

# Verizon Smart Communities

Prepared for



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## Smart Communities drivers



Sustainability



Livability



Resiliency

Aging infrastructure	Congestion	Public safety	Economics
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**Smart Communities Challenges**


Climate Impact Plan Objectives?

How can I accelerate economic development?

Managing population growth through infrastructure changes?

Addressing citizen satisfaction?

How can I reduce energy use?



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**Public Facing**

Citizen visibility promotes sponsorship and viability of the project

"I am proud to live in this community!"

**Measurable**

Ability to measure and show success is critical for citizen buy in

"My community is spending efficiently."

**Building Blocks**

Requires a modular approach with each solution complementing the next

" My community is progressive based on the services they continue to build"

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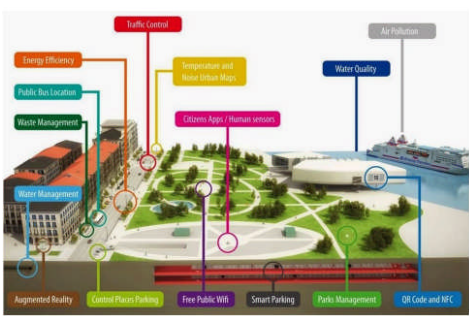
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**Smart City "Fly Over"**



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### Smart Communities

Transportation	Parks & Trails	Downtown	Utilities
Intelligent Traffic Control	Intelligent Video	Intelligent Lighting	Grid Wide
Electric/Shared Vehicles	Safety Call Boxes	Digital Kiosks	Energy Management
Fleet/Transit Control	Solar Charging Benches	Wi-Fi	Fleet Management
Smart Parking	Connected Trash Containers	Audio Alerts/Music	Water Management

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### Smart Communities : Intelligent Lighting

**Save energy and maintenance costs through more efficient LED lighting. Integrate optional IoT solutions to improve sustainability, resiliency and quality of life.**

The solution offers:

- LED lighting
- Digital signage and audio
- Embedded sensors
- Energy analytics

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### Smart Communities : Intelligent Traffic Management

**Optimize the flow of street traffic for less congestion, reduced emissions and improved safety for citizens.**

The solution offers:

- High resolution data
- Signal optimization
- Corridor management
- Priority signaling
- Continuous near real-time data
- Smart parking

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**Smart Communities use case: intelligent streetlights**

**Customer profile**  
A mid-sized city in the U.S. Midwest



**Challenge**  
The city needed to save on energy bills while creating a safe, sustainable, pedestrian-friendly environment. It also hoped to create an environment where local businesses could thrive.

**Customer strategy**  
The city decided to retrofit all of its streetlights to LED.

**Our IoT solution**  
We provided connected LED streetlights, as well as additional features such as:

- Digital signage
- Emergency call stations and evacuation routing
- Environmental analysis
- Public announcements capability

**Result**  
The city has reduced energy use by up to 70%, improved lighting quality and decreased operations and maintenance costs by up to 60%.

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**Smart Communities : Intelligent Video**



**Increase operational efficiency and awareness with advanced edge analytics.**

- Cameras record high-quality video.
- Data is stored locally, helping to manage streaming costs.
- Edge analytics identify activity and trigger alerts.
- Video analytics improve decision making.
- Only relevant video clips are sent to the cloud.
- Intelligent Video Management System archives video.
- Service covers licensing, support, cloud and network.

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**Verizon Share**  
Powered by our reliable 4G LTE network



 **Search, reserve and access assets using mobile devices**

 **Integrated hardware, mobile application and security**

 **End-to-end flexible and scalable platform**

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