

## Organization, Personnel and Technology

Item # 7a

**Subject:** Information Technology Strategic Plan

**Purpose:** Provide a quarterly update on progress to implement Metropolitan's Information Technology Strategic Plan and information technology activities in general for the period ending December 2011.

Group Name

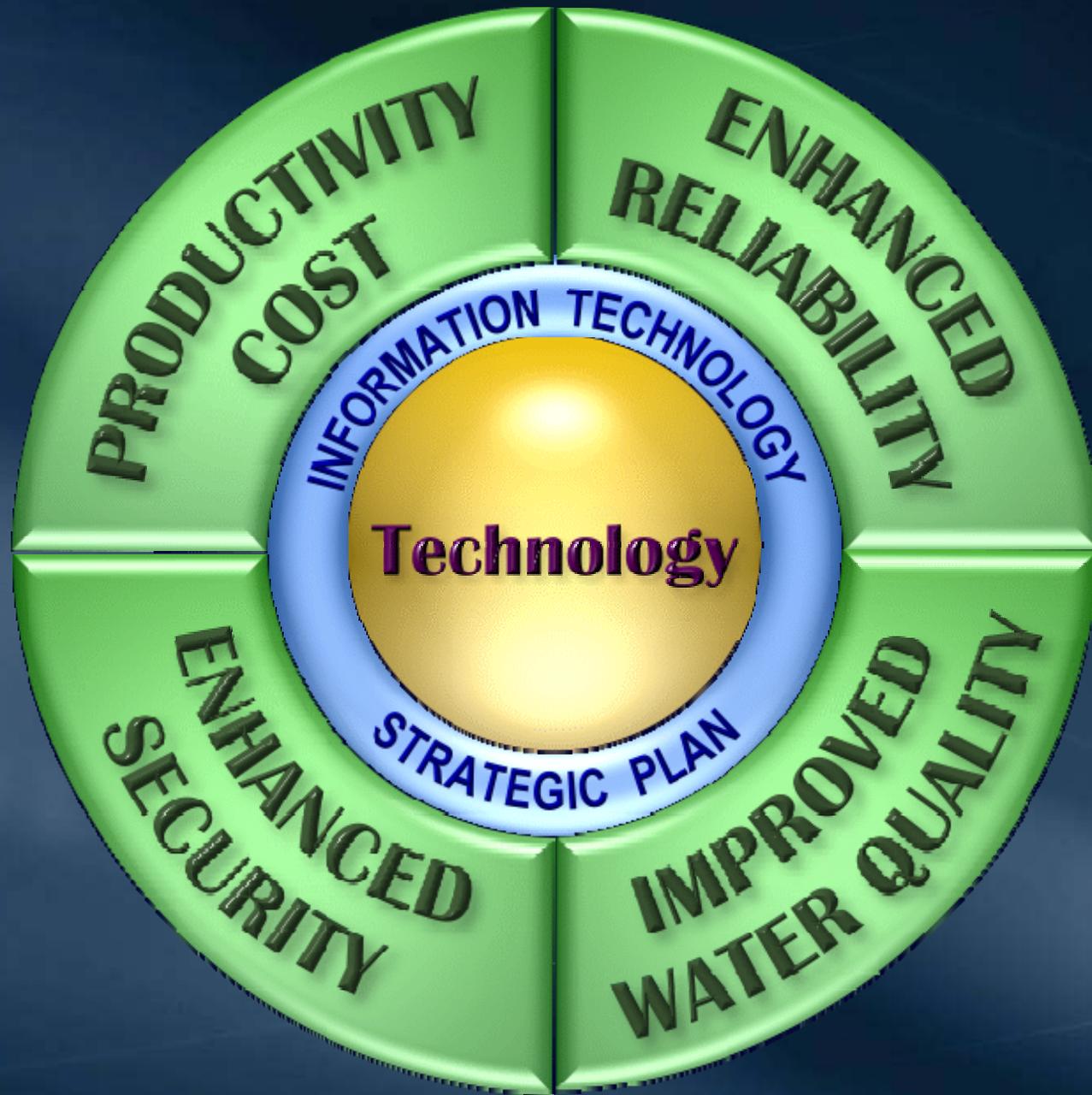
Date

# IT Strategic Plan Update – Quarterly Report for Period Ending December 2011

Organization, Personnel and Technology

Item # 7a

April 9, 2012



Group Name

Date

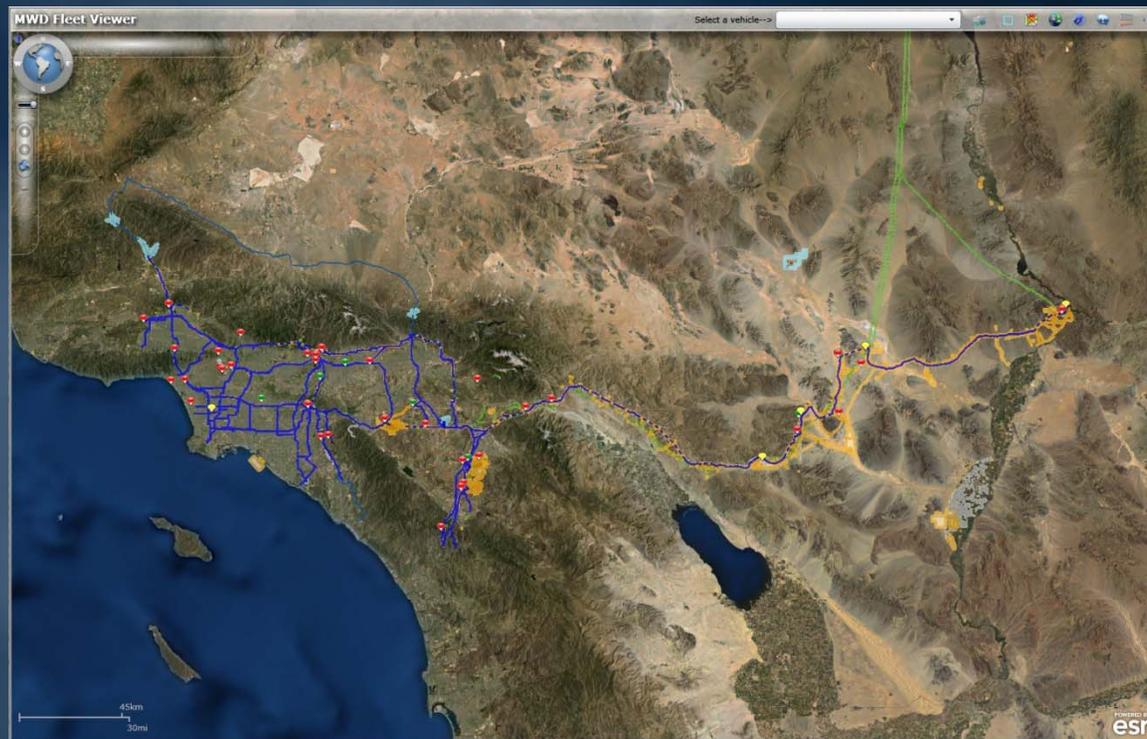
# Key Highlights

- Completed testing for Enhanced Surface Water Treatment Rule application upgrade
- Completed implementation of self-service modules for employee Compensation and Profile Management
- Initiated upgrades to the Water Conservation System to enhance search and validation capabilities

# Key Highlights

- Initiated design and development of a new Environmental and Safety Management Information System
- FCC accepted Metropolitan's application request for frequencies usage as part of the Two-Way Radio System Upgrade
- Completed development of a prototype web-viewer for Asset Tracking

