

# Planning Tomorrow's Smart Cities, Today



WHAT IT TAKES TO BUILD THE FOUNDATION FOR THE FUTURE

Smart cities are no longer a sci-fi fantasy. While the Space Age cities in movies and TV are a long way off, integrated and connected smart cities are already being built around the world with enticing features like traffic optimization, autonomous people movers, and predictive maintenance scheduling.

But the complex and intertwined technologies like built-in smart sensors, connected devices and autonomous vehicles will command a massive and complicated infrastructure. So, what does it take to start building the smart cities of tomorrow, today?



## CORE TECHNOLOGIES

WHAT TECHNOLOGIES WILL SMART CITIES USE?



**Smart sensors**  
Internet of things (IoT) sensors on street signs, power systems, medical devices and buildings



**Connected devices**  
Web-enabled autonomous vehicles, phones and communication devices, household appliances and wearable technologies



**Apps and portals**  
Consumer-facing web and mobile applications, as well as backend AI-powered data processing systems

## CORE INFRASTRUCTURE

HOW DOES INFRASTRUCTURE ENABLE THOSE TECHNOLOGIES?



**Fiber networks**  
Lightning-fast fiber optic cabling for transmitting massive volumes of data



**High bandwidth connectivity**  
Low-latency and stable connections for time- and performance-sensitive applications like autonomous vehicles, volatile energy pipelines and finely tuned medical devices



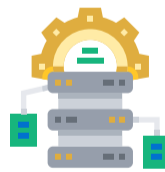
**Storage and Compute**  
Scalable data storage and processing power to collect, analyze and operationalize terabytes and petabytes of data at a time

## CORE CONNECTIVITY

ALL THOSE SENSORS AND SYSTEMS NEED TO CONNECT SOMEWHERE. HYPER-CONNECTED DATA CENTERS ARE THE HEART OF TODAY'S AND TOMORROW'S TECH-DRIVEN CITIES.



**Scalable power, compute and storage**  
High-density, on-premise storage and connectivity to cloud computing resources power smart technologies at scale



**Strategic locations for low latency**  
Improve performance of latency-sensitive apps and systems by choosing data centers physically closer to the smart urban centers



**Network peering for service mesh**  
Data centers feature network to network connections called peering to optimize network traffic delivery, reliability and performance



**Physical and digital security**  
Data centers boast extensive physical security to prevent hardware tampering and point-to-point secure connections to minimize risk to data in storage or transit

### CoreSite Data Centers Pave the Path to Tomorrow

- Colocation in 24 data centers spanning eight edge markets
- Peering exchanges, cross connects and inter-site connectivity unite all endpoints from one location
- High-density, configurable storage arrays with scalable space, power and cooling
- Enhanced physical security including mantraps and biometric scanners
- Industry-first network and cloud exchange platform for the ultimate connectivity