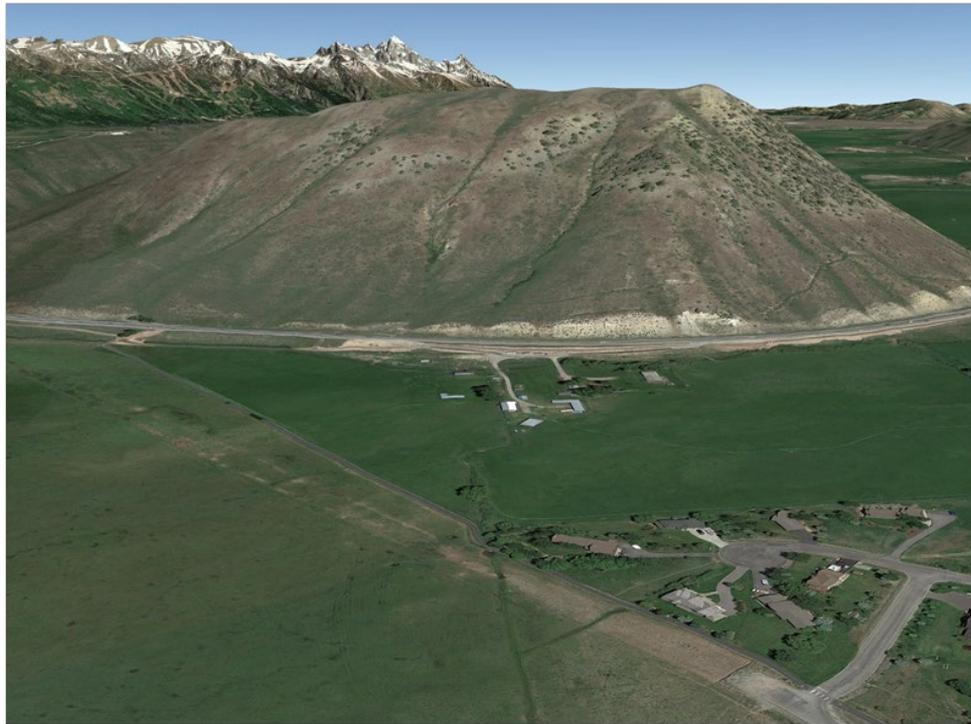




# Stakeholder Committee Meeting #6

November 15, 2019

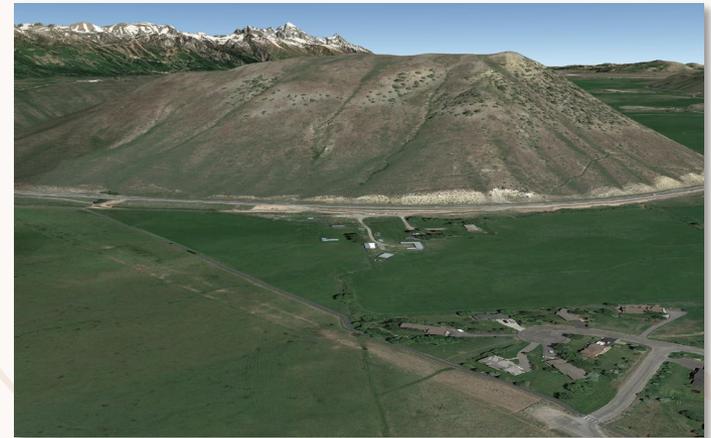


# Project Updates



## ■ No Action Alternative

- » Defined as including 'committed' or 'programmed' projects
- » WYDOT draft STIP update includes \$5.3M for WY 22 widening planning process
- » Updated No-Action Alternative definitions; now used in No-Action scenario for travel and traffic modelling.



# Project Updates: Purpose & Need



- Transportation improvements are required to address the following needs in the Study Area:
  - » provide travel redundancy
  - » reduce vehicle miles of travel (VMT) associated with circuitous routing of traffic
  - » reduce local trips through the Y intersection
  - » improve emergency response
  - » provide improved multi-modal connections.



