# WYDOT

Focus on Transportation Safety

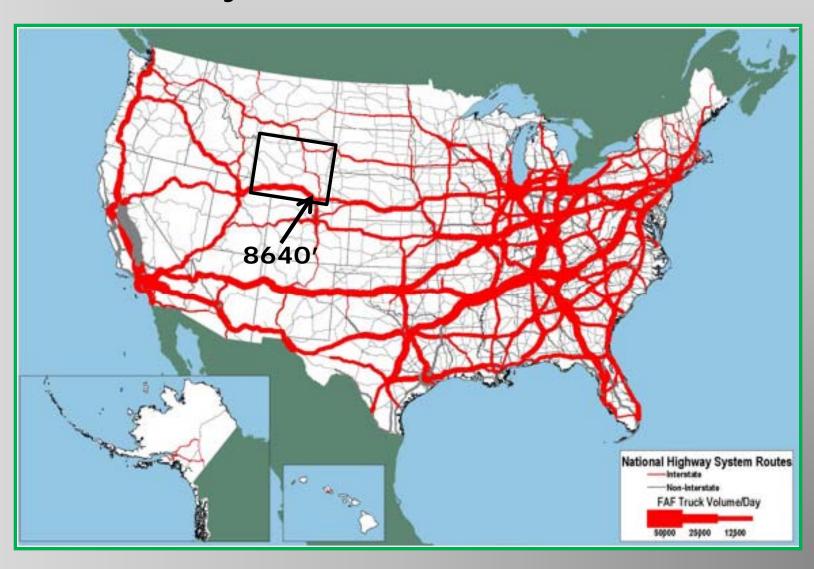
August 11, 2015 Snowbird, Utah

R. Vince Garcia, P.E. GIS/ITS Program Manager

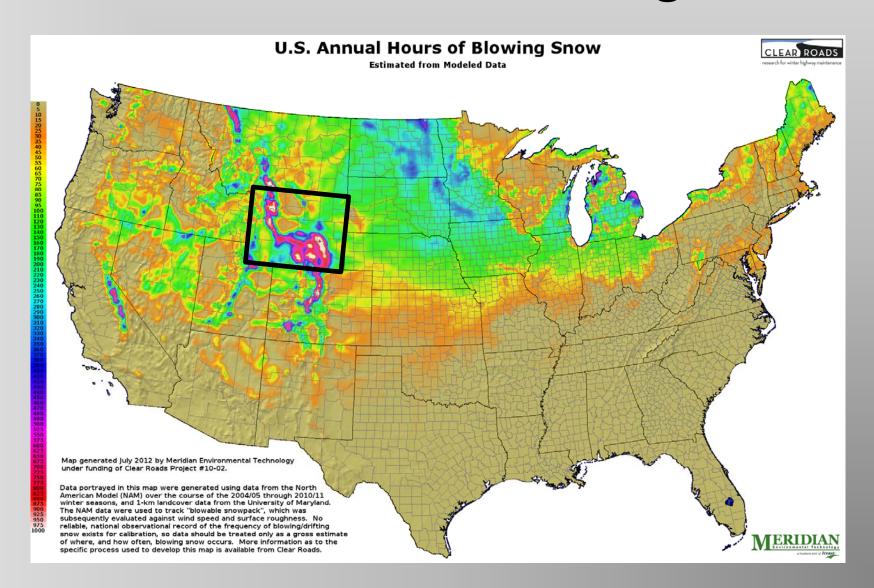
# Agenda

- Background information
- Methods to inform the public
  - Commercial Vehicle Operators
  - WAT
  - Pathfinder
  - Smart TVs
  - VOCE
  - Mobile App

