

Session 5: The Evolving World of Telematics Real-Time Information for Fleet Performance

August 26, 2020







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Next Series Dates & Topics:

September 09: Green Fleet Award Winners 2020 Announcement

September 23: Best Practices & Lesson Learned in Charging Infrastructure Deployment

October 07: Electric Vehicle Options for Fleets





Format

- Q&A at the end
- Submit questions and comments to "Panelists"
- Scheduled for 2:00p-3:30p
- Slide handout
- Recording





The Evolving World of Telematics Real-Time Information for Fleet Perfomance August 19, 2020

- 2:00-2:05 Rick Sapienza, NC Clean Energy Technology Center—Welcome & Introduction
- 2:05-2:20 Chuck Ebbets, ViriCiti—ViriCiti Telematics Solutions and Applications
- 2:20-2:34 All Curtis, Cobb County GA—Fleet Telematics Shaping the Future of Mobility
- 2:34-2:42 Mike Domin, Sourcewell—Cooperative Purchasing The Power of Partnership
- 2:42-2:56 David Dunn, City of Orlando FL—Join Fleets Across the Nation Go Biobased!
- 2:56-3:10 **Drew Newstrom, City of Fort Lauderdale FL**—Solutions for Sustainable Disinfection
- 3:10-3:30 **Q&A**







Rick Sapienza <u>resapienza@ncsu.edu</u> Phone: 919-515-2788

- Clean Transportation Program Director NC Clean Energy Technology Center at NC State University
- 8 years with NC State
- 30+ years experience including General Motors,
 Draper Lab and Great Lakes Pulp & Fibre in both engineering and business management roles





VIRICITI



Chuck Ebbets c.ebbets@viriciti .com 404-578-0729

- Senior Account Executive with ViriCiti
- Started career working with father at family owned Ford Dealership
- More than 20 years working with software as a service and big data
- Passion for using technology in problem solving
- MBA from Georgia Tech



