CASE STUDY

Implementation of GIS-Based City Surveillance and Intelligent Traffic Management System

Client

The client is the home department of an Indian state. The project scope included installing CCTV-based City Surveillance and Intelligent Traffic Management System (CSITMS) in major cities of the state. For the installation of the CSITMS, 167 traffic junctions and 128 strategic locations were chosen. The installation enabled round-the-clock surveillance and real-time recording for quick response in all emergencies, including security and traffic.

Challenges

- The O&M team was required to keep the installed IP camera assets in working condition 24/7 and respond to the incidents.

- O&M activities using manual/physical methods caused redundancies and severe delays in the resolution.

- A spatially enabled, reliable, and configurable solution was required throughout the O&M phase to handle preventive maintenance and incident management to adhere to >99.5% SLA compliance.

LTIMindtree Solution

- Integration with NMS and VMS systems to display the operational status of assets on maps

- Field mobile GIS application with Geotagging and Geofencing capabilities

- Navigation with optimized short route with ETA components

- Offline and background track of field engineers

- Before and after Inspection Modules

- Travel logs of the field crew team

- Set maintenance frequency

Business Benefits

Achieved 99.50% up-time of assets to maintain SLA and reduce penalty.	Ensured the fullest integrity of field teams in maintenance activities with live location updates, geotagged photos, etc.	Created a centralized digital record of asset details, location, operational status, fault information, and maintenance records.	Saved 1/3rd of process and resource costs with synced office and field operations, avoiding any redundancy and delays.	Set up a dynamic portal with fast onboarding of assets, crew members, etc.

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