



# **SMART TRUCK PARKING**

February 5, 2015





# THE PROBLEM WITH TRUCK PARKING



Photo from Jason Rivenburg Murder Scene, March 2009



Photo from Dunkin' Donuts Crash, November, 2014



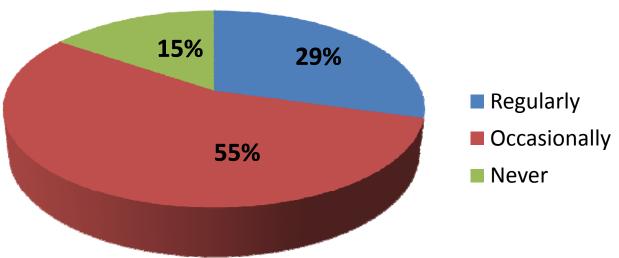
Photo from Michael Boeglin Murder Scene, June 2014





"How often have you found yourself fatigued and left with an unsafe feeling because you were not able to find a safe place to park your vehicle?"

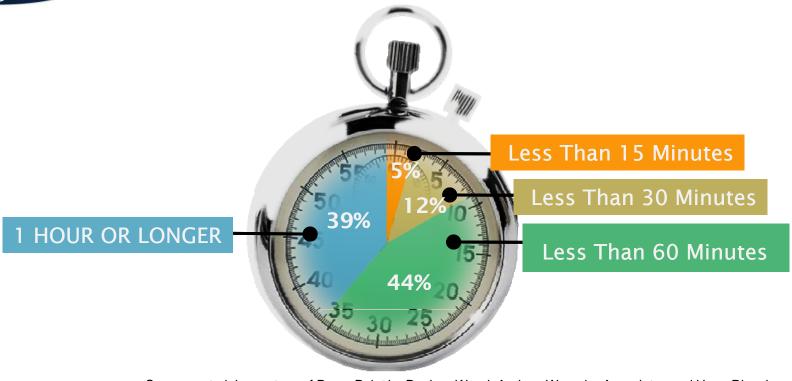
#### **Fatigued Driving**



Survey materials courtesy of PowerPoint by Desiree Wood, Andrew Warcaba Associates and Hope Rivenburg



#### HOW LONG DOES IT TAKE TO FIND PARKING?



Survey materials courtesy of PowerPoint by Desiree Wood, Andrew Warcaba Associates and Hope Rivenburg





#### **Safety Impact**

- 8% crashes fatigue related (FMCSA)
- 15% fatal crashes fatigue related (NCHRP)

#### **Economic Impact**

15 minutes = \$4.4B annually

#### **Environmental Impact**

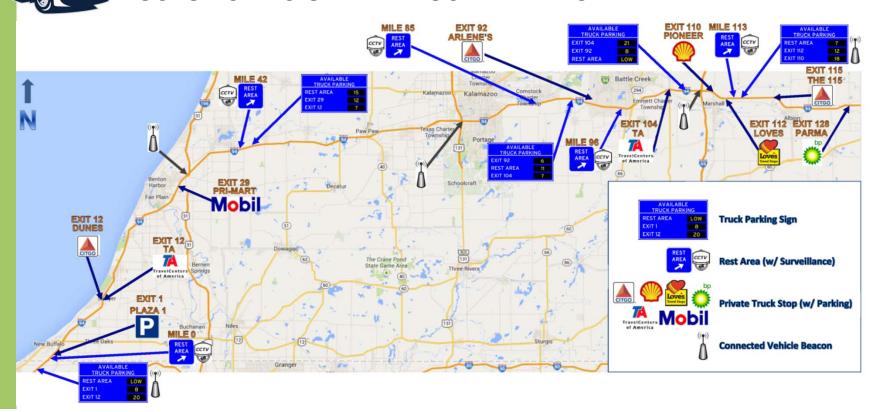
 15 minutes = 3.3millon TONS CO<sub>2</sub> annually







#### SOLUTION TO SMART TRUCK PARKING



## PROJECT GOALS



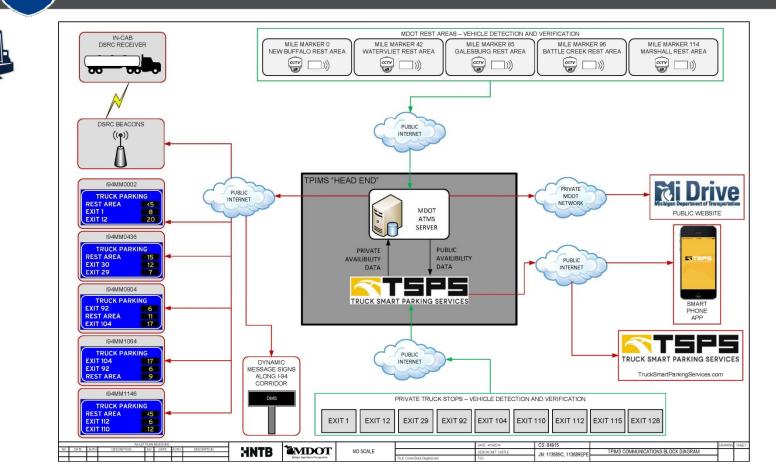


- Enhance highway safety by providing timely and <u>reliable</u> truck parking information
- Provide a <u>sustainable and scalable</u> truck parking solution
- Provide a secure solution that protects user privacy and data
- Maximize user acceptance of the system for truck parking decisions



## SYSTEM CONCEPT









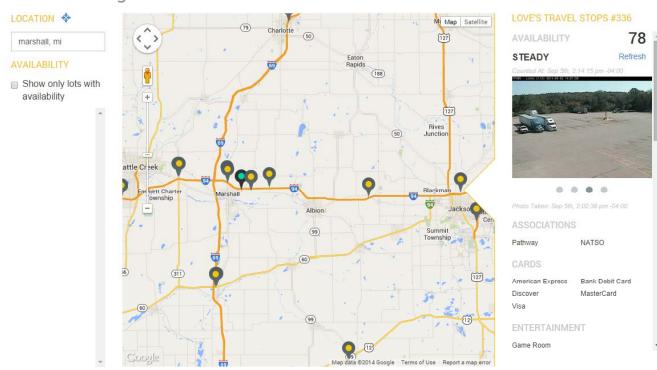


## AVAILABILITY COMMUNICATION





#### Find Parking





## AVAILABILITY COMMUNICATION

















- Unified, interstate, national Truck Smart Parking network
- Leverage public & private resources to form coalitions
- System is scalable, live and production-ready for expansion



### TRUCK SMART PARKING VISION







#### **Safety Benefits**

- Allows safer parking decisions; reduces fatigue related crashes
- Removes trucks from ramps, shoulders

#### **Economic Benefits**

- Drivers & Carriers more efficient; increased profitability
- Truck Stops increase business; potential to monetize largest asset (land)

#### **Environmental Benefits**

15 minutes saves 2 gallons diesel; fewer greenhouse gasses









