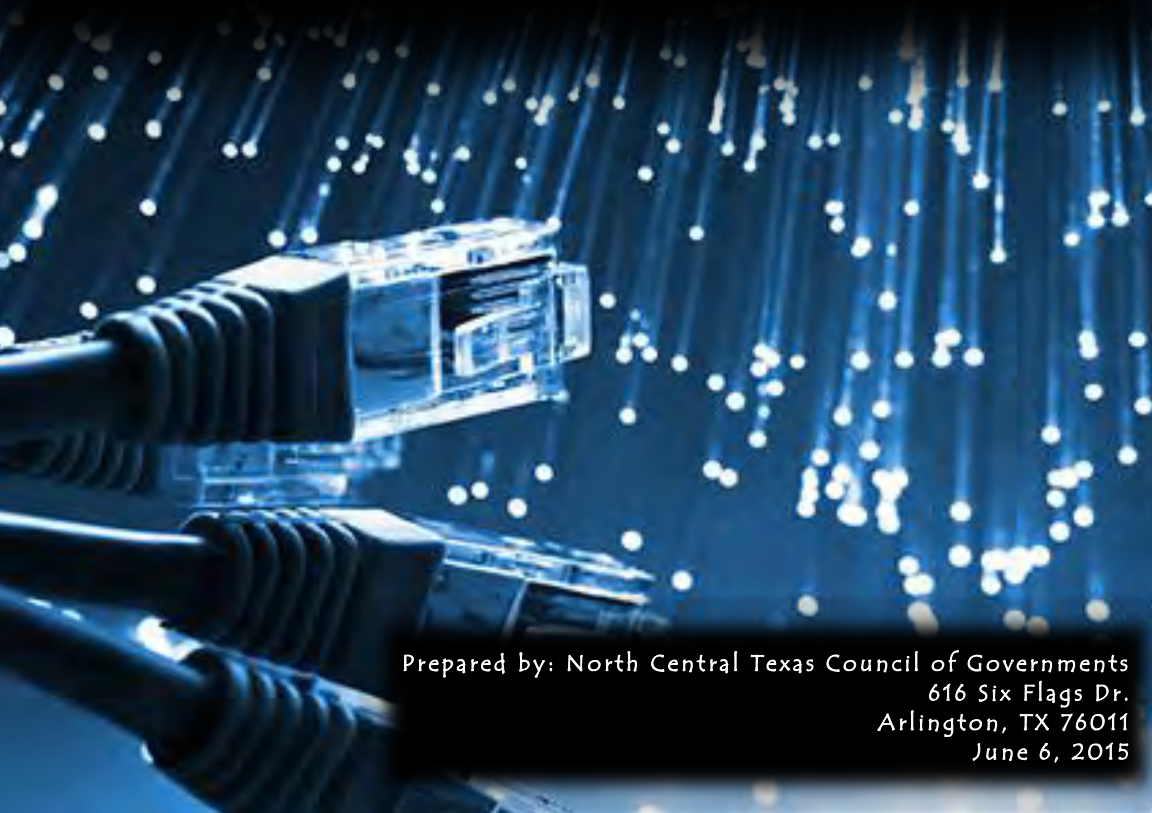




Application for
2015 TIGER Discretionary Grant

Appendix C
References



Prepared by: North Central Texas Council of Governments
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June 6, 2015

