

**Overview of Survey:** The TRB Standing Committee on Traffic Simulation (ACP80) conducted a survey to better understand the current uses and common challenges of traffic simulation. The specific intent of the survey is to identify: (1) the primary uses of traffic simulation, (2) analyzed applications, and (3) corresponding user needs. The survey is anticipated to be conducted annually, such that (1), (2), and (3) can be tracked overtime and to identify recurring user needs.

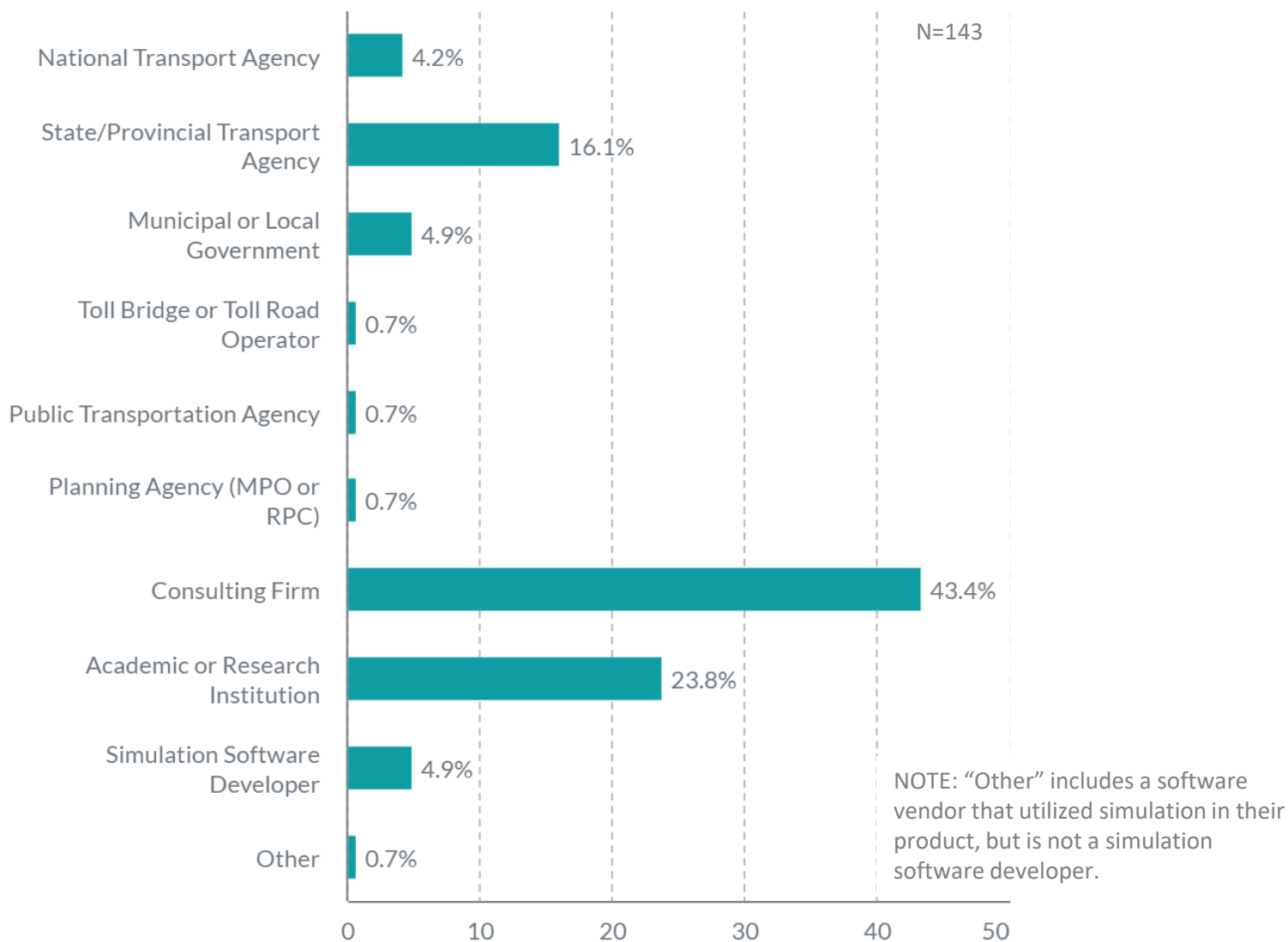
The survey was developed by SimSub's User Needs Task Group in January 2022. It was widely disseminated February thru May 2022 via the SimSub e-mail listserv, SimSub's TRB liaison committees, the ITE SimCap Committee, and the main traffic simulation vendors.

**Purpose of Document:** This document presents the results of each question posed in the survey. It accompanies the summary document (which more succinctly summarizes the main results).

**Contact:** If you have any questions or feedback RE the survey and this document, please contact the Co-Chairs of SimSub: Chris Melson ([cmelson1@lsu.edu](mailto:cmelson1@lsu.edu)) or John Shaw ([jwshaw@iastate.edu](mailto:jwshaw@iastate.edu)).

