

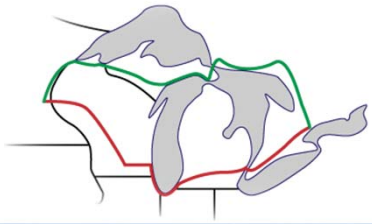
Great Lakes Regional Transportation Operations Coalition

Work Zone Project Coordination Michigan's I-94 Corridor and the Great Lakes Megaregion

Bobbi Welke, Southwest Region Engineer
Michigan Department of Transportation

Peter Rafferty, ITS Program Manager
Wisconsin TOPS Lab, University of Wisconsin-Madison

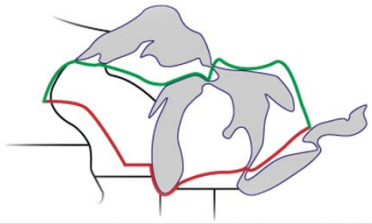
September 24, 2012



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Overview

- Michigan's I-94 Corridor
- GLRTOC
 - Partners & Mission
 - Geographic Area
 - Work Zone Coordination

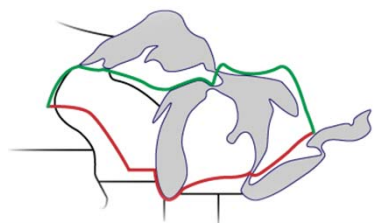


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MDOT Structure/I-94 Corridor



Consistent with the MDOT Strategic Plan, *improve traffic operations and system reliability* along the state's I-94 corridor, *optimizing* the department's *organizational effectiveness* and *producing results that satisfy our customer needs* and expectations for a high quality transportation system and travel experience.



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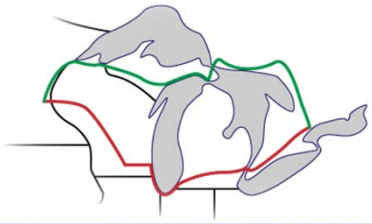