Figure 1: Regional Comprehensive ITS Program

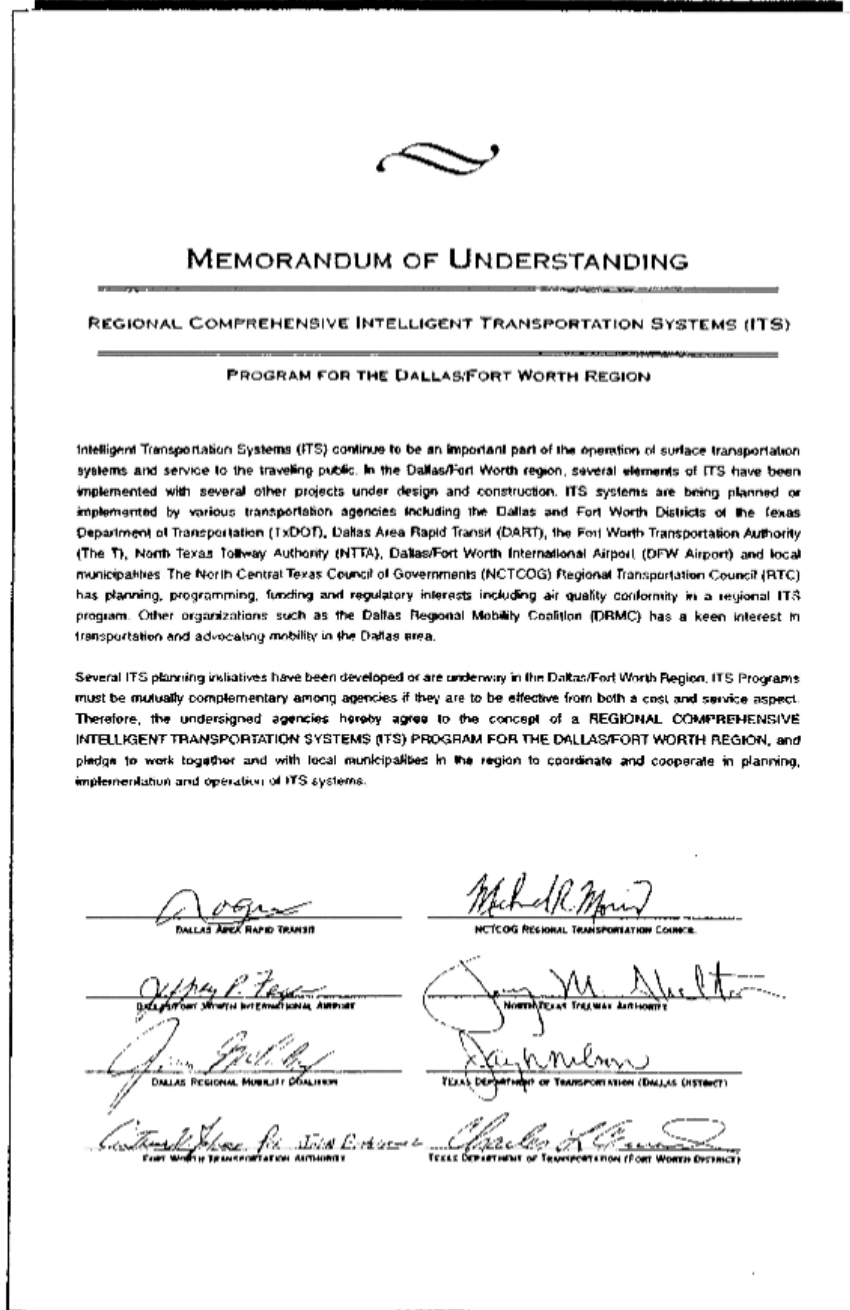


Figure 2: Memorandum of Understanding

**MEMORANDUM OF UNDERSTANDING BETWEEN DALLAS-FORT WORTH REGIONAL
INTELLIGENT TRANSPORTATION SYSTEM PARTNERS CONCERNING
GUIDING PRINCIPLES FOR MULTI-AGENCY
COMMUNICATION, DATA AND VIDEO SHARING**

This Memorandum of Understanding (MOU) is entered into between the Dallas-Fort Worth Regional Intelligent Transportation System (ITS) partner agencies ("Partners"). The purpose of this MOU is to outline the roles and responsibilities of each party with respect to development of multiagency communication, data and video sharing on a regional network.

