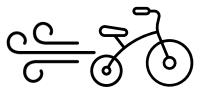




## Taking a Hard Look:

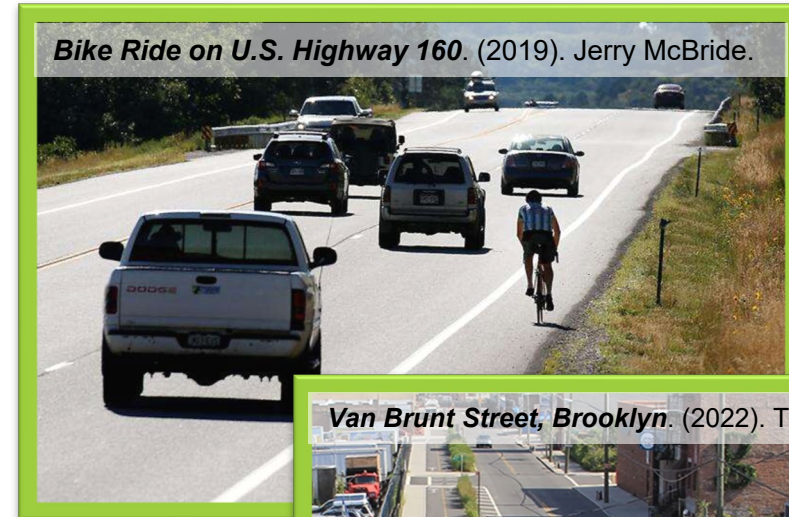


**Do active travel projects get a fair evaluation in long-range regional transportation planning in the United States?**

Emma Dreyer  
Dr. Greg Rowangould

# Active Travel and Modeling

- Models initially developed for congestion management
  - Active travel options are an afterthought
- This leaves us with some questions:
  - Is active travel considered as robustly as vehicular travel?
  - Are these models focusing on the right reasons people do or don't choose to use active travel?
  - Can these models create accurate estimates for active travel projects?