2011 Predicted Performance

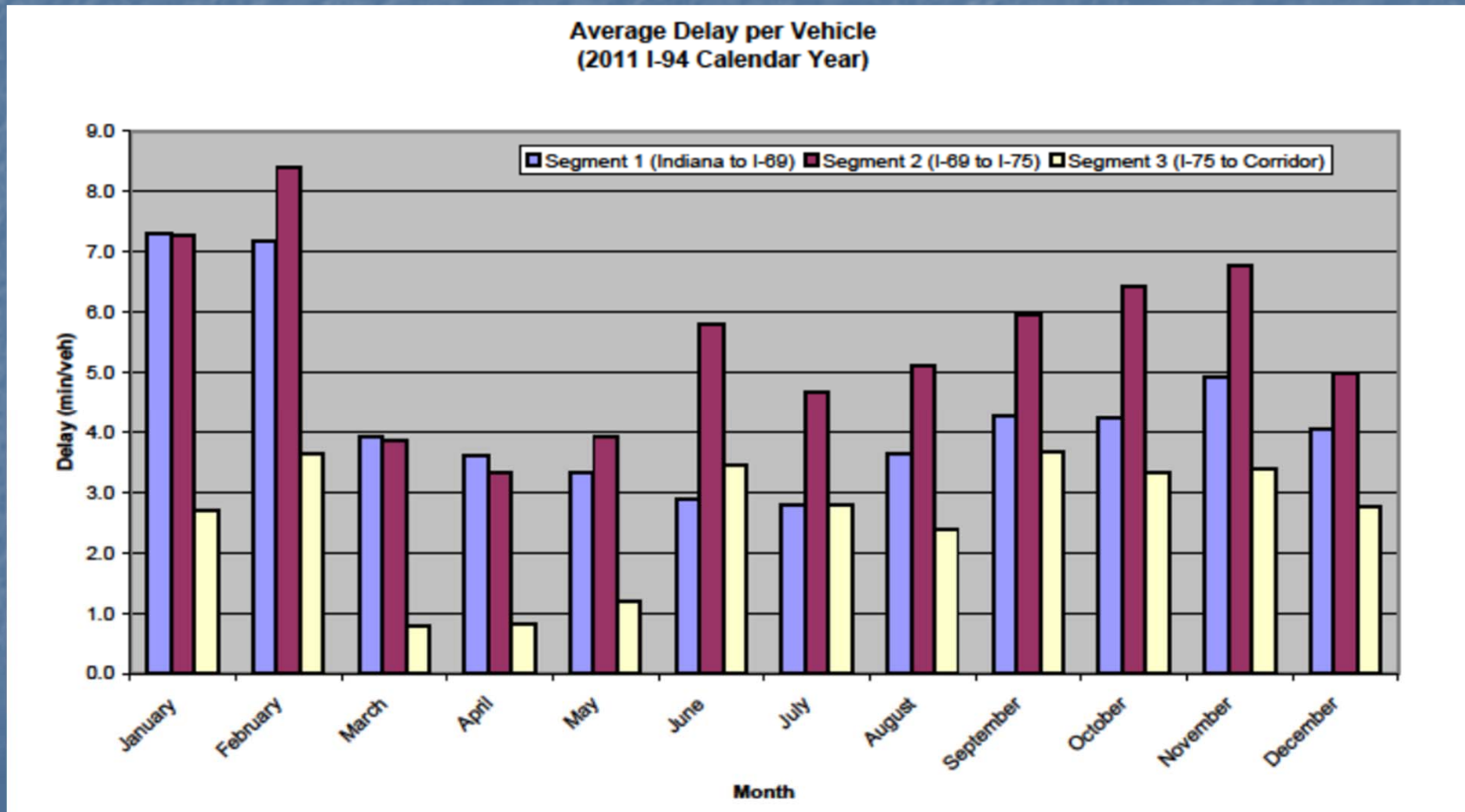


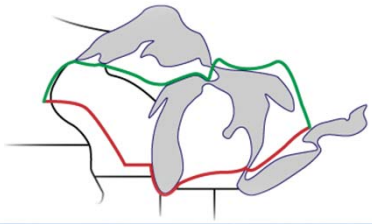
| | | |
|---------------------------------|----------------------------------|----------------------------------|
| 3 Projects | 8 Projects | 3 Projects |
| 15.5 Miles of WZ | 32.8 Miles of WZ | 14.3 Miles of WZ |
| 3.3 minutes TTD in Peak | 13.0 minutes TTD in Peak | 3.8 minutes TTD in Peak |
| 6.9 min. TTD in Off-Peak | 14.1 min. TTD in Off-Peak | 14.4 min. TTD in Off-Peak |



