPB members in a Transportation Management Area must be local elected officials. Although Chair Cosper has only served one year, due to his change in status, he cannot continue to serve on the TPPB, which opens up the Chair position for FY2017.

In selecting the Chair, nominations will be entertained from the membership at large, since a nominating committee was not established by the TPPB. In the past, it has been common practices for the Vice Chair to move up to the Chair position. Vice Chair Marion Grayson has indicate her willingness to serve as the Chair if so desired by the TPPB.

Action Needed:

TPPB nominations and election of Chair for FY2017.

Item No. 8: Nomination and Election of TPPB Vice Chair for FY 2017

Past Practice:

In the past, it has been common practice for the Chair and Vice Chair to represent different areas of the KTMPO region. If the Chair represents the eastern portion of the KTMPO region, then a representative from the western portion has been elected as Vice Chair.

In selecting the Vice Chair, nominations will be entertained from the membership at large, since a nominating committee was not established by the TPPB.

Action Needed:

TPPB nominations and election of Vice Chair for FY2017.

Item No. 9: Meeting Schedule for FY2017

Narrative:

KTMPO staff has prepared a tentative meeting schedule for FY2017. The Technical Advisory Committee (TAC) typically meets the 1st Wednesday of the month, while the Transportation Planning Policy Board (TPPB) typically meets the 3rd Wednesday of the month. These dates are highlighted on the attached schedule.

Note: We are trying to reschedule the October and November TAC meeting dates and will update you as soon as possible. TPPB members are asked to review the proposed schedule and discuss potential conflicts.

Action Needed:

TPPB approval of meeting schedule for FY2017.

FY 2017

KTMPO Meeting Calendar

TAC	1st Wednesday	of	Month
-----	---------------	----	-------

		Oct	obe	r '10	6	
Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

November '16								
Su	M	Tu	W	Th	F	Sa		
		1	2	3	4	5		
6	7	8	9	10	11	12		
13	14	15	16	17	18	19		
20	21	22	23	24	25	26		
27	28	29	30					

	D	ece	mb	er '′	16		
Su M Tu W Th F							
				1	2	3	
4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30	31	

	1198	Jan	uan	y 1		
Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

February '17								
Su M Tu W Th F								
			1	2	3	4		
5	6	7	8	9	10	11		
12	13	14	15	16	17	18		
19	20	21	22	23	24	25		
26	27	28						
26	21	28						

March '17								
Su	M	Tu	W	Th	F	Sa		
			1	2	3	4		
5	6	7	8	9	10	11		
12	13	14	15	16	17	18		
19	20	21	22	23	24	25		
26	27	28	29	30	31			

April '17								
Su	M	Tu	W	Th	F	Sa		
						1		
2	3	4	5	6	7	8		
9	10	11	12	13	14	15		
16	17	18	19	20	21	22		
23	24	25	26	27	28	29		
30								

SII	M		ay '	Th	F	92
ou E	MARKET PROPERTY.	SERVICE SERVIC	CONTRACTOR OF	4	PARTIES NO.	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

June '17						
Su	M	Tu	W	Th	F	Sa
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

July '17						
Su	M	Tu	W	Th	F	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Su	M	Tu	W	Th	F	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

KTMPO Contacts, Acronyms, and Terms



POLICY BOARD

Chairman:

Scott Cosper

City of Killeen

2110 Southport, Killeen, TX 76542

Phone: (254) 554-5929 Fax: (254) 526-2167 scosper1@hot.rr.com

Alternate: Ann Farris, David Olson, Scott Osburn

Vice Chairman:

Mayor Marion Grayson

City of Belton

333 Water Street, Belton, TX 76513

Phone: (254) 718-7878 Fax: (254) 939-0468

mariongrayson@gmail.com
Alternate: Sam Listi, Erin Smith

Commissioner Tim Brown

Bell County

P.O. Box 768, Belton, TX 76513

Phone: (254) 933-5102
Fax: (254) 933-5179
tim.brown@co.bell.tx.us
Alternate: Bryan Neaves, P.E.