ViriCiti

Electric and non-electric fleet management made easy



Our mission

To accelerate the adoption of commercial electric transportation globally







1200

charger sockets

2500

vehicles

years of experience

70 employees

offices in Europe & US

200

operators & OEMs



We work with 200+ operators and OEMS worldwide























































































OEMs and Agencies in the Southeast United States























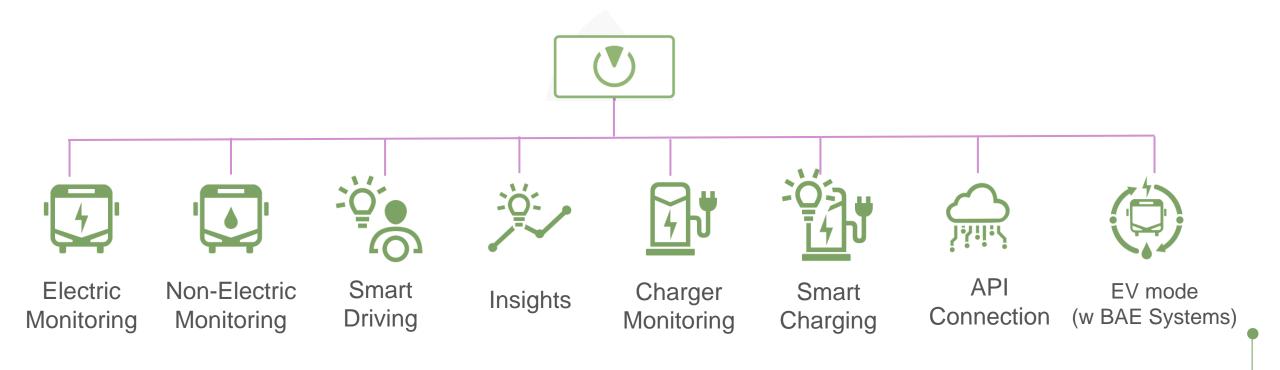






Complete solutions

for the modern vehicle fleet





Top challenges

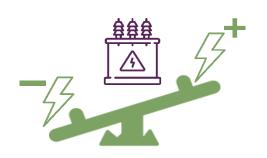


Range anxiety



Battery warranty
Fault codes
Charger issues

Energy management



Avoid peak demand Day/Night tariffs



Efficiency

Uptime

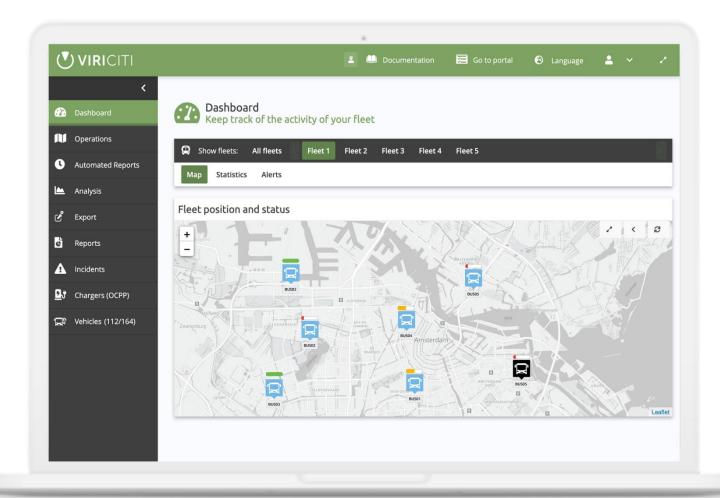
Distance driven

Power management

Data Analysis



Vehicle Management: Electric & Non-Electric

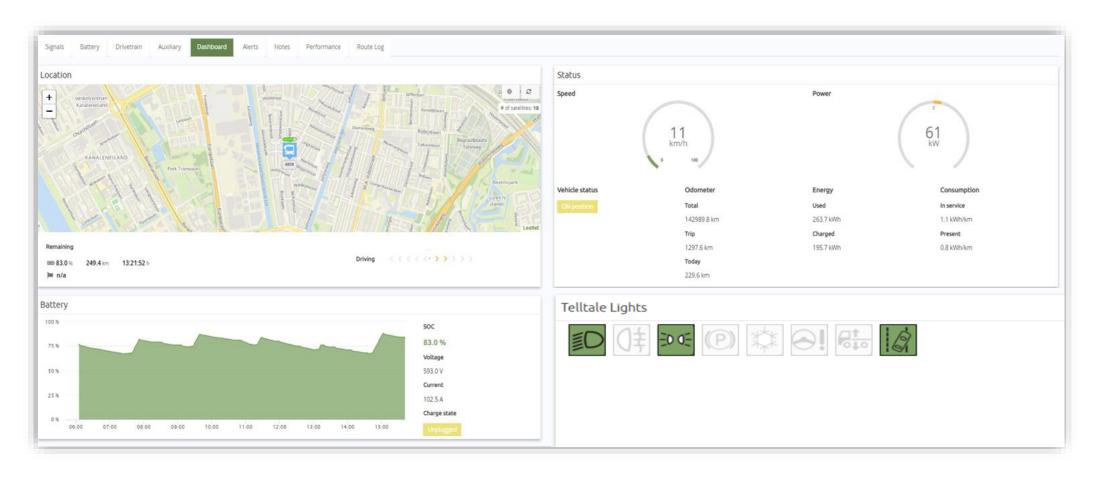


Key Features

- Real-time position
- FMS & Basic battery data
- Vehicle statistics
- Basic battery statistics
- ► (Automatic) reports
- Manual Route log
- Live Dashboard lights
- Incidents
 - Sent via E-Mail / SMS / SDK
 - Triggered by Parameters or Location



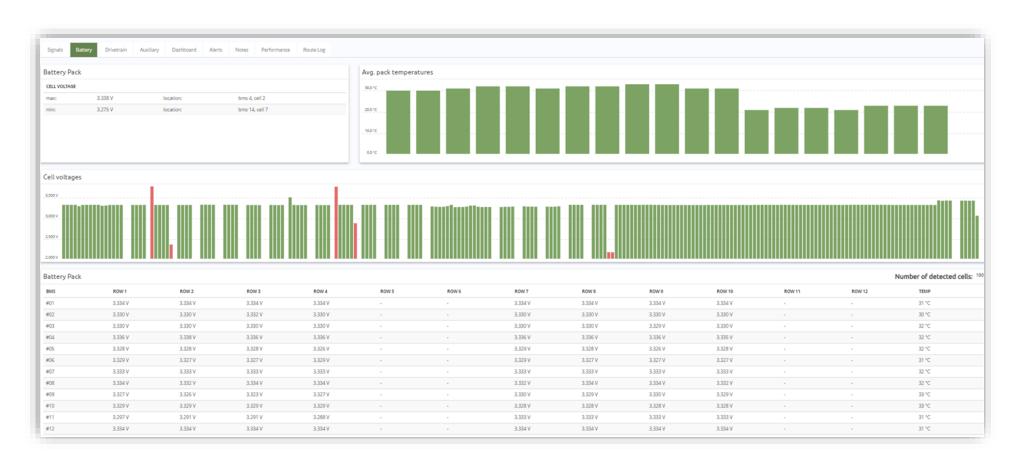
Vehicle Dashboard



 Real-time overview of essential parameters: current state of charge, state of charge over time, remaining range, current speed, current power, energy used today, energy charged today, energy consumed (kWh per mile)



In-Depth Battery Analysis



- ▶ Detect unbalanced (underperforming) batteries min/max cell voltage difference
- Protect your batteries by actively monitoring the average battery/cell temperature



Benefits: Vehicle management



Increase fleet utilization



Process complex data



Reduce range anxiety



Reduce fuel costs



Improve visibility



Optimize operations



Decrease TCO



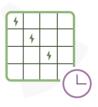
Benefits: Charger management



Lower infrastructure costs



Reduce maintenance time/cost



Lower charging costs



Increase uptime



Charge according to schedule



Better insights



Identify critical issues



References

Qbuzz monitors mixed fleet of 430 electric and non-electric buses via ViriCiti, which allows them to see data from all 6 different bus OEMs in one dashboard. In addition, Qbuzz use ViriCiti to also monitor 300 depot and on-route chargers.

Qbuzz

We have been working with the ViriCiti system for quite some time now. With their Mixed Fleet solution, we now have a complete overview of our entire fleet – in one dashboard. We believe this has the potential to really accelerate our transition to a fully zero-emissions fleet."



Gerrit Spijksma CEO Qbuzz



Thank you

Contact us

USA Offices in

Greenville SC || Irvine CA

www.viriciti.com

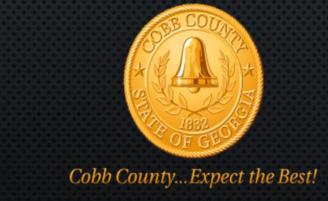
Chuck Ebbets
Senior Account Manager Southeast
c.ebbets@viriciti.com
404-578-0729





Al Curtis
al.curtis@cobbcounty.org
Phone: 770-528-1114

- Fleet Services Director Cobb County GA (2,500+ vehicle fleet)
- More than 27 years fleet experience in public & private sectors
- Top fleet leader, integrating technology and sustainability practices into fleet operations
- Implemented numerous sustainability and safety efforts for the county increasing efficiency, saving money and reducing emissions
- Continually recognized fleet leader by The 100 Best Fleets, Green Fleet Awards, and Inductee to Public Fleet Hall of Fame, . . .





