

LINK-GIS Partnership Solution

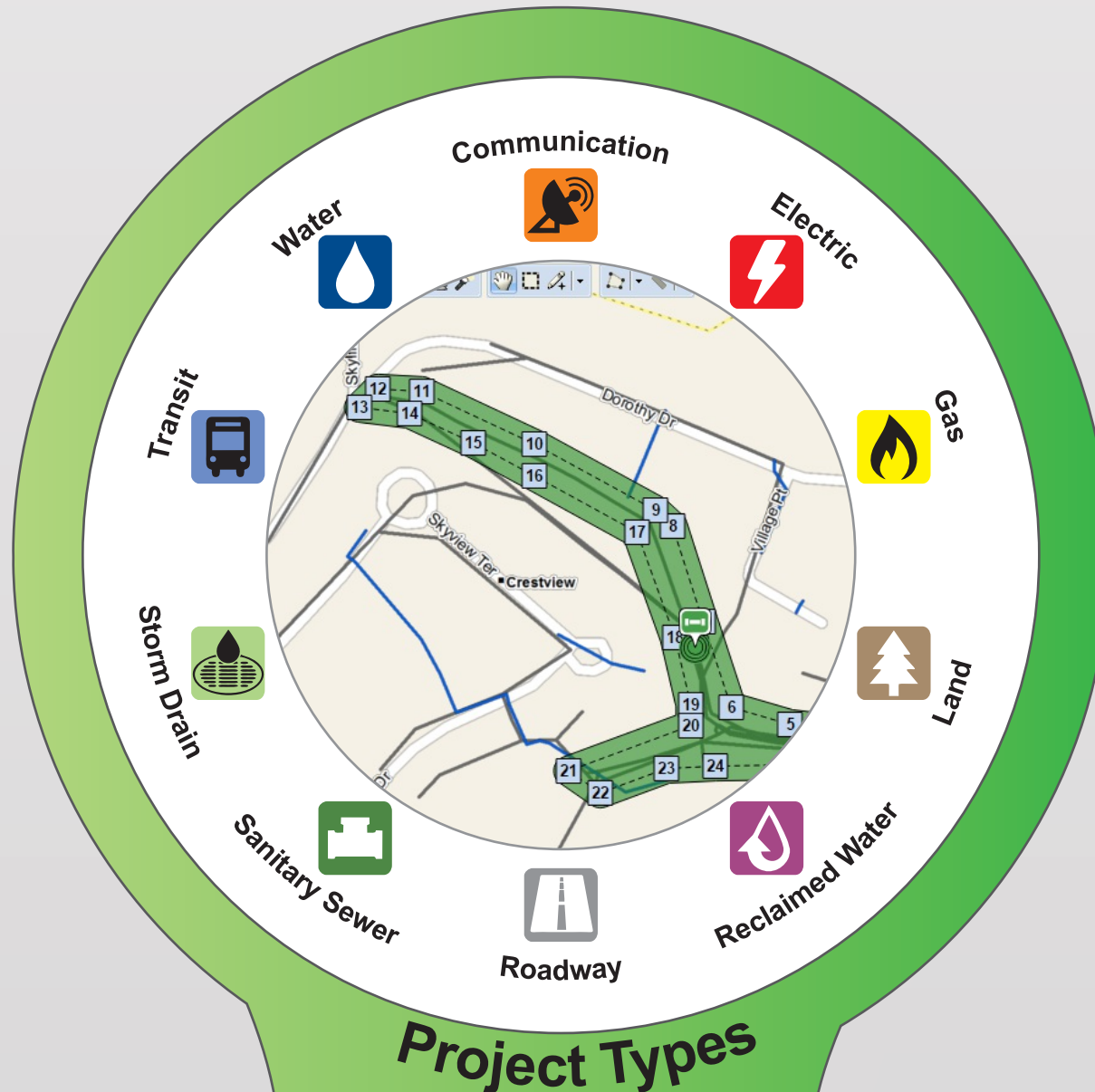
Right-of-Way Managment



Project Types

Coordinate 10 types of projects
For local gov't, metro gov't, utilities
Real-time, map-based project status