# I-80 Major Commerce Corridor



# Winter Weather – Blowing Snow



# Winter Weather Crashes



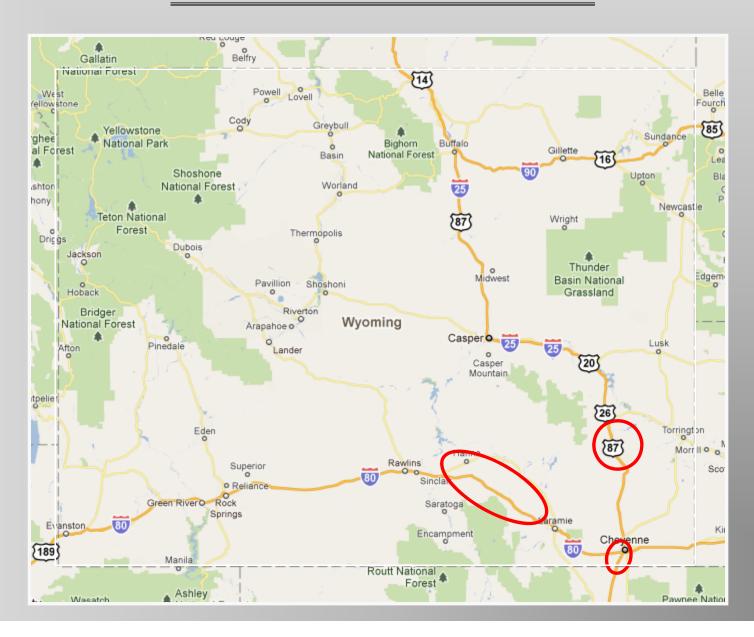
# April 20, 2015



# April 20, 2015



## **Blowover Crashes**



# **Blowover Crashes**



# **Blowover Crashes**



# Strategy

- Avoid problems with good design
  - Geometric design
  - Account for blowing snow slope selections
  - Account for shadows on roadway cut sections
- Mitigate
  - Snow fence
  - Slope flattening
- Deploy ITS and inform the public

#### **Stats**

 During the 2014-15 Winter season (October to May) - 700+ million web hits (up from 600 million during previous year).

2014-2015 511 Notify Service – Sent 18.6
million text messages and 15.8 million emails

 2014-2015 Phone system - Received 502,505 calls (down from a peak of 1.9 million)

## How TMC Achieves It's Goals?

#### Affect driver behavior

- Advisories/Recommendations/Information
- Enforceable requirements
  - Variable Speed Limits
  - Closures
  - Chain laws

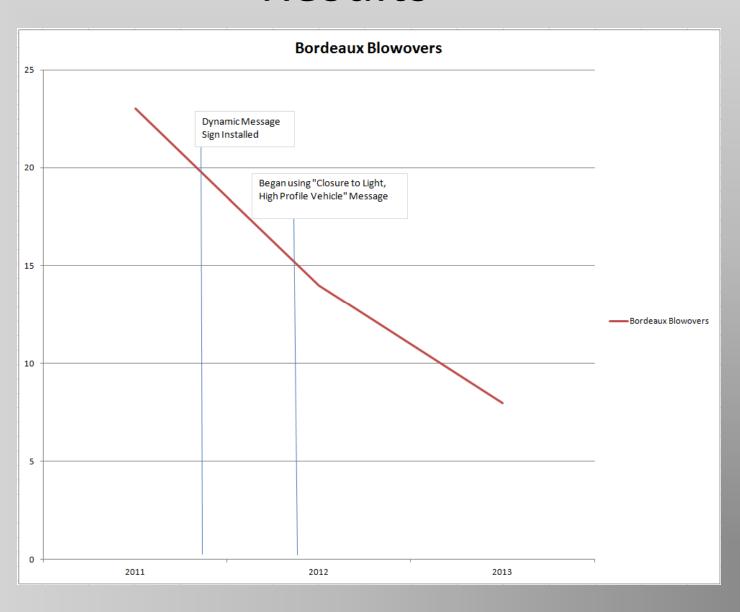
# C2LHPV

## Minimize Blowovers

- Closure to light, high profile vehicles
- Authority granted in W.S. 24-1-108 and 109
- Wind gust 65 mph or a single blowover

