



# Location Intelligence Services



**IDA**

*Imagine. Deploy. Achieve.*

**Situational Awareness ✦ Next Gen Location Services**

# Overview

Core Components

Next Gen Functionalities

Implementation Models

Use Cases

Reports



# Core Components

# Core Components

Asset Data

Location

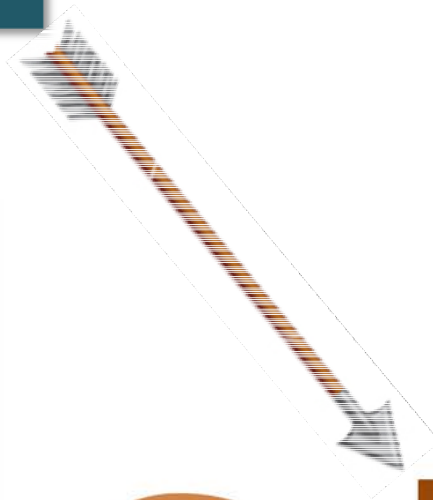
Visualization & Analytics



# The End Goal



## Assets



## Actionable Intelligence

A futuristic cityscape with flying cars and a central tower, overlaid with an orange banner containing the text "Next Gen Functionality". The scene is set in a bright, sunny environment with a clear blue sky. In the foreground, a man is walking a dog on a paved path next to a futuristic, sleek, silver car. The background features a central tower with a circular observation deck and a spiral ramp, surrounded by other modern buildings and flying vehicles. The overall aesthetic is clean, modern, and technologically advanced.

