



Kansas City

MoDOT + KDOT

SCOUT

Weather Integration Project Update

RWMP Stakeholder Meeting - Madison, WI

August 7-9, 2012

*getting you there*



# Project Roadmap

- 2009 FHWA Self-Evaluation Guide
- 2010 Implementation Plan – 6 Targets
- 2011 Achieved All Target Strategies

**But Winter was a “No Show”**

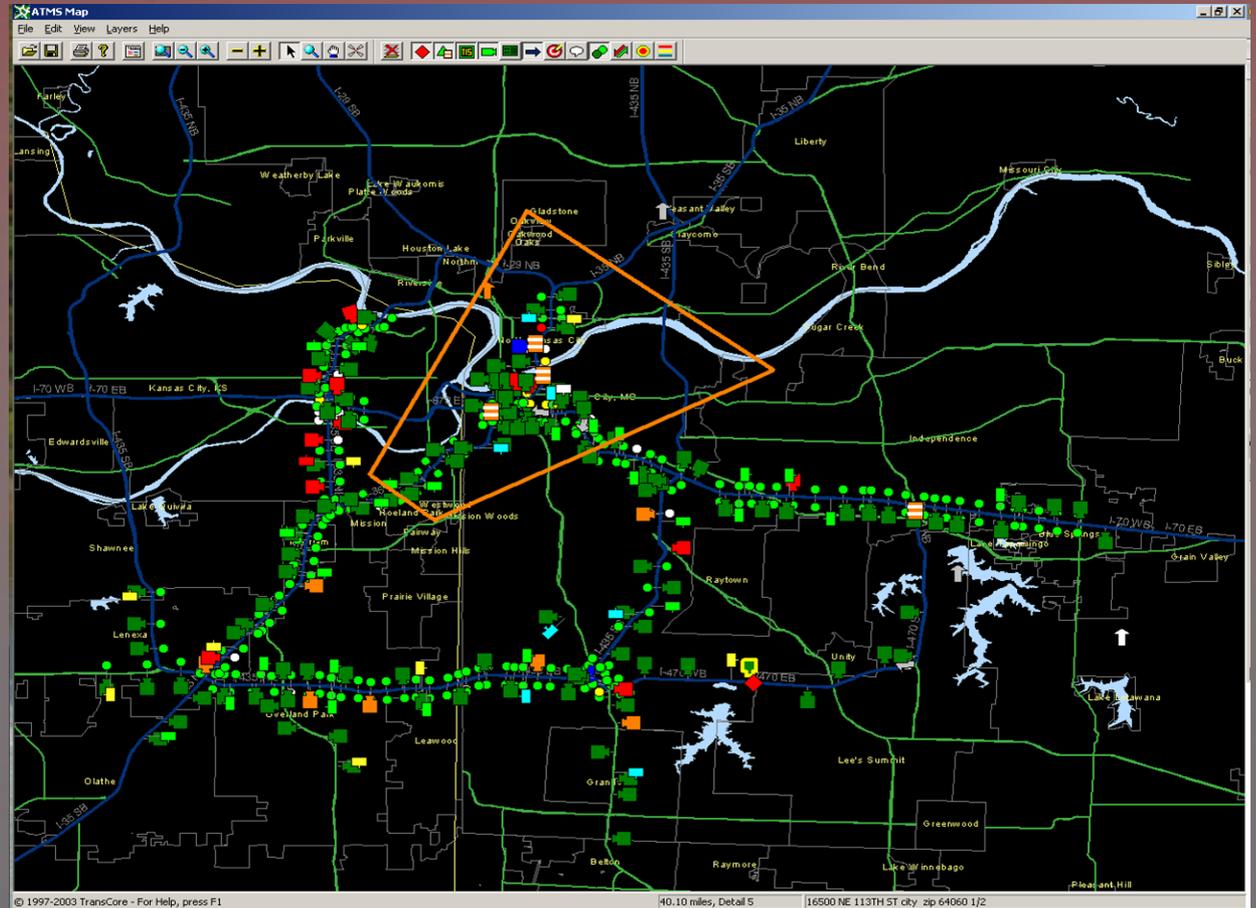
# Objectives

- INTEGRATION of severe weather events into ATMS to be managed by the TMC similar to a traffic event
- Proactive ADVISORY messaging
- Ability to EVALUATE results

