# GIS-Based Infrastructure Management for Municipalities



novotX, L.L.C.



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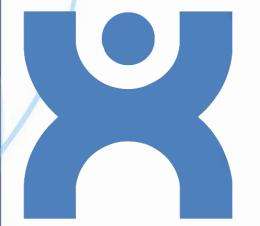
Crowne Plaza North Hotel

Columbus, Ohio



## about us

innovation creativity



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novotX, L. L. C.



# about you

Who's here?

county engineers

city engineers

private sector

other



# course objective

### we will discuss:

Creating and managing service requests, work orders, parts inventories, phone calls and other office tasks using GIS-based management solutions in order to streamline workflow processes and increase staff productivity.

### in order to:

Evaluate whether a GIS-based management system would be a viable solution for your agency.

Implement new technology to increase work flow efficiency and management through GIS integration.

Develop a plan to integrate GIS-based management.



# horns and beverage holders

Clip from "The Simpsons" episode "O brother where art thou?"



# first things first

What are you trying to accomplish?

Less is more.

Are you looking for and/or trying to build a "Homer"?

Why?

How much data do you really need to track?



# typical system components

service requests

Indicate that service is needed on a particular asset or in a particular location.

work orders

Problem resolution - track parts, labor, equipment costs, and other work related details.

inventory management

Manage stock levels, monitor parts, labor, and equipment usage.

phone calls / dispatching

Log phone calls and efficiently route service calls to appropriate departments.

billing and accounting

Integrate with work orders and inventory for accurate reporting.



### software evaluation

Things to consider when selecting an asset management package.

#### software

Old Technology?
Web Based?
Modular?
Proprietary database?
Learning curve?

#### maintenance

Technical support?
Maintenance fees?
Upgrades?
Third-party updates?

#### installation

Setup Costs?
Training Expenses (Location)?
Implementation Time (Duration)?

### licensing

Third-party licenses?
Per seat licensing?
Available site licenses?
Standalone application?



# GIS integration methods

direct read / write to GIS

hybrid GIS integration

advantages:

Single GIS database.

Possible field advantages.

disadvantages:

Licensing costs.

Third-party synchronization.

advantages:

Price and compatibility.

Not third-party dependent.

disadvantages:

Creating GIS data.

Possible multiple databases.

Is your solution tied to a specific GIS application? Does this matter?



### evaluate

Evaluate whether a GIS-based management system would be a viable solution for your agency.

why

What are the advantages of GIS-based management solutions?

Are specific organizations too big or too small for it? Why?

when

What level of priority is your GIS-based management solution?

cost / benefit analysis

How do you quantify and measure expected results?



# implement

Implement new technology to increase work flow efficiency and management through GIS integration.

true cost

Setup, training, implementation, and maintenance fees.

Third-party licenses, training, and maintenance fees.

true timeline

When will you be fully up and running with your solution?

Will it take a couple of months or a couple of years?

Remember: Other people will use the software too!

A clean and simple interface is key.



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