City of Arlington

Municipal Transportation Systems Management and Operations

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ABOUT ARLINGTON

• Positioned at the center of the Dallas-Fort Worth Metroplex
• Arlington enjoys a bold, business-friendly climate, low sales tax rates, and low cost of living.
• Nearly 14 million visitors spent an estimated $1.4 billion in Arlington in 2015.

• Home of –
  • Dallas Cowboys Stadium
  • Texas Rangers Stadium
  • University of Texas, Arlington
  • Six Flags over Texas
Transportation Systems Goals

• Safety
  • Vision Zero

• Mobility and Reliability
  • Provide improved and consistent level of service through local transportation network

• Collaboration
  • Effective collaboration between departments, private partners, regional partners, and citizens. Part of TxDOT TSMO plan.

• Customer Service
  • Improved Traveler Information System, real-time data sharing

• Performance Measures
  • Systems performance, changes required etc.
Vision Zero Program

Traffic Fatality Rates (2016) of 50 Largest US Cities by Population

- City of Arlington
- Other Texas Cities

Pedestrian Fatality Rate per 100,000 Population
Non-pedestrian (Vehicular) Fatality Rate per 100,000 Population
Vision Zero Program

Collaborative Effort within Agency

- Public Works and Transportation
- Arlington Police Department
- Emergency Services
- Office of Strategic Initiatives
- Grants Management
- GIS and IT
- Office of Communications
Traffic Operations

• Smart City initiatives to improve mobility
• Manage day to day traffic operations and traffic control devices
• Manage special events
• Manage incident condition traffic
• Address citizen requests
• Manage traffic engineering projects
Arlington ITS Infrastructure

Fully Connected ITS System

- All ITS components are connected to central TMC
- 350+ traffic signals
- 8 overhead & 20 portable DMS
- 3+ miles of reversible corridors
- 160+ traffic cameras
- 40 real-time data collection devices
- 12 Connected Vehicle RSUs
Special Event Management Planning

- Pre-coordination with regional council, state, event organizers
- Traffic Management Plans
- Traffic Management Center (TMC)
- Police
- Fire
- Traveler Information System
- Real-time road closure information to Waze/511DFW
- Neighborhood Parking Management
- Complete collaboration between TMC, field crews, event organizers, police, fire.
Smart City Initiatives

- Goals and Objectives
- Planning
- Develop Architecture
- Execution of pilots
- Lessons Learned
- Define Future Steps

Within Agency
Office of Strategic Initiatives
Public Works and Transportation
IT and GIS
Office of Communications
Police and Fire

Outside Agency
NCTCOG
TxDOT
Private Partners
University of Texas at Arlington
Roadway Users
Smart City Initiatives

- Regional Data Sharing Programs by NCTCOG
- Connected and Autonomous Vehicle Pilot Programs
- Waze Connected Citizen Programs
- Real-time Data Collection and Incident Management Program
- Automated Traffic Performance Measures
- Video Sharing Pilot
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