

How & why do we measure Travel Time Reliability?



Travel Time Index (TTI)



Time it takes to get somewhere
 —————
 How long it would take to get there if you could go the speed limit



Why use this measure? If roads have a lot of traffic, even a slight disturbance can cause: Excessive Delays, have a Greater Impact, and Take longer to Recover than in a non-congested area.

The Travel Time Index represents the additional time required to drive a certain route during rush hour (as opposed to when there is no traffic)

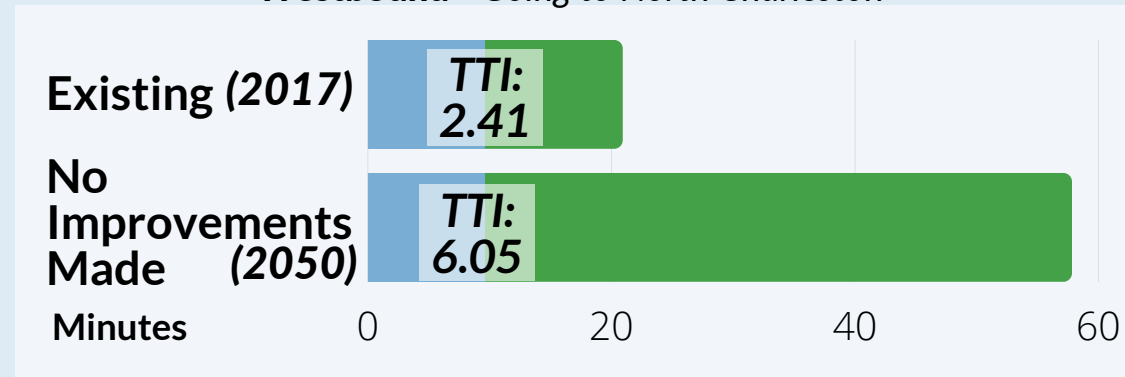
What would this tell me?

How long would it take to go from Virginia Avenue to US 17 in Mount Pleasant in 2050 when there is no traffic (blue) vs rush hour (green)

Eastbound - Going to Mount Pleasant



Westbound - Going to North Charleston



Middle of the Night



Rush Hour

These graphs explain the Travel Time Index. Blue represents how long it would take to drive the corridor if there were no traffic, like in the middle of the night (2050). Green represents the additional time it would take to travel the corridor during rush hour. **The green bars are substantially longer under the no improvement scenario - meaning it would take that much longer to drive the corridor during rush hour in 2050 if no improvements are made.**

What does this mean?

If no improvements were made, travel times are expected to increase by **193%** traveling Eastbound and **104%** traveling Westbound in 2050.

What else could be done to reduce these times?

Learn more about Transportation Systems Management & Operations in the next stations.