

TELUS Implementation at KYOVA Interstate Planning Commission

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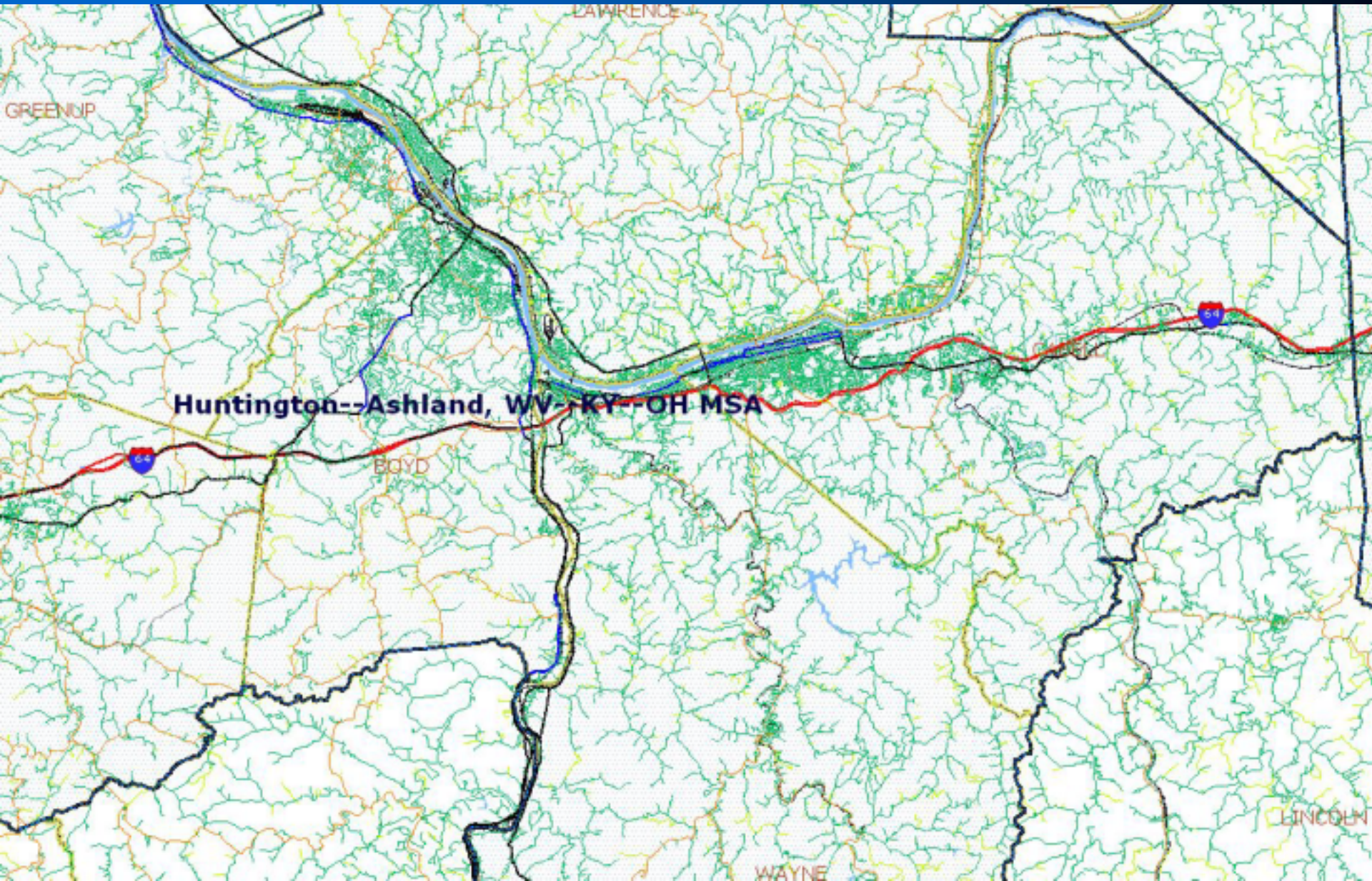
Overview

- What is KYOVA?
- What is TELUS?
- Process
- Results
- Lessons Learned
- In Progress

What is KYOVA?

