

# SMART CITY INFRASTRUCTURE

A System Integrator's Solution  
for a Solid Foundation



**IET SYSTEMS**

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**ietsystems.com | 800.984.8054**

# SMART CITY



## 1. Public Services

- Citizen Services
- Tourist Services
- Public Transportation
- Information Services

## 2. Transportation

- Smart Roads
- Connected Vehicles
- Smart Parking
- Smart Traffic

## 3. Public Safety

- Smart Lighting
- Environment
- Asset Tracking
- Video Surveillance

## 4. Sustainability

- Environmental Monitoring
- Smart Energy
- Smart Metering
- Smart Water

## 5. Integrated Smart Functions

- Smart Care
- Smart Education
- Smart Governance
- Smart Planning

## 6. Infrastructure

- Smart Infrastructure
- Smart Buildings
- Smart Irrigation
- Smart Roads

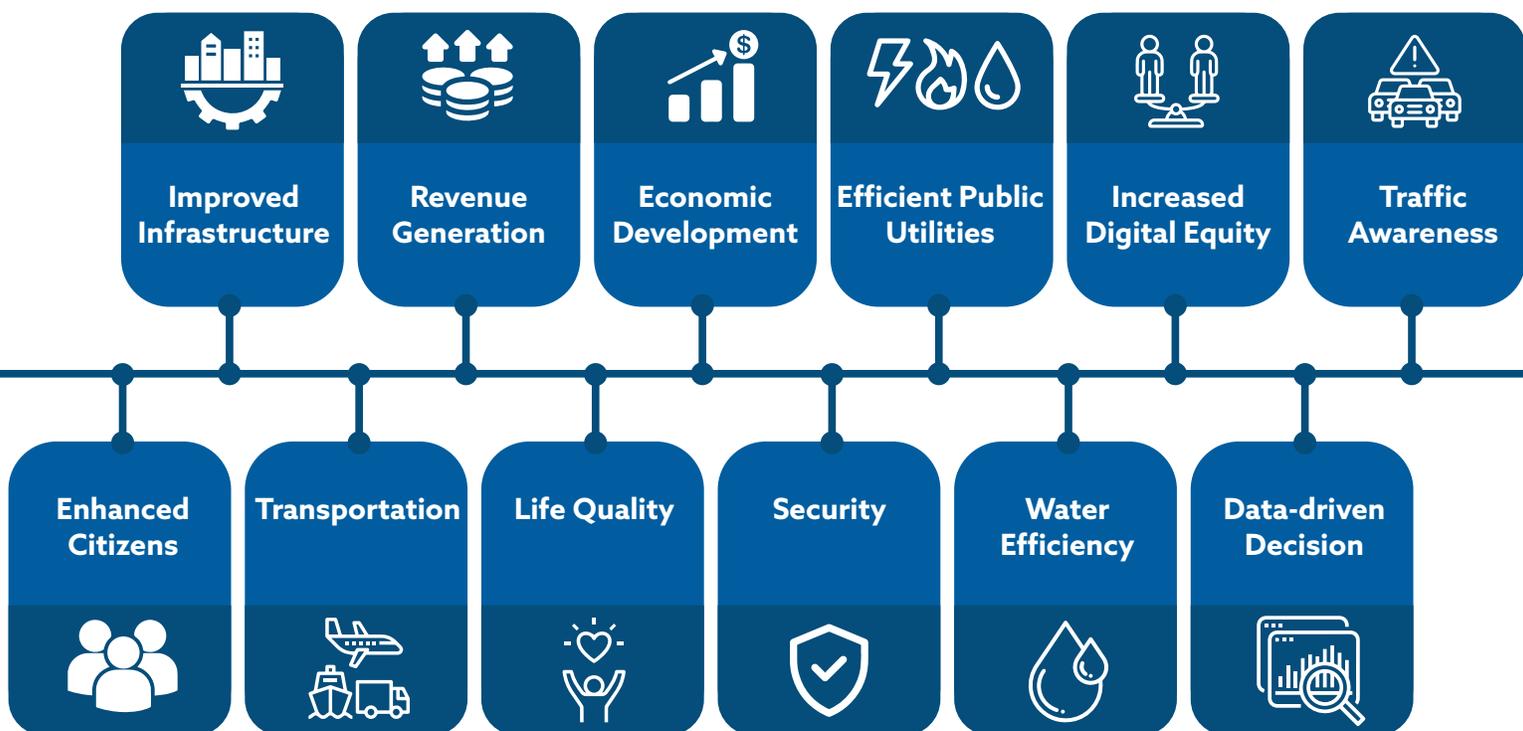
# Setting you up for Success

When considering developing a Smart City it is important to have a solid foundation. A solid foundation includes plans to install critical infrastructure, to ensure critical facilities are protected, to design for strategic placement of sensors and surveillance camera networks, and for a robust bandwidth that will support advanced communications systems integration and future growth.



