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 th 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











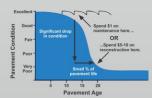


Pavement Condition Index (PCI) Assign objective scores to pavement **Establish Priority Projects** Establish a 3-year paving cycle

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, Sectioi/Historic Route, Maintenance History, and Functional Classification.



PCI Index (may vary by city)





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.





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, sawing both time and money. Total Life Cycle ROI to date exceeds \$272,000. More information can be found at: linkgis.cor.

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.

Kenton County

Covington*
Crescent Springs
Crestview Hills
Edgewood* Elsmere Erlanger Fort Mitchell Fort Wright Independence* Ludlow Park Hills Unincorp. Kenton Co.* Villa Hills

Walton (Kenton part)

Participating Agencies (*have PCI data)

Campbell County

Alexandria Caltornia
Cold Spring
Crestview
Dayton
Fort Thomas
Highland Heights
Melbourne
Mentor Southgate

Unincorp, Campbell Co.

NKY Utilities

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





How Does This Topic Apply to Direction 2030?

ontinue to encourage the sharing of technical to

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