# Next Gen Functionality

# Next Gen Functionality

Location Services  
Is All About

**Asset DATA**



# Sources of Data

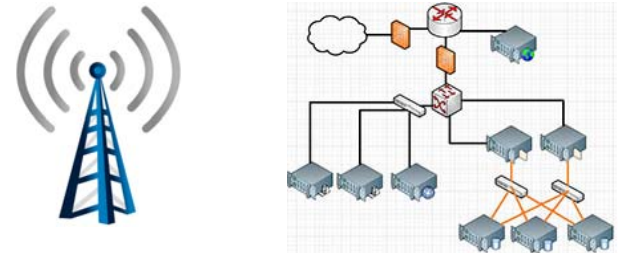
## Assets



## Sensors



## Network



## Enterprise





# Next Gen Functionality



# Introducing TiDE

Unparalleled

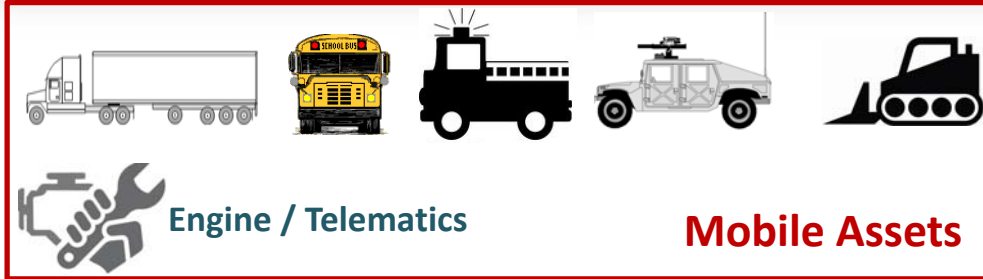
Data

Transformation

Software



# TiDE at Work



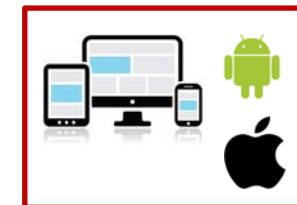
## CAD & Enterprise Systems



## Mapping Systems



## Smart Devices



## LMR

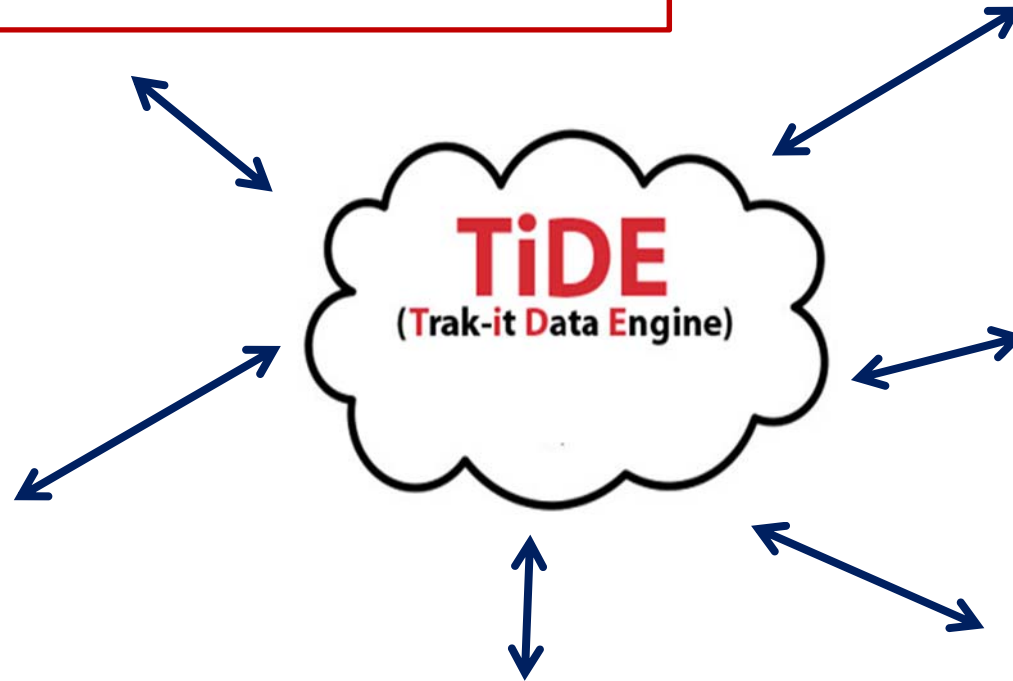
### Analog

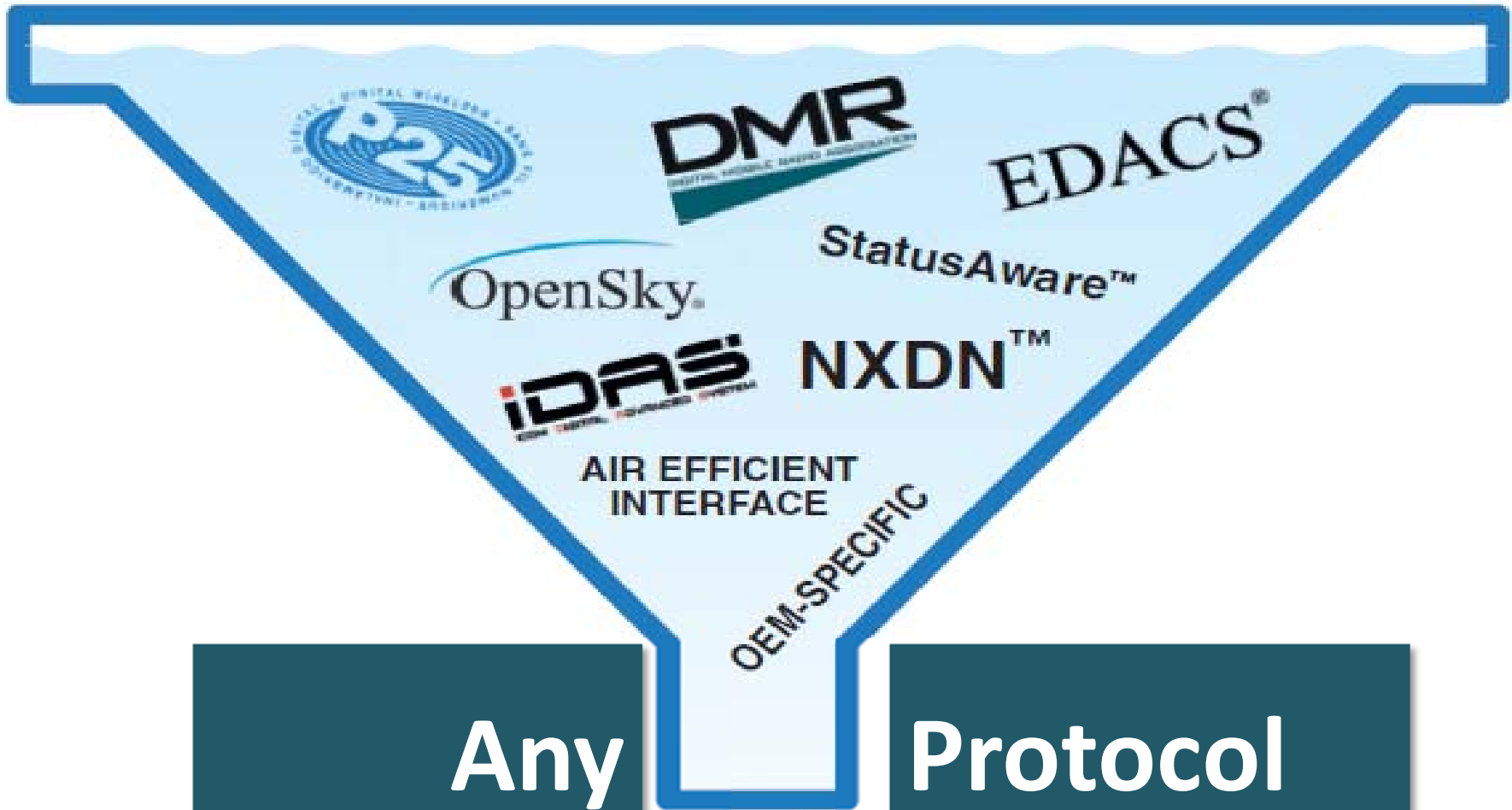


### Digital



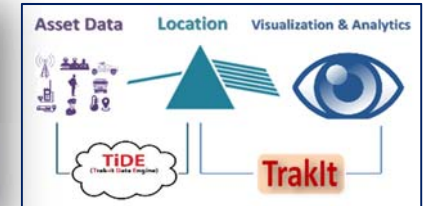
## Sensors





**TiDE**

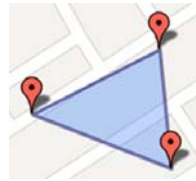
# Visualization & Analytics



Sensor Integration



Geofence



Breadcrumb Trails



Visual Engine



Database Driven

# Trakt



Alerts / Triggers



Browser Based



Device Friendly



Network Agnostic



Custom Reports

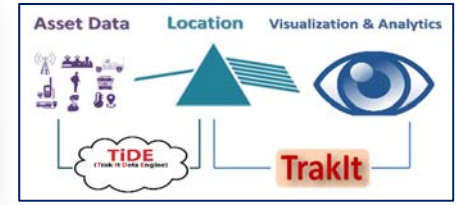
# Next Gen Functionalities



# Interoperability



# Next Gen Functionalities



# Power of Choice

Mapping Engine

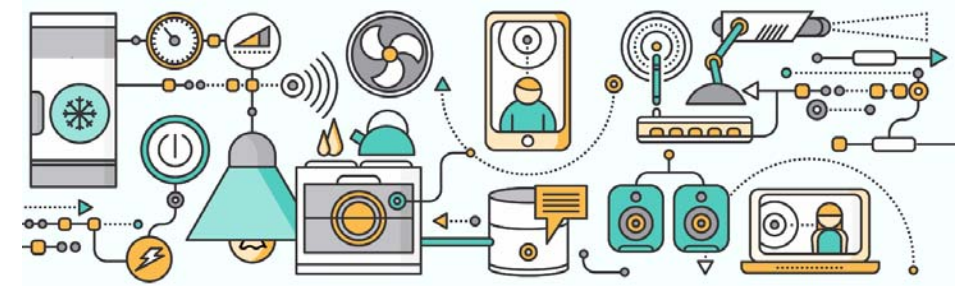


E911

Network



Any Device



# 3-Tier Redundancy

## Network



Multiple Cellular Carriers



LMR Network

## Software



KEYS Cloud



Premise Hosted

## Hardware

Backup Inventory



Multiple Products for  
Different Networks



# Location Services Redefined



**Intelligence**



**Analytics & Visualization**



A photograph of a city skyline at sunset. In the foreground, there are several construction cranes and buildings under construction. The middle ground shows a dense cluster of skyscrapers, including the Burj Khalifa. The background is a dramatic sky with orange and yellow clouds. The text "Implementation Models" is overlaid in white on a dark blue semi-transparent background.

# Implementation Models

# Implementation Models

## Private Cloud



*(Client Cloud)*



**TraktIt-in-a-Box**

A close-up photograph of a police car's roof-mounted emergency lights. The lights are red and appear to be flashing. In the background, several police officers in dark uniforms and helmets are visible, standing in a line. The scene is set outdoors, possibly at a public event or a police station. The overall lighting is somewhat dim, suggesting an evening or overcast day.

# Use Cases

# Use Case

## Equipment

## Personnel

# P25 Multi Agency Infrastructure

## Vehicles

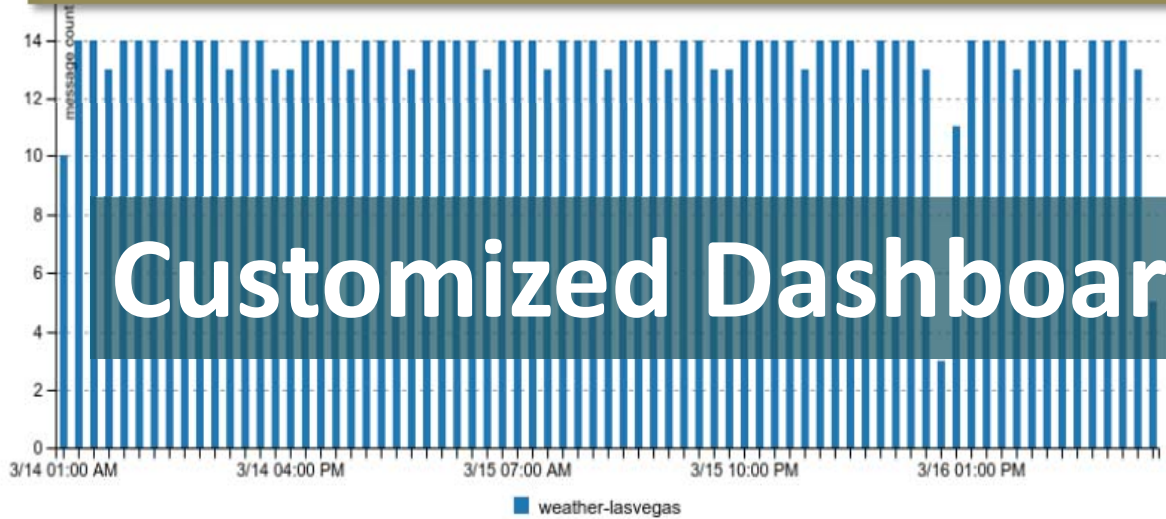
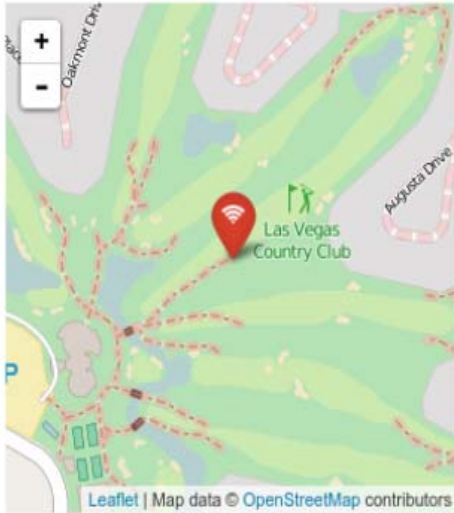
## Sensors



Summary

Data Charts

# Public Safety



## Customized Dashboard

ID	81
Status	active
Visible	true
fixedLatitude	36.13531
fixedLongitude	-115.14528

Name	Group	Device Address	Speed	Altitude	Marker	Timestamp	Status	Visible	
GA Tr (RF Gateway)		10.0.2.143.143	0	0		2025/03/14 12:14 pm 20 sec ago	Active	<input checked="" type="checkbox"/>	<a href="#">Delete Item (Confirm Message)</a>
NP1 (GPS)		10.0.2.143.143	0	0		2025/03/14 12:13 pm 20 sec ago	Active	<input checked="" type="checkbox"/>	<a href="#">Delete Item (Confirm Message)</a>
NP2 (GPS)		10.0.2.143.143	0	0		2025/03/14 12:12 pm 20 sec ago	Active	<input checked="" type="checkbox"/>	<a href="#">Delete Item (Confirm Message)</a>

+ 16 events for 12 assets

Humidity

21%



Pressure

1015atm



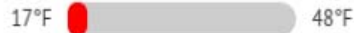
Temperature (Real)

60.4°F



Dew Point (°F)

19.8°F



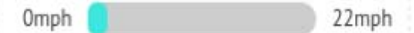
Temperature (Apparent)

60.4°F



Wind Speed

1.9mph



Ozone

281.8



Wind Bearing (degrees)

281°



Cloud Cover













7%



Use Case

# Public Safety

## Customized Dashboard

Name ↑	Group	Device Address	Speed	Altitude	Marker	Timestamp	Status	Visible	
IDA Tir (NEP Gateway)		10.0.0.244:5683	0	0		 2/27/16 12:14 pm (a few seconds ago)	Active	✓	  <a href="#">Create New Command Message</a>
NEP 1 (067B)		067B264351394D5120	0	0		 2/27/16 12:13 pm (a few seconds ago)	Active	✓	  <a href="#">Create New Command Message</a>
NEP 2 (D9F0)		D9F0728B51394D5120	0	0		 2/25/16 9:50 pm (2 days ago)	Active	✓	  <a href="#">Create New Command Message</a>

Use Case

# EMS



# Use Case

# US Forest Service





Use Case

# Forest Service



# Use Case



# US Marshals Service



Use Case

# US Marshals Service



# Use Case

# US Armed Forces



Use Case

# US Armed Forces

## Combat Readiness Training



# Use Case

A photograph of several high-voltage electrical transmission towers (pylons) silhouetted against a sunset sky. The towers are arranged in a line, receding into the distance. The sky is a mix of orange, yellow, and blue, with some clouds. The text "Electric Utility" is overlaid in white on a semi-transparent dark grey rectangular background.