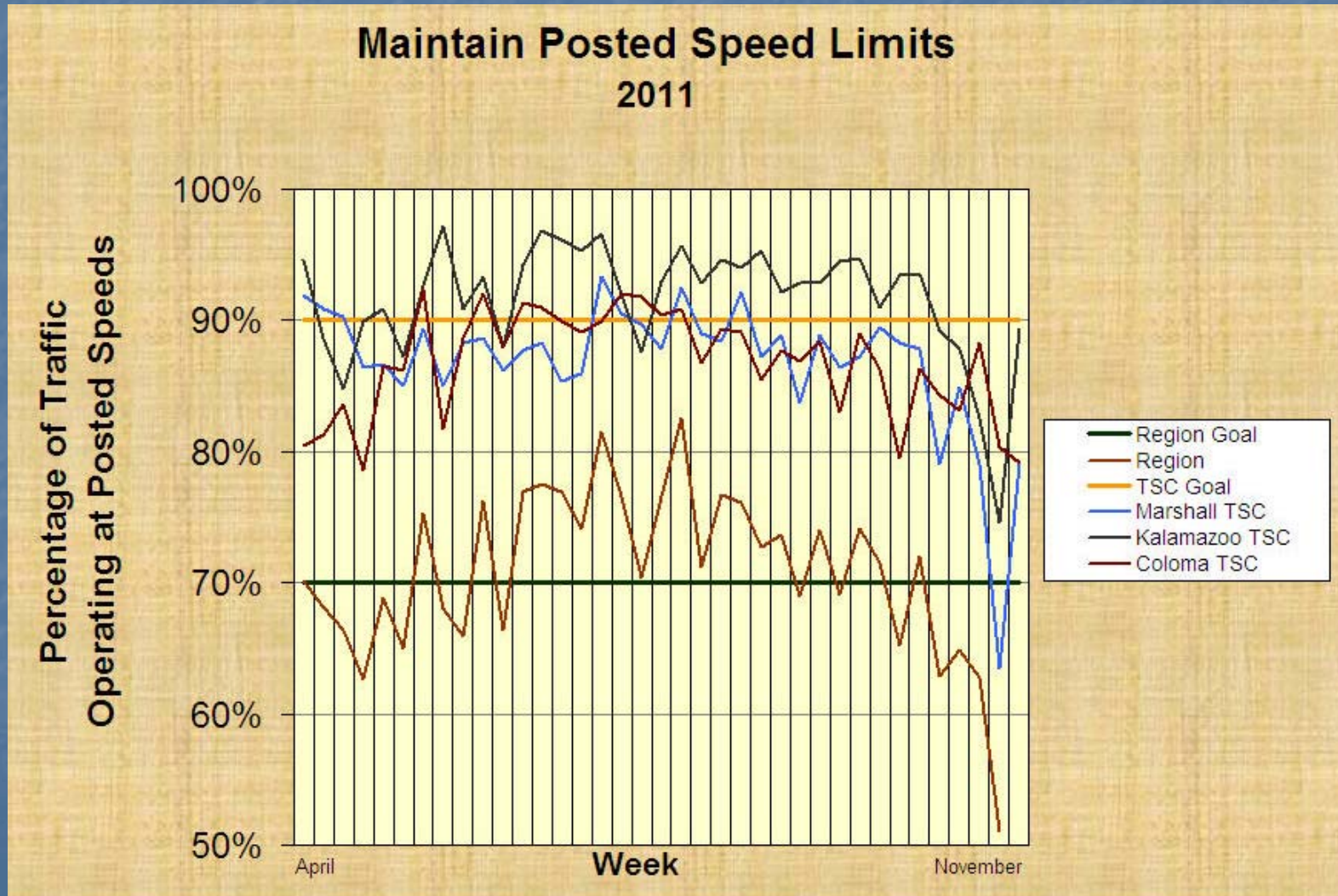


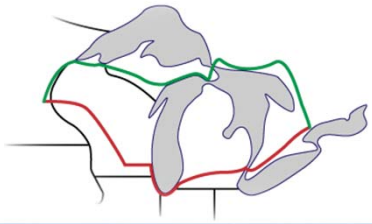
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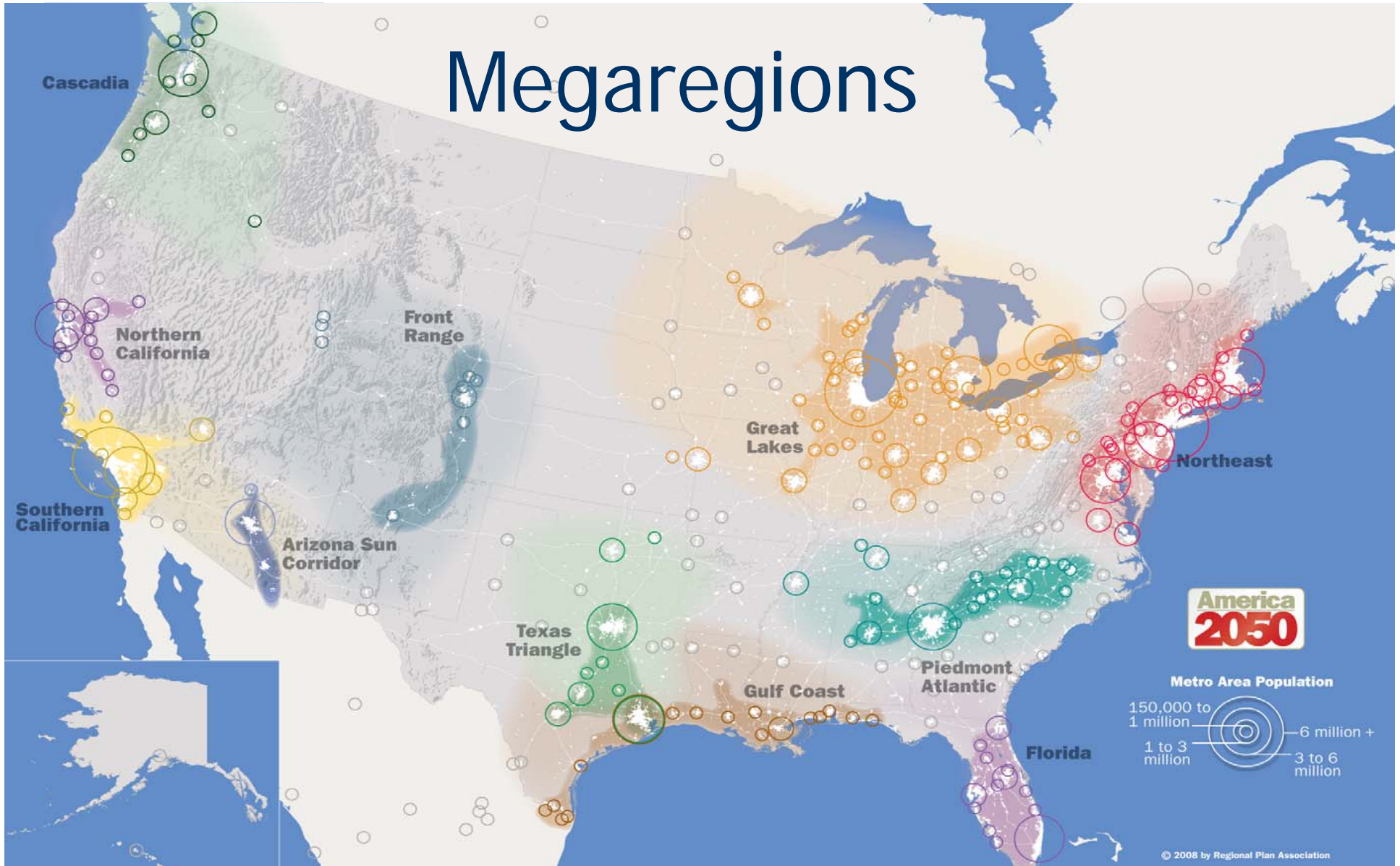
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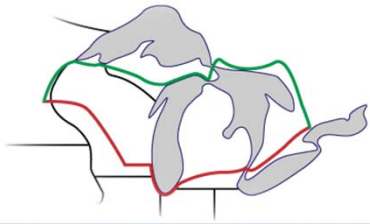




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Megaregions





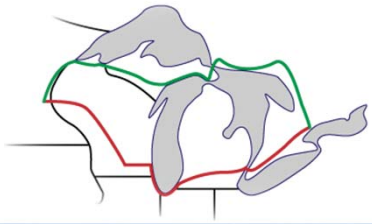
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GLRTOC Partners & Mission

- Chicago Skyway / Indiana Toll Road
- Illinois DOT
- Illinois Tollway
- Indiana DOT
- Michigan DOT
- Ministry of Transportation Ontario
- Minnesota DOT
- Wisconsin DOT

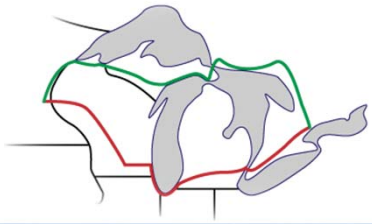


Improve cross-regional transportation operations in support of regional economic competitiveness and improved quality of life.