Mayor Frank Seffrood

City of Copperas Cove

PO Drawer 1449; 914 S. Main St., Ste. C

Copperas Cove, TX 76522 Phone: (254) 542-8926

fseffroodl@copperascovetx.gov

Alternate: Andrea Gardner, Dan Yancey

Judge John Firth

Coryell County Main Street Annex

800 E. Main Street, Suite A

Gatesville, TX 76528

Phone: (254) 865-5911, ext. 2221

Fax: (254) 865-2040

county judge@coryellcounty.org
Alternate: Commissioner Don Jones

Mayor Danny Dunn

Temple City Council 1400 S 31st Street Temple, TX 76504

Phone: (254) 774-7355 ddunn@templetx.gov

Alternate: Jonathan Graham, Nicole Torralva, Brian Chandler

Councilmember Tim Davis

City of Temple

2 North Main #103, Temple TX 76501

Phone: (254) 298-5301 Fax: (254) 298-5637 tdavis@templetx.gov

Alternate: Jonathan Graham, Nicole Torralva, Brian Chandler

Mayor Rob Robinson

City of Harker Heights

305 Miller's Crossing, Harker Heights, TX 76548

Phone: (254) 953-5600 Fax: (254) 953-5605

rrobinson@ci.harker-heights.tx.us

Alternate: David Mitchell

Juan Rivera

City of Killeen

101 N. College Street

Killeen, TX 76541

Phone: (254) 624-0872 <u>irrivera@killeentexas.gov</u>

Alternate: Lillian Ann Farris, David Olson, Scott Osburn

Gregory Johnson

City of Killeen

101 N. College Street Killeen, TX 76541

Phone: (254) 702-5162

gdjohnson@killeentexas.gov

Alternate: Lillian Ann Farris, Shirley Fleming, Scott Osburn



POLICY BOARD

Commissioner Mark Rainwater

Lampasas County P.O. Box 231

Lampasas, TX 76550 Phone: (512)734-0742 Fax: (512)556-8270 rainwater150@gmail.com

Alternate:

Carole Warlick

General Manager, Hill Country Transit District

P.O. Box 217, San Saba, TX 76877

Phone: (325) 372-4677
Fax: (325) 372-6110
cwarlick@takethehop.com
Alternate: Robert Ator

Bobby G. Littlefield, JR., P.E.

District Engineer, TxDOT Waco

100 South Loop Drive Waco, Texas 76704 Phone: (254) 867-2701 Fax: (254) 867-2893

Bobby.Littlefield@txdot.gov
Alternate: Michael Bolin

Elias Rmeili, P.E.

TxDOT Brownwood District Engineer

2495 Hwy 183 North Brownwood, TX 76802 Phone: (325) 643-0411

Fax: (325) 643-0364 elias.rmeili@txdot.gov Alternate: Jason Scantling

Bell County Representative

Vacant

NON VOTING MEMBERS

Mary E. Himic

Deputy to the Garrison Commander Building 1001, Room W321, Fort Hood, TX 76544

Phone: (254) 288-3451 Fax: (254) 286-5265 mary.e.himic.civ@mail.mil

Alternate: Brian Dosa, Keith Fruge

Justin P. Morgan

Federal Highway Administration, Texas Division 300 East 8th Street, Rm 826 Austin, Texas 78701



TECHNICAL ADVISORY COMMITTEE

Judge John Firth

Coryell County Main Street Annex 800 E. Main Street, Suite A Gatesville, TX 76528

Phone: (254) 865-5911, ext. 2221

Fax: (254) 865-2040

county_judge@coryellcounty.org

Alternate: Commissioner Don Jones

Commissioner Mark Rainwater

Lampasas County P.O. Box 231 Lampasas, TX 76550 Phone: (512)734-0742

Fax: (512)556-8270
rainwater150@gmail.com

Alternate:

Lillian Ann Farris

Interim Killeen City Manager 101 N. College St., Killeen, TX, 76541

Phone: (254) 616-3230 Fax: (254) 634-2484 afarris@killeentexas.gov

Alternate: Scott Osburn, David Olson

Andrea Gardner

Copperas Cove City Manager

P.O. Drawer 1449

Copperas Cove, TX 76522 Phone: (254) 547-4221 Fax: (254) 547-5116

agardner@copperascovetx.gov

Alternate: Charlotte Hitchman, Dan

Yancey

David R. Mitchell

City Manager
City of Harker Heights
305 Miller's Crossing
Harker Heights, TX 76548