- **Metropolitan Planning Organization (MPO)** responsible for ensuring wise and coordinated use of Federal/State transportation funds in southwestern West Virginia and southern Ohio.
- **Serves Cabell and Wayne Counties, West Virginia; Lawrence County, Ohio, the Cities of Huntington, West Virginia and Ironton, Ohio.**

KYOVA Area Street Network



KYOVA

MPO's source of funds:

- Surface Transportation Program
- Congestion Mitigation Air Quality
- Enhancements
- Role of Earmarks

KYOVA Responsibilities

- **Long Range Transportation Plan (multi-county, multi-modal, 20+ years time frame, travel forecasting model, air quality impact, fiscal constraints)**
- **Transportation Improvement Program**
- **Transit Planning**
- **Public Participation Process**
- **Special Studies**
- **Overall Work Program**

TELUS

Transportation, Economic & Land Use System

- TELUS was developed by the New Jersey Institute of Technology (NJIT), in Newark, New Jersey, over the past six years with a \$6 million grant from the US Department of Transportation's Federal Highway Administration (FHWA)
- The computerized data management software sorts, scores, analyzes, combines projects and assesses project information for economic and land use impacts
- Available in two platforms: **Desktop system** and the **Web-based system**
- Includes **five** main modules

TELUS (cont.)

- The Project information module contains basic data about every Transportation Improvement Program (TIP) Project **(Completed)**
- The Project tracking module maintains the status of projects **(Completed)**
- The Project interrelationship module identifies potential conflicts in scheduling and funding locations **(In Progress/Future)**
- The Project-scoring module (Built-in or Customized) **(For specific projects)**
- The Planning analysis module determines the degree to which the entire TIP meets the TEA-21/SAFETEA-LU Planning objectives **(In Progress/Future)**

TEA-21/SAFETEA-LU

- There are 7 objectives defined in TEA-21 (8 factors in SAFETEA-LU), which the KYOVA process must conform
- KYOVA is required to update the Transportation Improvement Program (TIP) biennially
- TEA-21/SAFETEA-LU requires the process as followed:
 - should be open to citizen and stakeholder groups through participation
 - result in a “financially constrained” TIP
 - identify projects that are in “conformity” with applicable standards of the Clean Air Act
 - consider the impacts of projects on the economy, land use, environment, historical and cultural resources

Project Data Entry (TIP)

- 3 Project ID #s
- Revision #
- Project Title
- Lead Agencies
- Narrative Description
- FHWA Categories
- User Categories
- Project Length
- District Identifiers
- Schedule (Phase of Work)
- Schedule (Actual/Plan)
- Funding Sources (By Year)
- Location (Jurisdiction)
- Contact Person/Phone #
- EIS Status
- Air Quality Status
- Financial Management

FOR MORE INFO...

Please visit the KYOVA Website: www.wvs.state.wv.us/kyova

Project Data Entry Screen Shot

TELUS - [TELUS DATA ENTRY FORM]

DATA ENTRY TIP Year: 2006 - 2010 Go to: County: [] [←] [→] [Go Back]

Only show latest project revisions

Project ID1: [1255] Revision: [0] [New Revision] Project ID1: [1255] Rev: [0] [New] [Del]

Project ID2: [] Project ID3: [] Project Name: [Law SR07]

Lead Agency: [DOOT] Contact: [] Phone: []

TIP Status: [TIP] Mode: [Roadway] User Cat.: []

Description: [REBUILD AND STABILIZE FOUR SLIP AREAS LONG SR 7 WHERE THE EXISTING RETAINING WALLS ARE DETERIORATING. THESE WALLS WERE ORIGINALLY CONSTRUCTED IN 1936. 0.84 MILES WEST OF CHESAPEAKE EAST CORP. LINE SECTION 2.54] Air Quality Status: [NA] EIS Status: []

Classification (REQUIRED): 1. System: [] 2. Project Type: [Other Federal-Aid Highway] 3. Functional Class: [Rural Local] 4. Category: [] 5. Subcategory: [Road Restoration & Rehabilitation]