WHEREAS, A regional communications network is necessary for the purpose of exchanging transportation-related information when required; and,

WHEREAS, the North Central Texas Council of Governments will facilitate development of a regional network by establishing a North Central Texas Regional Communications Network Committee ("Committee") comprised of the Partners that have executed this MOU; and,

WHEREAS, the North Central Texas Regional Communications Network Committee will develop and put forth the standards, guidelines and structures necessary to establish, operate and maintain a regional network, including but not limited to a submittal, review and approval process;

WHEREAS, physical connection points between networks will be necessary to establish a regional network and existing connections should be used to the extent possible; and,

WHEREAS, redundant paths should be created to minimize system downtime due to disruption in service (i.e., cable cut) and redundancy will be a goal, and redundant physical paths may not be possible in all cases and the need for redundancy will be evaluated against the risks of failure and the costs to provide redundancy; and,

NOW, THEREFORE, in consideration of these premises, a Request for Authorization of Fiber Optic Cable and /or Related Infrastructure Connectivity Diagram will be developed and require approval by the Committee prior to an agency's participation:

Section 1. Partners Responsibilities

1. Each Partner agrees to participate in the Committee and to provide input to Committee decisions.
2. Each Partner with fiber optic cable or comparable wireless communications agrees to allow the use of two fibers in every dedicated fiber path or bandwidth in the wireless path and for the exchange of regional transportation information (data and video) with any agency that participates on the shared regional network.
3. Each Partner agrees to provide the hardware necessary to connect to the regional network, including but not limited to cabling, switches, firewall, and work stations.



4. Each Partner with communication links to the regional network agrees to provide reasonable efforts to maintain the connection of their local communication systems with those of other participating agencies. "Communication link" is intended to include fiber, wireless and other approved connectivity methods.
5. Each Partner agrees that future agreements may be needed to effectuate and implement a regional network and will provide input to the development of future regional network agreements.
6. Each Partner agrees to continue participation in the regional network until required notice is provided to the regional network partners.
7. Each Partner agrees to share the cost of operating and maintaining the proposed regional network, subject to future Council or Board approval. Each Partner will participate in the development of the total cost and methods for sharing of cost.
8. Each Partner agrees to pay the cost of operating and maintaining its own network.
9. Each Partner agrees to pay for establishing the connection(s) it desires and recognizes that regional funds may be available to provide agencies with a single connection to the network.
10. Each Partner agrees to develop and provide C2C plug-in for its respective internal system(s), including a C2C Data Extractor, Provider and Collector to retrieve and provide desired data with the purpose of establishing the regional exchange of information.
11. Each Partner agrees to use the regional video standard to exchange video on the regional network, should a regional video standard be developed and adopted.
12. Each Partner agrees to hold harmless other participating agencies for the failure of communications or devices beyond an agencies' control.
13. Each Partner agrees to share any and all transportation data they provide on the regional network.
14. Each Partner agrees not to transmit, exchange or otherwise share video or data obtained from the regional network with entities not participating in the regional network.
15. Each participating agency agrees not to record any network video without the express written consent of the owner agency.
16. Each participating agency agrees to log and update real time transportation data for distribution to other participating agencies to the extent practical and funded.
17. Each participating agency agrees to provide maintenance for its own portion of the network.
18. Each participating agency agrees to share real time status data of ITS devices to the extent possible for purposes of distribution to the public via 511.
19. Each participating agency agrees to allow the use of shared data in training and outreach to support and improve regional operations.

Section 2. North Central Texas Council of Governments Responsibilities

1. NCTCOG agrees to investigate the possibility of funding for the network and one connection to the network for each agency.
2. NCTCOG agrees to establish and moderate the Committee.

Section 3. General Provisions

1. The regional network will not damage nor degrade the ability of any agency's network to perform its normal operation.
2. Hardware and other equipment will be required to be compatible with the existing network. Hardware and other equipment will need to be determined on a case by case basis until a standard configuration can be developed and as new technology becomes available.