# Project Updates



## ■ Purpose and Need

- » Jim Charlier—IPT Updates
- » Post Paradise Fire Study
  - Survey of 5000 communities in 11 states
  - Jackson –one of lowest evacuation scores (Paradise had one of the highest scoring evacuation plans)
- » Survey of EMS Providers

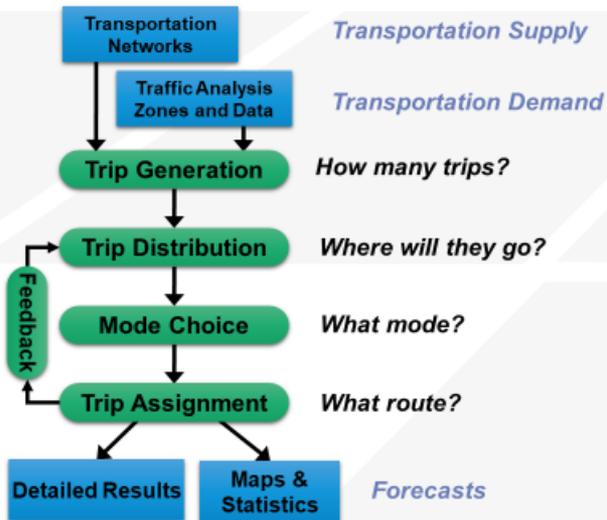
## ■ Proposed Change in Posted Speed

## ■ Pathways Update

# Travel Model



## The Four Steps



5 5

CAMBRIDGE SYSTEMATICS

## What is a Travel Demand Model?

- A **tool** to provide travel information that can aid in planning for transportation improvements
- A way of **organizing your assumptions**
- A program that can "predict" existing travel demand and forecast travel demand for future scenarios

Real world



Modeled World



4

CAMBRIDGE SYSTEMATICS

# You Asked!



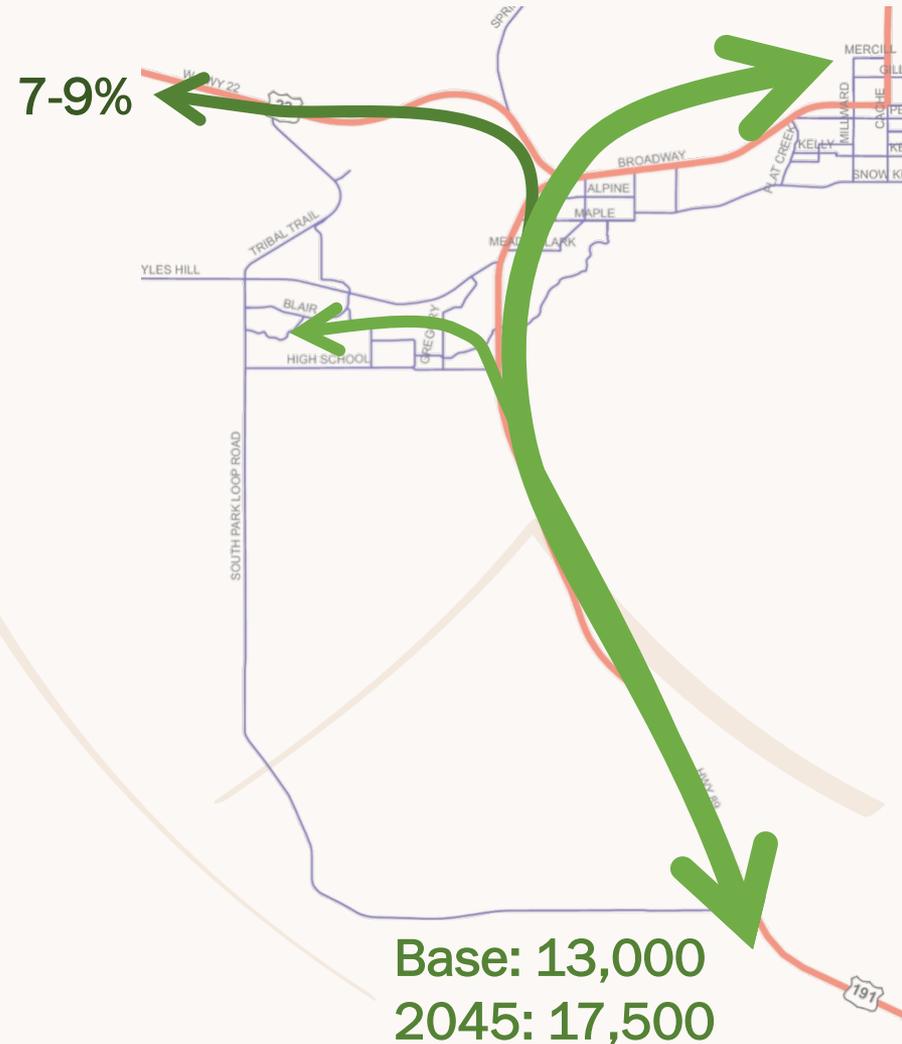
- Most of the traffic on Tribal Trail is local
  - » Does this make sense based on the data?
- Connecting Tribal Trail has only a small effect on South Park Loop traffic south of High School Road
  - » This raised concerns – so we investigated



