ABSTRCT

"MODELING TRAFFIC LIGHT AT THE INTERSECTION OF JL. BUKIT CINERE RAYA USING PTV VISSIM SOFTWARE (STUDENT VERSION)"

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This research aims to model the traffic light control at the intersection of Jl. Bukit Cinere Raya using PTV Vissim software (student version). The Webster method is used to estimate the optimal traffic light cycle time based on traffic volume and desired waiting time. PTV Vissim is a traffic simulation software used to analyze and visualize traffic behavior at intersections. By utilizing the Webster method and PTV Vissim, this study aims to optimize the traffic light control at the intersection of Jl. Bukit Cinere Raya, with the hope of improving traffic flow speed and reducing waiting time for road users. The results of this research indicate the need for traffic management and engineering through road widening to make the traffic light modeling using Vissim software at this intersection more effective. It is expected that this modeling can also provide valuable insights for decision-makers in planning and developing more efficient road infrastructure.

Keywords: Modeling, Traffic Light, Webster Method, Ptv Vissim