**If you can't fully represent active transportation impacts, you can't fully show potential GHG reduction effects**



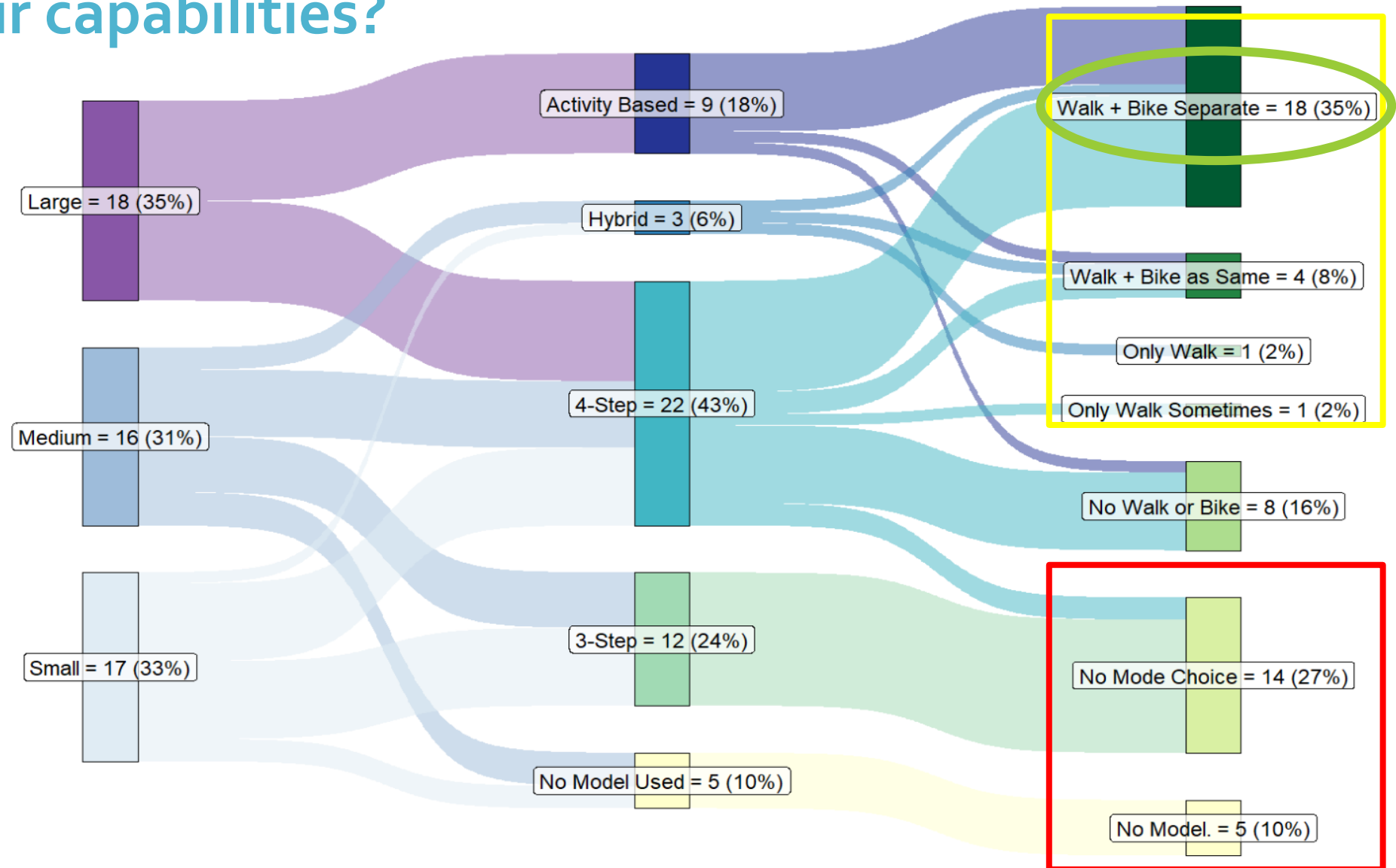


# Methodology

1. Review **Long-Range Regional Transportation Plans (LRTPs)** and **TDM** documentation for 60 MPOs
  - Model type
  - Active travel presence and factors in model
  - Vehicle Miles Traveled (VMT) and greenhouse gas (GHG) emissions metrics
2. Compare with active travel infrastructure presence
3. Analyze best practices and highlight faults

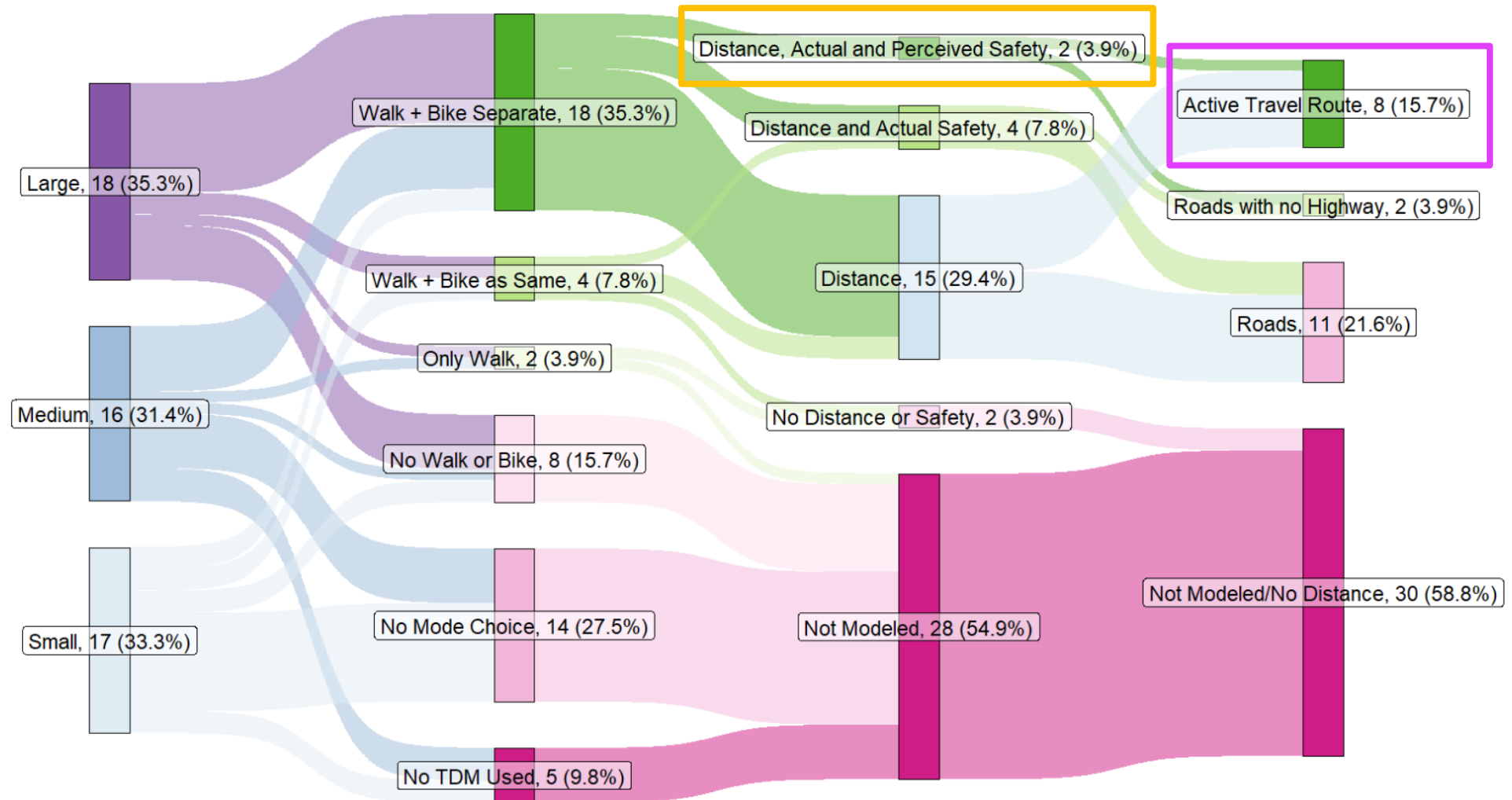
# What forecasting methods are used? What are their capabilities?

- **37%** of MPOs don't use a model or don't model different modes
- **47%** of MPOs model active travel modes
- **35%** of MPOs consider walking and biking as separate modes.



# What forecasting methods are used? What are their capabilities?

- **4%** consider all three “key factors”
- **15.7%** calculate distance using active travel infrastructure
- **Only 1 model that**
  1. separates walk/bike modes
  2. Considers distance on active travel routes
  3. Considers actual safety
  4. Considers perceived safety





# THANK YOU

## Questions?

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Dr. Greg Rowangould.

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