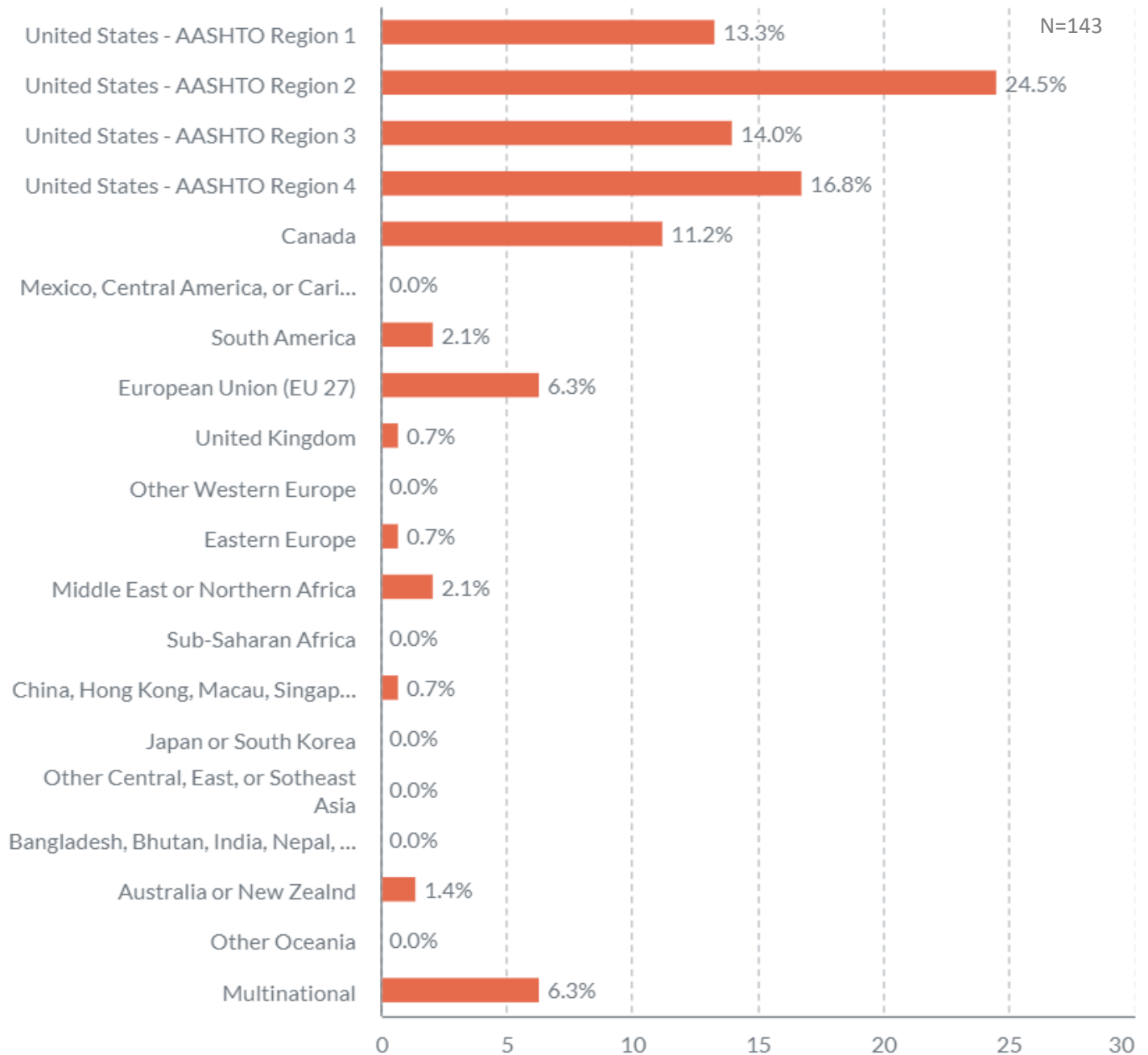
## Respondent Organizational Information