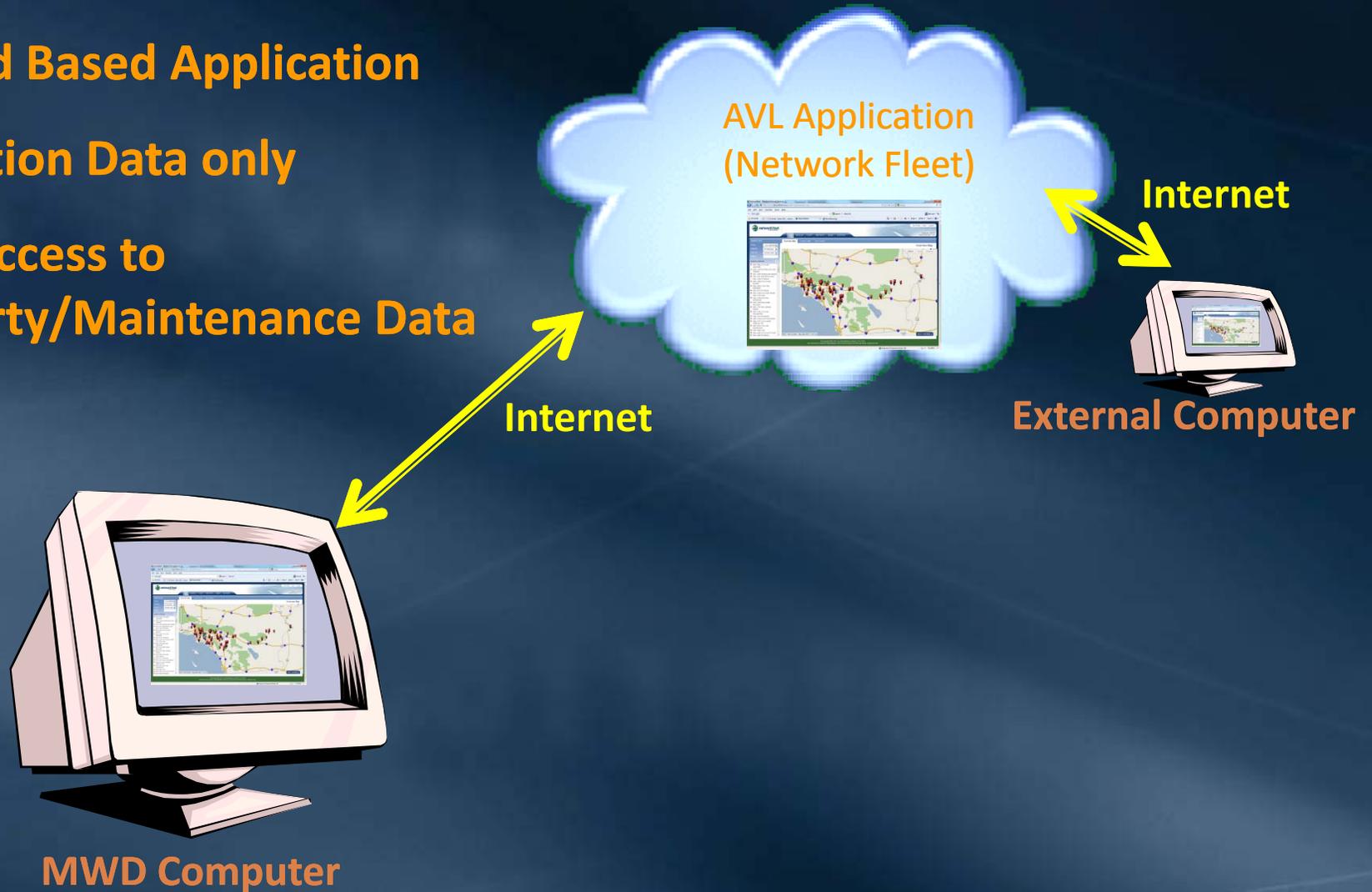
# Automatic Vehicle Location (AVL): Integration with Cloud Services



MWD Fleet Viewer

# Existing System

- Cloud Based Application
- Location Data only
- No Access to Property/Maintenance Data

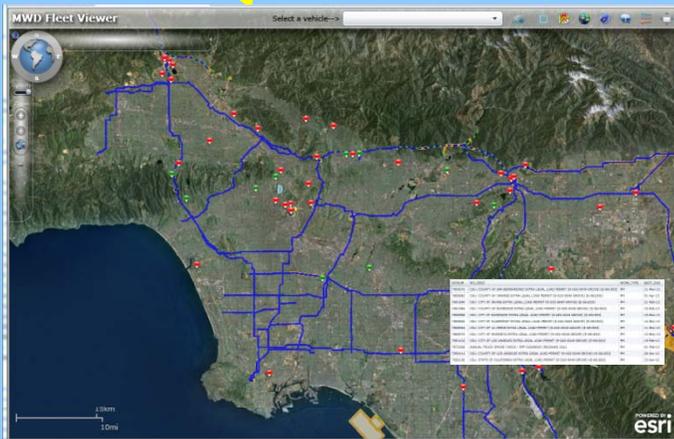


# Upgraded Integrated System

Basemap  
(ESRI)