IOT CONNECTED DEVICES FLEET REAL TIME DATA FLEET MOBILITY



GPS-KPI'S DRIVES PERFORMANCE

Regardless of the metric being measured; we must first accumulate the data

- The number of KPIs possibilities are endless
- We must first decide what data your looking to identify
- Why are we measuring each of the metrics and how do we calculate the impact of results improvement?
- Once the metric is determined we simply pull together the variables, calculate the KPI result and know exactly where you are







CONNECTED GPS DEVICES TO DRIVE EFFICIENCY/SAVINGS



FREE TELEMATICS THROUGH EV-WATTS

- DOE-FUNDED PROGRAM (2019-2022)
- Data sharing: Fleets with telematics program
- DATA COLLECTION: FLEETS WILL RECEIVE FREE GEOTAB DATA LOGGERS
- Data collection period ~ 18-24 months
- FLEETS CAN KEEP DATA LOGGERS AFTER PROJECT END (PAY THROUGH GEOTAB) OR RETURN THEM TO DOE FOR FREE



Interested in participating?

GA fleets: Jennifer@CleanCitiesGeorgia.org

Non-GA fleets: EVWATTS@energetics.com

CASE STUDY ON THE DEPLOYMENT OF TELEMATICS

Challenge

To deploy a telematics solutions that would minimize risk, cost effective, plug and play technology, expandable open API, customizable, that improves productive, and lower our carbon foot print, while lowering fuel and operational costs.

Solution

238 SyncUP/GEOTAB FLEET units were installed in electric, hybrids, and gas cars & trucks. Units deployed in following Departments: Juvenile Court, Tax Assessors Office, Water Department, DOT, and Senior Services.

Results

Implementing the telematics help our departments improved the amount of accidents and speeding violations by an average 15%. This reduced accidents, lowered the number of high risk drivers and improved overall driver safety in the departments.

During the implementation stage we had over 20 incidents where a vehicle was in motion without a seatbelt fastened. After just 4 weeks of coaching in action, 100% of all employees were using their seatbelts.

Cost savings was another benefit of telematics deployment. Maintenance/repair cost were cut approximately 15%. With a Fleet that travels over 5 million miles a year we had to address excessive idling. Telematics has allowed us to reduce over 1 1/2 hour idle time per vehicle. Equates to over 20,000 gallons of fuel saves and \$50,000 in cost savings. The reduction in fuel usage has directly impacted our overall operational cost and has reduced over 342,000 lbs. of C02 emissions.

AL CURTIS DIRECTOR, FLEET MANAGEMENT MARIETTA, GA



Cobb County...Expect the Best!





Mike Domin

Contract Administrator

218-895-4148

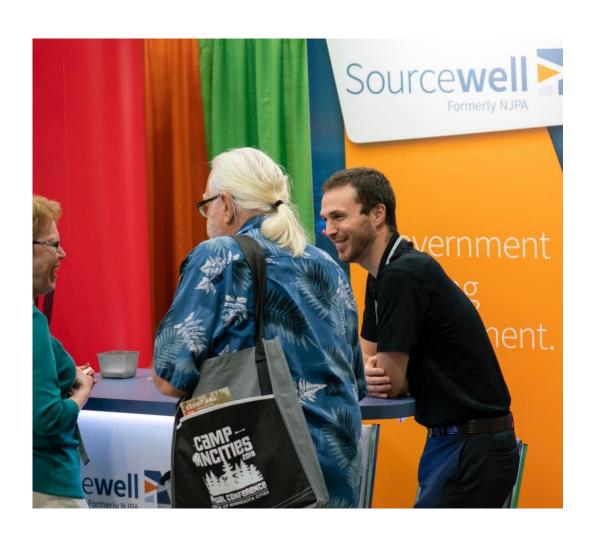
mike.domin@sourcewell-mn.gov

- Contracts Administrator at Sourcewell
- Managed Portfolio includes EVs, charging infrastructure & many other fleet solutions
- Contributor to the Climate Mayors' Collaborative





Who is Sourcewell?



Sourcewell is a leading, independent government agency.

- Sourcewell is a unit of government of the state of Minnesota
- Our staff members are public employees

www.sourcewell-mn.gov



Legal Authority & Responsibility



Sourcewell facilitates a competitive solicitation & awards process on behalf of our members' needs and expectations throughout the U.S. and Canada.

- Sourcewell is its own lead agency with legislative authority to establish contracts.
- Acceptance and use always comes down to local policy and interpretation.



Sourcewell satisfies your competitive process







Who are our Sourcewell Members?



State and Local Government Entities

- Cities
- Counties
- States and state agencies

- Special and water districts
- Native American tribes
- Port and transportation authorities



Public and Private Education

- K-12
- Special Education Districts

- Charter schools
- Higher education/universities



Nonprofits (tax exempt organizations)