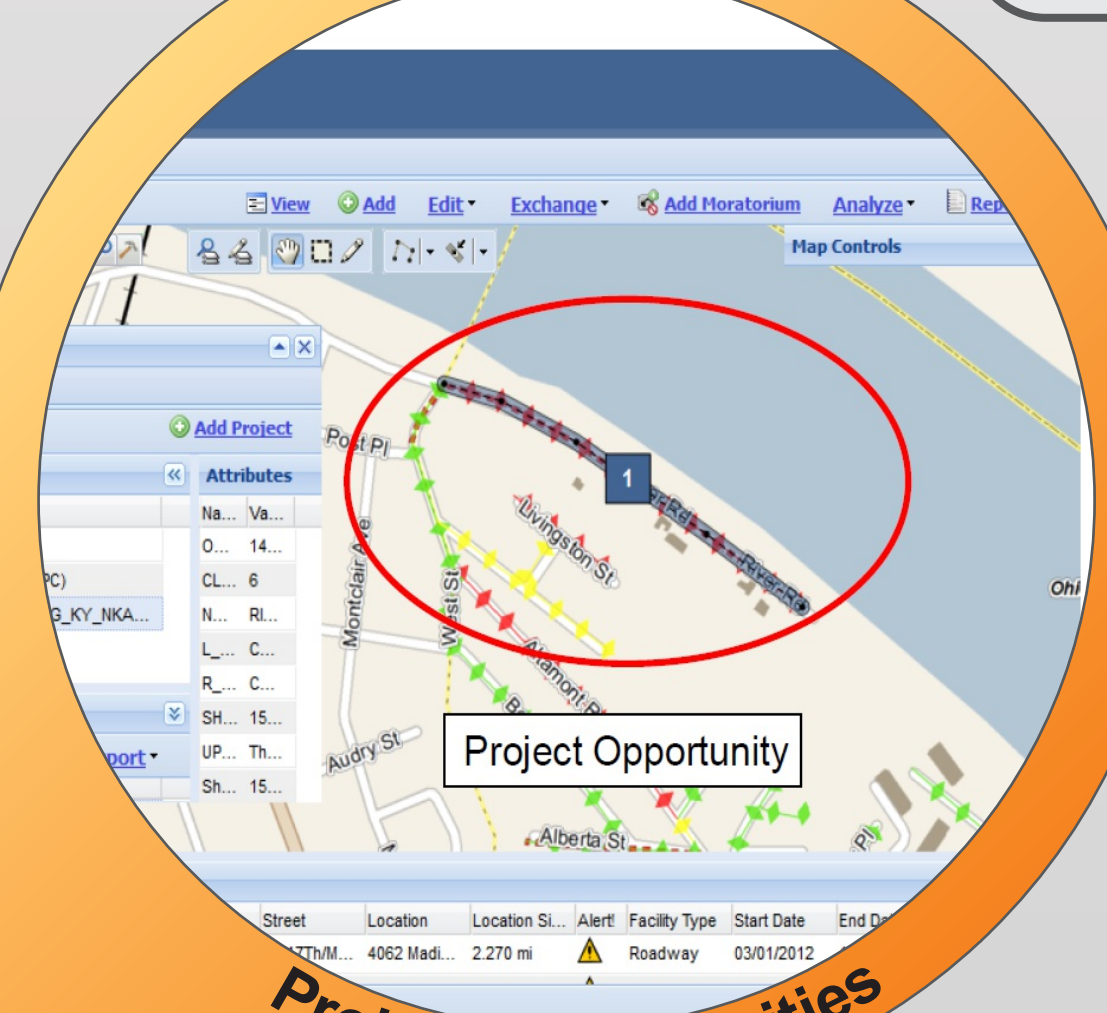
Enter ROW projects into the commercial off the shelf (COTS) software, then users can filter by date range, edit projects in the web editor interface, identify projects years in advance, communicate with project managers, get up and running quickly.