Vehicle Location  
(Network Fleet)



MWD Fleet Viewer

Property Data



MWD

Fleet Data

WORK_ID	WKS_DESC	WKS_TYPE	NEXT_DUE
788875	CSU: COUNTY OF SAN BERNARDINO EXTRA LEGAL LOAD PERMIT (E-000-0048 GROUVE) (E-0418003)	PH	11-Mar-13
788882	CSU: COUNTY OF ORANGE EXTRA LEGAL LOAD PERMIT (E-000-0048 GROUVE) (E-0418003)	PH	11-Mar-13
788890	CSU: CITY OF SAN DIMES EXTRA LEGAL LOAD PERMIT (E-000-0048 GROUVE) (E-0418003)	PH	11-Mar-13
801890	CSU: COUNTY OF RIVERSIDE EXTRA LEGAL LOAD PERMIT (E-000-0048 GROUVE) (E-0418003)	PH	10-Feb-13
788888	CSU: CITY OF RIVERSIDE EXTRA LEGAL LOAD PERMIT (E-000-0048 GROUVE) (E-0418003)	PH	10-Feb-12
788889	CSU: CITY OF CLAREMONT EXTRA LEGAL LOAD PERMIT (E-000-0048 GROUVE) (E-0418003)	PH	12-Mar-13
788894	CSU: CITY OF LA VERNE EXTRA LEGAL LOAD PERMIT (E-000-0048 GROUVE) (E-0418003)	PH	12-Mar-12
788897	CSU: CITY OF PLUMBLATA EXTRA LEGAL LOAD PERMIT (E-000-0048 GROUVE) (E-0418003)	PH	13-Mar-13
789100	CSU: CITY OF LOS ANGELES EXTRA LEGAL LOAD PERMIT (E-000-0048 GROUVE) (E-0418003)	PH	10-Feb-13
787028	ANNUAL TRUCK SERVICE CHECKS / FIVE CLEANING PROGRAMS 2012	PH	10-Feb-13
789244	CSU: COUNTY OF LOS ANGELES EXTRA LEGAL LOAD PERMIT (E-000-0048 GROUVE) (E-0418003)	PH	26-Mar-12
789230	CSU: STATE OF CALIFORNIA EXTRA LEGAL LOAD PERMIT (E-000-0048 GROUVE) (E-0418003)	PH	03-Mar-12

# Existing Fleet Application

Networkfleet - Windows Internet Explorer  
http://www.networkfleet.com/portal/map/overview-map

File Edit View Favorites Tools Help

Google Search More >>

Bill Lull

Networkfleet

My Profile | Help | Logout

Welcome: u08199  
Pacific Daylight Time

MAP VEHICLE FLEET REPORTS ADMIN SUPPORT

Overview Map Location Detail Track Vehicle

Overview Map

Street Hybrid Satellite

MAP CONTROLS

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Internet | Protected Mode: Off 100%

**VEHICLE LIST**

Group: -- ALL GROUPS

Attribute: All Attributes

View by: Vehicle Label

Refine:

Select a Vehicle

- 5001-3856 LTVA KEN ASHFORD
- 5001-4243 PATROLLER LAKE SKINNER
- 5001-3297 PATROLLER JENSEN
- 5001-3331 EHS MCCULLOCH
- 5001-3356 FP SEDAN
- 5001-3358 LTVA ELLEN MACKAY
- 5001-3562 LTVA TOM BERINGER
- 5001-3673 FP SEDAN
- 5001-3746 LTVA SAM TEARE
- 5001-3750 VAN
- 5001-3754 EHS PAUL DEGRASSE
- 5001-3756 EHS DANIEL WILLIAMS
- 5001-3757 EHS LENORD POPICK
- 5001-3765 LTVA IAN WILLIAMSON
- 5001-3773 FP SEDAN
- 5001-3776 LTVA DAVE DEAN
- 5001-3777 LTVA NASEF ABDELSAYED
- 5001-3815 LTVA JIM KOSTELECKY
- 5001-3850 VAN
- 5001-3855 LTVA DAVE FOUST
- 5001-3860 FP SEDAN

