After-Disaster Study on the Early Restoration of Traffic Signal Facilities (With a Specific Focus on Learning from the Great East Japan Earthquake)

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The research objective is to propose specific methodologies for the early restoration of traffic signal facilities as a public infrastructure after a disaster. This involved conducting a survey through interviews targeting three type of prefectures: affected by the Great East Japan Earthquake, those without such disaster experiences, and prefectural police anticipating responses to potential earthquakes such as the Nankai Trough earthquake.

The study aimed to understand the actual state of traffic signal facility restoration shared among these regions. This understanding was derived from an investigation into construction procurement specifications, which revealed both systemic and technical challenges associated with the restoration process.

In response to these challenges, three strategies were proposed as solutions: the promotion of information sharing related to traffic signals, the establishment of pre-disaster agreements to support actions during disaster occurrences, and the recommendation of support from emergency disaster relief dispatch teams originating from other prefectures.