IET Systems is a systems integrator that has proven experience in all technologies required to set up a successful Smart City. We handle all aspects of the project including both the construction and electronic elements required to integrate components into a single, cohesive system that runs smoothly and efficiently.

IET Systems is uniquely qualified to design, install, and maintain all types of security and warning systems including crash-rated perimeter security, access control, security surveillance, and mass notification systems. We are also experts in communication infrastructure including network and fiber optic cabling and the latest industrial-grade wireless solutions. This knowledge and experience positions IET Systems as the provider of choice to design, engineer, install, and maintain a successful Smart City.



# Installing Critical Infrastructure

Installing critical infrastructure should be the first step when forming a solid foundation. IET Systems has vast experience installing critical infrastructure technology. From microwave radio ring tower networks that connect communication systems to a main headquarter, mass notification systems complete with alerts and sirens, to aerial or underground fiber networks, IET Systems can design and install the customized solution required.



## Protecting Critical Facilities

### Critical Facilities Include:

- Airports
- Public Transits
- Energy Substations
- Utility Facilities
- Data Centers
- Shipping Ports
- Healthcare Facilities
- Government facilities
- Education Institutions
- Sport Arenas

### Our Experience

Installing crash-rated high-security systems including:

- Perimeter fencing
- Wedge barriers
- Bollards
- Arms
- Beams
- Under-vehicle inspection systems
- Intrusion systems
- Turnstiles
- Turnstile canopies
- Access entry systems
- Gates



# Designing Network Solutions

IET Systems capabilities include extensive experience with integrating security camera surveillance systems, microwave ring communication towers, and strategic sensor placement to ensure a solid backbone of technologies that can facilitate and optimize new cutting-edge Smart City initiatives.

## Our Experience

Security surveillance camera systems that can be combined with advanced technology, such as intelligent video analytics and electronic alerts plus more for optimum security management and situational awareness.



# Anticipating Your Growth

IET Systems can proceed at your development pace. Our goal is to set up a solid foundation that considers future technology plans. We offer solutions that can be deployed over time with a variety of command center infrastructure options that will enable your Smart City evolution to happen over time. IET Systems is committed to the long-term value, flexibility, and adaptability of your Smart City growth plans.



# Growing an Economy with a Plan

Whenever you think of a rapidly growing economy, critical operational considerations and growth management should be at the forefront of your thoughts. How to manage and protect the area's resources? How to streamline communications across the various city departments in both the public and private sectors? How to manage the increased traffic for ease of flow? How to protect the city's citizens and businesses? The city leaders should also be thinking about a holistic, unified way to receive the relevant information needed to facilitate informed decision-making.



## Communications

Your city is experiencing an economic boom. Investors, businesses, suppliers, and citizens are rapidly moving into the area. Your energy sources, utilities, police force, and existing businesses are individually looking to adopt new technology practices to replace outdated, manual systems to better support tech-savvy citizens and evolving operational efficiencies. Why not offer a unified option to support the influx

of demand? How would it aid joint task forces, cross-district, and cross-agency public and private industries? Would it be possible for a unified communication platform to enhance the consumer experience without compromising performance? Could a unified platform support the police force and external agencies to increase cooperation and collaborative efforts?

## With Smart Cities being built on a foundation of technology, the answer is YES.

**YES  
YOU  
CAN**

unify communication for **operational efficiency.**

unify communication to **manage economic growth.**

unify communication to **improve the overall quality of city life.**

unify communication to **strategically support public and private industries.**

# What is a Unified Security Communication Platform?

A unified security communication platform is a collaborative platform that enables multi-site monitoring and reporting. It is a solution that manages all your security operations in one place providing a unified view of real-time operations. This collaborative platform enables cities to improve operations by analyzing data to build a more complete understanding of their security and processes. Cities can manage video surveillance, manage and monitor visitor access, quickly respond to threats, track vehicles, monitor events, and

more using one system. Enabling operations across all departments to gain insights to better understand the environment and help solve day to day challenges. By using a unified security communication platform as the centralized security strategy, cities can monitor systems throughout their geographic area and can collaborate with public and private organizations data sharing to increase reach when investigating possible security threats.



