



# Kentucky Utilities & Rail Tracking System (KURTS):

An innovative tool for road  
designers as well as utility  
coordinators



## KURTS

# KENTUCKY UTILITIES AND RAIL TRACKING SYSTEM:

## The Web-Based Utilities Solution

- Approximately 15 Months in Development
- Released March 2014
- 2014 FHWA Honorable Mention Award for Utilities Excellence in Innovation



# KURTS



- **SHRP2 R15B Implementation Funding for conflict identification enhancements.**
  - Enhancements are currently in development.
  - Available mid to late 2015
- **Interest from other states to view, share, and / or collaborate on KURTS.**



# HOW DO WE MANAGE UTILITIES?

- We need to know where they are:
  - Gathering plans
  - Contacting Utilities
  - Locating utilities
  - **Determining any conflicts**
- We need to mitigate issues:
  - **Develop a plan of action to avoid, relocate or protect them**
  - **Arrange for actions to take place**
- We need to communicate with the contractor
  - Utility Clearance Note



## Issues Affecting Utility Coordination

- Small Staff Size – 1 to 2 Utility Agents/District
- Need to communicate/collaborate/cooperate
  - Designer
  - Utility company
  - District Utilities Personnel



## Issues Affecting Utility Coordination

- Lots of tasks = Need to organize work
  - Initial contact with Utility companies/facility mapping
  - Prepare funding requests
  - Utility Assessment and Coordination
  - Determine needs for additional easements or Right of Way
  - Utility Engineering and Relocation plans & costs
  - Agreement Preparation/Execution
  - Fiscal processes – invoices, change orders
  - Inspections
  - Project Closeouts



# Objectives

- **Early coordination with our Designers**
  - Expedite Utility Relocations
  - Minimize Utility Relocations
- **Provide Uniformity in Utility Coordination Process**
- **Develop Paperless Records**  
<http://www.youtube.com/watch?v=RRDSj62tlvQ>
- **Provide Transparency in our Business Operations**
- **Share records with stakeholders**
- **Provide More Accessibility to our Utility Partners**



## Enhancement Implementation and Future Development

- Mobile devices for KYTC Utilities Staff to:
  - Gather conflict data
  - Inspect relocations
- Map conflicts and inspections
- Collect cost data on utility relocations
- Share collected data through TED



# **KURTS' VALUE TO THE ROAD DESIGNER:**

- **Conflict Matrix**
- **Inspections**
- **Cost estimating data**
- **Spatially tied conflict and location data (to be established with enhancement)**
- **Deliver spatial data to the road design team (to be established with enhancement)**



## Conflict Matrix

- List of conflicts
- Location of conflicts
- Detail on conflicts
- ID additional locating needs (SUE)
- Ability to propose alternatives
  - Establish cost
  - Establish schedule
- Designers can contribute to matrix
- Design and utility staff collaborate on solutions
- Can download in excel format or spatially (with enhancement)



**KURTS**  
**KENTUCKY UTILITIES AND RAIL**  
**TRACKING SYSTEM:**  
**The Web-Based Utilities Solution**

[https://kytc-  
stage.kytc.ky.gov/KURTS/Default.aspx](https://kytc-stage.kytc.ky.gov/KURTS/Default.aspx)



# KURTS Demo on YouTube

<http://www.youtube.com/watch?v=4zWzQcOz7Rw>



# Questions?

## KURTS Kentucky Utilities Rail Tracking System

A tool to manage both program & project

Excellence in Innovation (Honorable Mention)  
Kentucky Transportation Cabinet

This Honorable Mention recognizes the Kentucky Transportation Cabinet (KYTC) for their excellence in utility innovation for the Kentucky Utilities and Rails Tracking System (KURTS). KURTS provides a single, web-based solution for the Kentucky's Transportation Cabinet and the many utility companies who perform utility work statewide. Users internal and external to the DOT can share project specific utility information, such as agreements, invoices, change orders, and project status, in real time. KURTS allows KYTC users to track and directs the management of utility coordination processes.



KURTS Development Team





FOR READ ONLY ACCESS TO KURTS,  
INQUIRE WITH

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