# Electric Utility

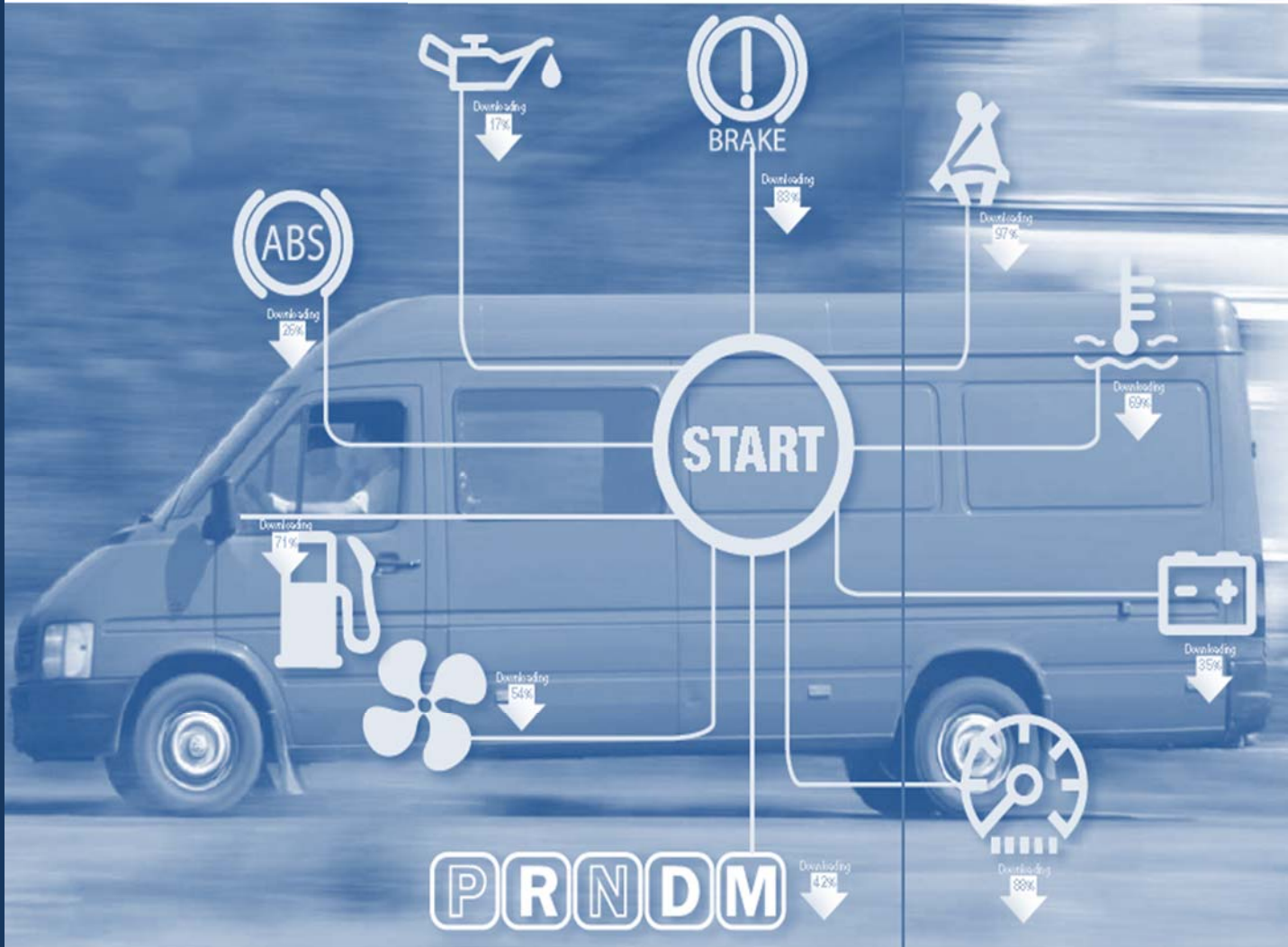
Use Case

# Electric Utility



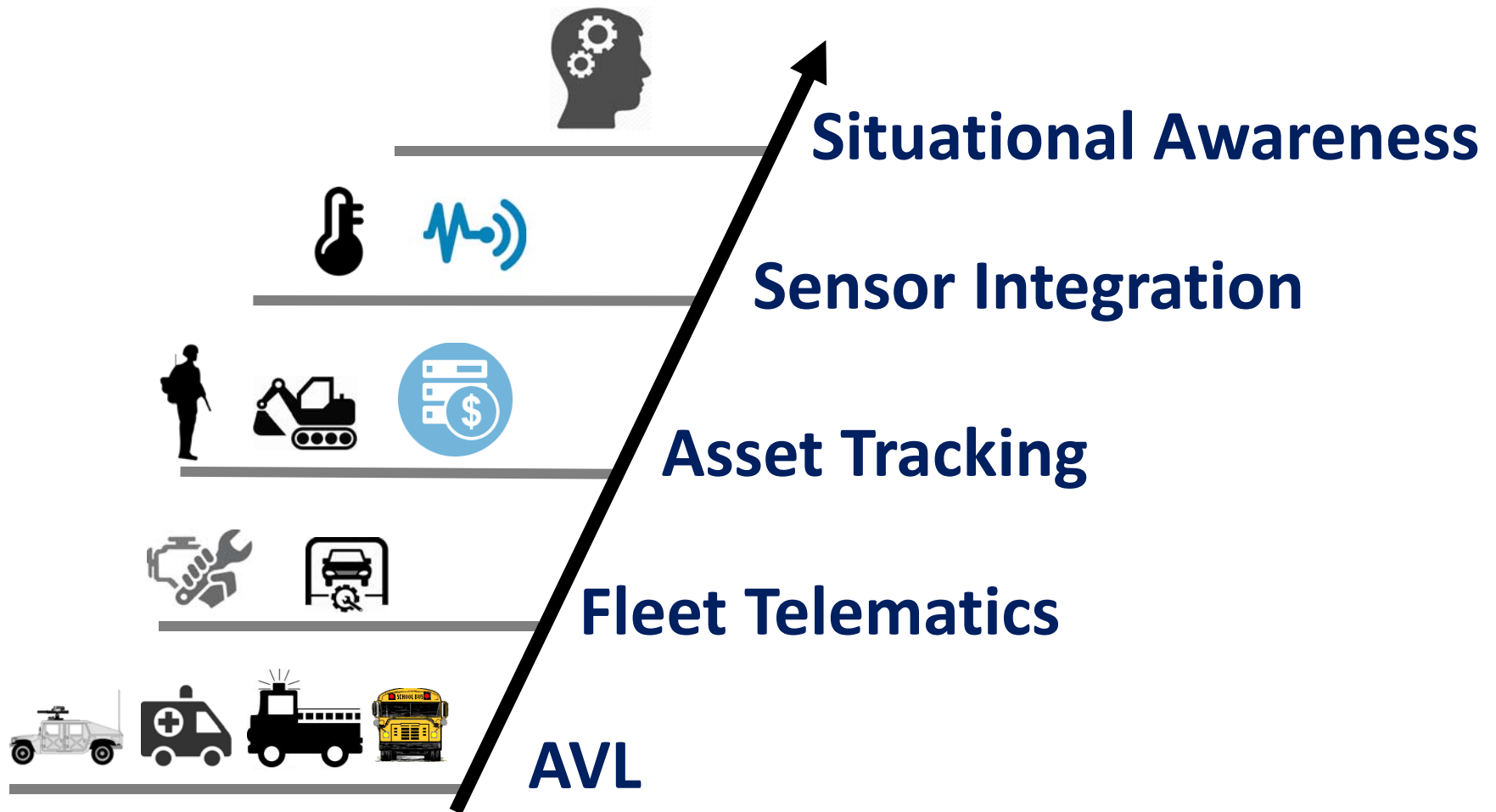
Use Case

# Fleet Telematics





# The Future



# Situational Awareness



Track

Monitor

Manage

NEP

NEP



# Situational Awareness

**Incidence Reporting**

**Response Coordination**

**Inter-Agency Integration**

**Aerial Surveillance**

**LTE Interoperability**

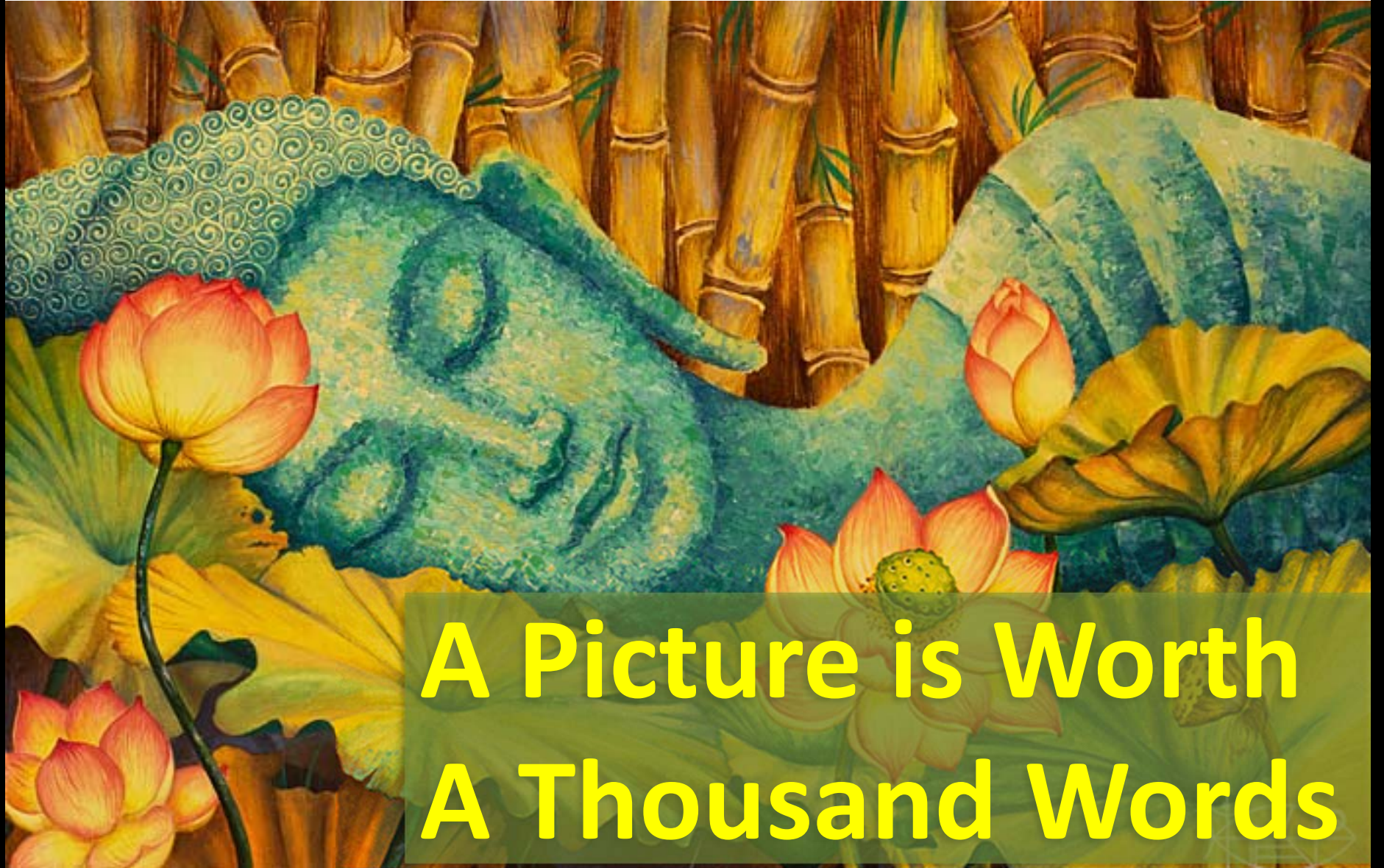
**Ambiance  
Monitoring**

**Social Media  
Engagement**

**Situational  
Awareness**

# Aerial Surveillance





**A Picture is Worth  
A Thousand Words**



# Reports Classification



## Daily Activity Reports

## Optimization / Efficiency Reports

## Violations / Trigger Reports

## Fleet / Telematics Reports



# Reports Classification



## Daily Activity Reports

## Optimization / Efficiency Reports

## Violations / Trigger Reports

## Fleet / Telematics Reports

Time