### Which best describes your organization?



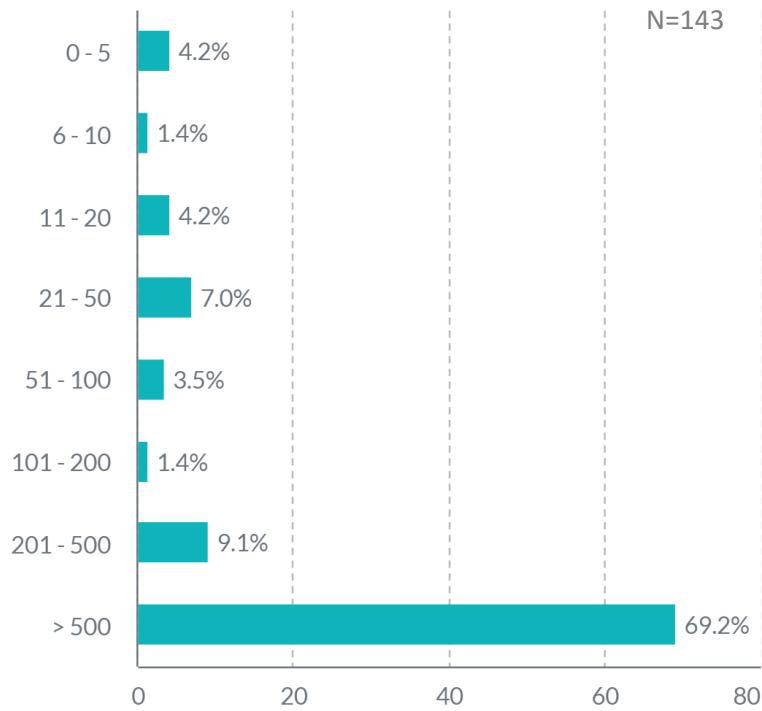
# Respondent Organizational Information

## Where is your organization located?



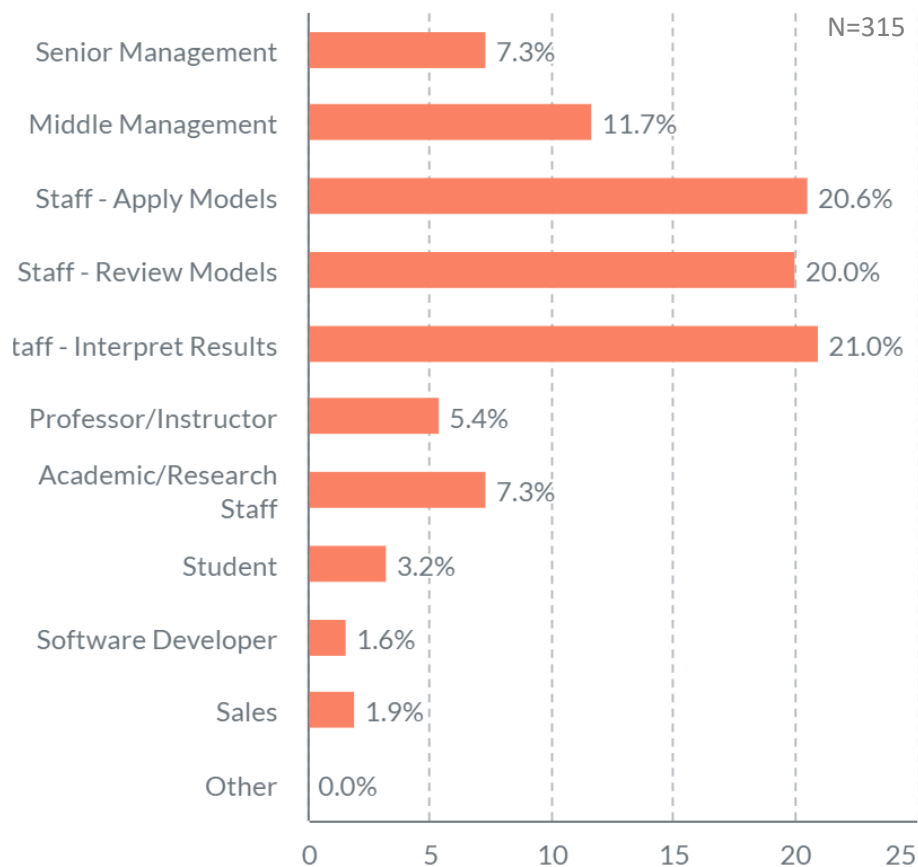
## Respondent Organizational Information

What is the size (# of employees) of your organization?



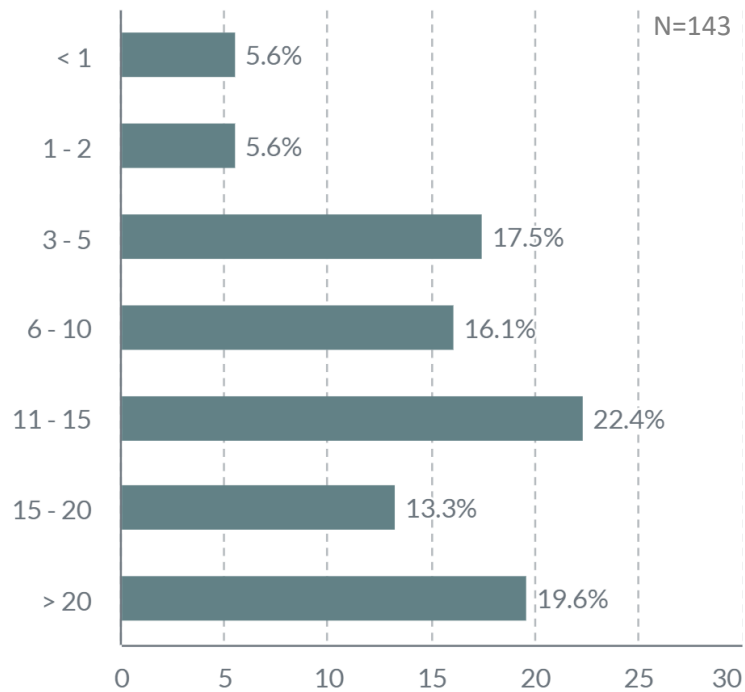
## Respondent Individual Information

Please describe your role(s) in the organization. [mark all that apply]

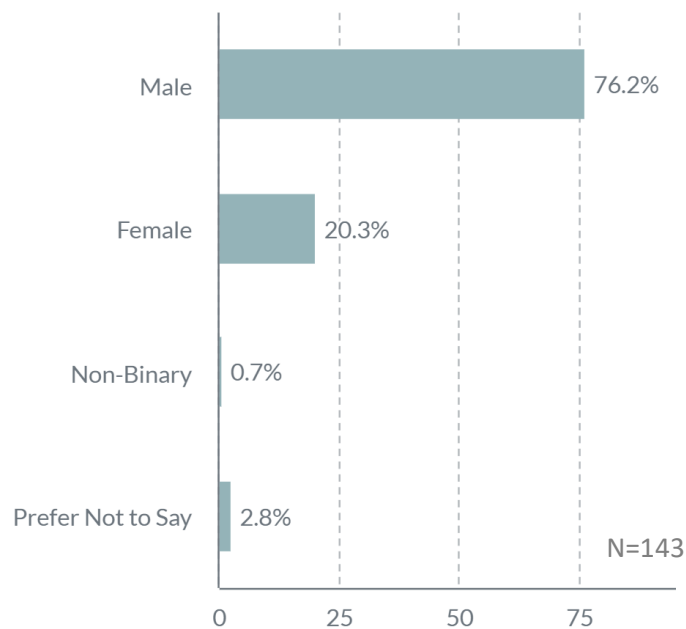


# Respondent Individual Information

How many years of simulation modeling experience do you have?

