SMART CITIES
Presented by City of San Antonio
UMAST Leadership Conference 9.28.2017
A Smart City uses **DATA** and **TECHNOLOGY** to improve the quality of life for residents
SMART CITY COMPONENTS

1. Collect Information
2. Communicate
3. Analyze
SMART CITY DOMAINS

- Economy
- Sustainability
- Living
- Transportation
- Security
- Education
SMART CITY
FY 2017 HIGHLIGHTS

Transportation
Launched SATRIP to reduce congestion, combat pedestrian-related crashes, and improve flood awareness

Sustainability
Two drones & two certified pilots
10 illegal dumping cameras

Digital Connected Living
Wi-Fi complete in 9 of 10 City parks
Enhanced 311 app live in fall 2017
To build a ** CONNECTED ,** ** INCLUSIVE ,** and ** RESILIENT **
community supporting a high quality of life

**TOP CHALLENGES**

1. Transportation
2. Access to services
3. Tools for resident feedback
4. At-risk youth
5. Trade/technology education
6. Internet access for all
SMART CITY
INITIAL CHALLENGES

ACCESS TO SERVICES
Residents are not always able to engage City services through their channel of choice, limiting exceptional customer experiences.
SMART CITY
INITIAL CHALLENGES

TRANSPORTATION

With no change, by 2040, vehicle miles traveled will double, reducing the quality of life for all residents.
SMART CITY TRANSPORTATION

San Antonio Real-Time Information Portal (SATRIP)
SAN ANTONIO REAL-TIME INFORMATION PORTAL

Collect & Share Real-Time Data

3rd Party Mobile Apps

Choose Optimal Travel Modes & Routes

Transportation Stakeholders

Transit Authorities
SA TRIP USING DATA & EMERGING TECHNOLOGY

Traffic-Related Fatalities & Injuries
Traffic Congestion
Transportation-Related Emissions

Travel Time Reliability
Flood Event Roadway Safety
Multimodal System Performance
SA TRIP CORE TASKS

1. TRAVELER CHOICE CORRIDORS
2. HIGH WATER DETECTION SYSTEMS
3. PEDESTRIAN SAFETY ENHANCEMENT
4. REAL-TIME DATA SHARE
1. **TRAVELER CHOICE CORRIDORS**

   **BLANCO ROAD**

   - Wilderness Oak to I-410
   - 8.6 miles
   - 30,000+ vehicles per day
1 TRAVELER CHOICE CORRIDORS

MILITARY DRIVE

- Bynum Avenue to I-37
- 8.3 miles
- 35,000+ vehicles per day
2. HIGH WATER DETECTION SYSTEMS

- ~100 stations at flood prone areas
- Integrate data into centralized Traffic Management System
- Operators monitor flood waters using nearby traffic cameras & vehicle detectors
- Shared flooded roadways with 3rd party apps
PEDESTRIAN SAFETY ENHANCEMENT

- Pedestrians detected and conflicting vehicle traffic held
- Traveler Choice Corridors
- Supports
4 REAL-TIME DATA SHARE

Travel Info App Improvement

Computer Aided Dispatch Integration
SMART CITIES
Presented by City of San Antonio
UMAST Leadership Conference 9.28.2017