# Upgraded Integrated System

MwdGlassApp - Windows Internet Explorer

http://mwdgis/mwdfleetviewer/fleetlogin.aspx

File Edit View Favorites Tools Help

★ Favorites MwdGlassApp

**MWD Fleet Viewer** Select a vehicle-->

15km  
10mi

POWERED BY  
**esri**

Done Local intranet | Protected Mode: Off 100%

# Existing Fleet Application

Networkfleet - Windows Internet Explorer  
http://www.networkfleet.com/portal/map/overview-map

File Edit View Favorites Tools Help  
★ Favorites Networkfleet

**networkfleet**  
BY DRIVING BUSINESS

MAP VEHICLE FLEET REPORTS ADMIN SUPPORT

Overview Map Location Detail Track Vehicle

VEHICLE LIST

Group: -- ALL GROUPS

Attribute: All Attributes

View by: Vehicle Label

Refine:

Select a Vehicle

- 5001-3856 LTVA KEN ASHFORD
- 5001-4243 PATROLLER LAKE SKINNER
- 5001-3297 PATROLLER JENSEN
- 5001-3331 EHS MCCULLOCH
- 5001-3356 FP SEDAN
- 5001-3358 LTVA ELLEN MACKEY
- 5001-3562 LTVA TOM BERINGER
- 5001-3673 FP SEDAN
- 5001-3746 LTVA SAM TEARE
- 5001-3750 VAN
- 5001-3754 EHS PAUL DEGRASSE
- 5001-3756 EHS DANIEL WILLIAMS
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- 5001-3777 LTVA NASEF ABDELSAYED
- 5001-3815 LTVA JIM KOSTELECKY
- 5001-3850 VAN
- 5001-3855 LTVA DAVE FOUST
- 5001-3860 FP SEDAN
- 5001-3861 FP SEDAN
- 5001-3863 FP SEDAN
- 5001-3866 EHS JANET BELL
- 5001-3880 FP JENSEN
- 5001-3882 PATROLLER DIEMER
- 5001-3891 EHS SEAN MCCANN
- 5001-3928 EHS SEAN COTTER
- 5001-3937 LTVA JOHN BEDNARSKI
- 5001-3941 EHS HAROLD WAGNER
- 5001-3942 EHS JAMIE PAZ
- 5001-3950 PATROLLER CHEVY
- 5001-3952 LTVA GREG WASHINGTON

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# Upgraded Integrated System

MwdGlassApp - Windows Internet Explorer

http://usgis03/MwdFleetViewer/FleetLogin.aspx

File Edit View Favorites Tools Help

Google Search More >>

Bill Lull

5001-3979 LTVA DAVID GERVAIS

**MWD Fleet Viewer**

VehicleLabel: 5016-0283 T/A (CUF) TRACTOR  
 Year: 2012  
 Speed: 37  
 Make: PETERBILT  
 Model: 379  
 LicensePlate: 1043256  
 Odometer: 251247

Get service records Add tracking layer

WONUM	WO_DESC	WORK_TYPE	NEXT_DUE	CUST_NAME	ORACLE_TAG
7547946A	A/C COMPRESSOR INOP	CM	---	MICHAEL W BRADLEY	A043527
7547993A	REPAIR LEFT #2 AXLE INSIDE TIRE / REPLACE WIPER BLADES /Replace tires on 3rd axle	CM	---	MICHAEL W BRADLEY	A043527
7547993B	Reline steering axle and #2 axle brakes	CM	---	MICHAEL W BRADLEY	A043527
7547946	SERVICE HEAVY EQUIPMENT TRUCK (50160283)	PM	---	MICHAEL W BRADLEY	A043527
7769954	SERVICE: 90 DAY AIR BRAKE INSPECTION (50160283)	PM	21-May-12	MICHAEL W BRADLEY	A043527
7670165	ANNUAL TRUCK SMOKE CHECK / DPF CLEANING (50160283) 2012	PM	01-Feb-13	MICHAEL W BRADLEY	A043527