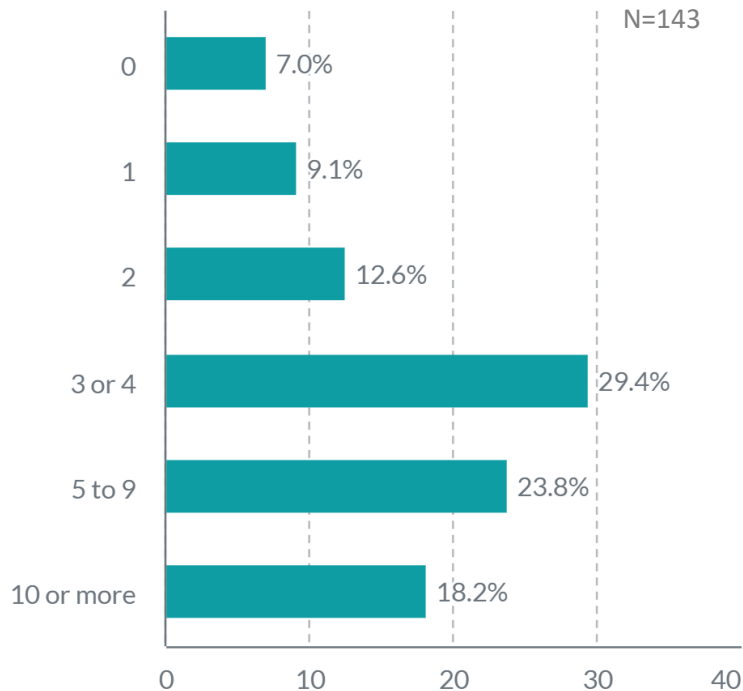


Which best describes your gender?

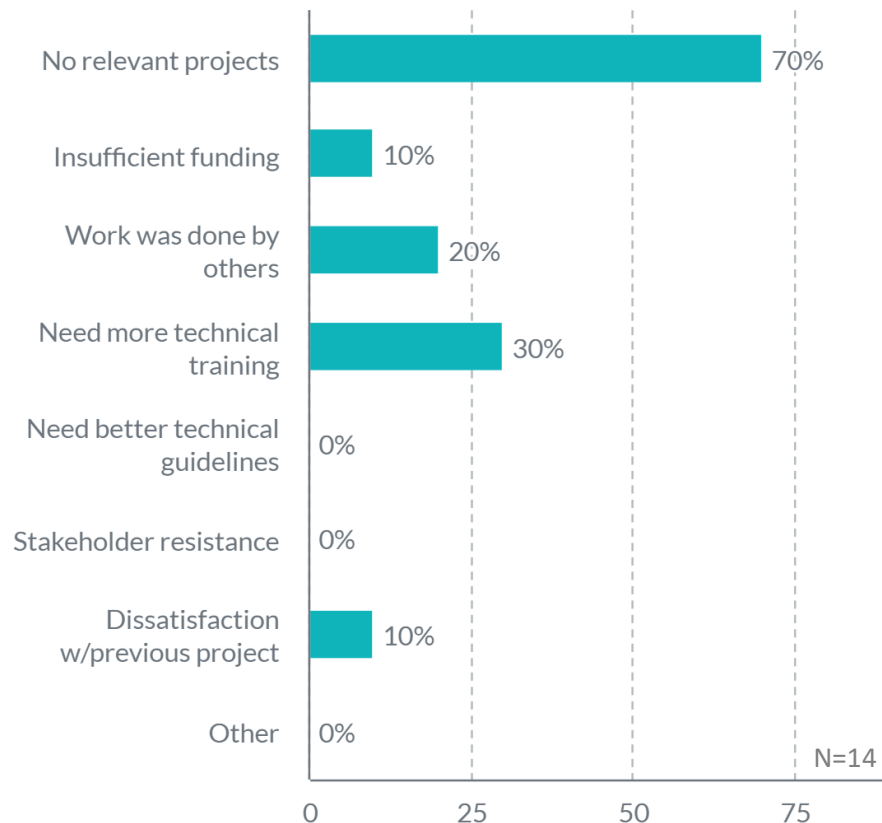


# Traffic Simulation Project Information

In the past year, how many traffic simulation projects have you worked on?