Custom

Start Time

04/28/2016

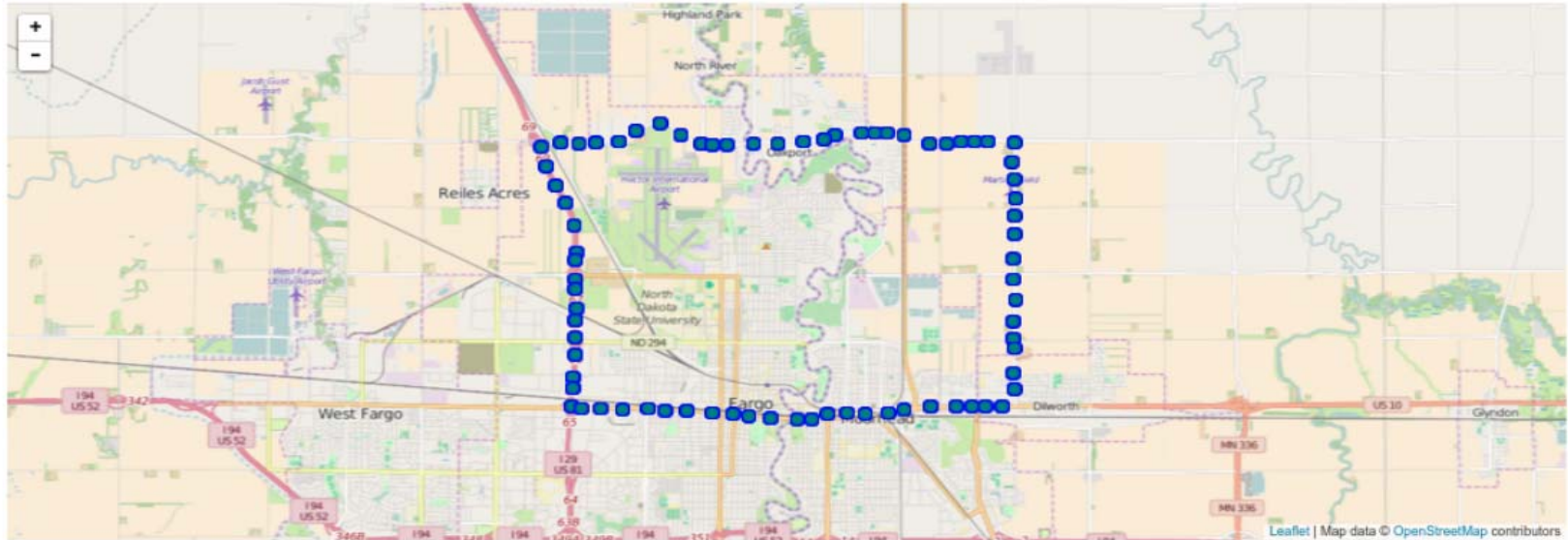
End Time

04/28/2016

### Daily Activity for `IDA Automobile (AVL)`

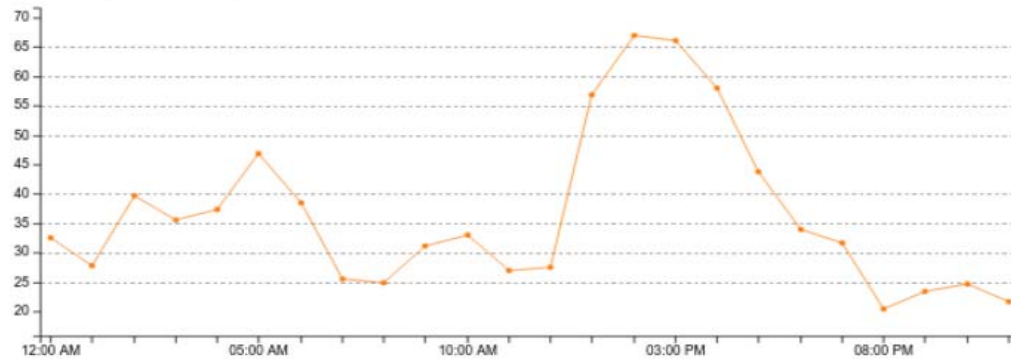
From: 4/28/16 12:00 am to 4/28/16 11:59 pm

# Asset Daily Activity Details



Statistic	Value
Start Time	4/28/16 12:00 am
End Time	4/28/16 11:59 pm
Operating Time	23.98 hours
Max Speed	80 MPH
Total Distance	425.04 miles
Number of Stops	0
Total Stop Time	0
Avg Stop Time	0
Travel Time	23.98 hours

### Vehicle Speed (mph)





 IDA - OpenSky-Trakit-25C 2-31 

<b>Date</b>	06/17/16
<b>Time</b>	8:16 am 4 hours ago
<b>Speed</b>	0
<b>Data</b>	
<b>Location (approximate)</b>	1801 38th St S, Fargo, ND 58103, USA
<b>Lat, Lng</b>	46.851716666666666, -96.842599999999999


Analog Radio Asset on Harris  
Network (OpenSky protocol)