- Hospitals and nursing homes
- Rural power cooperatives

- Housing authorities
- Member associations and cooperatives

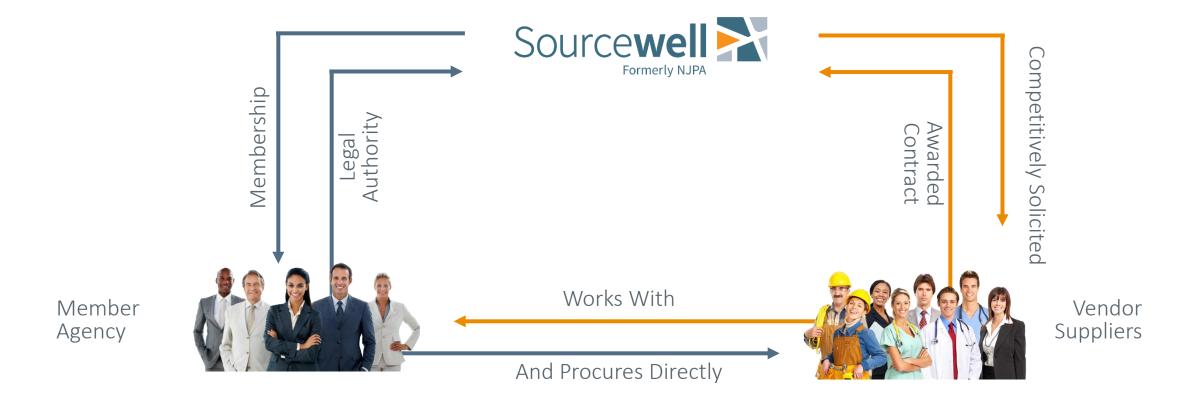


Value of Sourcewell Membership

- Membership is at no cost, no obligation and no liability
- Choose from 300+ contracts
- Streamlines the purchasing process
- Sourcewell membership establishes the necessary paper trail



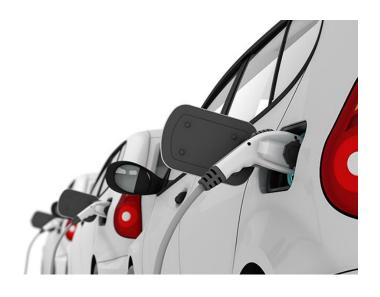
How it Works



A legal contracting pathway between buyers and suppliers



Electric Vehicle Solutions



Electric Vehicles



#120716-NAF

Leasing



#032615-NCL

Charging Infrastructure Solutions





SIEMENS
Ingenuity for life

lilupad



#051017-CPI

#051017-ZSI

#051017-SIE

#051017-LPE

#051017-AEV



Summary

- Contracts competitively solicited on your behalf
- Save time and money by combining the buying power of more than 50,000 government, education, and nonprofit organizations
- CHOICE, choose from a wide array of products and services to find the solutions that fit
 your needs
- Value of membership



Don't Hesitate to Reach Out



Mike Domin

Contract Administrator

218-895-4148

mike.domin@sourcewell-mn.gov





David Dunn david.dunn@cityoforlando.net

- Division Manager, Fleet & Facilities Management Division
- City of Orlando since 2006
- 23 years prior experience in the aerospace industry with NASA/Space Shuttle Program
- Leader in technology deployment in fleet and operations, helping Green Works goals
- Participation in several professional association, numerous professional certifications and industry recognition awards
- US Navy Veteran
- Pastor & Advocate for those diagnosed with mental illness



The Evolving World of Telematics Real-Time Information for Fleet Performance



Fleet & Facilities Management A service support Division in the Office of Business and **Financial Services** David L. Dunn, CFM **Division Manager**

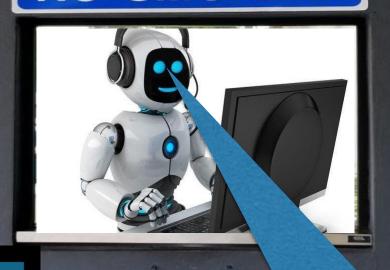
SERVICE WRITER

NO SMOKING



FLEET MANAGEMENT WILL NOT BE FOR ITEMS LEFT





SUSTAINABLE FLEET **TECHNOLOGY**

VIRTUAL CONFERENCE 2020

SERVICE WRITER HOURS: 6:00 A.M. - 3:00 P.M.

2017 2018 We knew you were coming and your mechanic will see you now in Bay 43.

100 Best Fleets

in North America

Awarded to City of Orlando

2012

2013

2014

2015

2016

2019

Evolving Telematics that provide Real-Time Information for Fleet Performance is changing the way the industry works.....



Please pull into Bay 43 and we will be happy to service your assigned Fleet Asset.

We know

you need

Hey, I have that shifter boot here for install too.

I'm ready to tackle that sticking throttle









Connected car Leadership Landscape

















Consider the evolution of Telematics!



City of Orlando



"With connected cars and smart traffic comes ever more data.

With data as the new oil, the questions over vehicle data

ownership, access and purpose increase"