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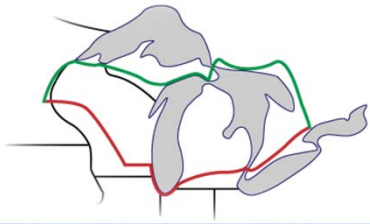


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GLRTOC Strategies

- Three Strategic Focus Areas
 - Efficient freight operations
 - Reliable mobility
 - TIM / ETO



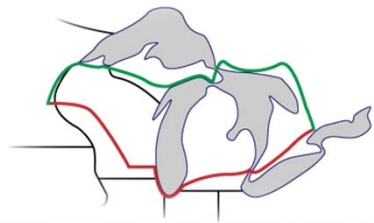


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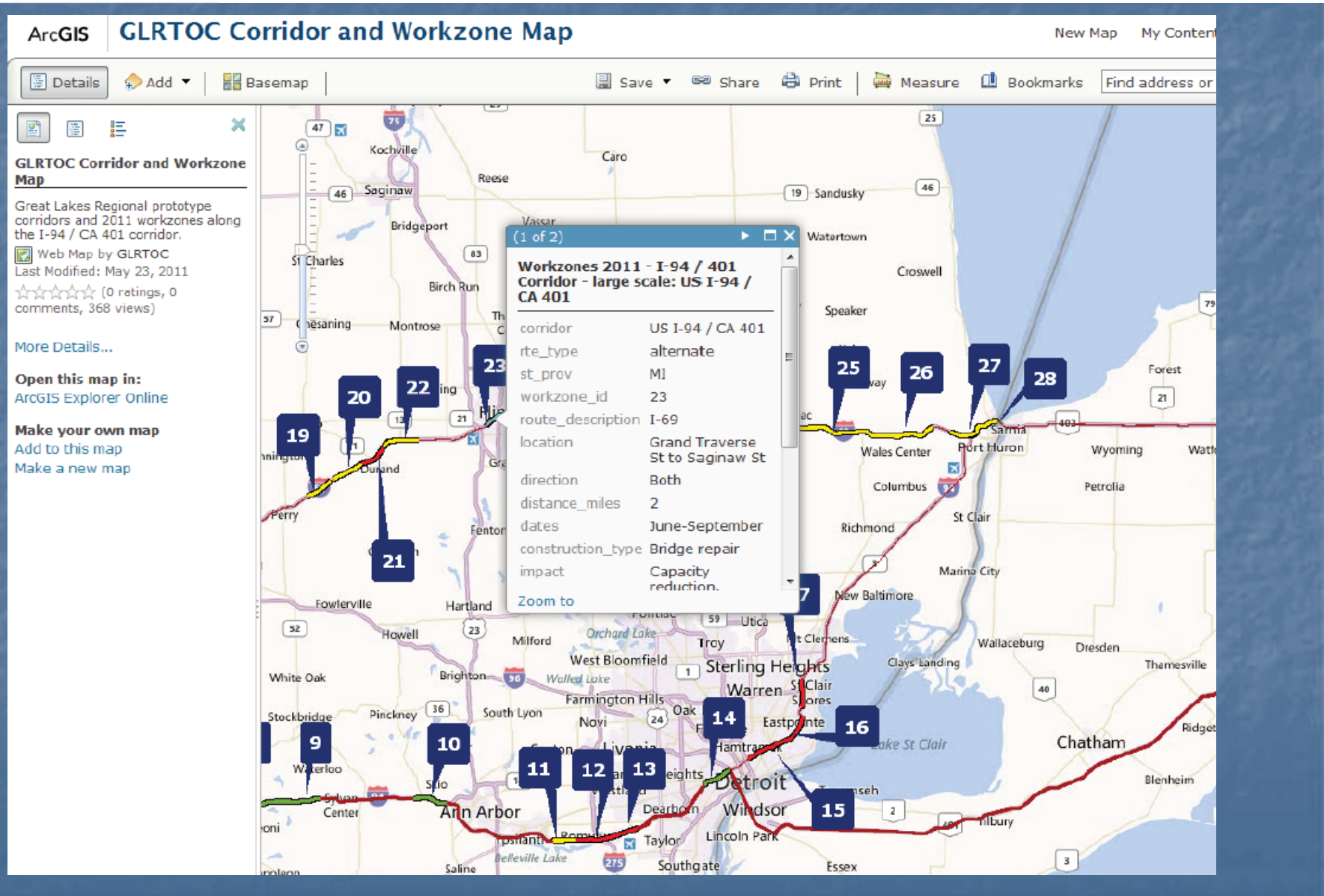
Annual Work Zone Preview