## Protection for Citizens

A city wouldn't be needed without citizens to support. Citizen's protection must be considered when planning a solid foundation to grow an economy.

**How can building a Smart City offer protection to your citizens?**

A Smart City provides situational intelligence information that can be used to build a real-time crime center. This information will improve public safety by supporting crime prevention, reduce emergency response time for incidents, create credible information to streamline investigations, pre-qualify potential threats by visually verify situations to quickly

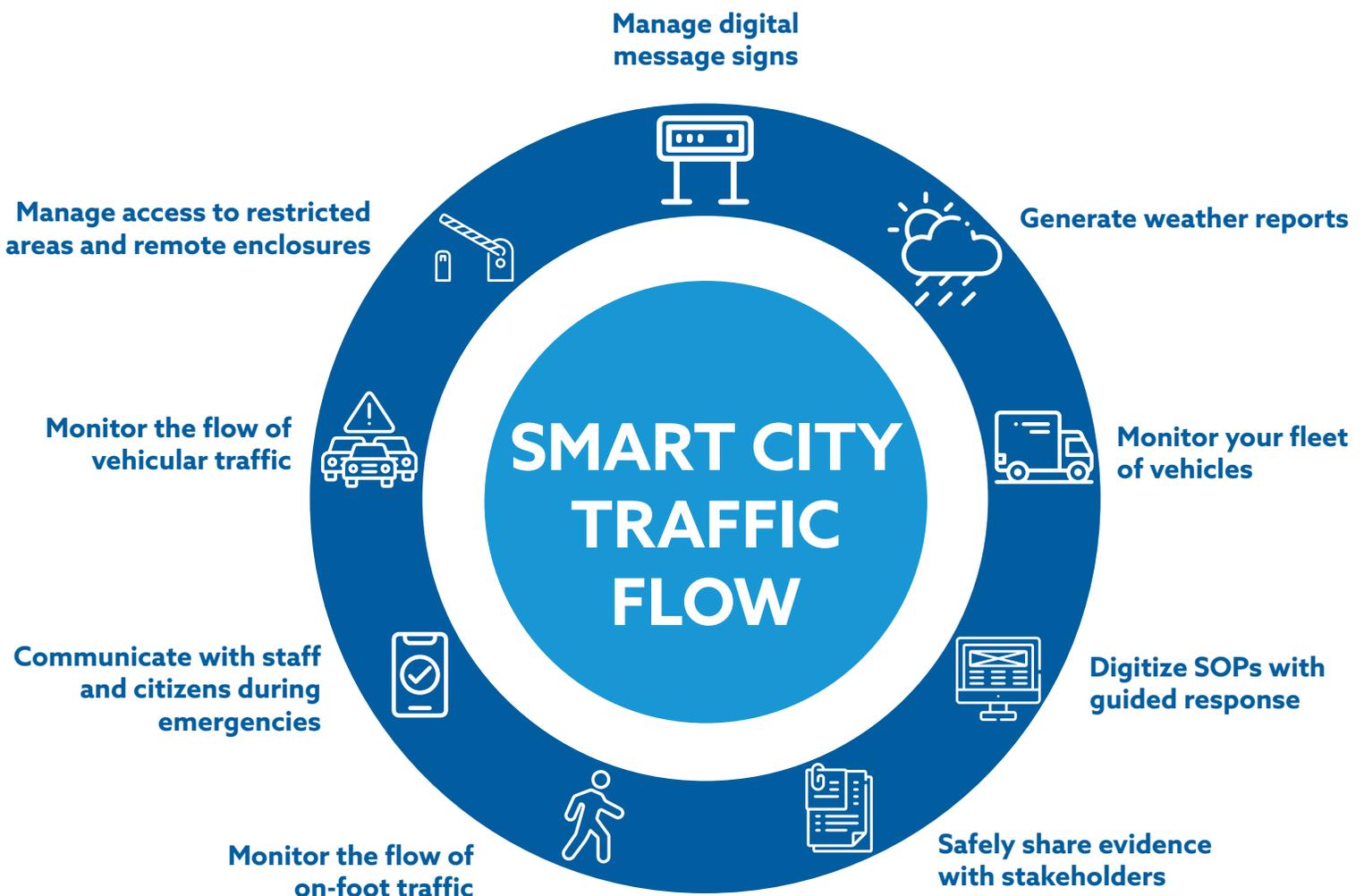
assess the threat level, and track movement in real time. This real-time crime center will be a "Virtual backup" for police officers to increase safety and provide more context for better decision making. Using data from sensors, cameras, and other systems will support crime reduction which will leave your citizens with a feeling a safety, security, and wellness.

