

# Providing Local Road Closure Information to Navigation Companies

NWP Ops Task Force

June 12, 2024





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# The Problem



## Oops! Wayward Trucker Gets Stuck Attempting Shortcut Through Wyoming's Big Horn Mountains

An 18-wheeler got jacked up on a scraggly dirt road high up in the national forest of the Big Horn Mountains in northern Wyoming. The trucker said he was following his GPS.



Jake Nichols

May 16, 2023 • 5 min read



Experts Towing handles a tricky extraction in Crazy Woman Canyon in this composite image showing the stuck truck from opposite angles. It wasn't the first, nor last. (Composite Photo Courtesy Experts Towing)



Photo credit: Kandis Fritz

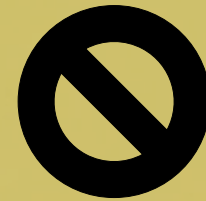
# The Problem



Unsuitable  
Alternate  
Routes



Increased  
Motorist  
Assists



Distraction  
From Normal  
Duties

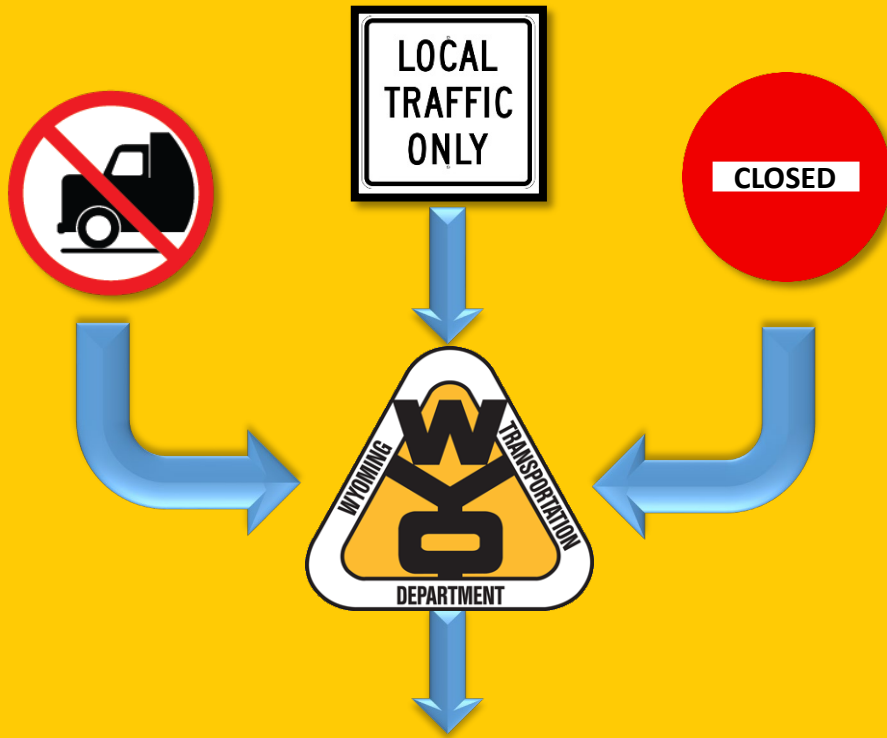


Safety of Life  
Issue



# The Solution

## Wyoming Counties



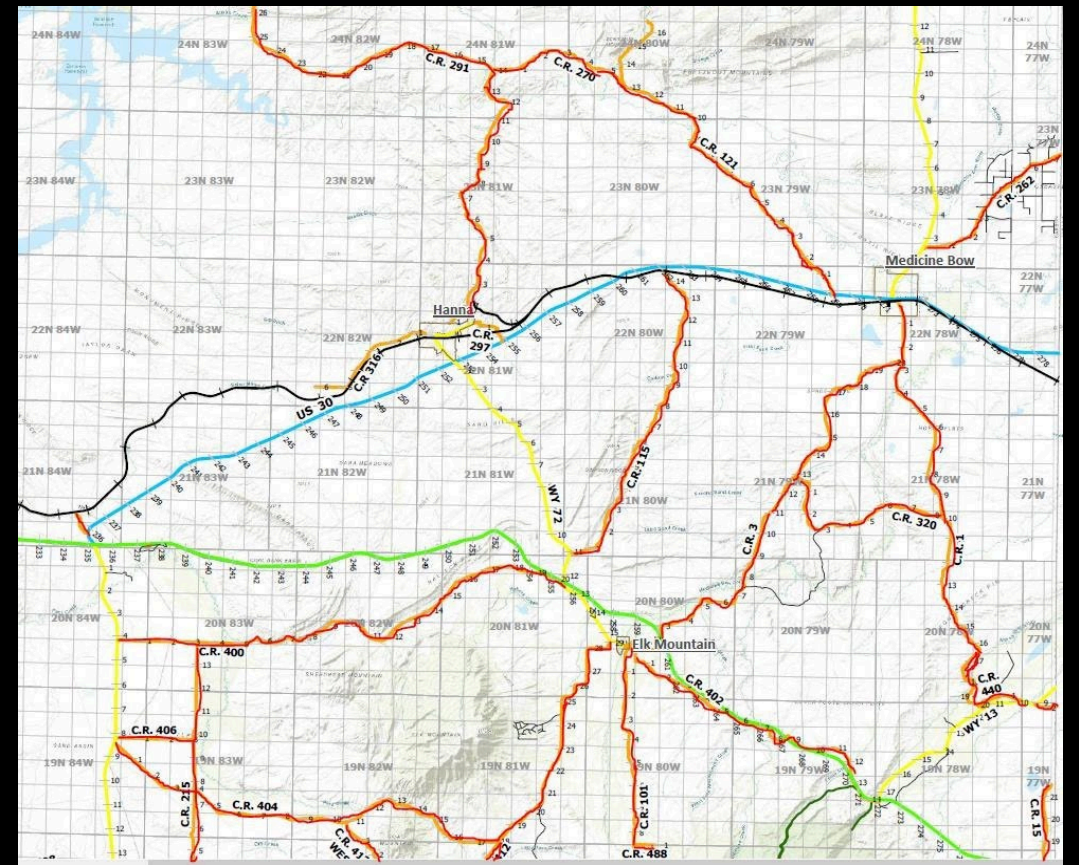
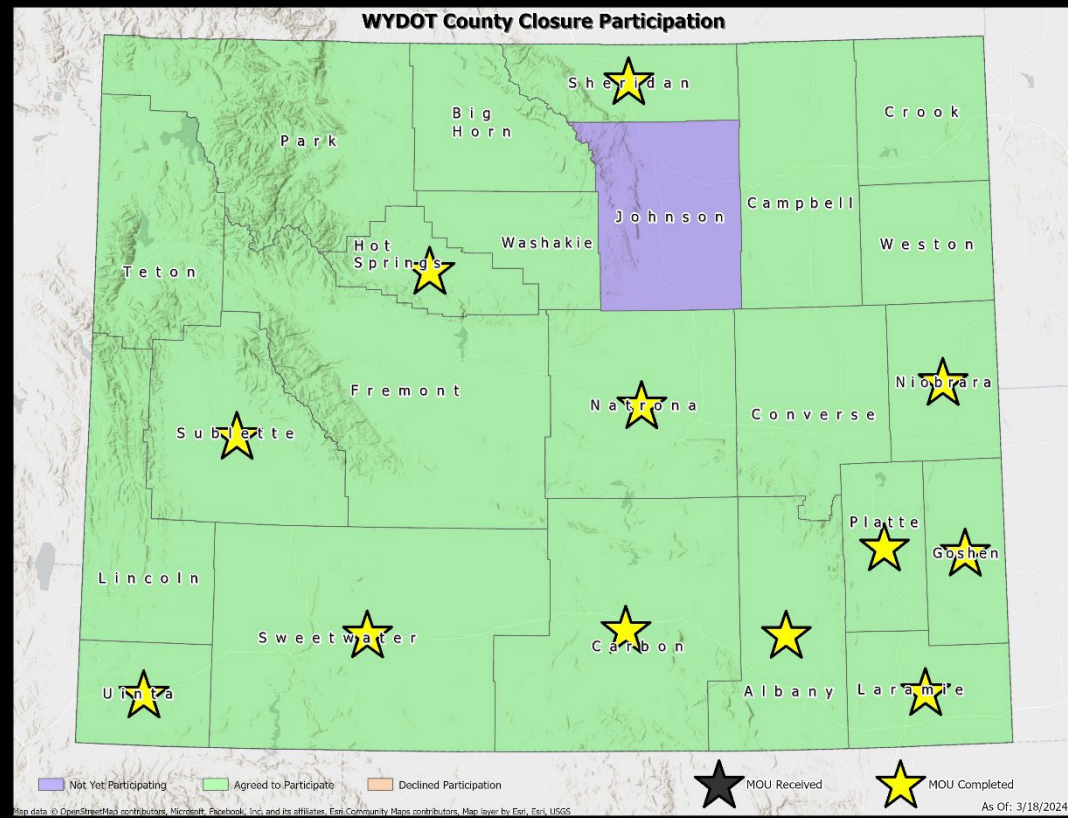
Centralized Data feed