# Looking at the Data



- Only 7 to 9% of traffic to/from south of the study area is headed west
- Travel model and LBS Data (cell phone data analysis) show consistent patterns
- Simulation confirms that users of Tribal Trail are local to the study area



# Evaluating VMT

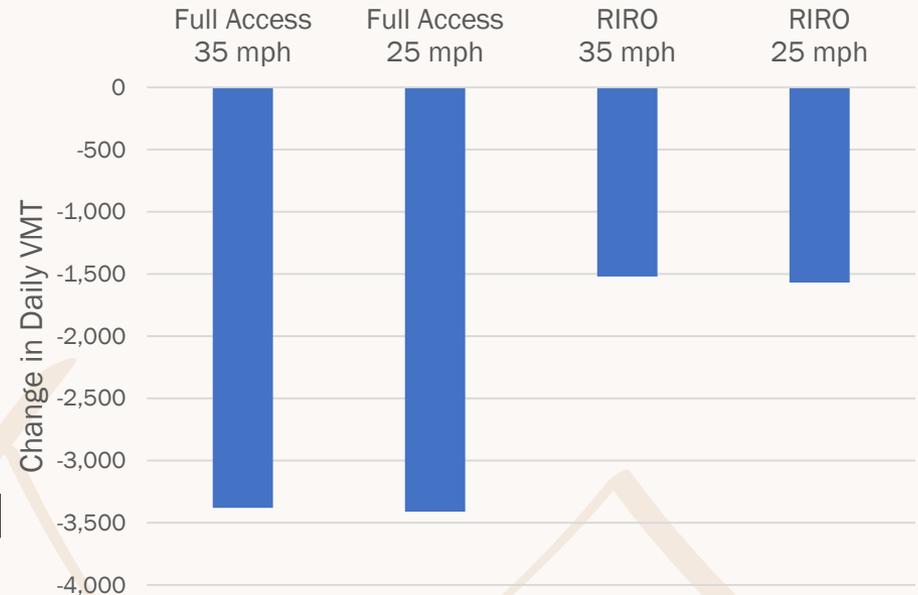


## ■ Purpose and Need

- » Reduce vehicle miles of travel (VMT) associated with circuitous routing of traffic

## ■ Analysis

- » VMT reductions with **fixed demand**
- » When including induced demand, VMT change is negligible