Remarks: [] [Financial Module]

Location | Tracking | Schedule | Tracking: Narrative | Custom Fields | County & Info

Limits: [REBUILD AND STABILIZE FOUR SLIP AREAS LONG SR 7 WHERE THE EXISTING RETAINING WALLS ARE DETERIORATING. THESE WALLS WERE ORIGINALLY CONSTRUCTED IN 1936. 0.84 MILES WEST OF CHESAPEAKE EAST CORP. LINE SECTION 2.54] Route 1: [SR 7] Route 2: []

Project Termini: (From) [] (To) [] Length: [0.47] Corridor: []

State: [OH] County: [Law] Municipality: []

Districts: District 1: [] District 2: [] District 3: [] District 4: []

KYOVA - TELUS Projects Screenshot (Customized Report)

TELUS - [rpt_kyovaReport_main : Report]

KYOVA PROJECTS FY2004-2005 TRANSPORTATION IMPROVEMENT PROGRAM

PROJEC T ID #	COUNTY ROUTE SECTION #	LEAD NUMBER	LOCATION AND DESCRIPTION	TOTAL COST	FEDERAL SHARE	STATE SHARE	LOCAL SHARE	TYPE OF FUND	MODE OF WORK	FEDERAL FUND USAGE				AIR QUALITY	RISK ADMPV	
										FY2004	FY2005	FY2006	FY2007			
12996	LAMM SR 7	0.47	RESEAL AND STABILIZE FOUR SLIP AREAS ON SR 7 WHERE THE EXISTING RETAINING WALLS ARE PETER DRATING. THESE WALLS WERE ORIGINALLY CONSTRUCTED IN 1960. D24 RESEAL WEST OF CHESAPEAKE EAST OF RP. LINE. SECTION 2.54	\$1,015,300	\$512,240		\$200,000		STP	CO #	\$2,224				NA	0 60 T
10294	LAMM SR 776	1.19	TO MAINTAIN AND PRESERVE THE PAVEMENT BY MAKING THE NECESSARY REPAIRS AND BY OVERLAYING THE EXISTING PAVEMENT WITH ASPHALT CONCRETE AND PAVING SHOULDER, DR 277 NORTH TO SR 141. SECTION 9.20	\$871,340	\$471,340				O STP	CO #		\$71,844			NA	0 60 T
10290	LAMM SR 622	3.3+	TO MAINTAIN AND PRESERVE THE PAVEMENT BY MAKING THE NECESSARY REPAIRS AND BY OVERLAYING THE EXISTING PAVEMENT WITH ASPHALT CONCRETE AND PAVING SHOULDER, SOUTH COUNTY LINE TO SR 50. SECTION 8 0.02	\$643,350	\$443,350				O STP	CO #		\$49,350			NA	0 60 T
10067	LAMM SR 141	1.06	TO OVERLAY THE EXISTING PAVEMENT WITH 1-1/2" ASPHALT CONCRETE, 1/2" ASPHALT CONCRETE SURFACE COURSE FROM THE CITY OF 1100 WEST COUNTY LINE EAST TO SUR 243 SECTION 0.02	\$600,595	\$400,595				O STP	CO #		\$80,595			NA	0 60 T
10025	LAMM SR 53	0.7	IT IS PROPOSED TO REPLACE DEFICIENT STRUCTURE NO. 440256 OVER OHIO RIVER BETWEEN ROUTE 80 NORTH AND RUSSELL COUNTY BRIDGE AND NECESSARY APPROX 800 AC. FROM ROUTE 80 TO RUSSELL, NEWTON KY.	\$15,442,200	\$42,560,000		\$15,442,200		BRIDGE	CO #	\$2,500,000				NA	0 60 T
22606	LAMM US 52	6.26	TO MAINTAIN AND PRESERVE THE PAVEMENT BY MAKING THE NECESSARY REPAIRS AND BY OVERLAYING THE EXISTING PAVEMENT WITH ASPHALT CONCRETE AND PAVING SHOULDER, US 50 UTREKSTO 1 TR 277 EAST TO COAL CROSSING. SECTION 1.1	\$6,200,240	\$4,200,240		\$1,000,000		RES	CO #		\$4,200,240			NA	0 60 T
24394	LAMM SR 93	0.11	LAMM EXISTING UNDERPASS RESTRICTION TO 80 MPH. LAMM LAMM EXISTING RESTRICTION OF ROUTE 93	\$100,000	\$100,000				O STP O STP	CO # END		\$10,000	\$10,000		NA	0 60 T

