Wisconsin Truck Parking

ITS/ITE Joint Meeting
July 13, 2016
Why?

- Jason’s Law
  - Jason Rivenburg was murdered in 2009 for $7
  - Parked at an abandoned gas station in South Carolina
  - No rest areas in the vicinity

- Jason’s Law makes safe truck parking a national priority
  - Passed and included in the 2012 Transportation Reauthorization Bill
And this too....
Two Wisconsin Deployments

- Summer/Fall 2016
  - I-94 eastbound

- Summer/Fall 2017
  - I-94
    - Remainder of eastbound rest areas
    - All westbound rest areas
2016 Deployment
WisDOT Truck Parking Location Map
(172 miles, 157 truck stalls)

Updated: April 21, 2015

Legend
P  Truck Parking

- Rest Area # 61
  Menomonie (EB)
  25 Truck Stalls

- Rest Area # 63
  Millston (EB)
  41 Truck Stalls

- Rest Area # 9
  Lyndon Station (EB)
  23 Truck Stalls

- Rest Area # 11
  Portage (SB/EB)
  68 Truck Stalls
Video Pattern Recognition

HD Res IP cameras

3D Registration & alignment with Parking lot surface

**Slide courtesy of UMN/MnDOT**
Video Pattern Recognition

- UMN website: http://reststop.cs.umn.edu/

Elm Creek EB
I-94 mile post 215.0

11 of 15 spaces available

Last Report
Wednesday, April 22nd 2015, 10:44:10 am -05:00

04/22/2015 10:44:10 am -05:00
Magnetometer Detection

- Senses a magnetic field around it
- Will count in/out of rest area
- Formula used:
  \[
  \text{# of stalls available} = \text{Total # of stalls} - (\text{Vehicles In} - \text{Vehicles Out})
  \]
Dissemination

- Wisconsin
  - WI 511
  - TSPS website & mobile app
  - XML feed
  - Hybrid Signs
    - 5.25’H x 17’W
  - 3rd parties
Truck Parking TIGER Grant - TPIMS

- Official Title:
  - Truck Parking Information Management Systems

MAASTO Regional Truck Parking

Truck Parking Information Management Systems (TPIMS)
TPIMS Vision Statement

“Strengthening America’s freight network by providing commercial truckers with timely, reliable parking availability information.”
Wisconsin Award Amount

- Award: ~$2,045,000
  - State match of $300,000
  - Total award: ~$2,345,000
# TPIMS Timeline

## Schedule for Developing and Deploying the Regional TPIMS Project

<table>
<thead>
<tr>
<th>Event</th>
<th>Feb</th>
<th>Mar</th>
<th>Apr</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>2017</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope Verification Meeting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Program Oversight &amp; Coordination</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Program Management Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Quality Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Grant Requirements and Reporting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partnership Kick-Off Workshop</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concept of Operations</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System Requirements</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conceptual Design (30%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete 30% Design Package</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detailed (Final) Design (100%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design Completion/Obligation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Construction &amp; Systems Integration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Develop/Refine Success Measures</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System Launch</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marketing &amp; Promotional Plan</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>System Launch Campaign</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Year 1 Media Campaign &amp; Success Measures Tracking</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Industry Stakeholder Coordination</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Milestones**
- **Tasks**
- **Industry Coordination and Input**
- **Partnership Task Force Workshop**
WisDOT TPIMS Plan

Priority of construction

1. Complete I-94 EB from Lake Mills to Kenosha
2. I-94 WB from IL State Line to MN State Line

- TPIMS project will consist of 241 truck parking stalls
- Total of 398 truck parking stalls when complete
TPIMS Alternate Sites

- 88 Safety & Weight Enforcement Facility (SWEF) stalls
- 125 rest area stalls
- Priority:
  - I-39/90 from IL State Line to Madison
  - I-90 from Tomah to MN State Line
    - Decision will be made based upon available funds
TPIMS Alternate Sites

VILLAGE OF BRISTOL
VILLAGE OF PLEASANT PRAIRIE

SWEF #21
Kenosha
27 Stalls
TPIMS Project Website

trucksparkhere.com

Our Vision

Strengthening America’s freight network by providing commercial truckers with timely, reliable parking-availability information.
Contact Information

Randy Hoyt, PE
State Active Traffic Management Engineer
Bureau of Traffic Operations
randall.hoyt@dot.wi.gov
414.227.4671