Town of Cary Vehicle Operations Projects

Matt Wetherell, Operations Coordinator
Agenda

• Fleet Efficiency Standard Procedure
• Vehicle Right Sizing
• Vehicle Pool System
• Telematics
FLEET EFFICIENCY STANDARD PROCEDURE
Fleet Efficiency Standard Procedure

• Reviewed with all employees
  – Vehicle Selection
  – Utilization of Vehicles
  – Efficient Driving Habits
  – Maintenance
  – Route Selection
  – Annual Reporting
VEHICLE RIGHT SIZING
Vehicle Right Sizing

• Sustainable Fleet Team Analysis of Replacement and New Vehicle Requests
  – Life cycle cost analysis, review vehicle specs
• Review alternate vehicles
• Approximately 20 vehicles right sized annually
VEHICLE POOL
Vehicle Pool System

- **PoolCar**
  - Cloud based vehicle reservation system
- Operating since October 2015
Vehicle Pool System

• Why Pool?
  – Identified under utilized vehicles
  – Departments without vehicles constantly borrowing

• Goals
  – Create an easy, accessible, and reliable pool car system
  – Give staff access to more variety of vehicles
  – Analyze vehicle usage to right-size the fleet
Vehicle Pool System

- Why PoolCar?
  - Easy to use interface
  - Provides necessary report
  - Key management hardware
  - Price
Vehicle Pool System

- Process
  - Make Reservation
  - Get confirmation number, email
  - Retrieve key from KeyMaster
  - Vehicles parked in assigned spots
  - Keys have fuel cards
Vehicle Pool System

• Lessons Learned
  – Surveys
  – Refueling Issue
  – Maintenance/Cleanliness

• Next Steps
  – Waiting to get one full year of data before adjusting size of pool
VEHICLE TELEMATICS
Vehicle Telematics

- Pilot program in 2013
- Purchased with Clean Fuel Advanced Technologies Grant
- 57 vehicles
Goals of the Telematics Program

Conserve fuel through eco-driving, efficient routing, and reducing idle time for Town vehicles
Vehicle Telematics

- Utilize Verizon NetworkFleet
  - Ease of use
  - Reporting/Monitoring capabilities
    - Idling
    - Speeding
    - Vehicle Location
    - Vehicle Issues
  - Price
Vehicle Telematics

- Alerts set up for idling, speeding, geofence
Bottom Line Up Front

• **After one year:**
  – 16.4% Overall average increase in MPGS
  – Peaked at 27.2% increase in MPGs in April
  – Reduced fuel consumption by calculated 6,115 gallons
  – 42 of 57 vehicles have overall average increase in MPG
    • 7 trucks with 20-29.9% increase in MPGs
    • 8 trucks with 30%+ increase in MPGs
Vehicle Performance

△ in MPGs (Gallons and %)
Month Compared to Baseline 11.1 MPG
Counts of Speeding: 7+ MPH over posted, over 1 min in length
Idle Time

Monthly Count of Idle Events over 3 Minutes in Length

- All Idle Count
- 3-6 min
- 7-10 min
- 11-14 min

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Vehicle Telematics

• Lessons Learned
  – Over coming “Big Brother”
  – Disciplinary Procedure
  – Constant Communication, Share Data with Staff
  – Rewards for Vehicle Performance
Questions?

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