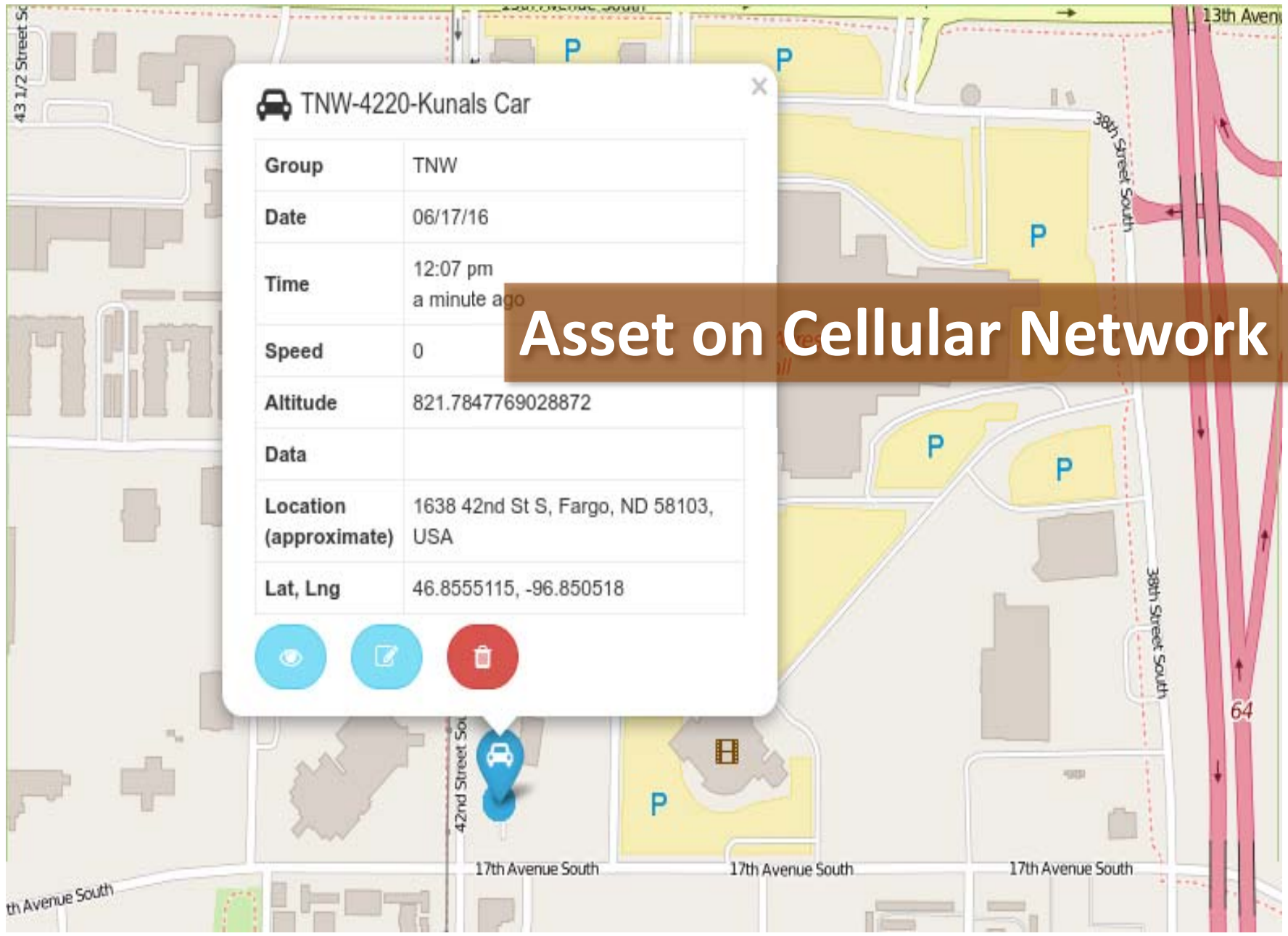
38th Street South



# Asset on Cellular Network

 TNW-4220-Kunals Car

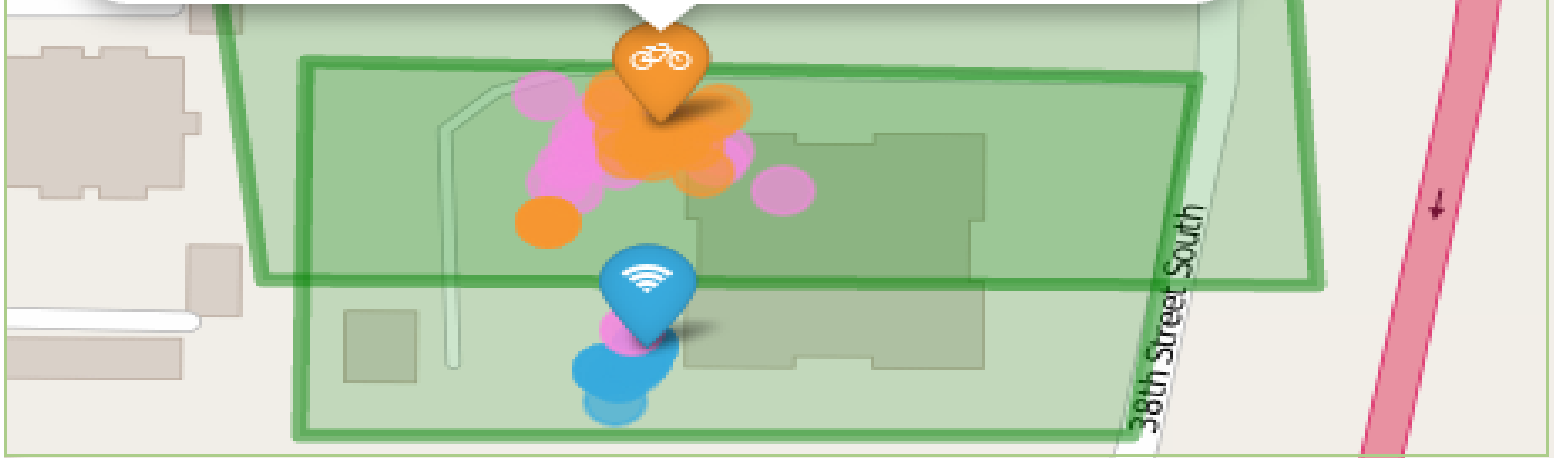
Group	TNW
Date	06/17/16
Time	12:07 pm a minute ago
Speed	0
Altitude	821.7847769028872
Data	
Location (approximate)	1638 42nd St S, Fargo, ND 58103, USA
Lat, Lng	46.8555115, -96.850518



 TNW-4220-Dave ✕

<b>Group</b>	TNW
<b>Date</b>	06/17/16
<b>Time</b>	12:06 pm a minute ago
<b>Speed</b>	0.0
<b>Altitude</b>	829.1010498687665
<b>Data</b>	
<b>Location (approximate)</b>	1801 38th St S, Fargo, ND 58103, USA
<b>Lat, Lng</b>	46.852006, -96.84255710000001

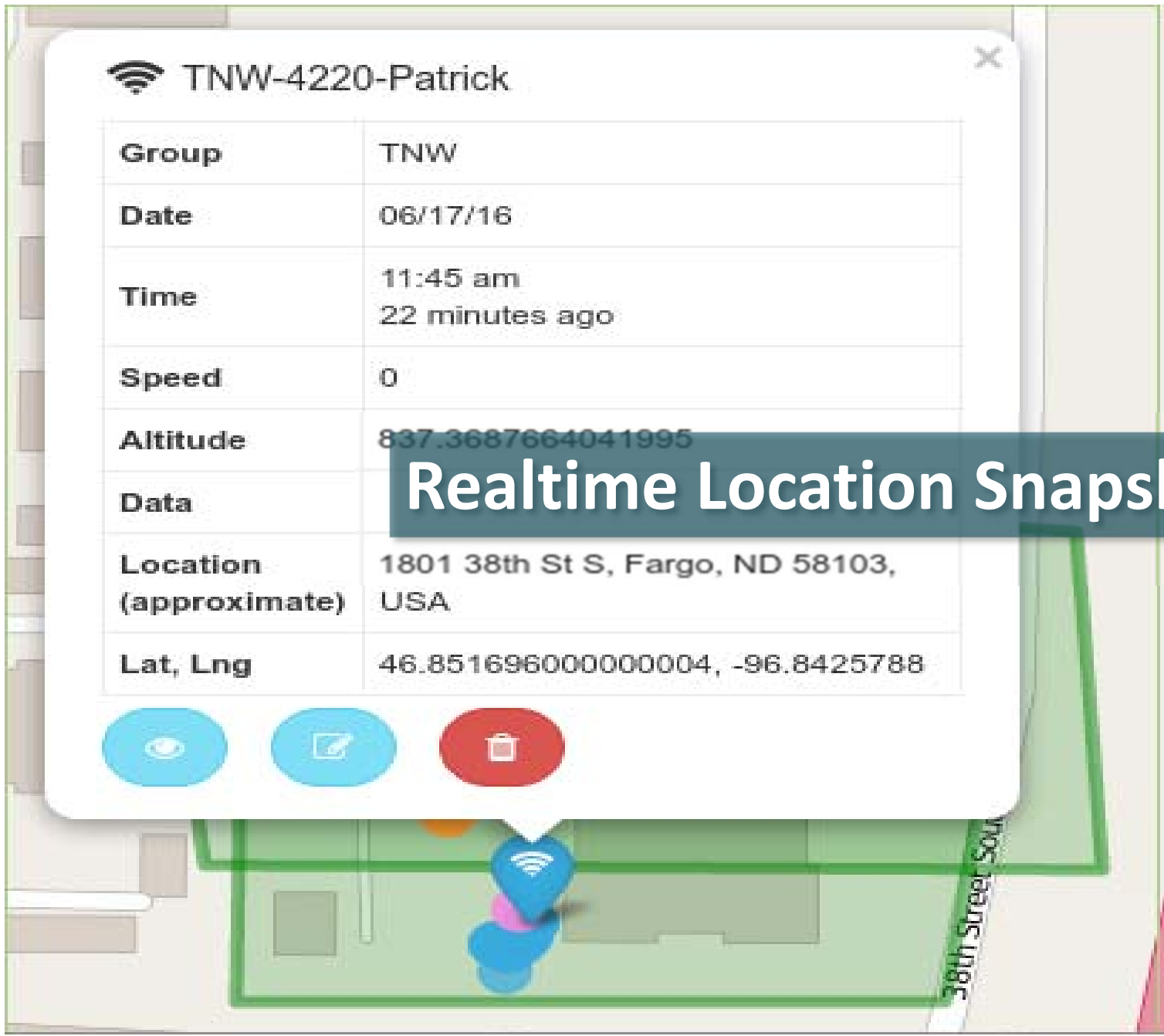
# Realtime Location Snapshot



 TNW-4220-Patrick ✕

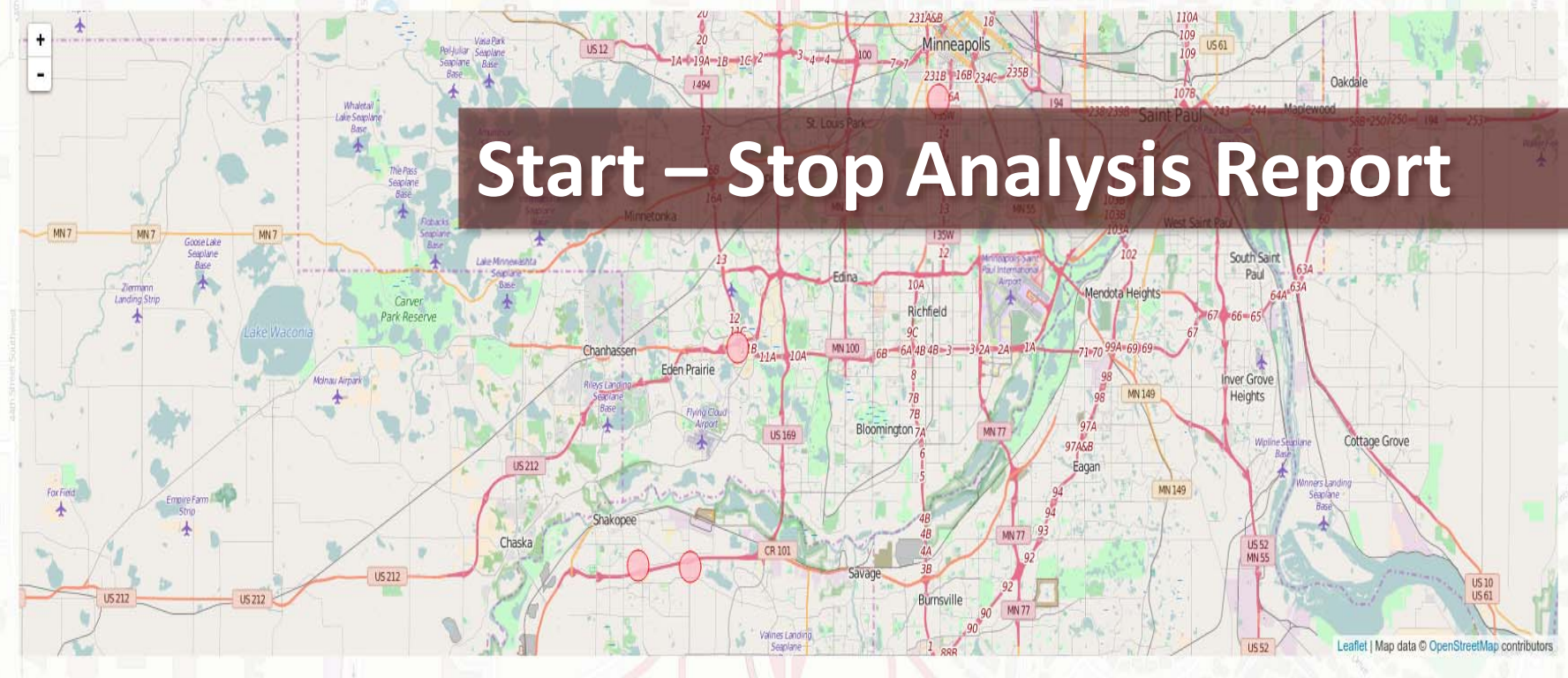
<b>Group</b>	TNW
<b>Date</b>	06/17/16
<b>Time</b>	11:45 am 22 minutes ago
<b>Speed</b>	0
<b>Altitude</b>	837.3687664041995
<b>Data</b>	
<b>Location (approximate)</b>	1801 38th St S, Fargo, ND 58103, USA
<b>Lat, Lng</b>	46.8516960000000004, -96.8425788