**SDX**



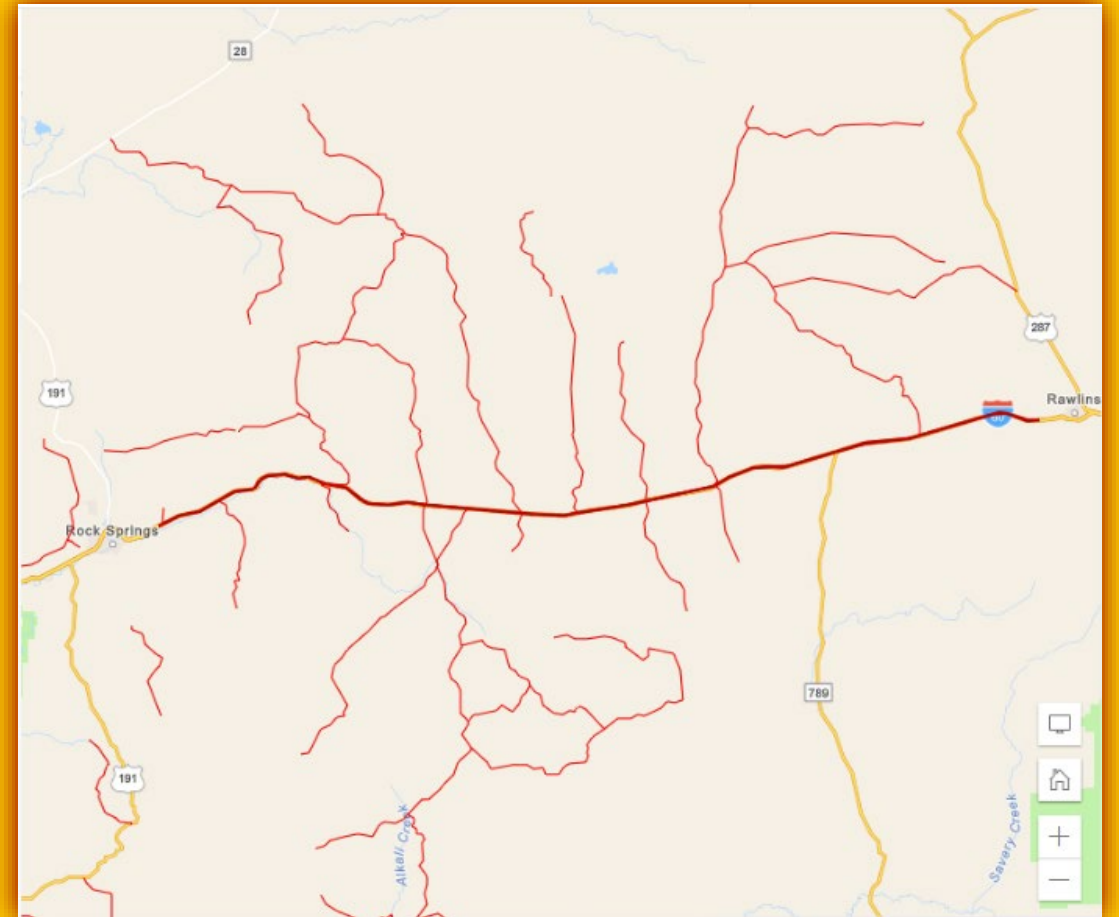
Photo credit: Kandis Fritz

# County Participation



# County Road Closure Example

- Sweetwater County Roads
  - When WYDOT closes I-80, report other county road closures