# SAFETY, SECURITY, AND WELLNESS

# Traffic Flow

The foundation of good traffic flow is one where all types of traffic are considered (pedestrian and vehicular), roadways are monitored for safety hazards, and safety personnel can quickly respond to any emergency situations. When building a Smart City, an expert System Integrator will be able to design the camera and sensor network to accommodate immediate needs and forecast the city's evolving needs. The information obtained from the network of cameras and purposefully placed sensors will provide crucial information about road conditions,

road usage, traffic density, weather, parking space occupancy and more. This information will give overseers a clear view of what is happening on the roadways to plan, predict, and dispatch emergency personnel on the quickest route for fast response times. Developing a good foundation for inner-city road traffic includes adding innovative technology solutions to secure, manage, and optimize your roads of today with ability to easily adapt to the needs of the roads of the future.

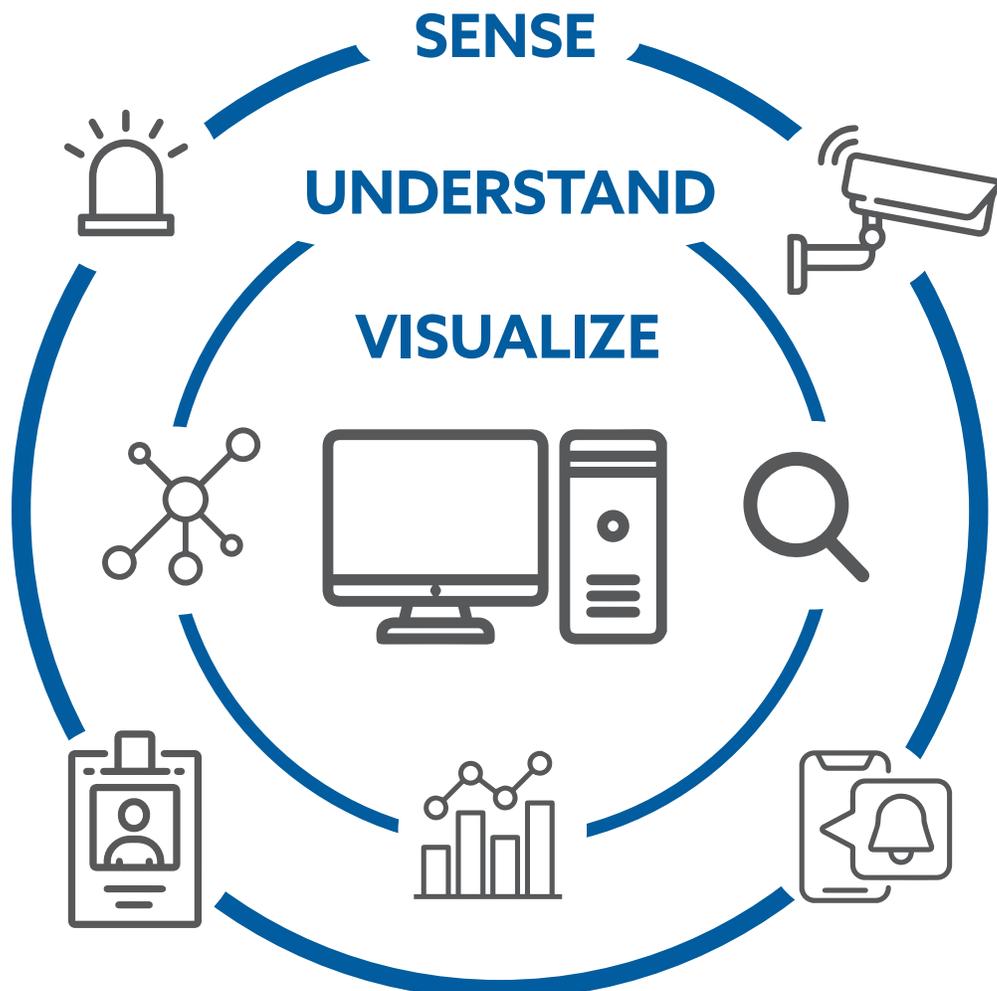


# Informed Decision-Making

How can the “everyday” be improved? Would a system that offers insights into the flow of people, vehicles, and activities be useful to make choices today that will make tomorrow’s challenges less of a challenge? What would it look like if information could be accessed from a single location that builds the ties between public and private sectors that enhance everyday living? How could law enforcement, transit agencies, public safety teams, IT leaders, city planners, traffic departments, and key stakeholders use this information to discuss immediate concerns and identify long-term

objectives? Could it be possible for this information to also consider the opinions and needs of businesses to better align strategic initiatives that everyone would easily adopt?

When you plan to grow your economy by creating a Smart City, you will have a comprehensive, intelligent solution that helps agencies collect and share data for informed decision-making. By utilizing a unified platform to have a centralized view of the city, projects can be implemented more efficiently, you will have more buy-in, and security gaps will be avoided.



# What are the Possibilities?

**Dynamic maps and dashboards**

**One unified solution**

**Quick notification of threats**

**Advanced perimeter protection**

**Collaborative Platform**

**Track Vehicles with License Plate Recognition**

**One interface**

**Enhanced Security and Operational Capabilities**

**Improve operations, save time**

**Global View of All sites**

**multi-site monitoring and reporting**

**Empowers**

**Challenging the unknown**

**Protect the Everyday**

**Surveillance Integration**

**Point to Point cameras following targets**

**Situational intelligence to improve public safety**

**Collaboration across teams**

**Notification to Security Personnel**

**Video Data Command Control Center**

**Access Control**

