



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
 - o 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)



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https://kytc-

stage.kytc.ky.gov/KURTS/Default.aspx





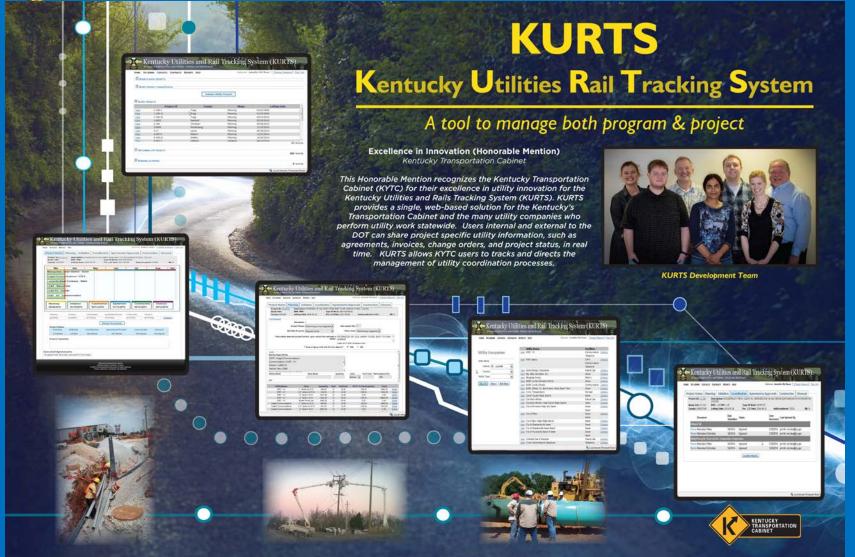
KURTS Demo on YouTube

http://www.youtube.com/watch?v=4zWzQcOz 7Rw





Questions?







FOR READ ONLY ACCESS TO KURTS, INQUIRE WITH Utilities & Rail Branch Manager Jennifer McCleve jennifer.mccleve@ky.gov

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