No cost associated with this option

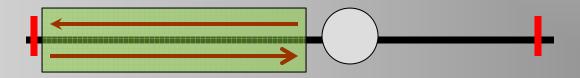
# Results



- WYDOT Authorized Travel (for Business)
- Genesis: Legislator wanted to be able to get to his home and his ranching operations

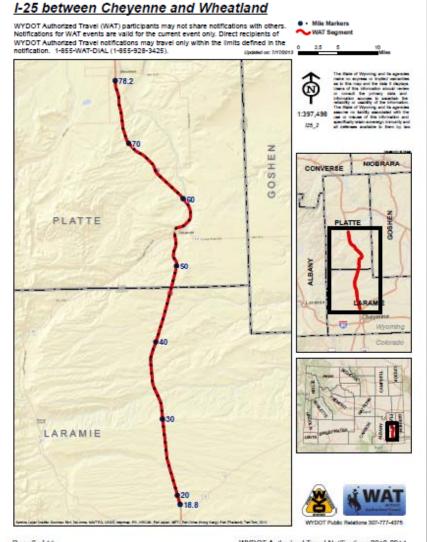
Process: If a road closed but a portion of the road is safe to travel (as assessed by Patrol and Maintenance), an authorization can be issued for pre-approved travelers.

- WYDOT Authorized Travel
- Authority granted in W.S. 24-1-108 and 109
- Pre-approved citizens can travel on a closed road segment if, and only if, WHP and/or Maintenance deems the road safe
- Intended for citizens who live or work beyond a closure gate



http://wyoroad.info/wat

- In the event of a closure, TMC coordinates WAT
- Patrol and Maintenance must approve
- Citizens automatically notified of authorized limits



# **CVOP**

# Commercial Vehicle Operator Portal

Working directly with Trucking Industry to tailor information

Forecasting/meteorology

Use of technologies/messaging

# **CVOP Specifics**

 System built specifically for CVOs with their direct involvement

- IMPACT forecasts in 12 hr increments for 72 hrs
  - Surface condition
  - Visibility
  - Wind speed