# Existing Fleet Application

The screenshot displays the Networkfleet web application interface. At the top left is the Networkfleet logo with the tagline "DRIVING BUSINESS". To the right of the logo are navigation links: "My Profile | Help | Logout". Below the logo is a horizontal menu with tabs: "MAP", "VEHICLE", "FLEET", "ADMIN", and "SUPPORT". On the far right, a welcome message reads "Welcome: gisdemo1 Pacific Daylight Time".

The main content area is divided into two sections. On the left is the "VEHICLE LIST" sidebar, which includes a "Group:" dropdown menu set to "-- ALL GROUPS:", an "Attribute:" dropdown set to "All Attributes", a "View by:" dropdown set to "Vehicle Label", and a "Refine:" input field. Below these is a "Select a Vehicle" section with a scrollable list of 20 vehicles, each with a colored icon (red or green) and a name. The list includes vehicle IDs and names such as "5001-3331 EHS MCCULLOCH" and "5001-3941 EHS HAROLD WAGNER".

The right section is the "Overview Map", which features a map with a yellow route line. The map includes a vertical zoom control on the left and a "MAP CONTROLS" button at the bottom right. The map shows a route along "Desert Center Rice Rd" and "enter Rice Rd", with a red pin marker on the route. The map is titled "Overview Map" and has style options for "Street", "Hybrid", and "Satellite".

At the bottom of the page, there is a copyright notice: "© Copyright 2001-2011 by Networkfleet Inc. Build: 3.15.10517" and a disclaimer: "Use of this site is subject to Networkfleet's Terms and Conditions and Privacy Policy. Additional Info."

# Upgraded Integrated System

MWD Fleet Viewer

Select a vehicle--> 5016-0301 DUMP TRUCK

WONUM	WO_DESC	WORK_TYPE	NEXT_DUE
7608611	SERVICE CALL TO EAGLE PLANT TO REPLACE TIRES 50160301	CM	---
7670530	SERVICE: 90 DAY AIR BRAKE INSPECTION (50160301)	PM	09-May-12
7699948	ANNUAL TRUCK SMOKE CHECK / DPF CLEANING (50160301) 2012	PM	25-Jan-13

# Existing Fleet Application

5001-4317 FP COLORADO

View: Select a trip...