# Outcomes

- Automatic ATMS map display of dynamic NWS Warnings and Alerts
- Push vs. Pull to the desktop
- Polygon with tool tip weather data
- Right Click ability to add event
- Real Time updates as they

# Polygon Display



# Event Management

Severe Thunderstorm	17:30	18:00	KC Metro	Severe Thunderstorm	29001.0	Other
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Add Comment

**Severe Thunderstorm**

KC Scout

Severe Thunderstorm

Reported By

System

note

Started

08/08/2012 19:03  27 min duration

08/08/2012 19:30  + (estimated clearance)

**29001.0 - <city>**  
**KC Metro**

LINK  1  2

Confirmed  08/08/2012 19:13

By david.peterlin

Notes

DMSs Weather | Motorist Assist | Responders | Exporters | Client Data | Comments | Aux Locations | ITIS | History

Weather Reports

Acknowledged	By	Date Created	Rpt. Id	Title
08/09/2012 05:20	scott.browning	08/08/2012 19:19	138655	Severe Thunderstorm Warning issued August 08 at 7:17PM CDT until August 08 at 7:30PM CDT by NWS
08/08/2012 19:12	david.peterlin	08/08/2012 19:13	138649	Severe Thunderstorm Warning issued August 08 at 7:17PM CDT until August 08 at 7:30PM CDT by NWS

Effective **8/8/2012 7:17:00 PM** Expiration **8/8/2012 7:30:00 PM** Product **Operational**

Phenomena **Severe Thunderstorm** Certainty **Observed** Office **NWS Kansas City (Northwestern Missouri)**

Type **Alert** Status **Actual** Event Begin

Severity **Severe** Significance **Warning** Event End **8/8/2012 7:30:00 PM**

Urgency **Immediate** Action **Continued** Tracking # **97**

...A SEVERE THUNDERSTORM WARNING REMAINS IN EFFECT FOR SOUTHERN PLATTE...WEST CENTRAL CLAY...WESTERN WYANDOTTE AND EAST CENTRAL LEAVENWORTH COUNTIES UNTIL 730 PM CDT... AT 714 PM CDT...A SEVERE THUNDERSTORM WAS LOCATED NEAR LANSING...AND MOVING SOUTHEAST AT 30 MPH. AT 651 PM...LOCAL EMERGENCY MANAGEMENT REPORTED A 60 MPH WIND GUST IN LEAVENWORTH. AT 701 PM...LOCAL EMERGENCY MANAGEMENT REPORTED A 60 MPH WIND GUST 1 MILE WEST OF JARBALO. HAZARD...60 MPH WIND GUSTS. SOURCE...RADAR INDICATED. IMPACT...MINOR TREE DAMAGE...WITH LIMBS UP TO ONE INCH IN DIAMETER BROKEN. LOCATIONS IMPACTED INCLUDE... WEATHERBY LAKE...PARKVILLE...FERRELVIEW...PLATTE WOODS...LAKE WAUKOMIS...KANSAS CITY INTL ARPT...WALDRON...PIPER...WOLCOTT... POMEROY...MAYWOOD AND BEVERLY HILLS. THIS WILL IMPACT THE FOLLOWING INTERSTATES... I-435 LOOP FROM MILE MARKERS 11 TO 42. I-29 BETWEEN MILE MARKERS 6 AND 25. ...< 75IN WIND...60 MPH

# Evaluation Tools

- Ability to correlate relationship of severe weather to traffic impacts
- Ability to assess effectiveness of proactive messaging and alerts
- Ability to share raw traffic data with 3<sup>rd</sup> parties

# NWS Analysis

Prepared by NWS Pleasant Hill, MO Meteorologists  
Suzanne Fortin and Matthew Dux, using raw traffic  
data provided by KC Scout

## Preliminary Study: An Assessment of Hazardous Weather Impact on Traffic Flow in the Kansas City Metropolitan Area

*15<sup>th</sup> Annual High Plains AMS/NWA Conference*

*Wichita, KS*

*4-6 August 2011*

*Adam Jones \**

*Matthew Dux \*\**

*Suzanne M. Fortin \*\**

\* - The University of Oklahoma/National Weather Service Pleasant Hill, Missouri

\*\* National Weather Service Pleasant Hill, Missouri

## Valentines Day 2010 Snow Squall



Snow Squall - Lake Champlain

Central Region Science Sharing Webinar - January 10, 2012

*Chris Bowman*

*Matthew Dux*

*National Weather Service - Pleasant Hill, MO*

# Contact Info

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