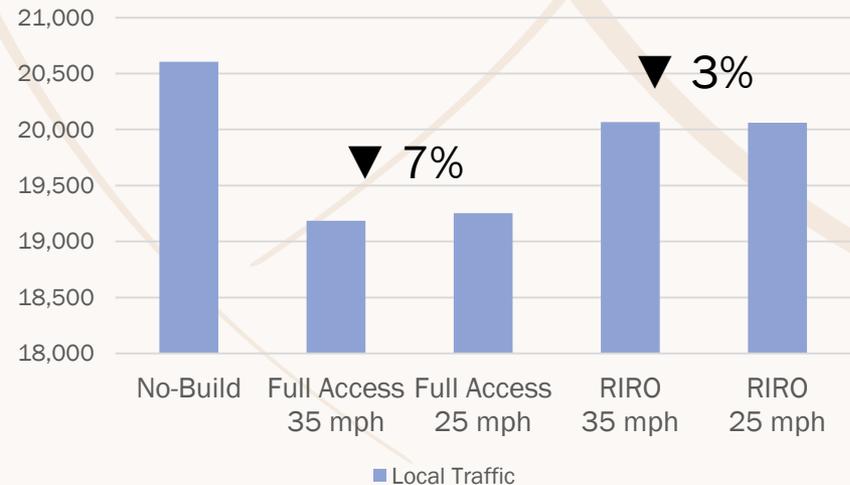
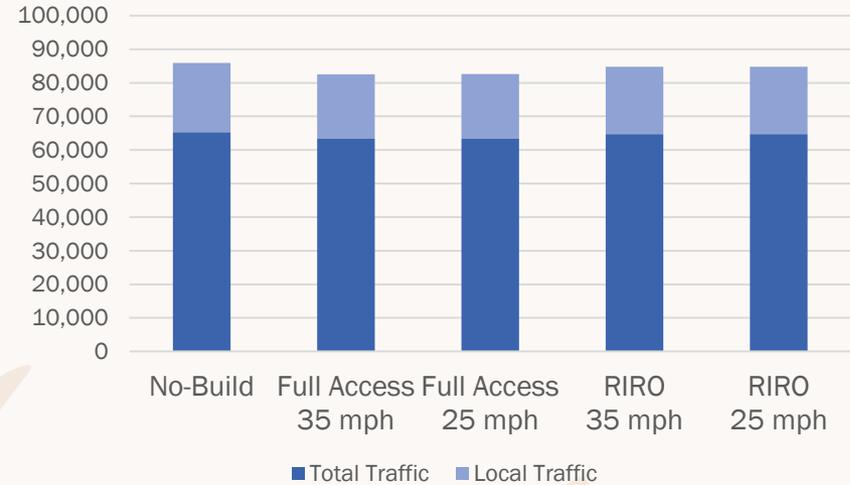


*VMT Reductions with fixed demand, 2045 model run*

# Traffic through the Y



- Purpose and Need
  - » Reduce local trips through the Y intersection
- Analysis
  - » Reduce **local** traffic through the Y by 3-7%



Traffic through the Y,  
2045 model run

# Emergency Response



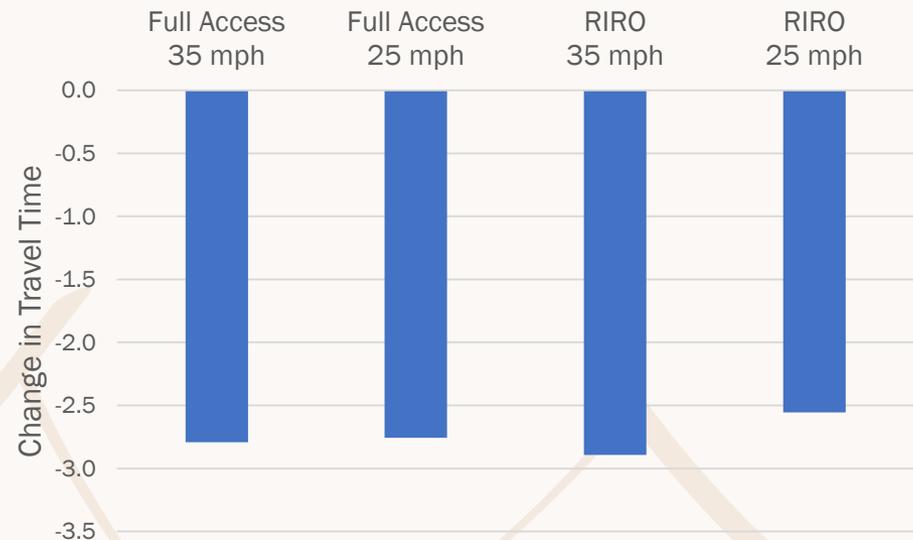
## ■ Purpose and Need

- » Improve emergency response

## ■ Analysis

- » Average travel time reduction to the study area from fire departments in **Wilson**
- » Minimal change in times from Jackson

*Context: the model doesn't have a "Fire Truck" mode, so these are auto travel time changes*



*Travel Time Reductions ,  
2045 model run*

# Simulating Congestion



- Consistency between simulation and demand model
- Stop-controlled ramp intersections operate at **LOS A and B**
- Four-way stop at Tribal Trail and Boyles Hill operates at **LOS A and B**
- Reductions in local traffic improve the northbound left turn at the Y

*The study team continues to review detailed results*

