

2021 Annual Northern Virginia Roundtable

Smart Futures Panel - A Local Government Perspective



ARLINGTON
VIRGINIA

Arlington: Select Smart Future Initiatives

- ⦿ ITS/Signals*
- ⦿ Smart Streetlights*
- ⦿ Performance Parking*
- ⦿ Real-time Bike/Ped Data Tracking*
- ⦿ Real-time Passenger Information

* Presentation focus areas

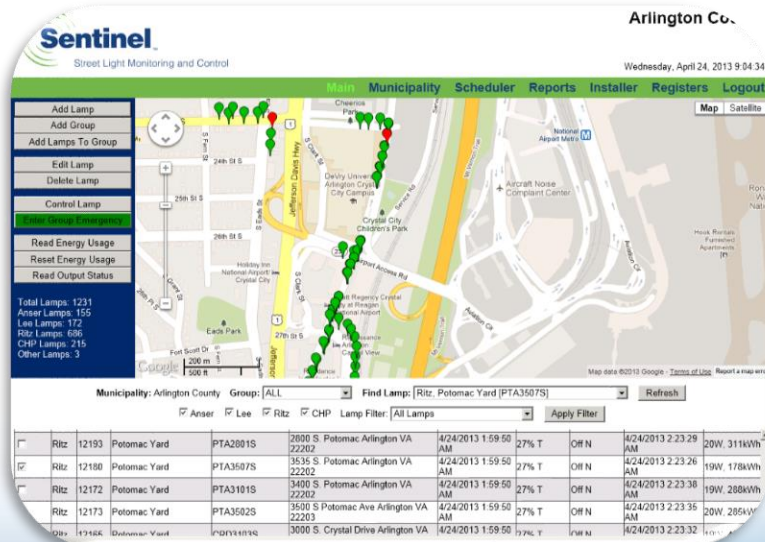
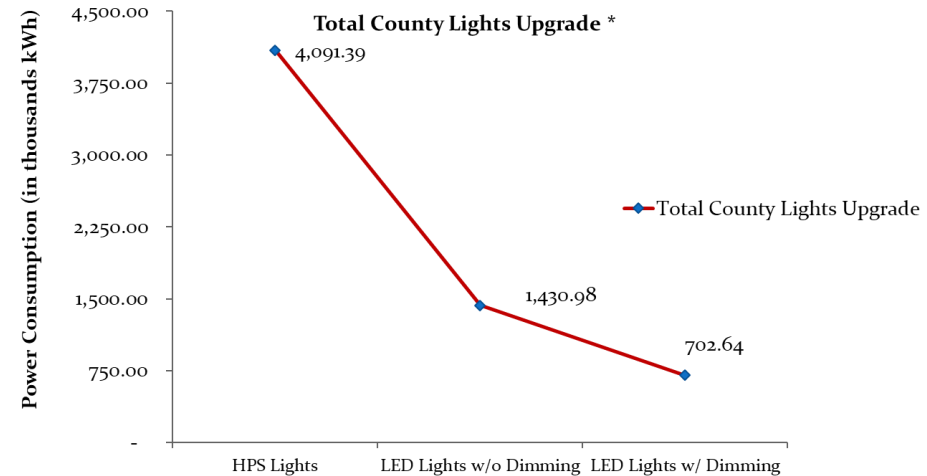
ITS/Signals

- Implemented Fiber Network to all signals (2008-2018) - allows for leveraging of communications
- Committed to wide deployment of CCTV (2004-present) - over 280 cameras installed
<https://transportation.arlingtonva.us/live-traffic-cameras/>
- Expanded deployment of ITS such as Bluetooth travel time systems, beacons, count stations
- Focused on real-time status and control of assets
- Provide users of the street network with a high degree of systems reliability