Ֆ



Fleet

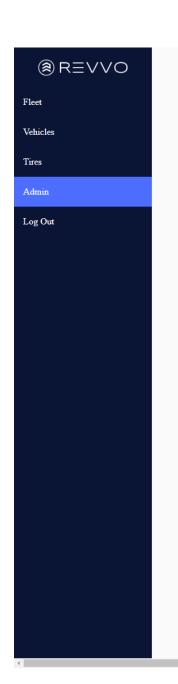
Vehicles

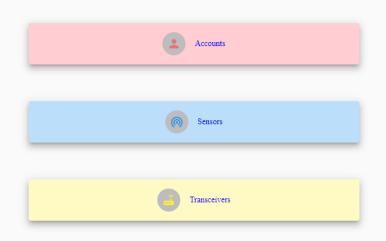
Tires

Admin

Log Out









Tire ID

-MDwViJuQUD2mIh p-ZP

 $-MDwVLxwDvkE_JkyZfDT$

-MDwX5UBd5SG6XQDBSkE

-MDwWAmmrTf5h4GangVi

-LsVgkb3xCIbw7AqsGMu

-Ls4ns7Vv4ozjSA0LUWG

-MDwZT8H2F3iM5izDdti

-MDwQrNaxpuNZTHfGC7w

-MDwXrHR-0acZPHb1Neo

-MDwYU4PazilAweeck8R

-MDwYU6ArdQBewxiOOfh

-MDwX5Vk-vKrrNSSLQHx

-Ls4nsHLtIhEHtbOHxh0

-MDyOtm-5rc3okLFX75m

-MDwQrPHQS3YSgWPtQiF

-MDwViGnRti8-33hQOE4

-Ls4nrvPOzlpjSNX5n w



Sensors

MAC Address

C0:56:26:57:77:57

C1:EB:93:FB:90:7A

C2:70:AE:E8:F4:6D

C2:91:F8:13:7B:28

C2:9B:31:53:34:5E

C2:B9:9A:2F:D6:BA

C3:07:F3:03:98:18

C3:18:0D:75:3F:50

C3:63:EB:CA:13:D3

C3:EF:30:AC:FB:F4

C4:0C:7C:24:5B:2D

C4:5E:E4:60:FD:5D

C4:AC:AE:95:78:3F

C4:C2:8A:92:56:62

C5:05:1F:52:75:60

C5:55:87:71:F0:33

C6:10:59:EC:75:F3

Vehicle ID

-MDwViK0VoqaLdVhkWuY

 $-MDwVM-drk-msW1_LaD8$

-MDwX5VsliDC2oml0uM3

-MDwWAo6CyugphHD8tY2

-LsVgkdso-Ezpmrt6RGZ

-Ls4nsBSJmcVT0hI-cY4

-MDwZTBJJt2ma_0X6mp_

-MDwQrSEgCnSTMkbS8L6

-MDwXrHW0nq17hGJmQRg

-MDwYU7UVs8N93h9DY4g

-MDwYU7UVs8N93h9DY4g

-MDwX5VsliDC2oml0uM3

-Ls4nsMa1GaaIzXt7lPo

-MDyOtnf-zJWcyKm6S3N

-MDwQrSEgCnSTMkbS8L6

-MDwViK0VoqaLdVhkWuY

-Ls4nrxyF4xSbVW015sn

Fleet

Q 🙆 🖶 III 🗦

Sensor Location

Right 3rd Axle Outer

Left 3rd Axle Outer

Right 2nd Axle Inner

Right 3rd Axle Inner

Right 3rd Axle Inner

Left 1st Axle

Right 1st Axle

Left 1st Axle

Right 3rd Axle Outer

Left 2nd Axle Outer

Right 3rd Axle Inner

Right 3rd Axle Outer

Right 2nd Axle Inner

Right 2nd Axle Outer

Right 1st Axle

Right 2nd Axle

Left 2nd Axle







Vehicles

Admin

Log Out

Tires

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	Transceivers					Q 🙆 👨	III ÷
Fleet	Transceiver ID	Manufacturer	Model	IMEI	Vehicle	Display Name	Logs
Vehicles Tires	-LsOkzkp2pxh47PcGfcl	Google	Pixel	35253108197423	-LsOluB-fuj-5jairTI2	Revvo 13	~
Admin	-LsOzk_ewLsvhOQe7zq1	Google	Pixel	35253108506350		Revvo 10	~
Log Out	-LsPgSZuqLWi-6vdQ-Zp	LGE	Nexus 5X	35362607091586		Revvo 1	~
	-Lsb7HR_WfTKmgFHaabm	Google	Pixel	35253108107917	-LsYA307DOajOtgDTIZP	Android 14	~
	-LsbXqyagoO6_IWVx3NE	Google	Pixel	35253108369910	- <u>Ls4nsMa1GaaIzXt7lPo</u>	testapp	~
	-LsblmHFNKjXSWhTuYKh	Google	Pixel	35253108369893	- <u>Ls4nsMa1GaaIzXt7iPo</u>	Revvo15	~
	-LzDiaGa1DHOpN8wn5Sf	Google	Pixel	not_supported		Revvo11	~
	-M7JUUUi6eXmh8AvLtZd	Google	Pixel 3	not_supported		[none]	~
	C0:5E:C3:90:11:AC				-MDwYGycjcjhebPSbhR5	1002794420	~
	C0:68:C1:E2:A1:85				-MDyOYVoFmRynLYpI2w5	1005651944	~
	C0:7F:86:A1:73:24				- <u>Ls4nrxyF4xSbVW015sn</u>	T2R2.10	~
	C2:EC:DB:F7:F3:8F				-MDyKvqCX9z6pB7uaXbZ	1005127890	~
4							▼



Fleet

Vehicles

Tires

Admin

Log Out

fleetId: -LMhs6sJVff55FkOwc2y vehicleId: -LsYA307DOajOtgDTIZP

Property	Value		
licensePlate	10672		
VIN	1FTEX1CP8KKC58225		
make	Ford		
model	F150		
year	2019		
vehicleDisplayType	Truck		
axleConfigurationId	default		
	Edit		