# Essential Information

## WYDOT

- Document County Expectations
- Document Road Customizations

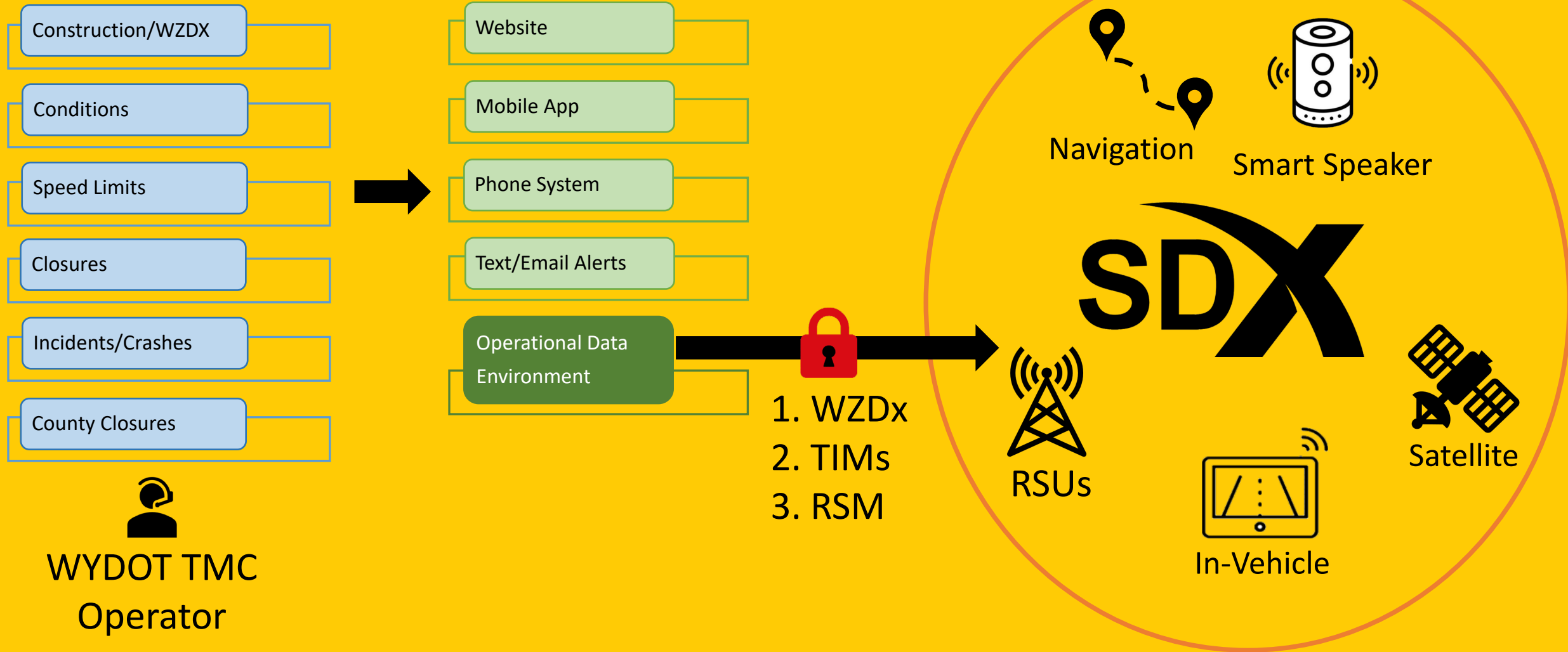
## Navigation Companies

- Limits of Closure – Line Work
- Begin/End Time of Closure
- Reason for Closure
- Who Road Is Closed To



# Situational Data Exchange (SDX)

## WYDOT Data Flow





# Situational Data Exchange (SDX)



## SDX Advantages

- Standard message formats (WZDx, TIM, RSM)
- Messages work for Connected Vehicles and any other use
- Trusted messages (SCMS)
- Nationwide one-stop shop for IOOs and 3rd Parties
- Emergency notifications for developing situations



# 3<sup>rd</sup> Party Navigation Companies

- Sirius XM
  - TIMs actively broadcast on the Sirius Satellite network
- Google
  - Google to incorporate into their navigation
- TomTom
- Apple
  - Beginning discussion
- Others





A background image showing a snowy mountain road winding through a valley. In the foreground, the hood and windshield of a car are visible, covered in snow and ice. The sky is overcast and grey.

# Questions

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- WYDOT  
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