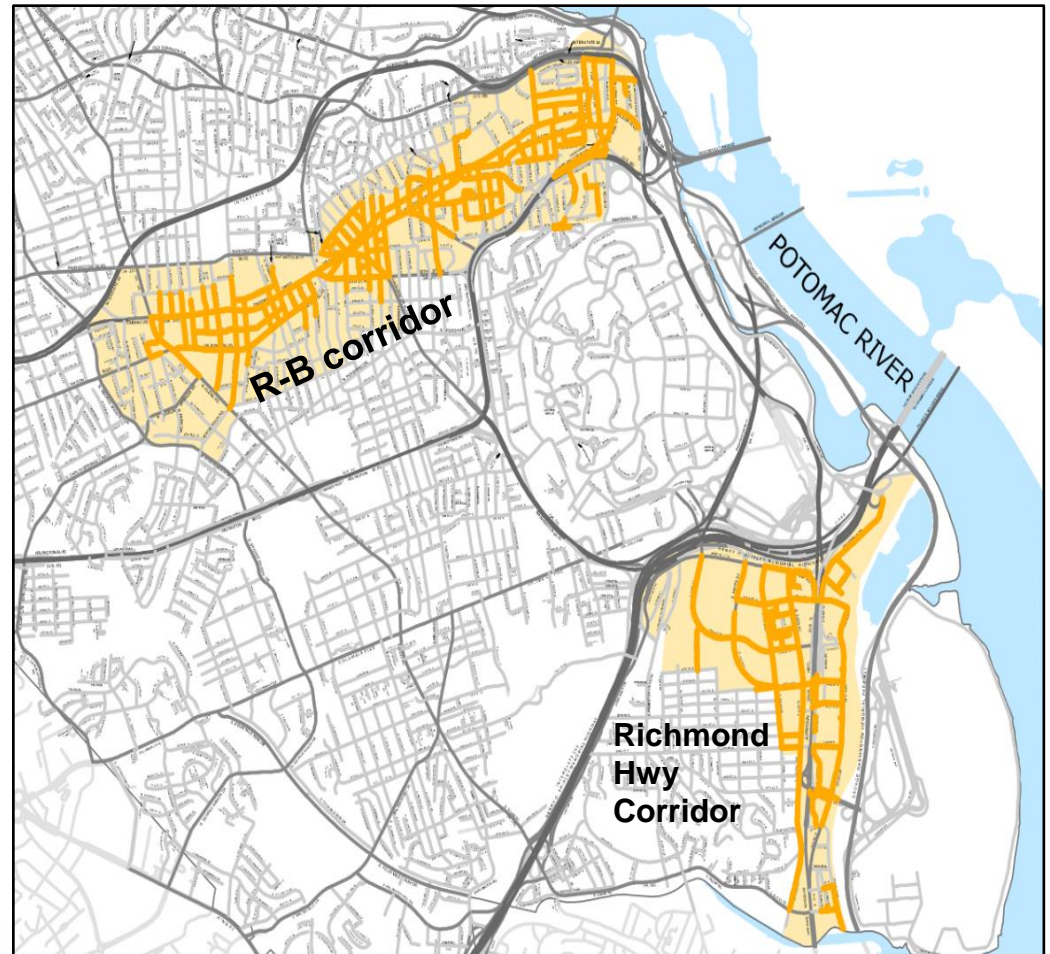
Smart Streetlight System

- Centrally controlled
- Improved roadway safety
- Reduced power consumption and GHG
- Proactive maintenance system
- Looking for ways to leverage systems with wider IT applications



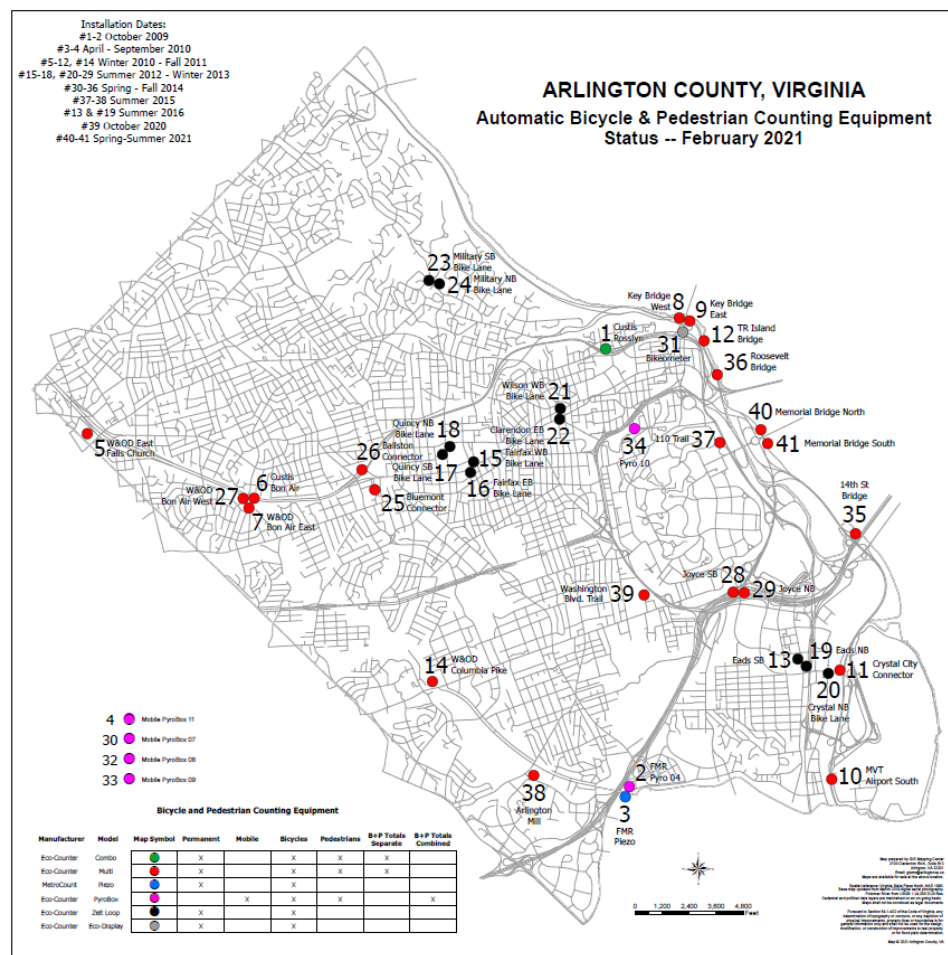
Arlington: Performance Parking Pilot

- Design and install a system to detect how full on-street metered parking spaces are in Arlington's two Metro Corridors
- Create a database and business rules for analyzing occupancy and suggesting parking rates
- Publish real-time information on parking availability for use by the general public
- Evaluate the pilot



Real-time Ped/Bike Data Tracking

- Planned and implemented network of 40+ bike/ped counters throughout Arlington
- Partnered with outside agencies including NPS, DDOT and NOVA Parks to implement counters at key locations on their facilities in Arlington
- Continue to track and analyze use of the network by time of day, day of week, seasonally and annually
- Provide public-facing access to all of our count data
- Program documents the important transportation function of these facilities



Thank You

Dennis M. Leach, AICP
Director of Transportation
Division of Transportation & Development
Arlington Dept. of Environmental Services
703-228-0588
Dleach@arlingtonva.us