**Video Surveillance**

**Ensure citizens enjoy a good life**

**Safe and efficient services**

**to promote expansion**

**Expert Systems Integrator**

A Smart City designed with a good foundation can provide data that can improve all functions from traffic congestion and public safety to environmental conditions to include air quality and even street lighting. Security Surveillance systems, access control systems, video surveillance systems and analytics, automatic license plate recognition, mass notification communication systems, and a robust critical infrastructure network can all be integrated

together to turn the question "What are the Possibilities" to "The Possibilities are Endless". Using a unified security and communications platform to automate workflows, streamline sharing, unlock business and activity insights, and elevate identify management processes will empower you with a real-time situational awareness support system that unifies data streams and operations across city departments.

**This is the age where we can use technology to leverage growth, the economy, and increase overall satisfaction and quality of life. Make sure your foundation is solid. Make sure your growth is planned for the future. Make sure you choose an Expert Systems Integrator. Make sure you choose IET Systems.**



# IET Systems Is a Turnkey System Integrator

## Design

We design **solutions**. We listen to your **needs and objectives**. We conduct a security **analysis**. We draw from our **experience**. We recommend **comprehensive & specialized** designs that meet or exceed your expectations.

## Engineer

Our **professionals** engineer **complex systems** and structures with **practicality, safety, and cost** at the forefront. You can have **confidence** that our **solutions** are engineered as a truly seamless system integration that fulfills the goals.

## Install

IET Systems is a one-stop **contractor** and **systems integrator**. Our **professional installation** team works with **precision, quality, and safety** in mind. With new construction or retrofitting existing structures, IET Systems can handle the project.

## Maintain

Once our team works with a client, we look to establish **long-term relationships**. We offer **custom maintenance** solutions to keep operations running **safely and efficiently**. We pride ourselves on our **quality of work** that can be **trusted**.

The Smart Cities Council says that a:

**“Smart city uses information and communications technology (ICT) to enhance its livability, workability and sustainability.”** Cities can take intelligence from sensors, IoT devices and other connected systems, then analyze it, to help better understand events and forecast emerging trends.”

In addition to bringing in our experts from the United States for the design, engineering, construction, installation, and maintenance, we will hire, train, and educate a local workforce to further the growth and maintenance of our Smart City, security, and technology solutions.