## Realtime Location Snapshot



# Stops Report

From: 6/11/16 12:00 am to 6/11/16 11:59 pm

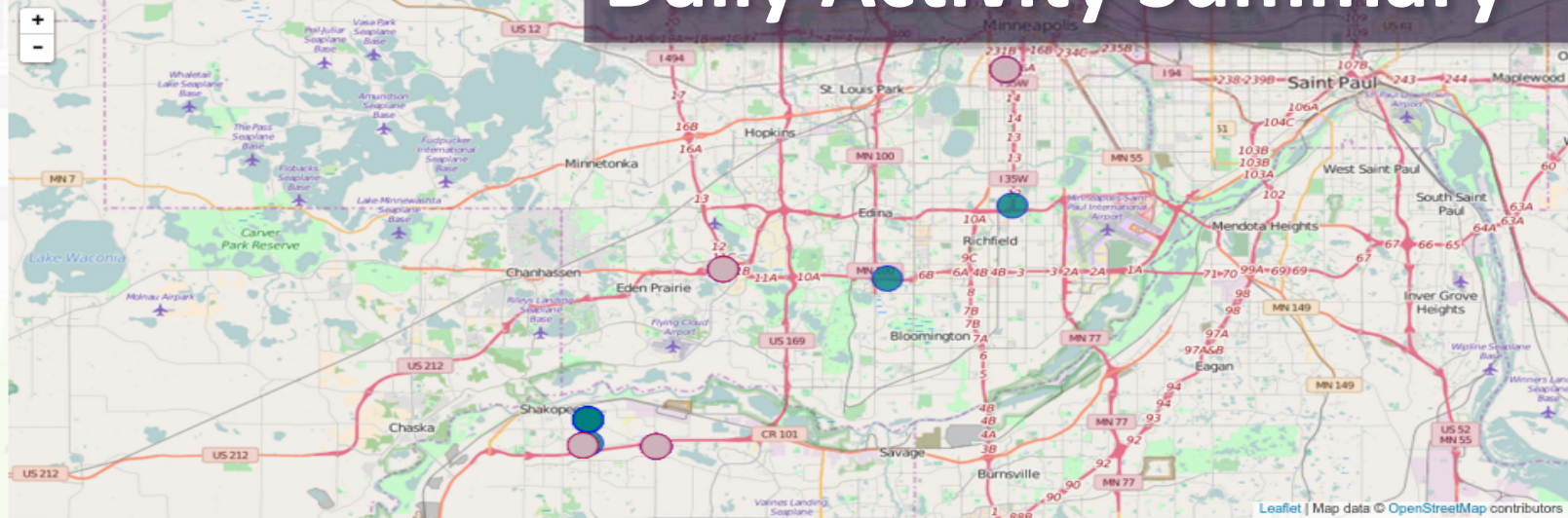


Index	Asset	Latitude	Longitude	Location	Stop's start time	Stop's end time	Duration
1	TNW-4220-Patrick	44.78	-93.469	4051 Dean Lakes Blvd, Shakopee, MN 55379, USA	6/11/16 1:33 pm	6/11/16 1:56 pm	23 min
2	TNW-4220-Patrick	44.863	-93.432	12160 Technology Dr, Eden Prairie, MN 55344, USA	6/11/16 2:10 pm	6/11/16 2:46 pm	36 min
3	TNW-4220-Patrick	44.956	-93.279	2541 Blaisdell Ave, Minneapolis, MN 55404, USA	6/11/16 3:10 pm	6/11/16 5:56 pm	2 hours, 46 min
4	TNW-4220-Patrick	44.781	-93.509	1136 Vierling Dr E, Shakopee, MN 55379, USA	6/11/16 6:27 pm	6/11/16 6:46 pm	19 min

## Daily Activity Report

From: 6/11/16 12:00 am to 6/11/16 11:59 pm

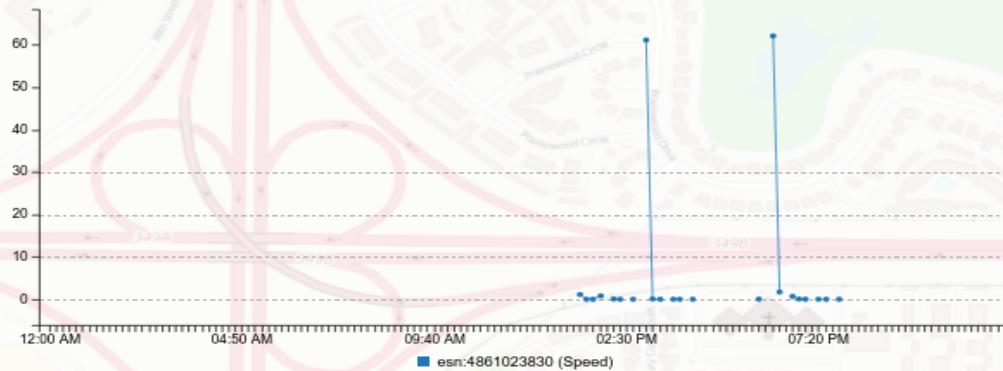
# Daily Activity Summary



Statistic	Value
Total Number of Messages	31
Start Time	6/11/16 1:22 pm
End Time	6/11/16 7:51 pm
Operating Time	6 hours, 28 min
Total run Time	2 hours, 30 min
Total Off Time	N/A
Total Idle Time	N/A
Total Travel Time	2 hours, 30 min
Number of Stops	4 stops
Total Stop Time	3 hours, 58 min
Avg Stop Time	59 min
Avg Travel Time	30 min
Max Speed	62.07 MPH
Total Distance	38.45 miles

[Download CSV](#)

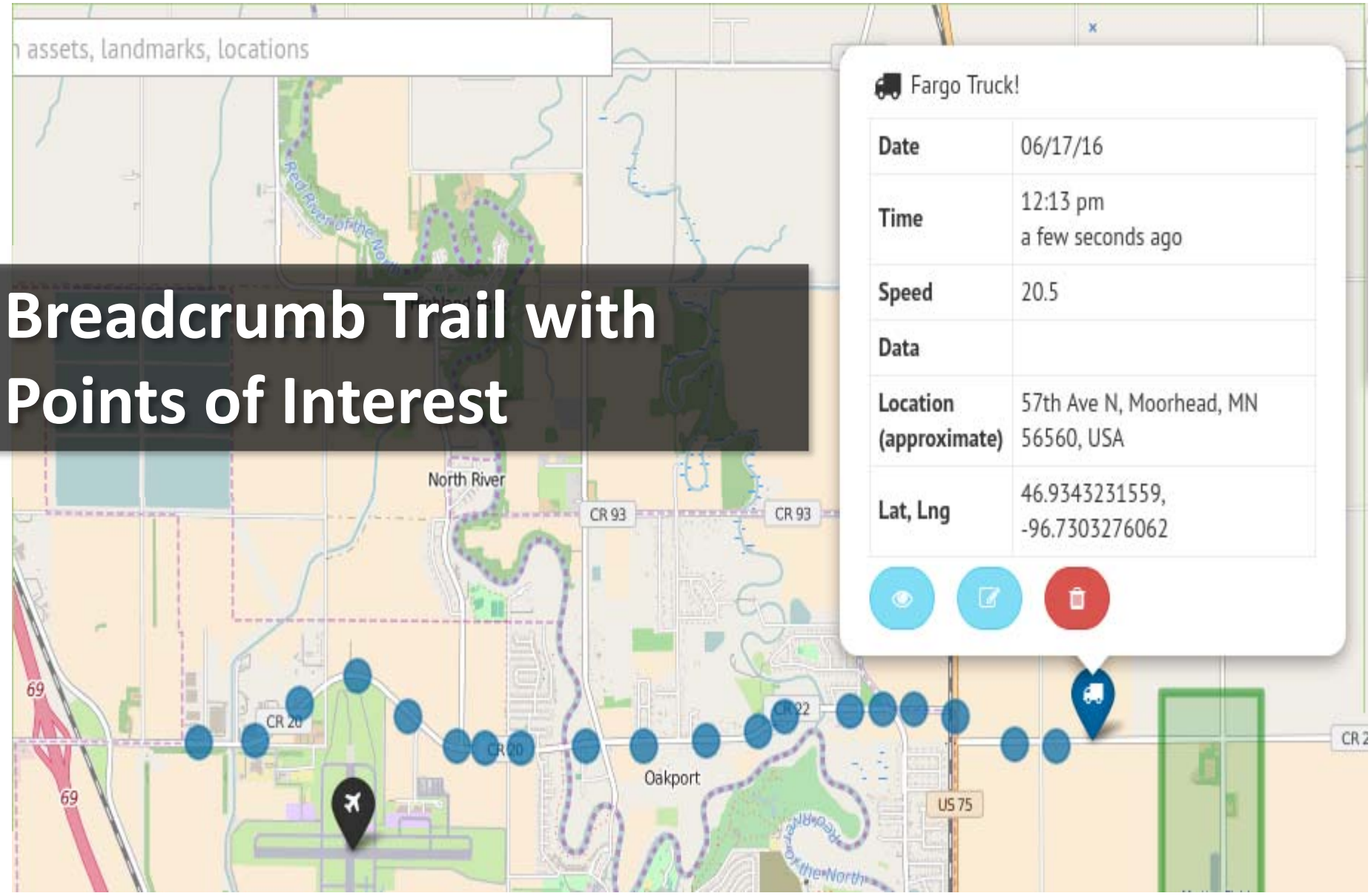
### Speed



Leaflet | Map data © OpenStreetMap contributors

h assets, landmarks, locations

# Breadcrumb Trail with Points of Interest




 Fargo Truck!