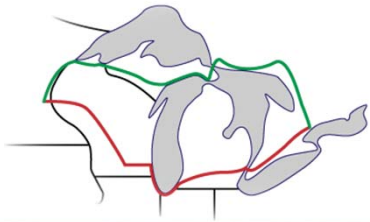
- LMIGA has been doing this for years for the Chicago region
- Among the first efforts of GLRTOC
- Held first week of February in Chicago

| 2011 Great Lakes I-94 / Hwy 401 Workzone Review | | | | | | | Low |
|---|-------|---|-----------|----------|----------------|--------------------|-----------------------------|
| Great Lakes Regional Transportation Operations Coalition (GLRTOC) | | | | | | | Medium |
| | | | | | | | High |
| Map ID | Route | Location | Direction | Distance | Dates | Type | Impact |
| MINNESOTA | | | | | | | |
| 1 | I-35 | Central Ave to Garfield Ave - Duluth | Both | 3 mi | April-October | Reconstruct | Capacity reduction |
| 2 | I-35 | Boundary Ave to 26th Ave in Duluth | Both | 10 mi | April-November | Reconstruct | Capacity reduction |
| 3 | I-35 | Near CTH 13/Midway Rd - St. Louis County | Both | 1 mi | July-September | Bridge repair | Capacity reduction |
| 4 | I-35 | TH 33, TH 35, and TH 23 - Carlton and Pine Counties | Both | | April-June | Bridge reconstruct | Periodic capacity reduction |
| 5 | I-35 | Hinckley and Moose Lake | Both | 30 mi | May-November | Bridge repair | Capacity reduction |
| 6 | I-35 | Hwy 8 to Hwy 95 in North Branch | Both | 16 mi | | Resurface | Capacity reduction |



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2012 Work Zones

Click and drag the slides to filter work zones by impact severity and by month.

Click the work zones on the map to view work zone attributes.

Show GLRTOC corridor routes

Show work zones outside the corridors

Show work zone labels

Impact Estimate
Medium - High

Time Frame
June - October

Enter a Map ID to zoom to a workzone that meets your selected criteria:

Map ID IL-10

Route I-94 (Kennedy Expy)

Location At Ohio Street

Direction Both

Dates Oct 1 - May 31, 2013

Type Bridge Replacement

Impact High

Description Capacity reduction: Bridge repair/replacement with lane restrictions, speed reduction

Hint: To sort on multiple columns, press Shift while clicking column headers. The table is displaying 16 of

| Map ID | Route | Location | Direction | Distance (mi) | Dates | Type | Impact |
|--------|---------------------|----------------|-----------|---------------|----------------------|--------------------|--------|
| IL-10 | I-94 (Kennedy Expy) | At Ohio Street | Both | 0 | Oct 1 - May 31, 2013 | Bridge Replacement | High |

To add or update your work zone information:

For detailed instructions, visit http://www.tpslab.wisc.edu/its/qlrtoc/qlrtoc_upload_instructions.pdf

- Select your location or organization:
- If you are updating or adding work zone locations, browse to your KML file:
- If you are updating or adding work zone attributes, browse to your CSV file:
-

