What is VISSIM?

- A modeling tool used to simulate multimodal traffic flow on a roadway network by considering each individual vehicle, bus, pedestrian, and bicycle
- It provides highly accurate and detailed simulation for all modes of transportation
- It is calibrated to the real-world conditions of the network in order to produce realistic results
- It produces graphics that show both the results and performance of a proposed improvement
- The outputs of the model help with decision-making

Why Use VISSIM for GRTC BRT?

- It offers multimodal simulation
- It models traffic signals, transit operations, and Transit Signal Priority
- It produces performance measures and visual illustrations of design concepts

Measures of Effectiveness (MOEs)

VISSIM produces MOEs including delay and speed. The MOEs for the GRTC BRT Project are travel time and average running speed. For traveling the 7.6 mile BRT corridor from the Willow Lawn Station to the Rocketts Landing Station, the VISSIM model results are:

**EASTBOUND**
Willow Lawn Station to Rocketts Landing Station

- **Total Travel Time:** 31.0 minutes
- **Average BRT Bus Speed:** 13.4 mph

**WESTBOUND**
Rocketts Landing Station to Willow Lawn Station

- **Total Travel Time:** 28.2 minutes
- **Average BRT Bus Speed:** 14.5 mph

**COMPARE TO CURRENT:**
- **GRTC Local Bus Travel Time:** 1 hour 3 minutes
- **Passenger Car Travel Time:** 33.7 minutes
- **Willow Lawn Station to Rocketts Landing Station:**
- **Rocketts Landing Station to Willow Lawn Station:**

Note: This speed includes BRT station stops, delay at signals, etc.