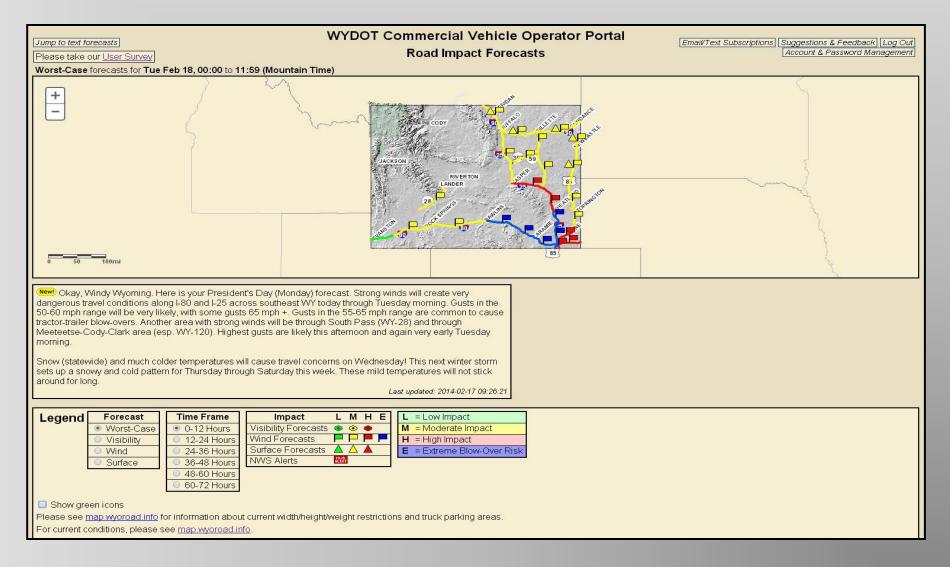
# **CVOP Specifics**

Text/email alerts for high impact forecasts

Map and text formats

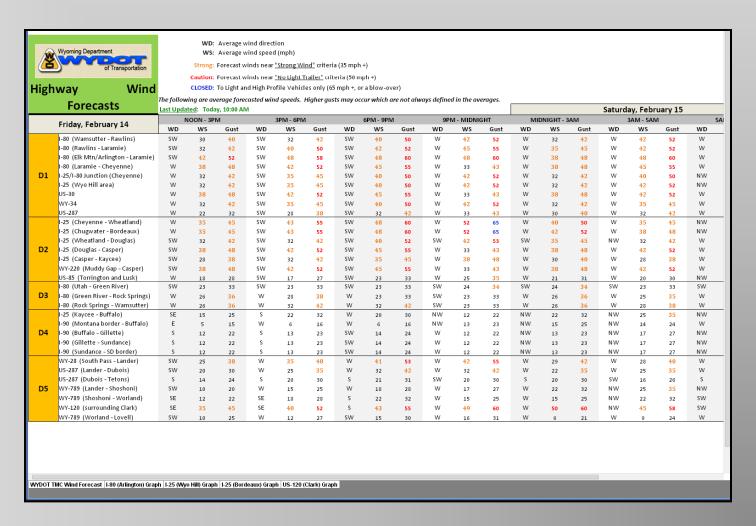
■ 150+ companies involved in the system

# Commercial Vehicle Operator Portal



https://apps.wyoroad.info/cvop/

## **CVOP Detailed Wind Grid**



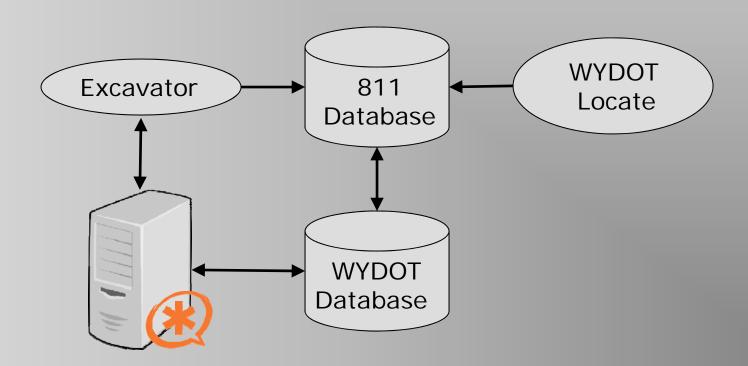
https://apps.wyoroad.info/cvop/

## **VOCE**

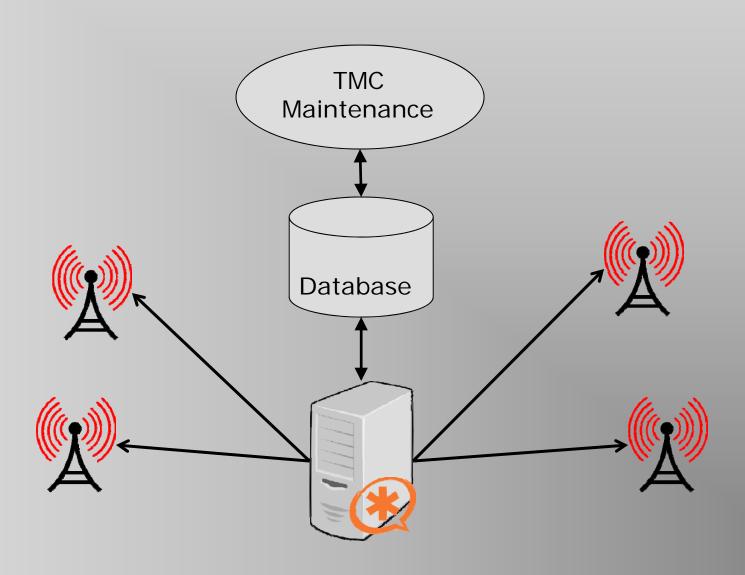


# Call Before You Dig

- WYDOT responds to 20,000 "Call before you dig" requests
- TMC is responsible for making routine calls



