Kansas ITS Update

ITS IN THE HEARTLAND
NRITS
August 24-27, 2014
Bureau of Transportation Safety & Technology

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Future of ITS in Kansas

- Planning for the Future of Rural ITS Infrastructure
  - Meetings on July 9, 2014
    - District Engineers
    - KTA
    - ITS Set-Aside Committee
  - Internal KDOT Meetings
  - Final Report in December, 2014

- Device Maintenance RFP – Spring 2015

- Sign Replacement – KC Scout
Operating Cost

Statewide/Wichita

KDOT - Statewide/Wichita Annual Operating Costs
(with Forecasted Costs)

Statewide Operating Budget - $1.327 Million

*Assumes no deployments after 2014*
Operating Cost

KDOT-KC Scout

KDOT FY2015 costs paid in FY2014

Baseline KC Scout Total Budget - $1.702 Million

KDOT - KC Scout
Annual Operating Costs
(with Forecasted Costs)

Operating Dollars

Operating Year

*Assumes no deployments after 2016*
2014 and 2015 Projects
Statewide Corridor Analysis
KTA Agreement and Partnership
I-70 After Toll Plaza

ONGOING ROADWORK AT K-7
USE CAUTION
Johnson County Gateway Design Build Project
Website viewed 3,700,000

- 1,400,000 viewed by Mobile
Update - 511

- Personalized Info (My Kansas 511) - free email/ text alerts by subscription Updated by Iteris (Meridian)
- FloodGate system interface
Kansas DOT TSM&O Capability Maturity Implementation Plan

- Strategic Highway Research Program 2

August 1, 2014

RE: SHRP2 Project Approval

The Kansas Department of Transportation (KDOT) applied and was awarded a Strategic Highway Research Program 2 (SHRP2) Project to improve Transportation Systems Management & Operations (TSM&O) using the Capability Maturity Model. KDOT in an ongoing partnership with the City of Wichita, Sedgwick County, the Wichita Area Metropolitan Planning Organization (WAMPO), law enforcement, and Kansas Turnpike Authority (KTA) conducted self-assessment Capability Maturity Model workshops in Wichita. These workshops and webinar produced a consensus of priorities to advance the effectiveness of TSM&O for the Wichita region. The key actions needed to improve TSM&O and timelines for the Implementation Plan were presented to KDOT and representatives from the Kansas Division of the Federal Highway Administration (FHWA) on August 1, 2014 in Topeka, Kansas for the Wichita region.

After hearing the key action items and the timelines, we approve KDOT moving forward with the Wichita Regional TSM&O Capability Model Implementation Plan.

Concurrence:

Michael S. King
KDOT Secretary of Transportation

Date 8-1-14

Joyce T. Younger, Ph.D.
Deputy Secretary and State Transportation Engineer

Date 8/1/14
Slade Engstrom

- WICHway Operations Support Manager – PE, PTOE and TranSystems Wichita Office Design Team Leader
History of TIM in Kansas

Pre-2013
- Incident Management Program was in existence prior to 2007
- One Accord signed in 7/2009

February 5th & 6th 2013
- SHRP2 - Train-the-Trainer (TtT) Course in KC
  • 100+ participants
  • Largest TtT course held

August 27th & 28th 2013
- SHRP2 - (TtT) Course in Topeka
  • 80+ participants

October 1st & 2nd 2013
- SHRP2 - (TtT) Course in Wichita
  • 80+ participants
As of August 11, 2014, 1243 TtT trained first responders in KS.
- 551 trained in Wichita including all WFD first responders
- WPD and SCEMS planned trainings
Bi-Monthly LIM Meeting

- KDOT
- Sedgwick County 911
- Kansas Highway Patrol
- Sedgwick County Sheriff
- Sedgwick County Fire Dept.
- Wichita Fire Dept.
- Wichita Police Dept.
- Sedgwick County EMS
Smart Work Zone

- Heavy rehabilitation project including patching, mill and overlay and bridge repairs. ADT +/- 50,000-80,000 vpd.
- Original project was bid in January 2014 and bid was 50% over budget. This was mainly due to the work restrictions (would have resulted in overtime or inefficient scheduling).
- Rebid was completed in April 2014 and the bid was $20,051,529.07. With better accommodations to the contractors work hours as well as other cost saving measures. It was determined that a SWZ that would ease congestion and inform users would be helpful.
Device Layout

- 5 Camera’s
- 6 Portable Traffic Sensors
- 7 Variable Message Signs
Quality Control

- Weekly GPS Travel Time run
- Bluetooth Sensors with Real Time data
- Close Interaction with Contractor and Inspectors.