Project Opportunities

ROI - Coordinate projects in same area
Minimize impacts of ROW disruptions / closings
Reduce citizen complaints

The SaaS interface lets agencies find collaboration opportunities for current projects, and future year projects. This also reduces the impacts on traffic, reduces citizen frustration and complaints, and stretches public works dollars more than operating on their own.



Initial ROI w/COTS for partners - \$46,000

The ROI listed below shows documented and reliably estimated ROI by project year. At the time of implementation, there was no system in place to document ROI across the platform for all users.

COTS vs Developing: ROI \$46,000

2010-2011 - \$48,000 Covington / Ft. Thomas

2011-2012 - Unavailable

2012-2013 - \$65,000 ROI estimated

2014-2015 - \$75,000 ROI estimated

2015-2016 - Unavailable

2016-2017 - \$88,201 ROI NKWD

- \$100,000 Direct Cost (Data Updates, Operating)

Total Life Cycle ROI (2010-2017) = \$222,201

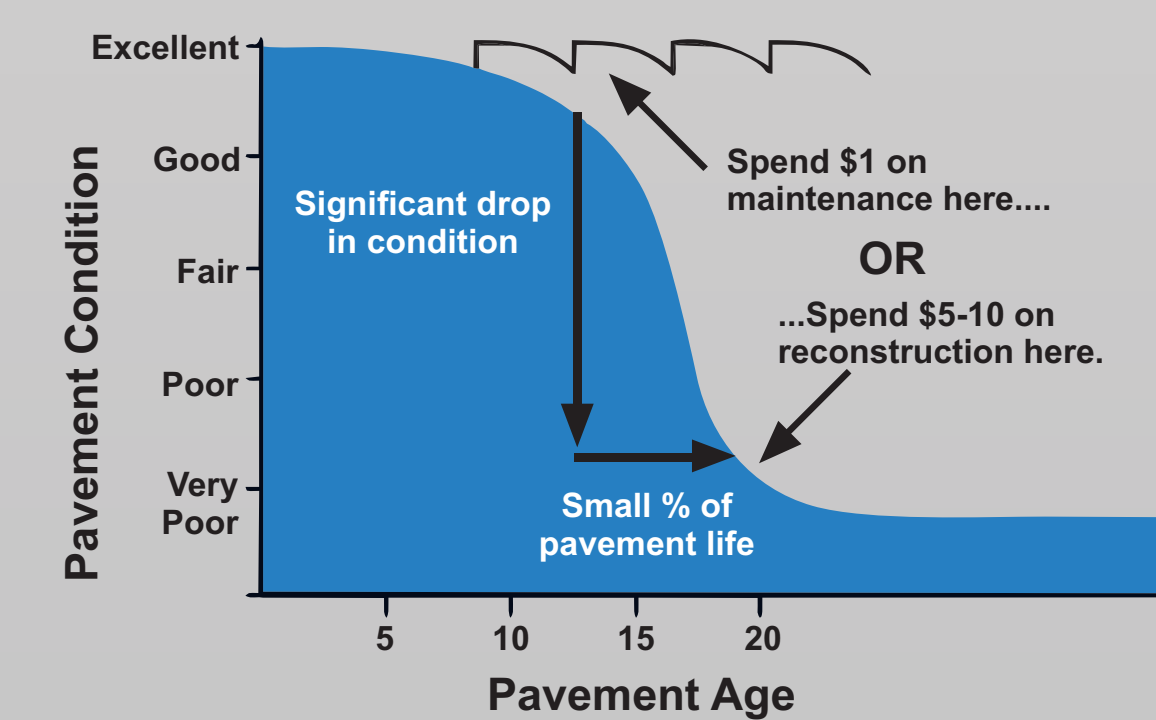
Pavement Condition Index (PCI)

Assign objective scores to pavement
Establish Priority Projects
Establish a 3-year paving cycle

PCI ratings allow road segments to be prioritized based on any combination of factors such as PCI rating, Traffic Volume, Road Importance, School, Emergency Route, Scenic/Historic Route, Maintenance History, and Functional Classification.



