



LA Sanitation &
Information Technology Agency



City of Los Angeles

**Telematics AVL Pilot -
9 Lives of Video Data**

| Objectives - Telematics AVL Pilot & More

- Provide service confirmation data including service date and time & videos
- 311 Service Request System
- Video Data & AI Prediction - Pot Hole Detection
- Great Streets Street Rating

| Objectives - Telematics AVL Pilot

1. Provide service confirmation data including service date and time, GPS coordinates, photos & videos
 - A dashboard viewable from a PC, Android or iOS phone or tablet
 - The ability to view photos/videos while viewing the dashboard
 - A dashboard with a map view that displays all assets assigned to LA SAN

| Objectives - Telematics AVL Pilot

2. Integrate with the City's MyLA311 Service Request System to identify unregistered extra capacity bins

- **System must have the ability to integrate with the City's MyLA311 Service Request System**

2. Interface with existing ESRI-based digital maps of collection routes

- **Onboard telematic routing software must have the ability to use existing ESRI-based digital maps**

| Objectives - Telematics AVL Pilot

4. Identify bin set-out rates

- Onboard telematic routing software must have the ability to track collection of bins

4. Capture data on missed collections & determine reason for missed collection

- Onboard telematic routing software must have the ability to track non-collection of bins and reason for missed collection

| Objectives - Telematics AVL Pilot

6. Dashboard that tracks, analyzes, and displays route performance data including:
 - Route progress
 - Route completion time
 - Mileage
 - Travel time &
 - Time spent on sites - transfer station, landfill, material recovery facility, composting facility, fueling station, etc.
 - Dashboard must be accessible from a PC, Android or iOS phone or tablet

| Objectives - Telematics AVL Pilot

7. Identify downed vehicles and locate closest available replacement vehicle using the AVL feature

- **The telematics must locate, track, and display all vehicles via the map function**

| Objectives - 311 Service Request System

Come equipped or able to integrate with image recognition technology. Ability to identify:

- **Traffic signs**
- **Signal lights**
- **Abandoned furniture**
- **Abandoned vehicles**
- **Piles of debris**
- **Graffiti**
- **Pot Holes**

Integrate with 311 Service Request System to initiate a service request ticket

| Objectives - Video Data & AI Prediction

Utilize video data image recognition to measure size of “pot hole”, layered with AI analytic data from:

- Street surface type
- Traffic data
- Weather

to predict when the “pot hole” will be of a threshold size for repair

Integrate with 311 Service Request System to initiate a service request ticket

| Objectives - Great Streets Street Rating

Utilize video data image recognition and AI to “grade” City streets

- Standardize street “grading”
- Reduce additional staffing demands to conduct the street “grading”

| Priorities

priority #1



Fulfill the original project objective with little to no compromise to scope, schedule or cost

priority #2



Leverage IoT data and/or infrastructure to fulfill or forward 1 or more projects with existing data and infrastructure from original project

priority #3



Ensure modifications, enhancements to original project data and/or infrastructure is neutral or beneficial to projects leveraging original project work



Q & A



thank you.