

Smart transportation system and solutions applied in Thai Nguyen city.

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Abstract: This topic aims to research and deploy an Intelligent Transportation System (ITS) for Thai Nguyen City, Vietnam. In the face of increasingly severe traffic congestion, ITS is considered an optimal solution to enhance road usage efficiency and reduce accidents. By analyzing the current traffic situation of Thai Nguyen City, the topic identifies the goal of building an intelligent traffic management and control system based on IoT and AI technology. The research method combines theory and experimentation to ensure the system's feasibility in practical applications. Expected results will bring significant benefits in safety, travel time, and environmental pollution reduction, while contributing to the sustainable development of the transportation industry.

Keywords: Smart transportation system, IoT (Internet of Things), AI (Artificial Intelligence), Traffic congestion, Thai Nguyen City