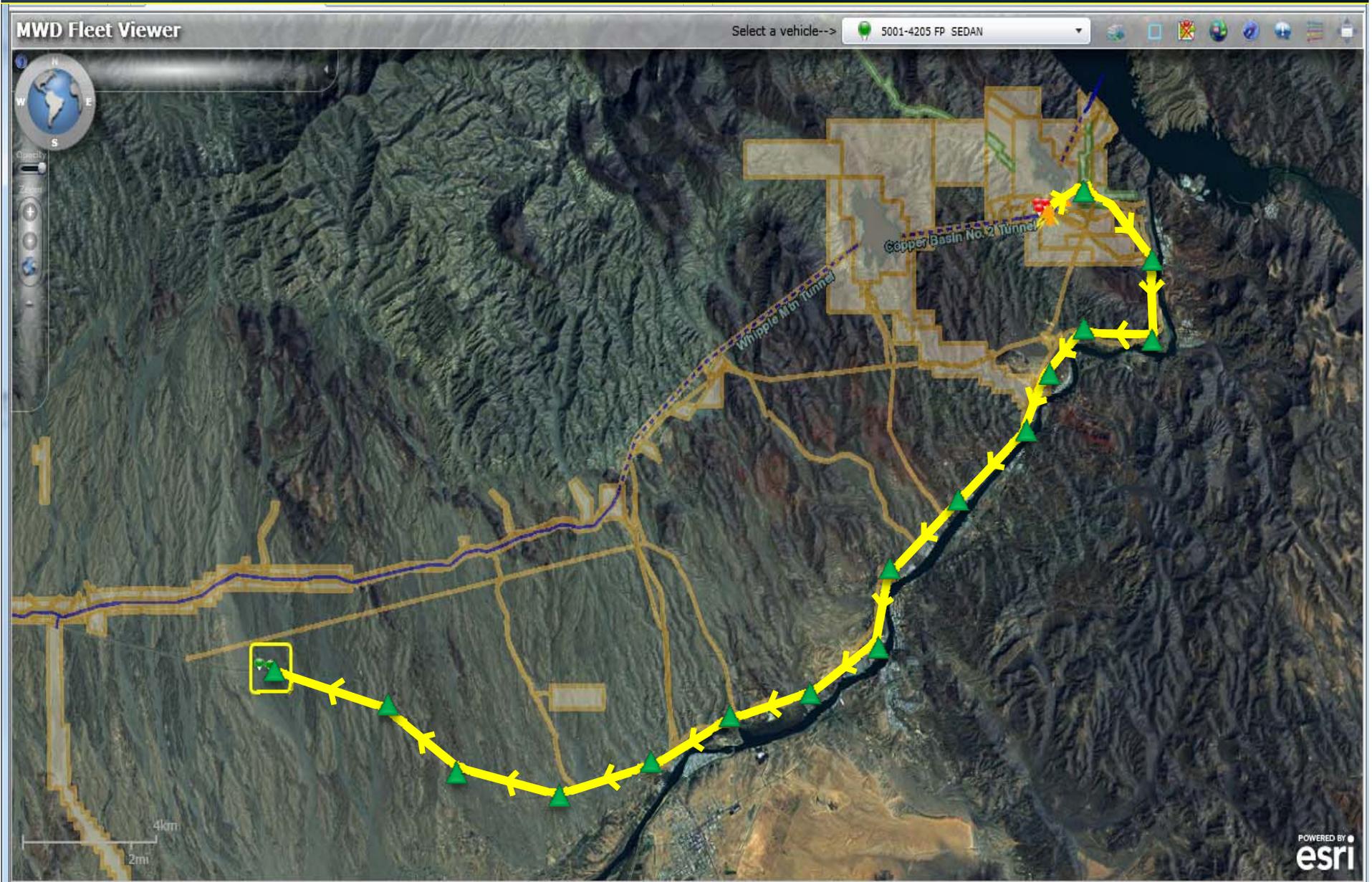
Animate



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MAP CONTROLS

# Upgraded Integrated System



# Upgraded Integrated System Benefits

## ● Faster

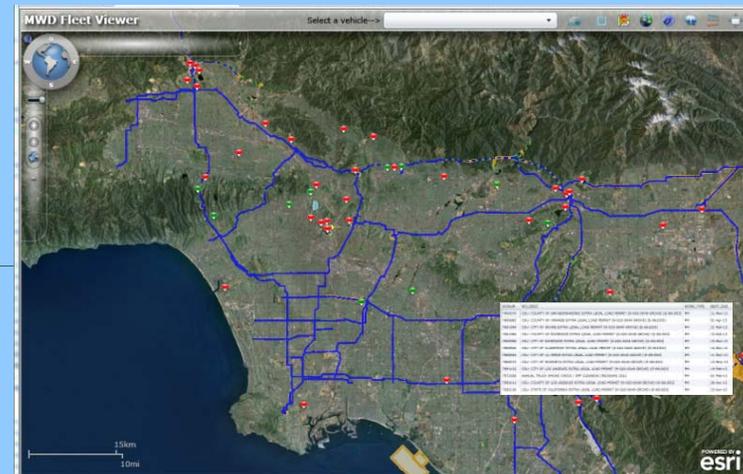
- Internal Application
- Faster Mapping Technology

## ● Secure

- MWD Data - Internal

## ● More Informative

- Easily determine vehicle location relative to MWD Property and Facilities
- Access associated vehicle maintenance records directly from Maximo Fleet database



**MWD Fleet Viewer**

# Upcoming Milestones

- Issue RFP as a part of the IT infrastructure wide-area-network microwave upgrade
- Deploy new “web-viewer” for Fleet Services
- Conduct needs assessment as part of the PC Replacement Project
- Conduct testing and initiate deployment of the Hazardous Waste Module
- Begin comprehensive SCADA cyber security assessment