Vehicles

License Plate

9445

9985

10264

9854

10651

9503

10052

10672

XH0619

XF5062

XF5072

XF5073

XF5074

XF5067

XF5061

XG8636

XF5068

XF5066

Make

Ford

Ford

Ford

Toyota

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Ford

AUTOCAR

Model

Transit

F250

Explorer

Tundra

F150

Explorer

Xpeditor

F150

VIN

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5TFRM5F15GX106826

1FTEX1EP5KKC18729

1FM5K7B85HGB15915

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1FTEX1CP8KKC58225

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5VCACRCE6KC227561

5VCACRCE3KC227565

5VCACRCE5KC227549

5VCACRCE3KC227551

5VCACRCE1KC227564

5VCACRCE8KC227562

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SUV







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Vehicle ID

-Ls4nrnS5EQ0MuCPwpIb

-Ls4nrxyF4xSbVW015sn

-Ls4ns5T4iTWQkGCq2ox

-Ls4nsBSJmcVT0hI-cY4

-Ls4nsMa1GaaIzXt7lPo

-Ls4nsoTb3nlssGg-ZFG

-LsVgkdso-Ezpmrt6RGZ

-LsYA307DOajOtgDTIZP

-MDQYmRdoHjEj1_XHXqA

-MDwQrSEgCnSTMkbS8L6

-MDwVM-drk-msW1 LaD8

-MDwViK0VoqaLdVhkWuY

-MDwWAo6CyugphHD8tY2

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Fleet

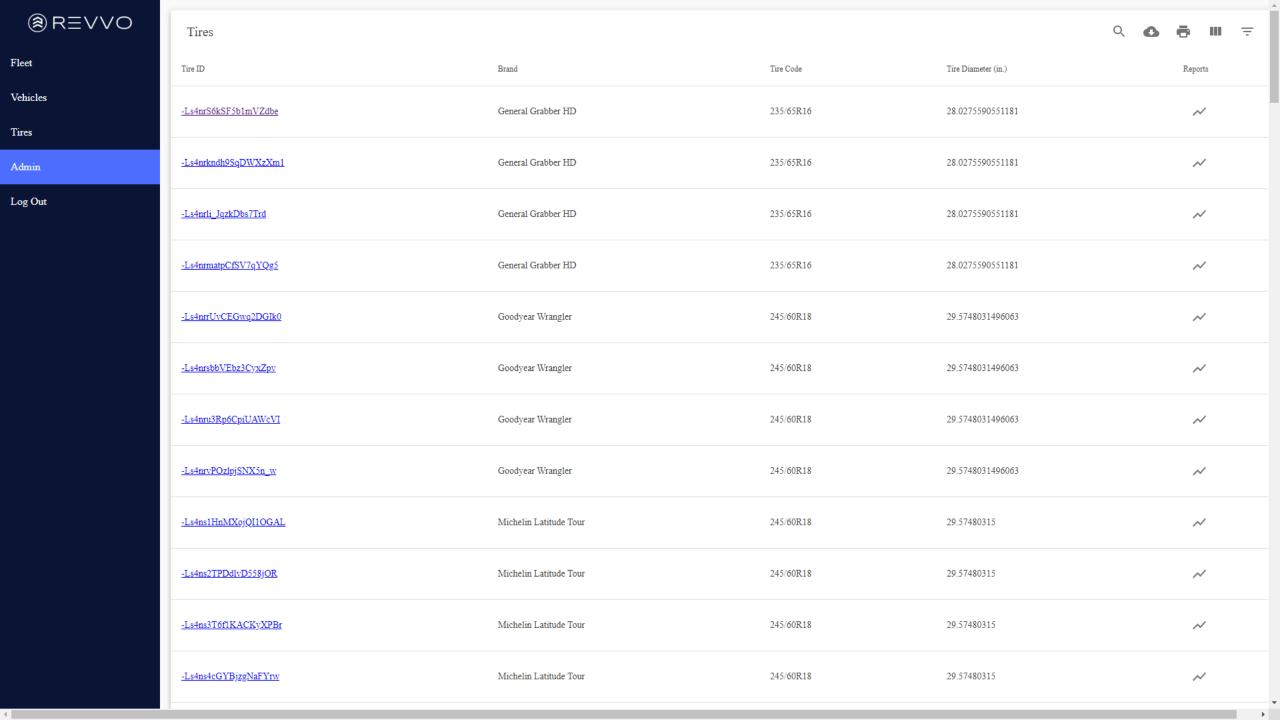
Vehicles

Tires

Admin

Log Out

÷





Fleet

Vehicles

Tires

Admin

Log Out

-Ls4nrnS5EQ0MuCPwpIb, -Ls4nrS6kSF5b1mVZdbe, LEFT_1,

Tire Management

General Grabber HD 235/65R16

Override Tire Mileage

Mileage in mi

~							
Log Measurement							
Tread Measu	rement Form						
Inner ▼							
Tread in mm	Tread in mm	Tread in mm	Tread in mm	Tread in mm			

Value

Current Status

Log Tread

Vehicle: 9445

Location: LEFT_1

Tire History

Timestamp Type Vehicle ID New Location

Vehicle History

1/22/20 14:41:27 pm

Timestamp	Туре	Location(s)
10/28/19 20:16:48 pm	TRANSCEIVER_REPLACEMENT	
10/30/19 0:13:27 am	TRANSCEIVER_REPLACEMENT	
11/1/19 9:46:38 am	TRANSCEIVER_REPLACEMENT	
1/22/20 14:28:48 pm	TRANSCEIVER_REPLACEMENT	

