



Smart JAMP(2021) Pre-Feasibility Study for updating Smart Traffic System And effective utilization of Traffic Data in Davao

Target Area	<ul style="list-style-type: none"> Davao City, Davao, The Philippines
Background and Purpose	<ul style="list-style-type: none"> Davao City's Smart Traffic System (STS), which was introduced to reduce road traffic congestion, requires updating as it has become operationally inefficient due to increase of traffic volume and aging equipment. The purpose is to propose a new system that overcomes the operational and maintenance challenges of the current STS based on review of the current system.
Related Organization	<ul style="list-style-type: none"> Davao City Planning and Development Office, City Information Technology Center, City Transport and Traffic Management Office, Public Safety and Security Command Center, HPBS Project Unit
Project Stage	<ul style="list-style-type: none"> Pre-feasibility Study
Contents and Results	<ol style="list-style-type: none"> <u>Analysis of the traffic control system to be introduced</u> <ul style="list-style-type: none"> Based on the review and problem identification of the current STS, the traffic control system such as centralized system and automatic traffic signal control system was analyzed. <u>Proposal and comparative analysis of alternatives</u> <ul style="list-style-type: none"> Three alternatives were proposed as automatic traffic signal control systems, which were compared and evaluated in terms of operational effectiveness, integration with HPBS, maintenance, and project cost. And "renewal/enhancement of the current route control system" was selected as the optimal proposal. <u>Preliminary design of automatic traffic signal system</u> <ul style="list-style-type: none"> Hardware and software studies were conducted. <u>Proposal of traffic data platform</u> <ul style="list-style-type: none"> Development concept and specific information content for the new CTTMO traffic control center as a platform for traffic data collection/utilization were proposed.

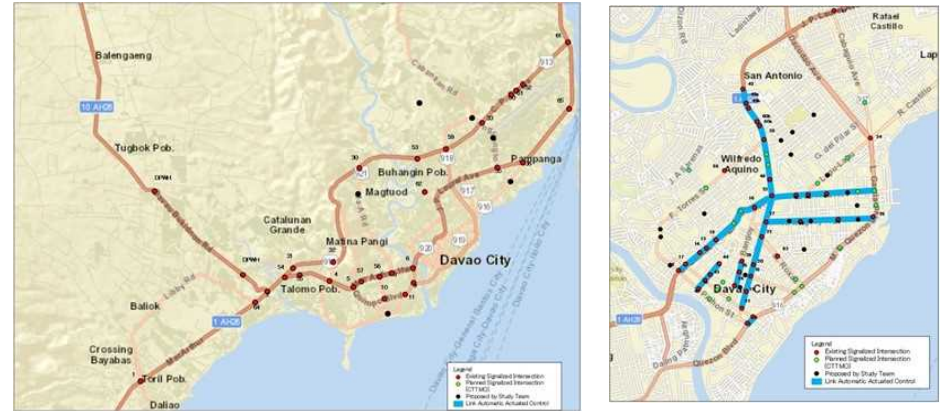


Figure 1: Targeted Planning Areas and Controlled Intersections

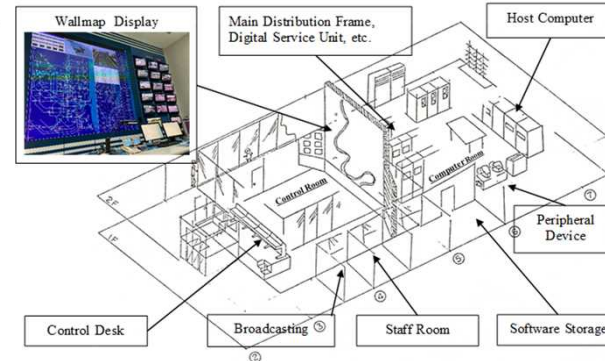


Figure 2: Image and Layout of the Traffic Control Center

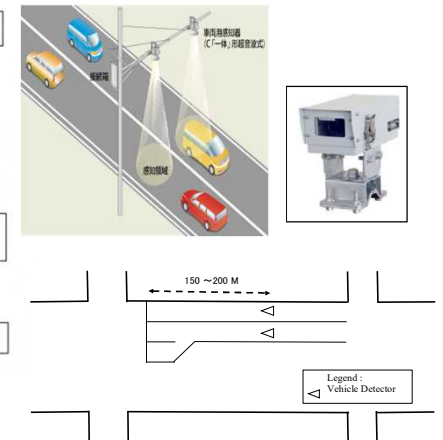


Figure 3: Data Collection System