

GIS and ICCC Solutions

Can Your Community Actually Become Smarter?

There comes a time when community leaders struggle to make their community more efficient and smarter. Forward-thinking organizations institute policies and procedures that enable them to make data-driven decisions, maintain constant awareness of community activities, and stay connected with all of their constituents.

Effective smart communities do so by applying a hub approach that connects people with the information and technology to drive improved quality of life, innovation, and better choices. Get the most out of your location technology investment by exploiting a combination of Internet of Things (IoT) devices, big data, inclusive apps, and community feedback to gain previously unimagined insight.

Use the power of location intelligence to strengthen the core objectives of an optimized smart community. With the right process, people, and technology, any community can become smarter. From the smallest towns to entire nations, location technology helps organizations share information to drive initiatives and improve services.

Integrated Command Control Center (ICCC) is a next generation solution, which will establish an intensive framework where input from different functional departments such as transport, water, fire, police, meteorology, e-governance, etc., can be integrated and investigated on a single platform, resulting in aggregated city-level information. This aggregated city-level information can be converted into actionable intelligence, which can be propagated to relevant stakeholders and citizens.

Following are the intangibles that should be addressed by this intervention:

The 24x7 Control Center will act as the centralized hub of integration for various components envisaged under the Smart City.

- Smart City Solutions
- Enhanced safety and security.
- Better management of utilities and quantification of services.
- Disaster Management and Emergency Response System.
- Efficient municipal administration.

The ICCS Solution is integrated with following modules:

- City Surveillance
- SCADA for Water, Sewerage and Power
- Smart Parking
- Emergency Services Helpline
- Ambulance Management System
- Fire Department
- Police Department
- Disaster Management System
- Intelligent Traffic Management System
- Integrated Public Transport System
- E-Governance
- Public Addressing System
- Video Management & Video Analytics
- Intelligent Traffic Management System

Intelligent Traffic Management System (ITMS) is intended to achieve traffic efficiency by minimizing traffic problems and seeks to help enforce traffic rules for the safety of citizens by using adaptive traffic control systems. It acts as an accurate decision support system for traffic planners and traffic law enforcement agencies.

The system is integrated with Command Control Center and Video Analytics solution in an integrated, uniform system architecture, so that the video surveillance and traffic monitoring services complement each other, thus addressing field issues with a holistic approach.

The ITMS Platform is integrated with following modules:

- Command and Control Center
- Adaptive Traffic Control System (ATCS)
- Smart Traffic Sensors for Traffic management
- Automatic Number Plate Recognition System
- Red Light Violation Detection (RLVD) System
- Speed Violation Detection (SVD) System

- Traffic Violation Cameras
- Traffic e-Challan System
- Variable Message Signboards
- Video Management System
- Video Analytics
- IITS

Building intelligence into the transport system brings about the convergence of technologies, providing a synergetic transformation in the commuter experience. Integrated Intelligent Transport System (IITS) provides benefits in terms of reduced waiting time and uncertainty, increased accessibility of the system, increased safety of users, reduced fuel consumption and emissions, reduced operational costs, improved traffic efficiency, reduced traffic congestion, improved environmental quality and energy efficiency, and improved economic productivity.

The IITS Platform is integrated with the following core modules:

- Automatic Fare Collection System
- Online Passenger Reservation System
- ETIM based e-Ticketing
- Smart Card based e-Ticketing/Bus Pass System
- Vehicle Tracking System
- Real Time Passenger Information System
- Scheduling and Rostering
- Transit Management System
- Fleet Management System
- CCTV Surveillance
- Command and Control Center
- Help Desk Support

Connect with Techspire Services for a wealth of resources that elevate the essential characteristics of progressive, smart communities.