PREPARED BY KYOVA INTERSTATE PLANNING DIVISION IN 2004-2005

Process

- Desktop TELUS 3.0 was released in May 2003
- Started the Migration from different data base sources with the assistance from New Jersey Institute of Technology (NJIT)
- NJIT played a major role in customizing and integrating the data into the TELUS system
- Migration to the desktop TELUS was completed in FY 2005
- In FY 2005 - 2006, KYOVA began using its new TELUS database for updating FY 2005 – 2008 TIP Information

Process (cont.)

User Customization

- **Rename Data Fields**
- **Create Drop-down Lists**
- **Select # of (2006 – 2009) TIP Years**
- **Identify Projects by Various Districts & Locations**
- **TIP Budget**

Process (cont.)

User Customization

- Enter Phases of Work
- Enter Funding Sources
- Entry of Actual/Planned Years

KYOVA Scoring System (TELUS) Based on TEA-21 (7 Planning Factors)/SAFETEA-LU (8 Planning Factors)

- **Economic vitality of the metropolitan area**
- **Safety and security of the transportation system (Split under SAFTEA-LU)**
- **Increase the accessibility and mobility options available to people and for freight;**
- **Protect and enhance the environment, promote energy conservation, and improve quality of life;**
- **Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight;**
- **Promote efficient system management and operation; and**
- **Emphasize the preservation of the existing transportation system**

Results

- **TELUS enables KYOVA to provide information to interested parties and promotes greater collaboration among KYOVA and WV & Ohio DOTs**
- **Conduct the project selection process for the FY 2006-2009 TIP using a TELUS scoring system.**

Results (cont.)

- Review planned projects through public participation in the overall planning process
- Track changes and history of the projects
- Track all accomplished projects

Lessons Learned

- **TELUS is valuable to the TIP management by facilitating the compilation of each year's TIP document**
- **NJIT has always been easily accessible to answer questions, from simple to complex**
- **In the near future KYOVA will evaluate the web-based TELUS (option) in coordination with the WV & Ohio DOTs to enhance availability of transportation project information for the public in a friendly format in order to obtain public input**

Why Web-Based TELUS?

Bringing Life to the TIP:

- **GIS Reader (ESRI ArcIMS)**
 - **View/Print Maps of Projects**
 - **Select Projects for Analysis**
- **Pictures of Projects**

Web-Based TELUS (cont.)

Web Minimizes Costs to All Agencies

- **Web-Based Delivery (no paper/disks)**
- **Uses Existing Hardware/Software**
- **Core System (Web-TELUS) is Free**
- **Single Installation**

In Progress.....

- **TELUS & SAFETEA-LU**
Safe, Accountable, Flexible, Efficient
Transportation Equity ACT: Legacy for Users
- **KYOVA is under the assumption that the SAFETEA – LU will follow closely the same requirements of the TEA-21**
- **Accommodated the requirements of SAFETEA-LU /gap analysis technical memorandum by May 2007**
- **Version 4.0 TELUS is available and offers new features i.e. a Long Range Plan (LRP) option, a check budget tool, enhanced GIS,..**
- **KYOVA received 4.0 and will be operational by the end of the summer**

Acknowledgements

- KYOVA Interstate Planning Commission
- Federal Highway Administration
- Federal Transit Administration
- Ohio Department of Transportation
- West Virginia Department of Transportation
- New Jersey Institute of Technology (NJIT)

FOR MORE INFO...

Please Visit KYOVA Web Site: www.state.wv.us/kyova

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