

# Tools for Transportation Analysis Using Web Based GIS

Ian Kidner, ODOT

Darlene Magold Scott, T&M Associates



OHIO DEPARTMENT OF  
TRANSPORTATION

**TIMS**

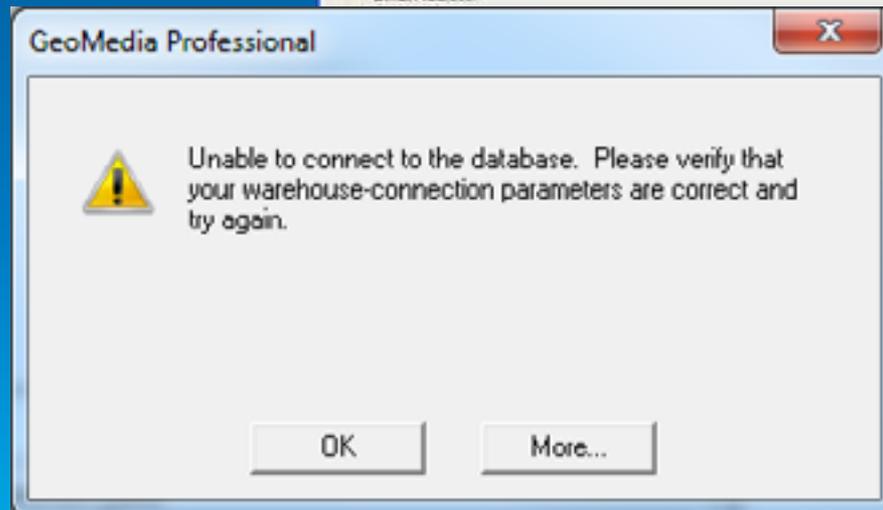
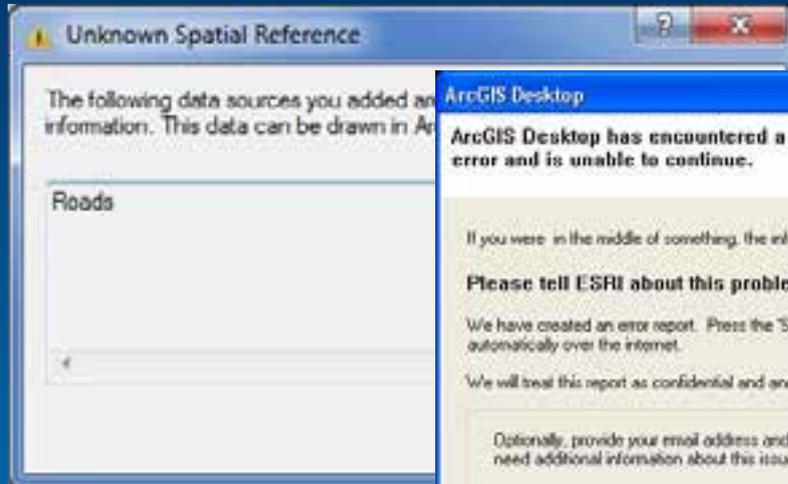
**Transportation  
Information  
Mapping  
System**



***Where can I find – wait,  
database connection how?***



# Geographic information what?



# TIMS Objective

A tool providing centralized access point to ODOT data,

*while*

minimizing the level of technical expertise required,

*while*

also providing sophisticated tools for viewing, analyzing, and communicating with ODOT information,

*allowing*

for greater collaboration between ODOT, ODOT customers, and ODOT business partners



## Transportation Assets

Bridges, Culverts, Outfalls, RR Crossings, ODOT Facilities, Aviation, Intermodals, Railroads, PCR



## Road Inventory

HPMS, Fed Truck Route, Fed Aid, Scenic Byways, NHS, Functional Class, NHS Intermodal, Ownership, Fed Urban Area



## Boundaries

Place, Cities, County, MPO, ODOT District, Rural Island, Political boundaries, townships, urban areas



## Traffic Counts

Traffic Stations, Total AADT



## Transportation Projects

Current projects since 2003, and future projects with committed funding



## Safety

Crash Locations for last 3 years (all roads, secured service)

# General Tools

- Navigation
- Find Location on Map
  - By Geography
  - By Coordinates
  - By County, Route, Log
- Bookmarks
- Message ODOT
- Email Map
- Draw & Measure
- Identify
- Upload Layer to Map
  - KML, SHP, Batch Geocode
- Map Channel
- PathWeb (ODOT Digital Photolog)
- Print to PDF
- Routing
- Weather
- Coordinate Extraction

# Analysis Tools

- Search Data
- Linear Referencing – *on the fly dynamic segmentation with ODOT LRS*
- Traffic Reports (AADT)
- Advanced Search (SQL style)
- Buffer
- Export to Excel, Shapefile

# Demo

## Example 1

Find location by log point, view image services (imagery basemap, map channel, PathWeb), Search Data & Export to Shapefile, Print to PDF/email map.

# Demo

## Example 2

Upload data via LRS tool, perform intersect,  
upload data via shapefile, batch geocode

Ian Kidner, ODOT  
ian.kidner@dot.state.oh.us  
614-752-5743

Darlene Magold Scott, T&M Associates  
dmagold@tandmassociates.com  
614-339-3380, ext 3660

<http://tims.dot.state.oh.us/TIMS>