

# MnDOT

## Statewide Work Zone Safety Committee

### Intelligent Work Zone Deployments



# Iowa DOT Statewide IWZ Deployment

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- Procurement Method
- ITS Technologies Deployed
- Evaluation
- Future of IWZ in Iowa



# Procurement Method

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Followed MnDOT example of a direct procurement by leasing equipment and services.

Used pay for performance contract in Iowa

Selected based on previous contractor experience

# 2014 IWZ Contract

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- Assistance from SRF in writing contract and managing projects
- Qualifications and Cost-based selection of Street Smart Rentals - Minnesota
- Integration Support from TransCore
- Operations by Schneider/Telvent



# IWZ Coordination

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## Iowa Statewide Traffic Operations Center (TOC)



- 24/7 Operation
- Camera, Sensor and DMS Management

# Technology Deployed

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## Portable Traffic Sensors

- Same as Iowa DOT permanent Sensors
- Traffic counts & speeds every 20 seconds



# Technology Deployed

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## Temporary Cameras



- Great within reach of ITS Communications Network
  - Same as permanent Cameras
  - On 511
- Less useful on Cellular Modems

# Technology Deployed

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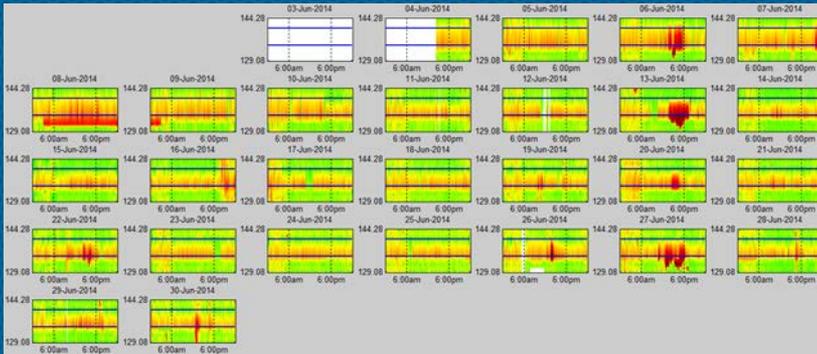
## Portable Dynamic Message Signs

- TOC controlled Rentals since 2013
- Mapped using GPS



# Evaluation

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## Five Categories:

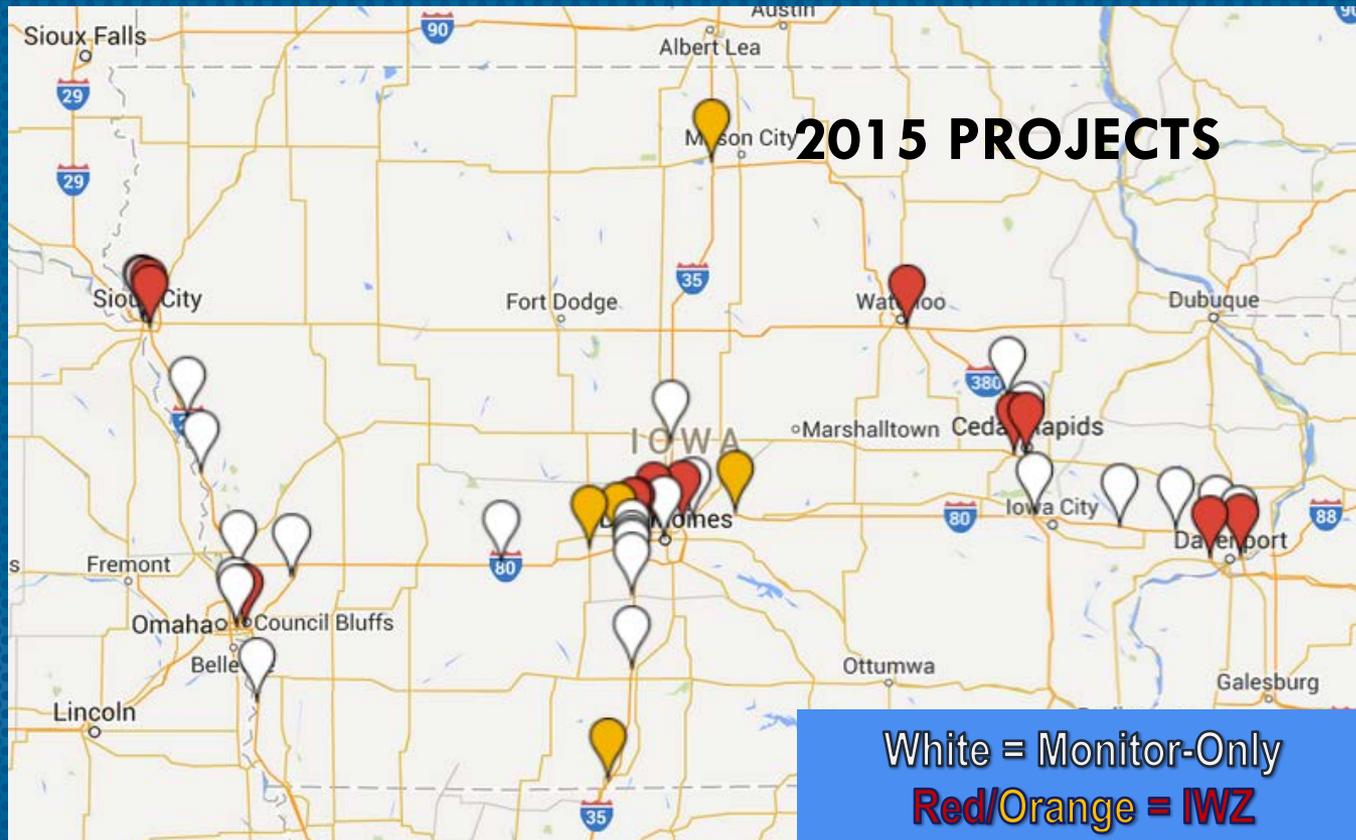
- Exposure
- Traffic Queuing
- Traveler Delay
- Travel Time Reliability
- Safety

