



Smart Cities Planning & Smart City Uses

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Goal & Characteristics of a Smart City Planning

Goal:

Using technology, information and data to enhance quality of life, economic competitiveness and sustainability.

- Citizen centric – What does citizens want? When? Where? How?
- Continuous learning, experimenting and testing new ideas and concepts
- Collaboration across departments & seamless integration of applications and services.
- Efficient & Effective government
- Transparency & better governance

Key Features of a Smart City Planning

- Sustainable land use & zoning
- Safe, connected & walkable communities
- Smart Data – Analyze data using machine learning and AI to glean intelligence; open data platform.
- Smart Utility – LED light, smart meters & intelligent network management.
- Smart Transport – smart parking; reduce traffic and pollution.

Demographic based Smart City Planning

Younger Generation

- Smart Water & Energy Mgt.
- Smart Transports
- Augmented Reality/Virtual Reality;
- e-Governance & Citizen services
- Security & Surveillance
- Smart Buildings & Environment

Older Generation

- Audible pedestrian signal
- Home automation – IoT
- Video-based/face-to-face government services
- Accessibility & accommodation

Geographic based Smart City Planning

Urban

- Smart parking
- Smart Urban Spaces – Public WiFi; Electric charging stations
- Intelligent traffic management
- Smart Meters & management
- Video Crime Monitoring
- Citizen Engagement

Rural

- Use of Drone – surveillance & services
- Rural Telemedicine
- Digital market place
- Sustainable communities & agriculture

Smart City Corridor – Main Street

- Tantalus TRULight Intelligence solution:
 - LED Streetlights
 - Gunshot detection
 - Smart garbage monitoring system
 - Video surveillance
- Outdoor WiFi – incubator for economic development
- Downtown East Point Streetscape Project - accessible and pedestrian friendly.
- East Point MARTA Station
 - Soccer in the street
- Smart Building - City Hall

Smart City Initiatives

- Advanced Metering Infrastructure – Empowering citizens
- Water & Power SCADA (Supervisory Control and Data Acquisition)
- Citywide LED Lights
- East Point Path Trail - ~10 miles of trail connecting neighborhoods
- Urban Agriculture – Food Well Alliance
- ERP Upgrade – pay via text; online plan review; paperless
- Open data platform – [Geo-Point](#)
 - [2020 Census](#)
 - [Fire Hydrants Inspections](#)
 - [Plan Review Status update](#)
 - [50 Worst Properties](#)

Smart City – Unleashing Power of Information

- Integrate AMI, SCADA, ERP and GIS
- AI & Machine Learning– data driven decisions making
 - Leak detection
- Infuse technology and data science
 - Drone based policing
 - Predicting “hot” spots
- East Point – 3D – AR/VR
 - Economic Development Tools
 - Public Safety Tools
- Deploy citywide Fiber

Key Takeaways

- Create a team of thinker/learner/experimenter
 - Experiment ideas and concepts at a small scale
 - Don't afraid to fail
- Establish public-private partnership:
 - Universities – EPA's CUUP Program
 - Innovative start-ups
- Leverage all resources (“collective knowledge”)
 - Synergistic approach to problem solving (i.e. water + power)
 - Value added approach – understand & act
- Operate in a state of continuous improvement - Stay Hungry!