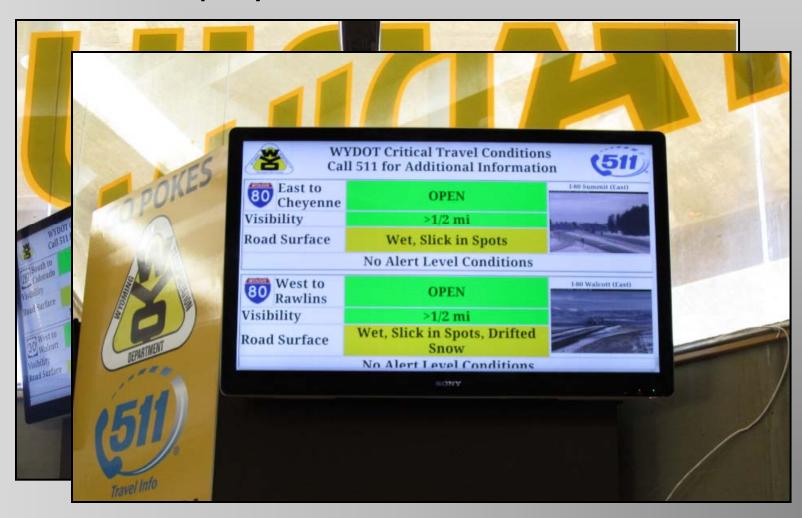
# HAR



# **SMART TVS**

## **Smart TVs**

Custom displays for business or event locations



## **Smart TVs**

- Hotel lobbies
- Ports of Entry
- Sporting events
- Truck stops
- Other businesses
- Funding for the project may be available through the Department of Workforce Service Safety Improvement Fund. For more information, visit: http://tinyurl.com/q48tfbd

## **PATHFINDER**



Photo Credit: Jeff Garmon

## Pathfinder

- FHWA and NWS Project
- Improved relationships
- Improved communications
  - More consistency, more action-oriented
- Coordinated statements
- Highlighted impacts









## Pathfinder

<u>NWS</u>

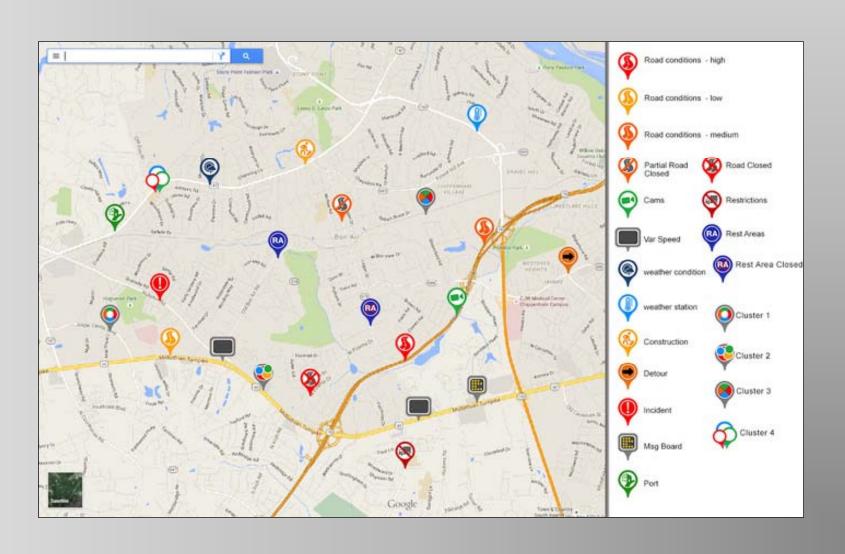
Graphical products Highway Advisory Radios

Social Media Email Subscription Alerts

 Big storm events coordinated through NWS Chat and Telephone calls

 The public benefits by improved information and consistent messaging.

# **MOBILE APP**



# Mobile App

- WYDOT is very late to the game
- Four major functions
  - Pre-trip information in map format
  - En route information hands free
  - Emergency
  - Submit a snapshot

## Thank You

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