TRANSCEIVER REPLACEMENT



11/1/19 9:46:38 am

1/22/20 14:20:40

Fleet

Vehicles

Tires

Admin

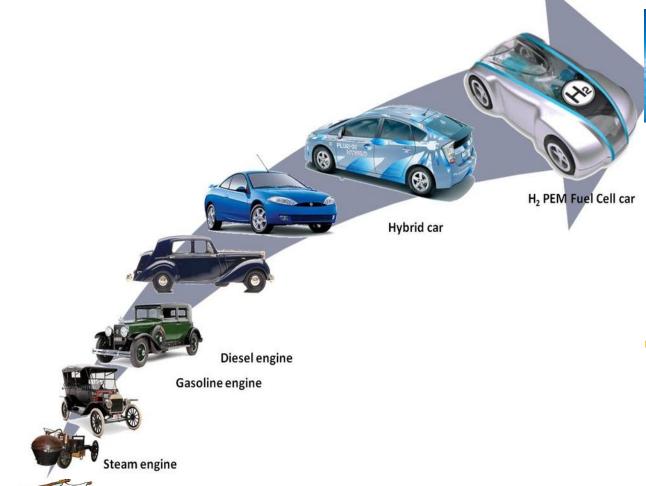
Log Out

-Ls4nrnS5EQ0MuCPwpIb, -Ls4nrS6kSF5b1mVZdbe, LEFT_1, Tire Management So many options you can monitor. General Grabber HD 235/65R16 Override Tire Mileage Mileage in mi Fleet knows about low tire pressure, Inner wear issues, wear patterns and so much more in advance of vehicle Center Outer Center PM's or Demand Work. Outer Log Tread This helps us determine other issues Current Status Vehicle: 9445 associated with vehicles and where Location: LEFT 1 Tire History Timestamp to look for diagnosis of worn parts, Vehicle History Timestamp often before the drivers notice. 10/28/19 20:16:48 pm 10/30/19 0:13:27 am TRANSCEIVER REPLACEMENT

TRANSCEIVER_REPLACEMENT

to George Jetson

Consider The evolution of cars



from Fred & Barney



with a stop in Dubai via an Autonomous Flying Taxi

The future has Arrived!

City of Orlando

Fleet & Facilities Mgmt
A service support Division
in the Office of Business
and Financial Services



1010 S. Westmoreland Drive Orlando, Florida 32805 407.246.3873 Office 321.231.2904 Cell david.dunn@cityoforlando.net



David L. Dunn, CFM
Division Manager



www.cityoforlando.net/greenworks/







Drew Newstrom

<u>Dnewstrom@FortLauderdale.gov</u>

954-828-5710

- Automotive & Equipment Specialist, City of Fort Lauderdale
- Previously worked at Enterprise in Rental, Fleet Maintenance, and Fleet Management
- BS in Biochemistry from University of Nebraska



CITY OF FORT LAUDERDALE

How to Improve Fleet Sustainability

Sandy Leonard, CAFM Program Manager, Fleet Services

Drew Newstrom Automotive & Equipment Specialist

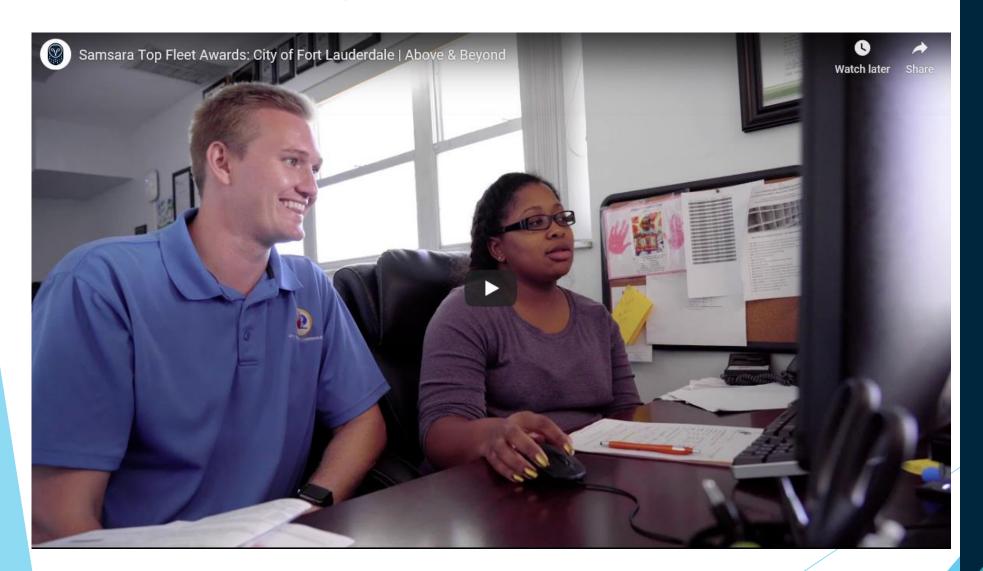




Quick facts

- ▶ 180,000 citizens
- Over 12 million visitors annually
- Fleet of 1,700+ vehicles including public works, police, fire, and more
- ► 115 hybrids
- ▶ 17 electrics

"Above & Beyond" Award



TOP FLEET **AWARD** 2019

ABOVE & BEYOND City of Fort Lauderdale

ACHIEVEMENT HIGHLIGHTS

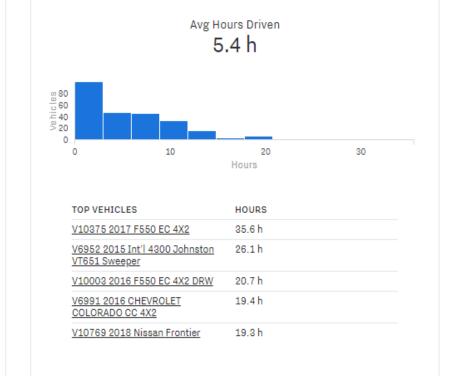
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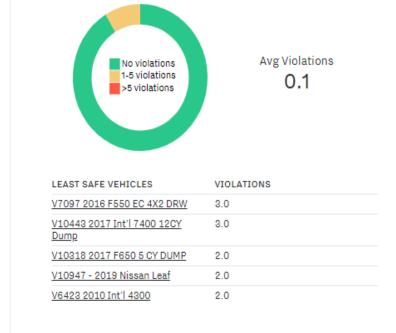
28%

24%

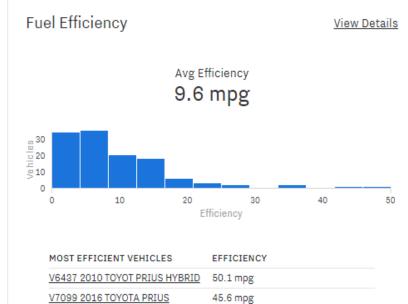














Tracking Over-Weight Limit Vehicles

- Geofences and alerts for increased visibility
- Reduced over-weight vehicles crossing historic bridge by 90%