IOWA STATE UNIVERSITY  
Institute for Transportation

**ctre**

Center for Transportation  
Research and Education

# Future of IWZ in Iowa



**Already looking at 2016-2017 projects**

# Traffic Critical Projects Web Page

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The screenshot shows a web browser window displaying the Iowa TCP Program website. The browser's address bar shows the URL <https://sites.google.com/site/iowatcp/home>. The website has a navigation bar with tabs for "Traffic Critical Projects Home", "2015 TCP List", "IWZ Projects", and "Non-IWZ Projects".

**Announcements**  
No announcements at this time.

**Upcoming Meetings**  
TCP Project Management Team: 2/24/2015  
IWZ Coordination Team: 2/24/2015  
TCP Steering Committee: 2/25/2015  
TCP Working Group: 3/11/2015  
TCP Evaluation Team: TBD

**IWZ Quick Links**  
[IWZ Projects](#)  
[IWZ Tasks & Action Items](#)  
[IWZ Calendar](#)  
[IWZ Device Management](#)  
[IWZ Logic Database](#)  
[Issues/Ideas/Concerns](#)

**Key Contacts**  
Tim Simodynes = (515) 239-1606  
Zach Hanson = (763) 452-4816

**Links**  
[TCP Org Chart](#)  
[Project Contacts](#)  
[IWZ System Diagrams](#)  
[Definition of Terms](#)  
[2016 TCP Planning](#)  
[2017 TCP Planning](#)

**Traffic Critical Projects Home**  
This site is currently in development. The map below shows the 2015 Traffic Critical Projects. Projects are still under consideration and may be added or removed at any time. As the TCP program is developed, additional tools will be added to this web site to facilitate program direction. Please e-mail [iowaiwz@gmail.com](mailto:iowaiwz@gmail.com) if you have any questions/comments/concerns. Thanks.

**2015 Iowa TCP Map**  
The map shows the state of Iowa with several red and yellow pins indicating project locations. Major cities like Minneapolis, Eau Claire, Rochester, Sioux Falls, Sioux City, Des Moines, Cedar Rapids, Davenport, Lincoln, St. Joseph, Kansas City, Columbia, St. Louis, Peoria, Springfield, and Chicago are labeled. The map also shows the borders of Wisconsin, Illinois, and Missouri.

<https://sites.google.com/site/iowatcp/home>

IWZ details can be found using the link in the navigation bar.

# Exploring Additional IWZ Technologies

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- Incorporate **INRIX** Traffic Data
- Speed Management / Feedback
- Trucks Entering systems
- Additional Data Collection/Analysis for Future Projects



# Contact Information

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Jon Jackels, PE, PTOE

Senior Associate

SRF Consulting Group, Inc.

(763) 249-6722

[jjackels@srfconsulting.com](mailto:jjackels@srfconsulting.com)