













A connected city is one where all relevant city systems—transportation, utilities, employment, health care, public safety, education, and others—are capable of communicating with each other to allow coordination and reduce waste.



Smart City

A **smart city** is an urban development vision to integrate <u>information and</u> <u>communication technology</u> (ICT) and <u>Internet of things</u> (IoT) technology in a <u>secure</u> fashion to manage a city's assets.

To be fully "smart," a city must be "connected."





- A smart/connected city is a system of interconnected systems including:
 - Employment
 - Health care
 - Retail/entertainment
 - Public services
- Residences
- Energy distribution
- Transportation
- The system of systems is tied together by information and communications technologies (ICT) that transmit and process data about all sorts of activities within the city.





Smart/Connected City, contd.

- Smart/connected cities contain and use "intelligent infrastructure"
 - Devices and equipment that can sense the environment and/or their own status, send data, and often, receive commands.
- Smart/connected cities use new analytical processes that have been facilitated by ICT advances
 - · Big data analysis
 - · Crowdsourcing to gather data and solve problems
 - · Gamification to incentivize behaviors
 - Engage the connected citizen





Connected Transportation

- Connected vehicles and travelers will be able to share data with all sorts of equipment, not only transportation-related devices and infrastructure, as they become integrated into the Internet of Things
- Travelers will increasingly be able to procure mobility as a service, rather than purchase vehicles or make other long-term commitments to particular modes of travel (eg, self-driven cars)





