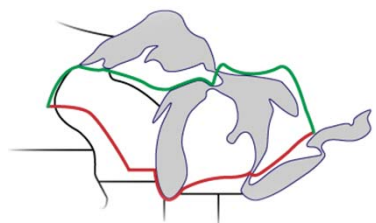
LOGIN

Username

Password

Remember Me

www.glrto.org/workzones

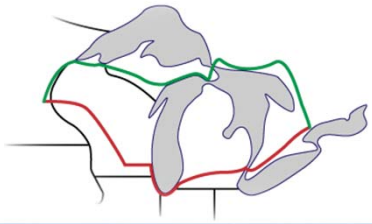


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GLRTOC MCOM Award

- Multi-State Corridor Operations & Management award for:
 - Center to Center Communications
 - Smart Work Zone Coordination



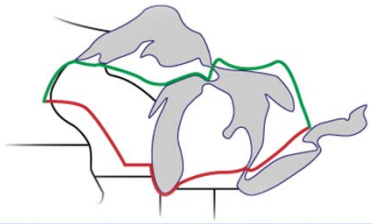


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Smart Work Zone Coordination

- Three tasks:
 - Annual work zone preview enhancements
 - Work zone mapping application
 - Work zone performance monitoring





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2. Work Zone Mapping Application

GLRTOC Work Zone Application

Attributes

Event Title: Motorcycle rally

Start Date: 6/12/2013

End Date: 6/17/2013

Event Description: 50,000 attendees expected. Delays from Main St. to Central Ave. will exceed 30 minutes.

Delete OK

Edit

Select template to create feature

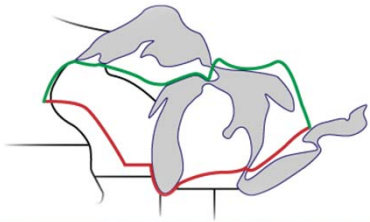
- Ontario Events
- Wisconsin Events
- Wisconsin Events
- Illinois Work Zones

Wisconsin Events

- Medium
- High

1 km 1 mi

POWERED BY esri



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GLRTOC Work Zone Application

Data Extract

Extract data and download zip file

1. Select area

Clear

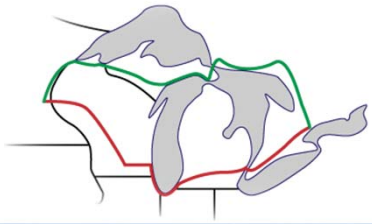
2. Select layers to extract

- Incident Points
- Incident Lines
- Incident Areas

3. Select file format

- File Geodatabase (.gdb)
- File Geodatabase (.gdb)
- Shapefile (.shp)
- Autodesk AutoCAD (.dxf)
- Autodesk AutoCAD (.dwg)
- Bentley Microstation Design (V8) (.dgn)

The map displays a large blue circular work zone centered on Madison, Wisconsin. Surrounding towns include Lodi, Sun Prairie, Marshall, Waunakee, Middleton, Cottage Grove, Deerfield, Lake Mills, Verona, Fitchburg, Oregon, Stoughton, Jefferson, Fort Atkinson, Belleville, Edgerton, Whitewater, New Glarus, Evansville, Milton, Monticello, and Jonesville. The application interface includes a toolbar with navigation and tool icons, and a list of nearby locations.

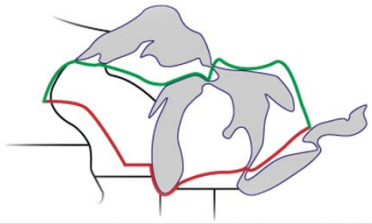


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3. Smart Work Zone Monitoring

- Pilot test segment is I-39/90 between Madison, WI and Rockford, IL
- 65-mile mostly rural corridor
- Minimal detection available
- Three agencies
- Multiple medium and high impact work zones





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Thank You



www.glrto.org
info@glrtoc.org