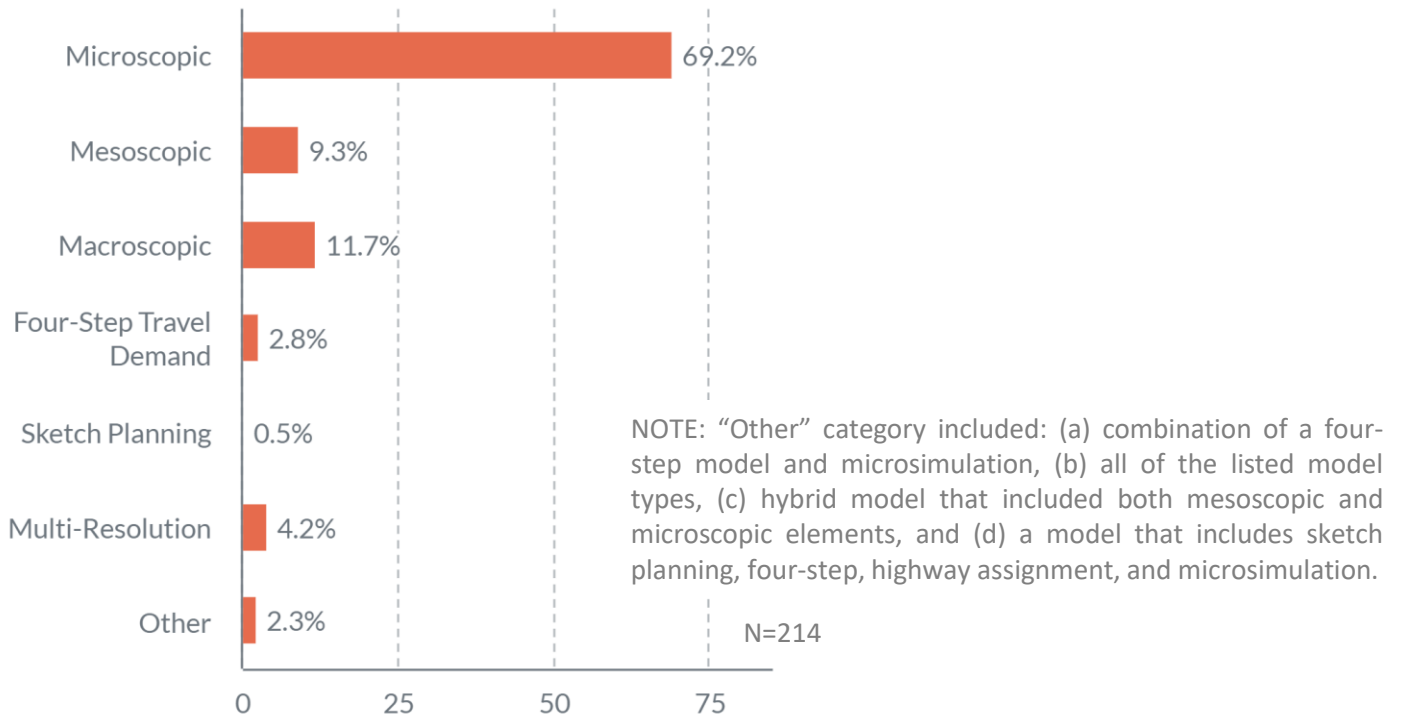


What were the main reasons you did not work on any simulation projects?  
[mark all that apply]

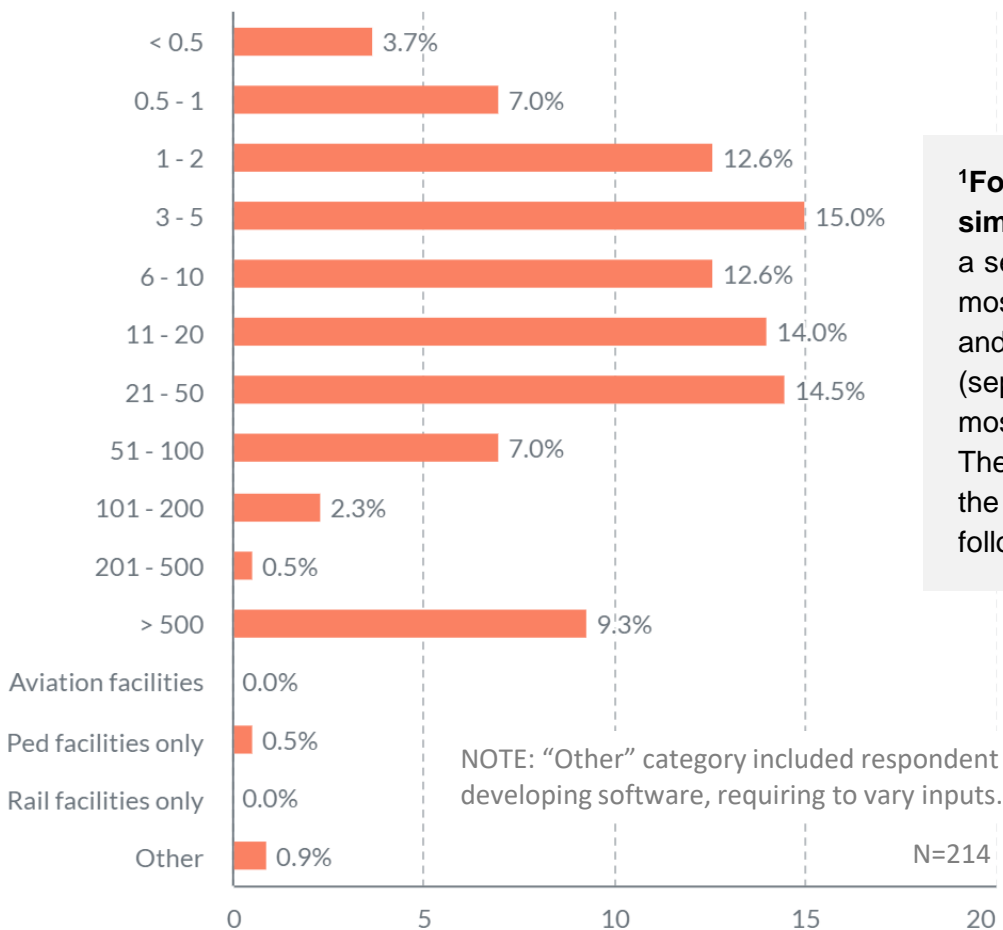


# Traffic Simulation Project Information

For the largest or most challenging simulation project<sup>1</sup>, what type of simulation was performed?



