

FAST, ACCURATE

Data for Sustainable Transportation Projects

There is an ongoing shift in the transportation industry to improve transportation and environmental outcomes of planning initiatives. The industry is at an impasse; advancements in the transportation network support population growth, but they have also lead to urban sprawl, increasing congestion, negative impacts to bike and pedestrian usage, and increasing air quality (AQ) and greenhouse gas (GHG) emissions.

Kimley-Horn developed TREDLite VMT, an innovative software solution that automates Vehicle Miles Traveled (VMT) calculations to allow agencies to aggregate data to address transportation and environmental-related impacts before they occur.



What is VMT?

VMT is a metric that measures the number of vehicles on the road and how far each vehicle travels. Each additional VMT directly translates into an increase in tons of Greenhouse Gas (GHG) emitted, energy consumed, and increased traffic congestion. Calculating VMT quantifies the impact that motorists have on the environment, allowing agencies to make environmentally conscious transportation network decisions and to improve local air quality and community health. ***In parts of the country, VMT is replacing Level of Service (LOS) as the DOT's measure of transportation and environmental impact.***

Level of Service (LOS)

LOS measures traffic delay or congestion in a specific location. The lower the traffic levels and the greater the transportation infrastructure, the better the LOS.

Improving LOS does not necessarily reduce carbon emissions.

Vehicle Miles Traveled (VMT)

VMT measures the number of vehicles on the road and how far each vehicle travels. The lower the number of vehicles on the road and the number of miles driven, the lower the VMT.

Reducing VMT often reduces carbon emissions.