Improved Citizen Response

- Real-time fleetwide GPS tracking
- Power Take-Off (PTO monitoring) -
- ► Enhanced clean-up after natural disasters
- Improved dispatch & communication with residents





Tracking of Real Time Operation

- Lack of information about fleet performance and operation
- Visibility into the tractors cleaning the seaweed off the beach each morning
- We know where, when, and how fast the streetsweepers were traveling as they clean
- See when claw trucks picked up debris at each house
- Used in Accident Review Committee to verify accidents and to learn ways to mitigate accidents



V6978 2014 Int'l 4300 Wayne Gladiator Sweeper

Sweeper

4h 55m

45%

29 mi

V6978 2014 Int'l 4300 Wayne Gladiator Sweeper

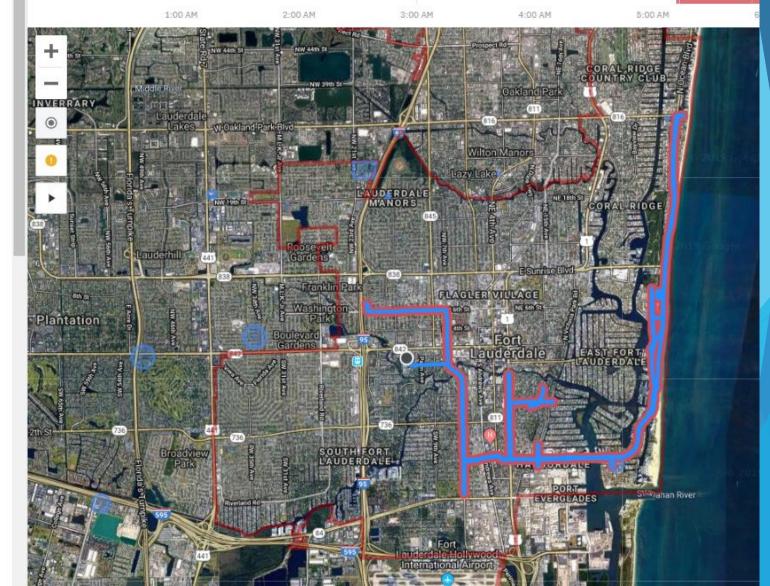
2016 INTERNATIONAL MA025



▼ Live Share

2 mph (25 limit)

Connected hotspot clients	0
VIN	1HTMMAAN7GH001358
Fuel	59%
Engine check light	Off
Odometer	20,109 mi
Engine	Running
Ambient Air Temp	122°F
Barometer	14.72 Psi
Battery Voltage	13.85 V
Coolant Temp	181.4°F
Engine Load	37 %
Engine Speed	703 RPM
Manifold Temp	228.2°F
Oil Pressure	24.95 Psi
Sweeper	Off
Gateway	GG4A-A2N-ZUW



Temperature Sensors

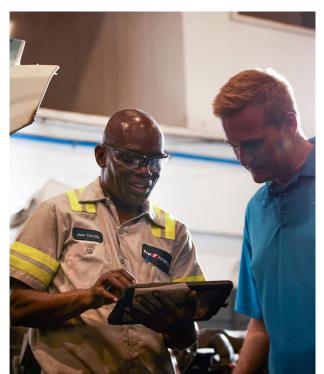
- Alert the officer before we have a "hot dog"
- Used in Ambulances to keep medications at the proper temperature
- Check temperatures across the city (pending)





Maintenance

- Allows us to be proactive
- We can see if dealers are really working on our vehicles.
- Reduced downtime by 28%
- ≥ 24% fewer vehicles are out of service



V6089 2008 WORKHORSE W42 Plant A Street View 2 ◀ Live Share Connected hotspot clients VIN 5B4KPD27483431849 Fuel 95% Engine check light Stop, Warning, Protect, and Emissions Odometer 41,555 mi Engine Off Gateway G9KJ-YVY-PAA 1 ENGINE FAULT TxId: 33 SPN: 98 - Engine Oil Level FMI: 1 (Low-

most severe) Count: 1

Safety Improvements

- Safety Score Includes:
 - ▶ Total Harsh Events
 - Breaking
 - **Turns**
 - Acceleration
 - ► Total Miles Driven
 - ▶ Total Time Driven
 - ► Time <u>Over</u> Speed Limit



- Recovered stolen vehicle
- Saved a life

FW: Samsara Saves a life

Drew Newstrom

Sandy,

I just wanted to let you know that last Friday, Samsara helped us save a life. One of my Meter Shop staff was late for a meeting with his supervisor. We were unable to reach him by phone. The supervisor used Samsara to locate his City vehicle and went to investigate. Upon arrival, the supervisor found the employee unconscious in his vehicle and called 911. He was taken to Holy Cross hospital where he was admitted.

It is frightening to think what may have happened to him if we couldn't locate him with Samsara.

Thanks!

Rick Johnson | Utilities Distribution & Collection Systems Manager



Looking Ahead

- Tracking Electric Vehicle charge and diagnostics
- Monitor temperatures throughout city
- Fix "dead spots" around city
- Driving sustainability initiatives
- Live Sharing links for public tram
- Add Waze Beacon through tunnel to allow continual GPS tracking

Questions?

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 - > 954-828-5781

- ► Drew Newstrom: <u>Dnewstrom@FortLauderdale.gov</u>
 - > 954-828-5710



Session 5: The Evolving World of Telematics Real-Time Information for Fleet Performance

August 26, 2020