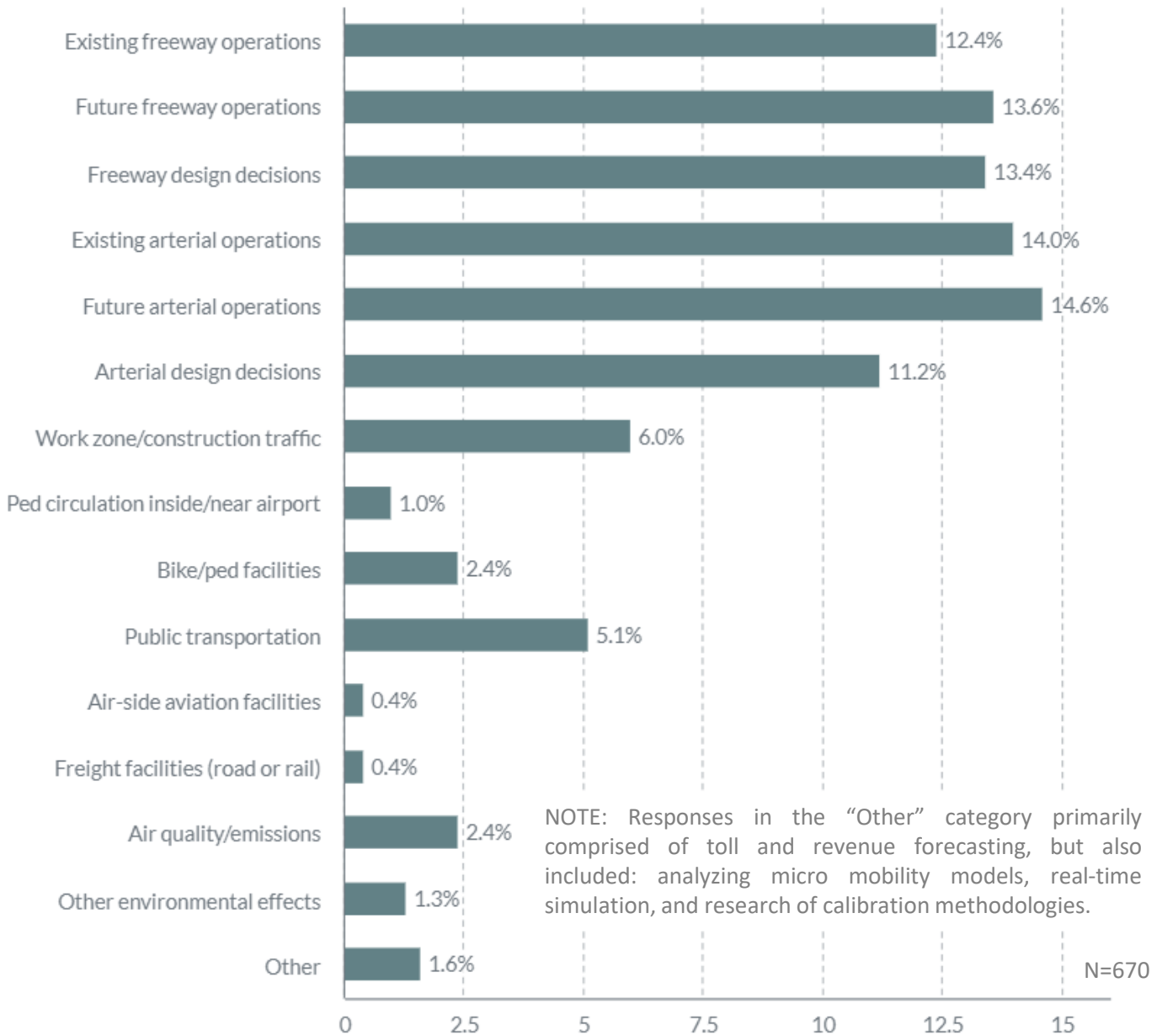
What was the approximate total centerline roadway distance (in miles) that was simulated?



**<sup>1</sup>For the largest or most challenging simulation project:** The survey asked a series of questions for the largest or most challenging simulation project – and then the same series of questions (separately) for the second largest or most challenging simulation project. These responses are combined – for the two current charts (and all following charts).