PCI Index (may vary by city)



ROI Example #1

ROI - Savings of \$36,000 on paving project
3,800 linear feet of water main (0.72 miles)
Paving 75% - 80% cheaper than typical costs

The City of Covington collaborated with the Northern Kentucky Water District to acquire paving services at a significantly reduced rate for repaving of Eastern Avenue as part of a joint water main installation and resurfacing project.

ROI Example #2

ROI - Savings of \$11,400 on paving project
3,827 sq. yards of paving
Paving 63% - 72% cheaper than typical costs

The Campbell County Public Works department collaborated with the Northern Kentucky Water District to acquire paving services at a significantly reduced rate for Messmer Hill Road for a water main installation and paving project.

Kenton County

Bromley
Covington*
Crescent Springs
Crestview Hills
Edgewood*
Elsmere
Erlanger*
Fairview*
Fort Mitchell
Fort Wright
Independence*
Kenton Vale
Lakeside Park*
Ludlow
Park Hills
Ryland Heights
Taylor Mill
Unincorp. Kenton Co.*
Villa Hills
Walton (Kenton part)
KYTC

Participating Agencies

(*have PCI data)

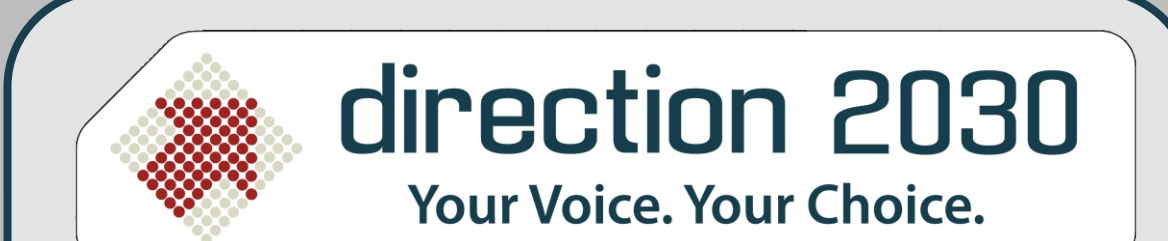
Campbell County

Alexandria
Bellevue
California
Cold Spring
Crestview
Dayton
Fort Thomas
Highland Heights
Melbourne
Mentor
Newport
Silver Grove
Southgate
Wilder
Woodlawn
Unincorp. Campbell Co.
KYTC

NKY Utilities

Duke Energy
Cincinnati Bell
OWEN Electric
Time Warner Cable
Sanitation District #1
NKY Water District*

*All jurisdictions and utility agencies should use a **map-based** infrastructure coordination program to **manage and coordinate projects** within public rights-of-way more efficiently and effectively.
-Direction 2030: Utility Management Element



Goals and Objectives

C Community Identity H Health N Natural Systems
E Economy HC Healthy Communities Primary Goal
G Governance M Mobility Secondary Goal

How Does This Topic Apply to Direction 2030?

- G** Encourage cooperative governance.
- G** Continue to encourage the sharing of technical tools and resources effectively reducing the cost of the system.
- E** Identify opportunities for effective sharing of services.

Recommendation:

"Collaborate with utilities to identify existing infrastructure that needs to be improved."
-Direction 2030: Utility Management element

NKYmapLAB

June 2016 Volume 2: Map 6
Northern KentuckymapLAB is a copyrighted, published product of Planning and Development Services of Kenton County. The goal of the initiative is to explore a wide variety of public data and present them in a more visual format that facilitates understanding by the public and its elected leaders. Suggestions for future maps are always welcome.

Featured Data Sources

www.direction2030.org
www.linkgis.org
www.accela.com
www.envista.com



@NKYmapLAB
2016 KYAPA Outstanding 3rd
2015 KY GIS Map Gallery
2015 ESRI UC Map Gallery



The LINK-GIS partnership has been using Software As A Service (SaaS) to manage right-of-way (ROW) projects since 2010. One of the primary benefits of this approach is that ROW improvements can be made by multiple agencies at the same time, saving both time and money. Total Life Cycle ROI to date exceeds \$272,000. More information can be found at: linkgis.org