Phone: (254) 953-5600

dmitchell@ci.harker-heights.tx.us
Alternate: Mark Hyde, Joseph Molis

Erin Smith

Belton Planning Director 333 Water St., Belton, TX 76513 Phone: (254) 933-5812

Fax: (254) 933-5822

enewcomer@beltontexas.gov

Alternate: Sam Listi

Brian Chandler

Temple Planning Director
2 North Main, Temple, TX 76501

Phone: (254) 298-5272 <u>bchandler@templetx.gov</u> Alternate: Don Bond, Jonathan Graham, Nicole Torralva

Bryan Neaves, P.E.

Bell County Engineer

P. O. Box 264, Belton, TX 76513

Phone: (254) 933-5275
Fax: (254) 933-5276
bryan.neaves@co.bell.tx.us
Alternate: Stephen Eubanks

Carole Warlick

General Manager, Hill Country Transit

District

P.O. Box 217, San Saba, TX 76877

Phone: (325) 372-4677
Fax: (325) 372-6110
cwarlick@takethehop.com
Alternate: Robert Ator

Michael Bolin, P.E.

Director, Transportation Planning & Development, TxDOT Waco
100 South Loop Drive, Waco TX

76704-2858

Phone: 254-867-2865
Fax: 254-867-2738
michael.bolin@txdot.gov
Alternate: Liz Bullock

Jason Scantling, P.E.

Director, Transportation Planning & Development, TxDOT Brownwood 2495 Hwy 183 North, Brownwood, TX

76802

jason.scantling@txdot.gov Alternate: Tamara Cope

NON VOTING MEMBERS

Mary E. Himic

Deputy to the Garrison Commander Building 1001, Room W321, Fort

Hood, TX 76544 Phone: (254) 288-3451 Fax: (254) 286-5265 mary.e.himic.civ@mail.mil

Alternate: Brian Dosa, Keith Fruge

Justin P. Morgan

Federal Highway Administration, Texas Division 300 East 8th Street, Rm 826 Austin, TX 75093 justin.morgan@dot.gov

Liz Bullock

TxDOT Waco District
Transportation Planner
100 South Loop Drive, Waco TX

76704-2858

Phone: (254) 867-2751 Fax: (254) 867-2738 liz.bullock@txdot.gov

Megan Campbell

Transportation Planning & Programming Division, TxDOT MPO Coordination

118 E. Riverside Drive, Austin TX

Phone: (512) 486-5042 megan.campbell@txdot.gov

Kara Escajeda

Nolanville City Manager 101 North 5th Street Nolanville. TX 76559 Phone: (254) 698-6335

kara.escajeda@ci.nolaville.tx.us



Chair Kara Escajeda

Nolanville City Manager 101 North 5th Street Nolanville, TX 76559

Email: kara.escajeda@ci.nolanville.tx.us

Vice Chair Reese Davis

Killeen Police Department 402 N 2nd St Killeen, TX 76541

Email: rdavis@killeentexas.gov

Matt Bates

Belton Park and Recreation Director P.O. Box 120 401 N. Alexander Belton, TX 76513

Email: mbates@beltontexas.gov

Joe Brown

Copperas Cove Park and Recreation Director 1408 Golf Course Road Copperas Cove, TX 76522 Email: jbrown@copperascovetx.gov

Brian Chandler

Temple Planning Director 2 North Main Street Temple, TX 76501 Email: bchandler@templetx.gov

Keith Dyer

Morgan Point Resort Council Member 8 Morgan's Point Blvd.
Morgan's Point Resort, TX 76513
Email: keithdyer82@gmail.com

Leo Mantey

Harker Height City Planner 305 Millers Crossing Harker Heights, Texas 76548 Email: lmantey@ci.harker-heights.tx.us