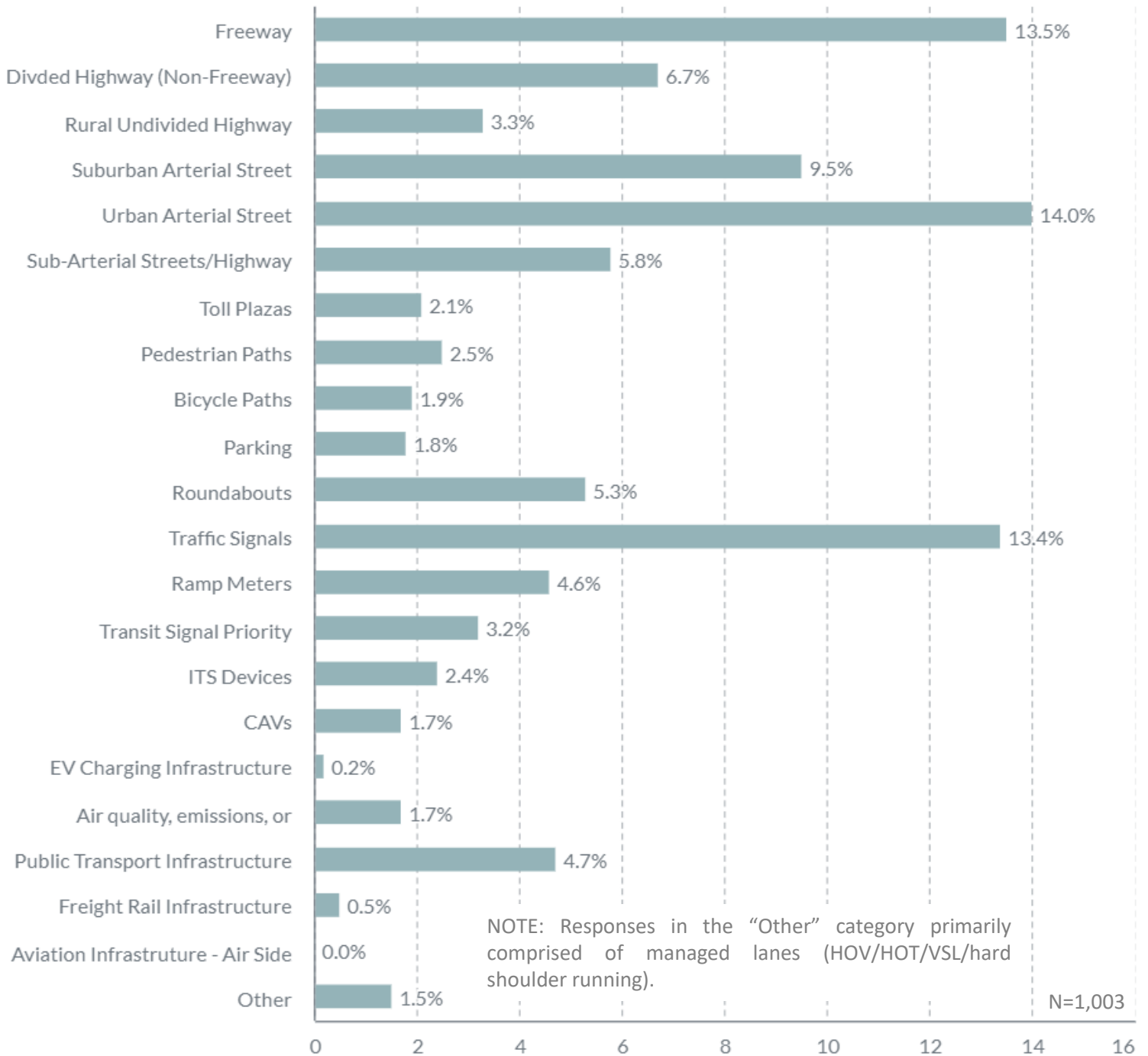
# Traffic Simulation Project Information

What were the main objectives of the study? [mark all that apply]



# Traffic Simulation Project Information

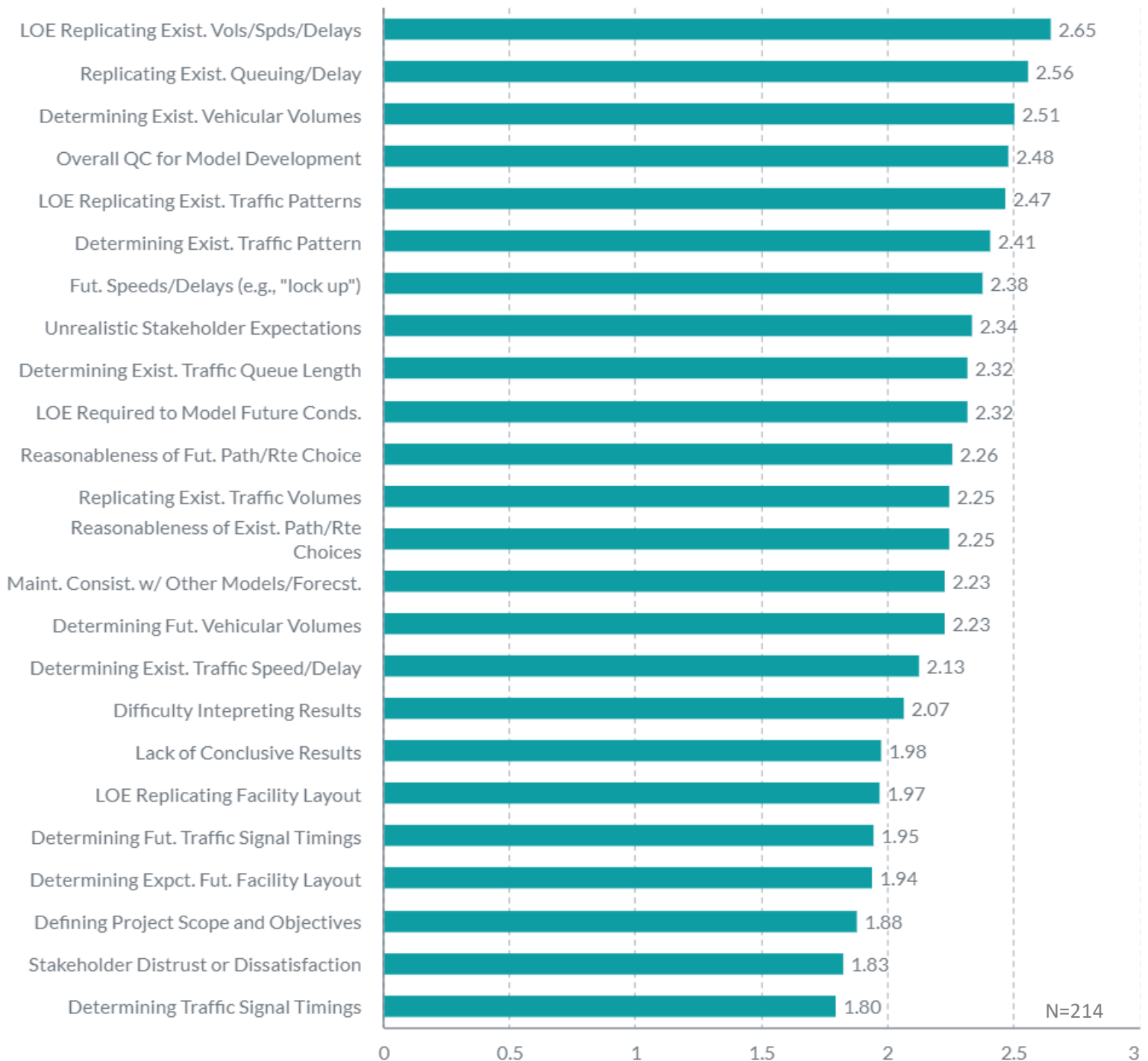
What features were included in the model? [mark all that apply]