Date	06/17/16
Time	12:13 pm a few seconds ago
Speed	20.5
Data	
Location (approximate)	57th Ave N, Moorhead, MN 56560, USA
Lat, Lng	46.9343231559, -96.7303276062






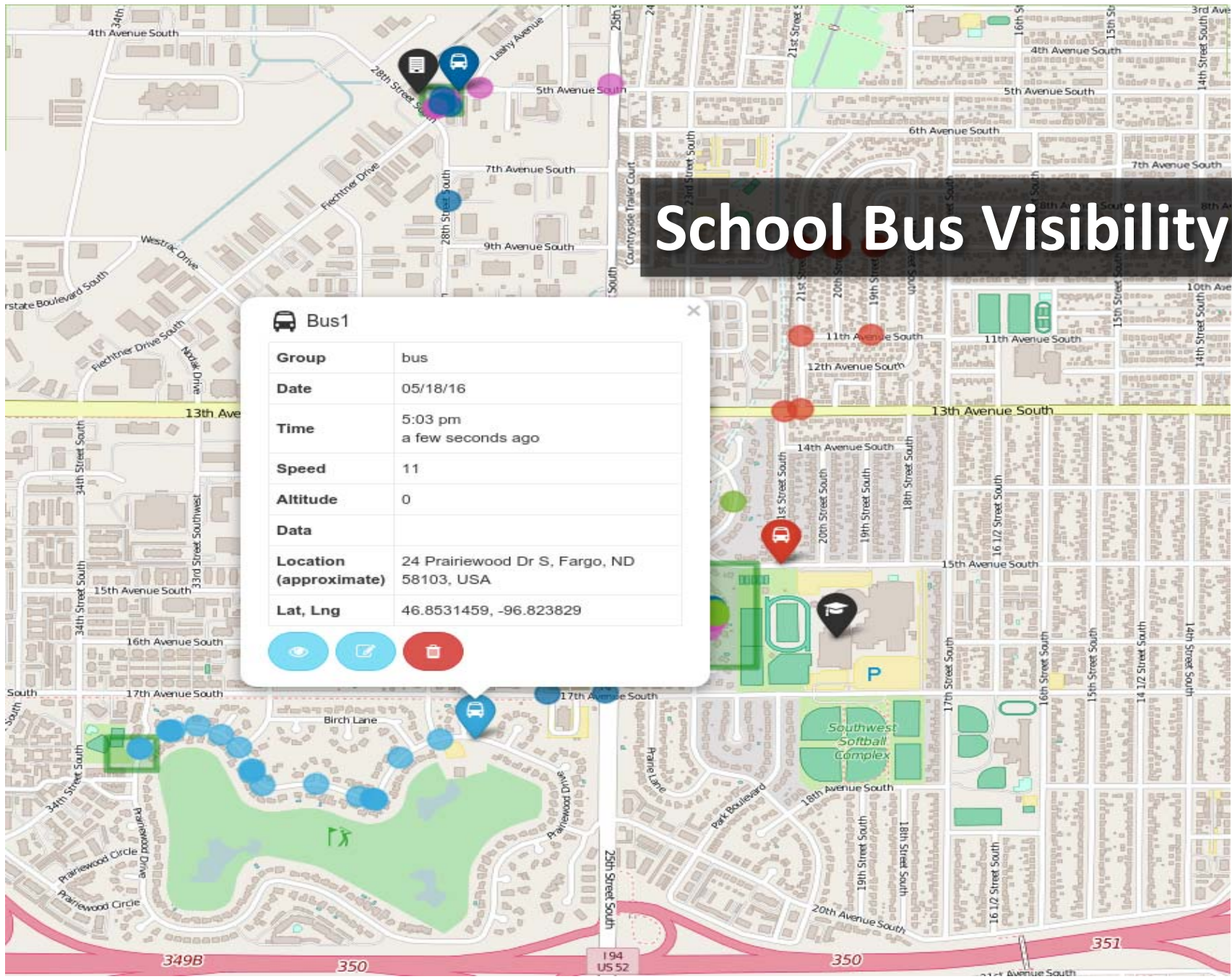


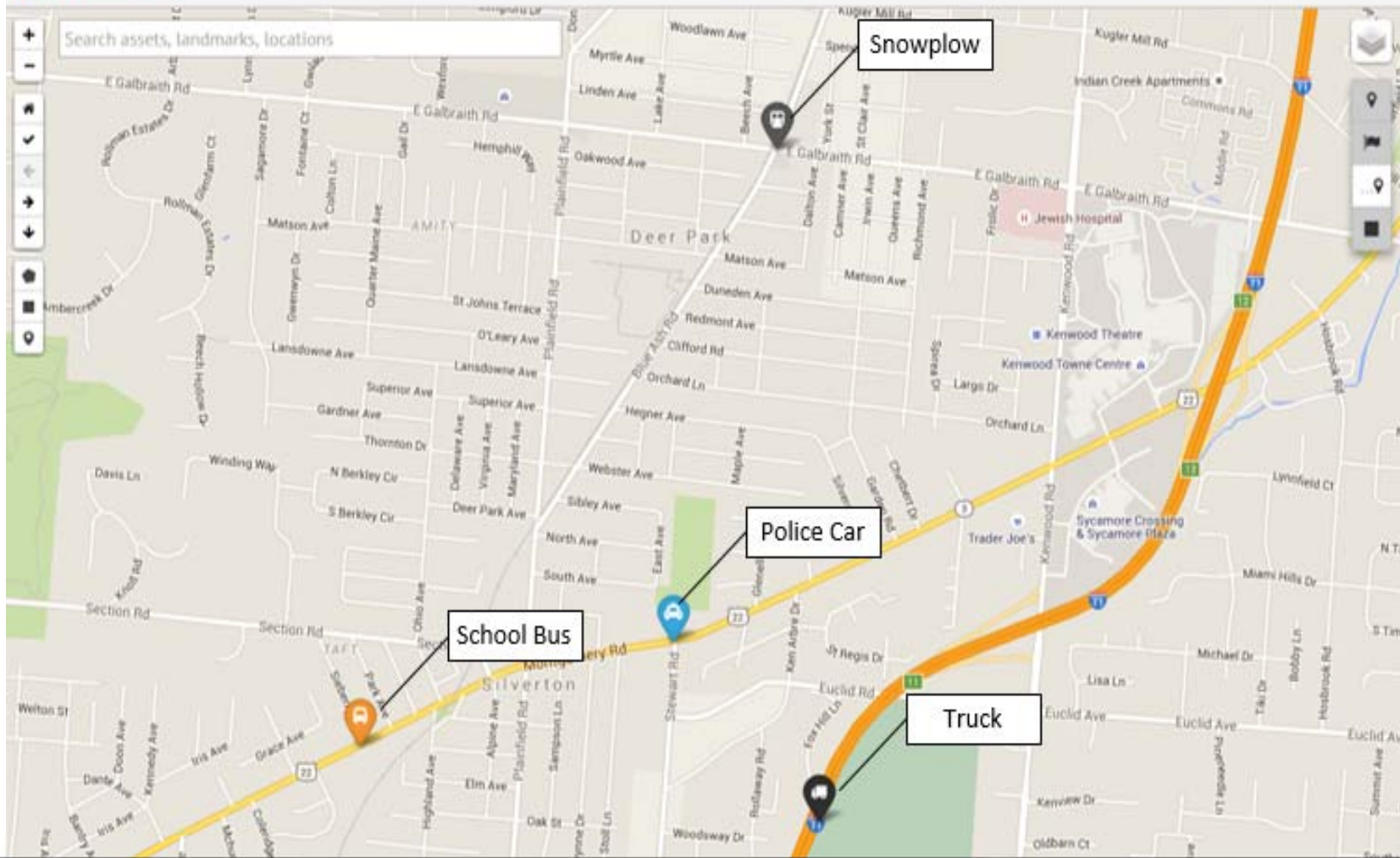
# School Bus Visibility

 Bus1

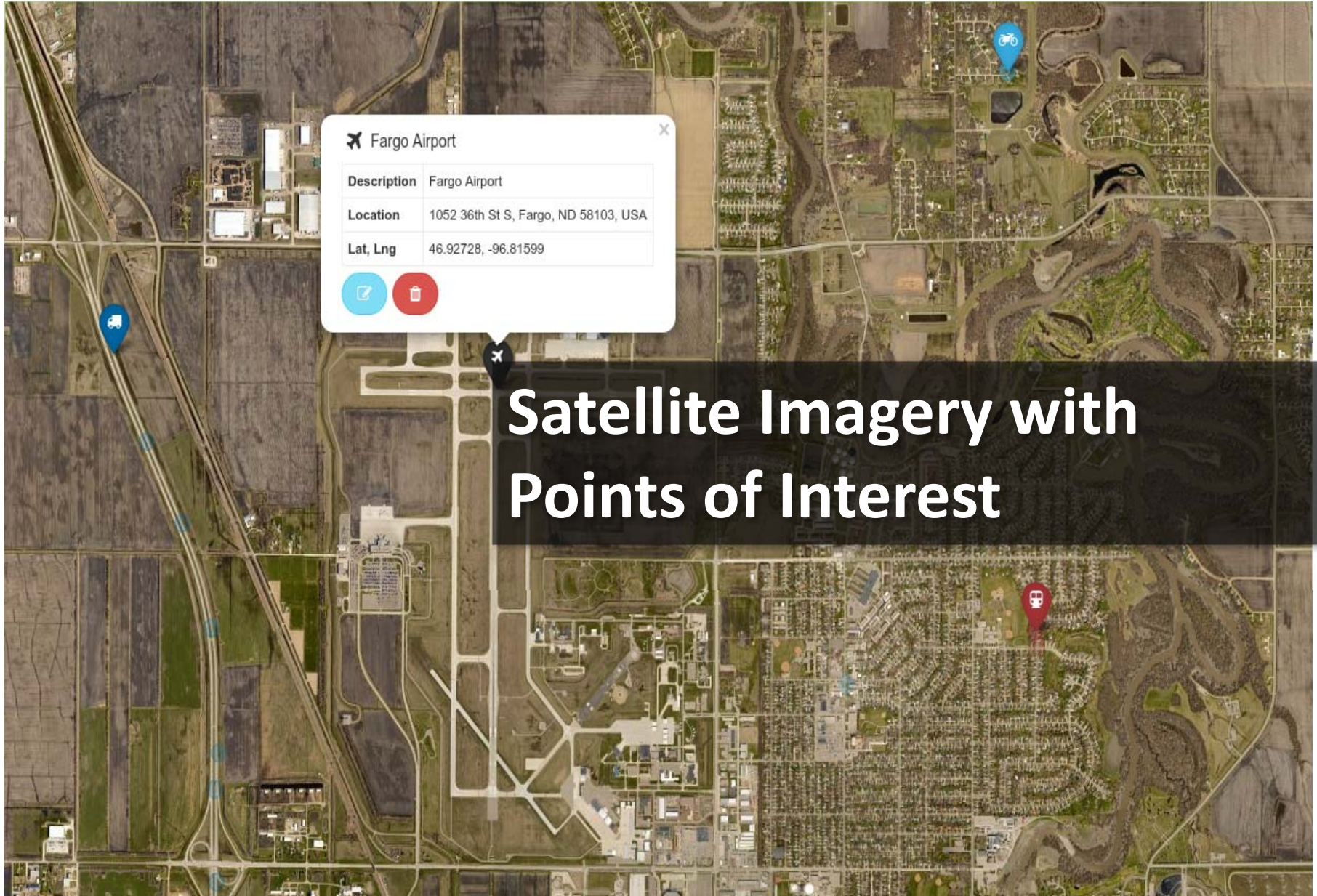
<b>Group</b>	bus
<b>Date</b>	05/18/16
<b>Time</b>	5:03 pm a few seconds ago
<b>Speed</b>	11
<b>Altitude</b>	0
<b>Data</b>	
<b>Location (approximate)</b>	24 Prairiewood Dr S, Fargo, ND 58103, USA
<b>Lat, Lng</b>	46.8531459, -96.823829





