Same Info, but Different Strokes for Different Folks

- Ohio Turnpike: Andrew Cooksey, P.E.
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General Information

- Originally built in the early 1950’s
- Headed by a 7-Member Commission
- Operates independent of the DOT
- 2016 Average Daily Traffic Volume
  - 43,000+ Passenger Cars
  - 11,000+ Commercial Vehicles
General Information

- 241+ miles of mainline roadway
  - Over 1,500 Equivalent Lane Miles
- 57+ Facilities including
  - Service Plazas & Toll Plazas
  - Maintenance & Administrative Buildings
- 565 Bridges
Operational Information

- Largely still a paper-based organization
- In process of streamlining the current processes
- A preliminary survey found that:
  - Some information available electronically
  - Mostly kept within each department
    - Duplication of data from other departments
  - Most electronic data is not readily accessible
  - PCs used for routine office work
    - Email, word processing, spreadsheets, etc.
The Turnpike GIS History

- Initial software purchase: Early 1990’s
  - Minimal users 1-2
  - Program died after the users left
- Restarted in 2003: Ohio EPA Storm Water requires a map of storm water assets in urbanized areas only
- 2005: A limited number of assets were surveyed
- 2007: Additional data collected
- 2013: Storm water system completed, but only in urbanized area
  - Only 60 miles/241+ miles
Previous Implementation Attempts

- Multiple specific tools for specific departments
  - Strategic plans (2005 & 2013)
- Support to move forward was hard to achieve within the organization
- Changing leadership
- Misunderstanding of what GIS is
  - Google Maps ≠ GIS???
  - Common answer “I don’t need to see my info on a Map!!”
  - GIS is too complicated
  - GIS is too costly
Solution

- Solution requirements
  - Simple
  - Obvious
- 80/20 rule
- Tools for the majority

GIS

- Build Confidence
- Build Understanding
- Be Familiar
- Narrow Focus

3. Find x.
Data Mgmt. Plan Overview

- New Program Interface
- Existing Program Interface
- Modified Program Interface
- Converted Data
- Existing Databases
- Reports for Existing Data
- Existing Reports
- Modified Reports

Straight-line Diagram Application is the 1st Step
Q7 For what purpose do you use the software indicated in Question 6? (check all that apply)

Answered: 104  Skipped: 1

- Create/edit drawings
- Develop reports
- Log Information
- Reference available...
- Write correspondence
Phase 1 – Convert Strip Map
Highlights

- Accessible within OTIC firewall
- Responsive design technology with HTML5 and JavaScript, like ODOT TIMS
- Integrates with ODOT Pathweb imagery and Google Street View
Interactive Turnpike Strip Map

Strip Map Tool

This tool is a replicated version of the classic strip map, but here is interactive. The tool provides access to OTIC data like phone numbers, addresses, employee lists, etc.

LAUNCH

OTIC Files

This link is a repository of OTIC reports. These include reports such as the current phone number lists, facility list, employee lists, etc.

VIEW
Survey Says…
Demonstration