3. ITS device status sharing methods will in no way allow for or risk the exposure of IT security measures and internal IT structures.
4. Costs for shared portions of the network will be determined as the regional network is developed and standards will be established by consensus among the Committee.
5. Partners will determine what types of data and video will be entered into the 511 system.
6. The types of shared data and acceptable uses of such data will be determined as the concept is developed.
7. Priorities and permissions will be developed and implemented to optimize network performance and security.
8. Processes and participants for submittals, requests, approvals and responsibilities will be developed by the Committee.
9. The committee will review and approve requests for new participating agencies or other changes related to the regional network.
10. The entity responsible for maintaining the regional network will be determined by the participating agencies.
11. A participating agency may cancel or discontinue participation either completely or in part by providing 180 days written notice to the regional network partners.
12. Concepts developed for this program should be technology neutral.
13. Technical capabilities and requirements of the regional network will be evaluated as the regional network is developed.
14. The participating agencies recognize that future agreements may be needed to effectuate and implement a regional network.
15. This MOU may be amended at any time upon mutual agreement of the Parties.
16. A more detailed agreement will be executed among the parties to effectuate and carry out the intent of the principles contained herein.
17. The effective date of this agreement is the date of last signature by the parties hereto.



Figure 3: Executive Board Resolution

**RESOLUTION AUTHORIZING SUBMITTAL OF APPLICATIONS FOR THE
TRANSPORTATION INVESTMENT GENERATING ECONOMIC RECOVERY
DISCRETIONARY GRANT PROGRAM**

WHEREAS, the North Central Texas Council of Governments (NCTCOG) has been designated as the Metropolitan Planning Organization (MPO) for the Dallas-Fort Worth Metropolitan Area by the Governor of the State of Texas in accordance with federal law; and,

WHEREAS, the Regional Transportation Council (RTC), comprised primarily of local elected officials, is the regional transportation policy body associated with NCTCOG and has been and continues to be a forum for cooperative decisions on transportation; and,

WHEREAS, the Fiscal Year (FY) 2014 and FY2015 Unified Planning Work Program includes project development, technical support for transportation corridors, and surface access to aviation planning; and,

WHEREAS, in March 2015, the United States Department of Transportation (US DOT) announced the seventh round of the Transportation Investment Generating Economic Recovery Discretionary Grant Program (TIGER VI); and,

WHEREAS, on May 14, 2015, the RTC approved the submittal of the three grant applications for a total of approximately \$42.5 million in funding under the TIGER VII Grant Program.

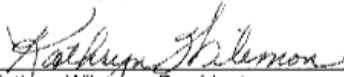
NOW, THEREFORE, BE IT HEREBY RESOLVED THAT:

- Section 1.** NCTCOG is authorized to submit three grant applications to the US DOT for projects under the TIGER VII Discretionary Grant Program for approximately \$42.5 million, as detailed in Attachment 1.
- Section 2.** If awarded, the Executive Board instructs staff to work with the US DOT and partner agencies and to determine the most efficient method to bring these funds to the region and implement these projects.
- Section 3.** NCTCOG is authorized to receive approximately \$42.5 million in TIGER VII Discretionary Grant Program funds, if awarded, and subject to Section 2.
- Section 4.** If awarded, these funds shall be incorporated into the FY2016 budget as appropriate.



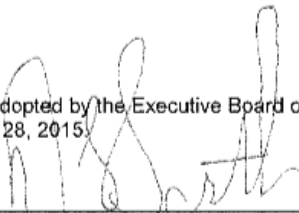
Section 5. The Executive Director or designee is authorized to execute contractual agreements necessary to carry out this program, including agreements for receipt of local match funds.

Section 6. This resolution shall be in effect immediately upon its adoption.



Kathryn Wilerton, President
North Central Texas Council of Governments
Mayor Pro Tem, City of Arlington

I hereby certify that this resolution was adopted by the Executive Board of the North Central Texas Council of Governments on May 28, 2015.



Daniel Scarth, Secretary-Treasurer
North Central Texas Council of Governments
Councilmember, City of Fort Worth