# Traffic Simulation Project Information

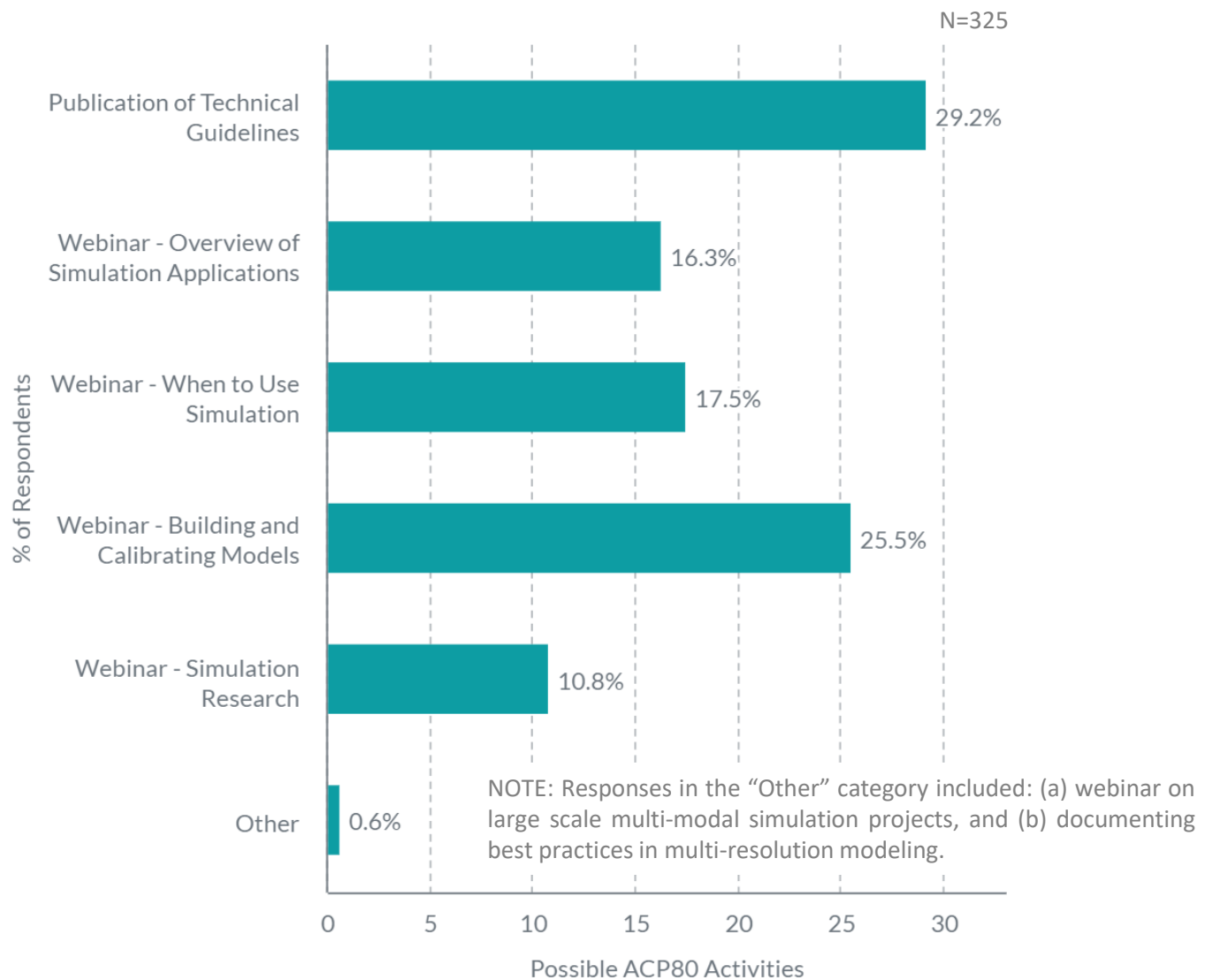
What difficulties were encountered during model development? [mark all that apply]



No problem					Extreme	
	Minor	Moderate	Serious	Severe		
0	1	2	3	4	5	

# Difficulties Encountered during Model Development

Which activities should the ACP80 committee emphasize over the next year?  
[choose up to 3]



**More Information:** If interested in more detailed results, please visit the website below [under the Task Groups/User Needs subsection]. It contains summary document, results of each survey question (this document), the survey data set, and the Excel spreadsheet used to conduct the analysis.

<https://simcap.eng.lsu.edu/simsub/>