Amy Seaman

Ft. Hood Community Planner 4612 Engineer Drive Fort Hood, TX 76544-5028 Email: amy.l.seaman2.civ@mail.mil

Kris Long

TxDOT Waco District, Special Project Coordinator 100 South Loop Waco, TX 76704

Email: Kris.Long@txdot.edu

BICYCLE/PEDESTRIAN ADVISORY COMMITTEE

Robert Ator

Director of Urban Operations, HCTD 4515 W. US 190 Belton TX 76513

Email: rator@takethehop.com

Pamela Terry

Citizen Representative 44 Hickory Ln. Belton, TX 76513

Email: TERRYP8@nationwide.com

Peggy McIlvanie

Citizen Representative Phone: (254) 421-9706

Lindsey Anderson

Team RWB/Citizen Representative 2413 Stratford Dr. Temple, TX 76502

Email: lindmanderson@gmail.com

Alternate: Kyle Fischer

Chad Welch

Tri-City Bicycles/Citizen Representative 1010 Arbor Park Belton, TX 76513

Email: welchc01@live.com
Alternate: Mike Anderson

Keller Matthews

BS&W Cycling Club/Citizen Representative 600 S 25th St Temple, TX

Email: KMATTHEWS@sw.org

Doug Edwards

Central Texas College/Citizen Representative 6200 W. Central Texas Expy Killeen, TX 76549

Email: doug.edwards@ctcd.edu

Marlene Maciborski

Women on Wheels/Citizen Representative 4310 Creekside Dr., Killeen, TX 76549 Email: mdv8ed@hotmail.com

Jimmie McCormack

Team Road Kill/Citizen Representative Email: <u>Jimmie.l.mccormack@gmail.com</u>



STAFF

Cheryl Maxwell, AICP

Director

Phone: (254) 770-2379
Fax: (254) 770-2360
cheryl.maxwell@ctcog.org

Jason Deckman

Planner/GIS Technician Phone: (254) 770-2376 Fax: (254) 770-2360 jason.deckman@ctcog.org

Jim Martin

Regional Planner Phone: (254) 770-2364 Fax: (254) 770-2360 jimmy.martin@ctcog.org

John Weber

Regional Planner

Phone: (254) 770-2366 Fax: (254) 770-2360 john.weber@ctcog.org



Commonly Used Transportation Related Acronyms and Terms

Organizations	Terms
KTMPO	TMA
Killeen – Temple Metropolitan Planning Organization	Transportation Management Area
TPPB (KTMPO)	MAP - 21
Transportation Planning Policy Board	Moving Ahead for Progress in the 21 st Century (legislation replaced SAFETEA-LU in July 2012)
TAC (KTMPO)	SAFETEA – LU
Technical Advisory Committee	Safe, Accountable, Flexible, Efficient Transportation Equity Act
FHWA	MPO
U.S. Department of Transportation Federal Highway Administration	Metropolitan Planning Organization
FTA	UPWP
U.S. Department of Transportation Federal Transit Administration	Unified Planning Work Program
TxDOT	MTP
Texas Department of Transportation	Metropolitan Transportation Plan
TCEQ	TIP
Texas Commission on Environmental Quality	Transportation Improvement Program
TTI	STIP
Texas A&M Transportation Institute	Statewide Transportation Improvement Program
CTCOG	STP-MM
Central Texas Council of Governments	Surface Transportation Program – Metropolitan Mobility
HCTD or "The HOP"	TAP
Hill Country Transit District	Transportation Alternatives Program
CTRTAG	UTP
Central Texas Regional Transportation Advisory Group	Unified Transportation Program
BPAC	CMAQ
Bicycle and Pedestrian Advisory Committee	Congestion Mitigation and Air Quality Improvement Program
	UA or UZA
	Urbanized Area
	EJ or "Title VI"
	Environmental Justice
	CMP
	Congestion Management Process
	ITS
	Intelligent Transportation Systems
	NAAQS
	National Ambient Air Quality Standards

A comprehensive listing with definitions is available under Transportation Planning Resources at www.ktmpo.org. Pages 61-65 of the publication "The Transportation Planning Process... is a great resource for commonly used Transportation terms.