**Mixed Assets on Hetrogeneous Networks  
using different tracking units**



**Fargo Airport**

<b>Description</b>	Fargo Airport
<b>Location</b>	1052 36th St S, Fargo, ND 58103, USA
<b>Lat, Lng</b>	46.92728, -96.81599



# Satellite Imagery with Points of Interest



# Report – Asset / Group

## Assigning an Asset to Multiple Groups

### Asset Information




**Name\***  
ID 51498 (Class IIa, OpenSky)


**Device Address\***  
51498

**Notes**  
LCRA, 2003 Freightliner


Favorite

**Groups**

class IIa	 Remove Group
Parks and Rec	 Remove Group
Smith's Assets	 Remove Group

 Add Group

**Color**  
Dark Blue

**Icon**  
 Truck

**Status**

Ability to Remove asset from a group

Current groups that an asset belongs to

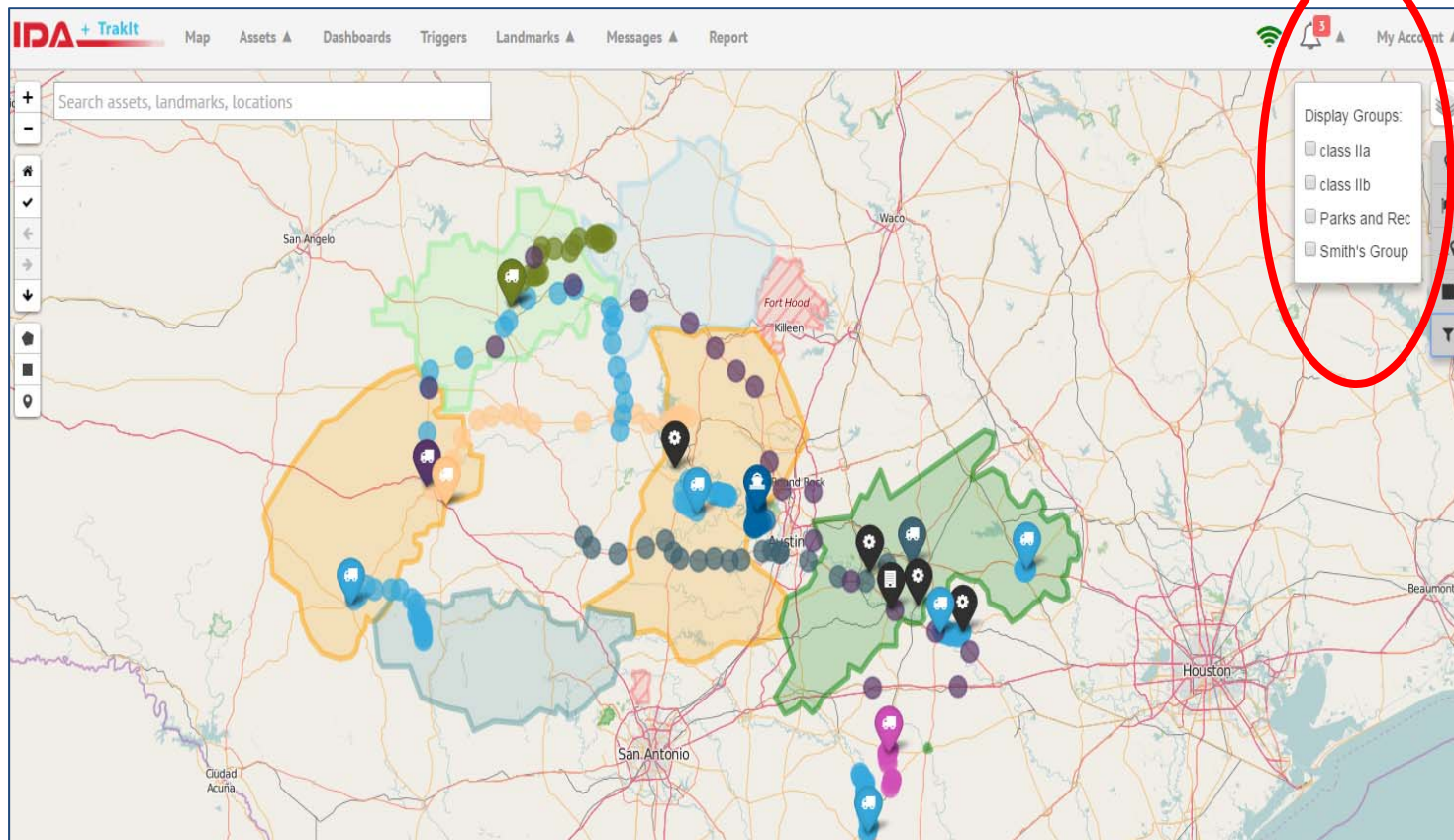
Add assets to a group

### Notes

- An asset can belong to any number of Groups
- A group can be a Label or a way of Tagging an asset
- Maps, Dashboards, Reports can be filtered by the Group(s)

# Map – Asset / Group

## Filtering by Groups On the Map



Select which groups  
you want to display

# Report – Group

Run a report on an asset,  
list of assets, or a group

Report

Daily Asset Summary Report x ▼

**Group**

Class Ila x ▼

**Time**

Custom x ▼

**Day**

07/17/2016 12:00 AM

[Generate Report](#)

---

## Daily Asset Summary Report

From: 7/17/16 12:00 am to 7/17/16 11:59 pm

Asset	Odometer	Miles driven	Engine on time	Idle time	Latitude	Longitude	Location
ID 51498 (class IIb TNW)	146476.8	88	1 hours, 37 min, 0 seconds	10 min, 8 seconds	30.009	-97.16	104 3rd Ave, Smithville, TX 78957, USA
ID 51801 (class IIa OpenSky)	111994.8	256	4 hours, 20 min, 38 seconds	17 min, 43 seconds	30.482	-99.775	216 US-377, Junction, TX 76849, USA
ID 52570 (class IIa OpenSky)	45049.8	8	44 min, 59 seconds	7 min, 47 seconds	30.168	-96.396	329 E Main St, Brenham, TX 77833
ID 51052 (class IIa OpenSky)	24959.2	93	2 hours, 45 min, 1 seconds	56 min, 54 seconds	29.094	-97.289	155 E French St, Cuero, TX 77954

[Download CSV](#) [Distribution List](#) [Download a csv](#)

# Filtering Dashboards by Group

## Operating Expenses Dashboard

Overview

Fleet Usage

Operating Expenses

Driver Behavior

from: 7/18/16 4:47 pm to 7/25/16 4:47 pm

10m 1h 4h 12h 1d 3d **1w** 1mo

Group

class iia

Groups selectable for display

Total fuel consumed for all assets:

24.4 gallons

Fuel Consumption

Rank	Group	Fuel Consumption (Gallons)
1	class Ila,Parks and Rec	12.4
2	class Ila	10.7
3	class Ila,Parks and Rec,Smith's Group	1.3

Worst Fuel Consumption

Rank	Group	Worst Fuel Consumption (Gallons)
1	class Ila,Parks and Rec,Smith's Group	1.3
2	class Ila	10.7
3	class Ila,Parks and Rec	12.4



# Fleet Maintenance Report

From: 5/3/16 12:00 am to 5/3/16 11:59 pm

## Oil Change Status

Asset	Field	Reading	Maintenance Due	Remaining Maintenance Life
Lift Truck (Class IIb)	Odometer	31057	30000	-4%
Truck 1 (Class IIa)	Odometer	29396	30000	2%
Fleet Car (Class IIa)	Odometer	58568	60000	5%
Freightliner (Class IIb)	Odometer	127394	130000	9%
Maintenance Bucket Truck (Class III)	Odometer	83821	90000	20%
Maintenance Bucket Truck (Class III)	Odometer	100000	100000	6%
Company Car (Class IIa)	Odometer	79564	90000	35%
Company Car2 (Class IIa)	Odometer	11713	30000	61%
Truck 2 (Class IIa)	Odometer	3486	30000	88%

# Asset Maintenance Report

## Engine Hours Status

Asset	Field	Reading	Maintenance Due	Remaining Maintenance Life
Backup Generator (Class IV)	Engine Hours	146.1	150	8%
Shipping Forklift (Class III)	Engine Hours	385.7	400	14%
Backhoe (Class III)	Engine Hours	178.4	200	22%
Lawn Mower (Class I)	Engine Hours	62.3	100	38%
Boat (Class V)	Engine Hours	26.6	50	47%
Crane (Class III)	Engine Hours	43.9	100	56%

Assets

+ Create New Asset

Filter...

Status  Active  Inactive Group  Demo1  Bus

# Types of Assets Tracked

Name	Group	Device Address	Speed	Altitude	Marker
LMR	Demo1	LMR			
LMR-Harris	Demo1	LMR-Harris			
LMR-Kenwood	Demo1				
LMR-Mobile	Demo1	LMR-Mobile			
LMR-Motorola	Demo1	LMR-Motorola			
LMR-P25	Demo1				
LMR-Portable	Demo1	LMR-Portable			
LMR-Relm	Demo1	LMR-Relm			
LMR-Tait	Demo1	LMR-Tait			
Smartphone	Demo1	Smartphone			

LMR (Digital / Analog – different makes)

Smartphones

Tablets

Equipment

Sensors



# Reports Classification



Daily Activity Reports

Optimization / Efficiency Reports

Violations / Trigger Reports


Fleet / Telematics Reports

Search assets, landmarks, locations




# Choice of Mapping Engines

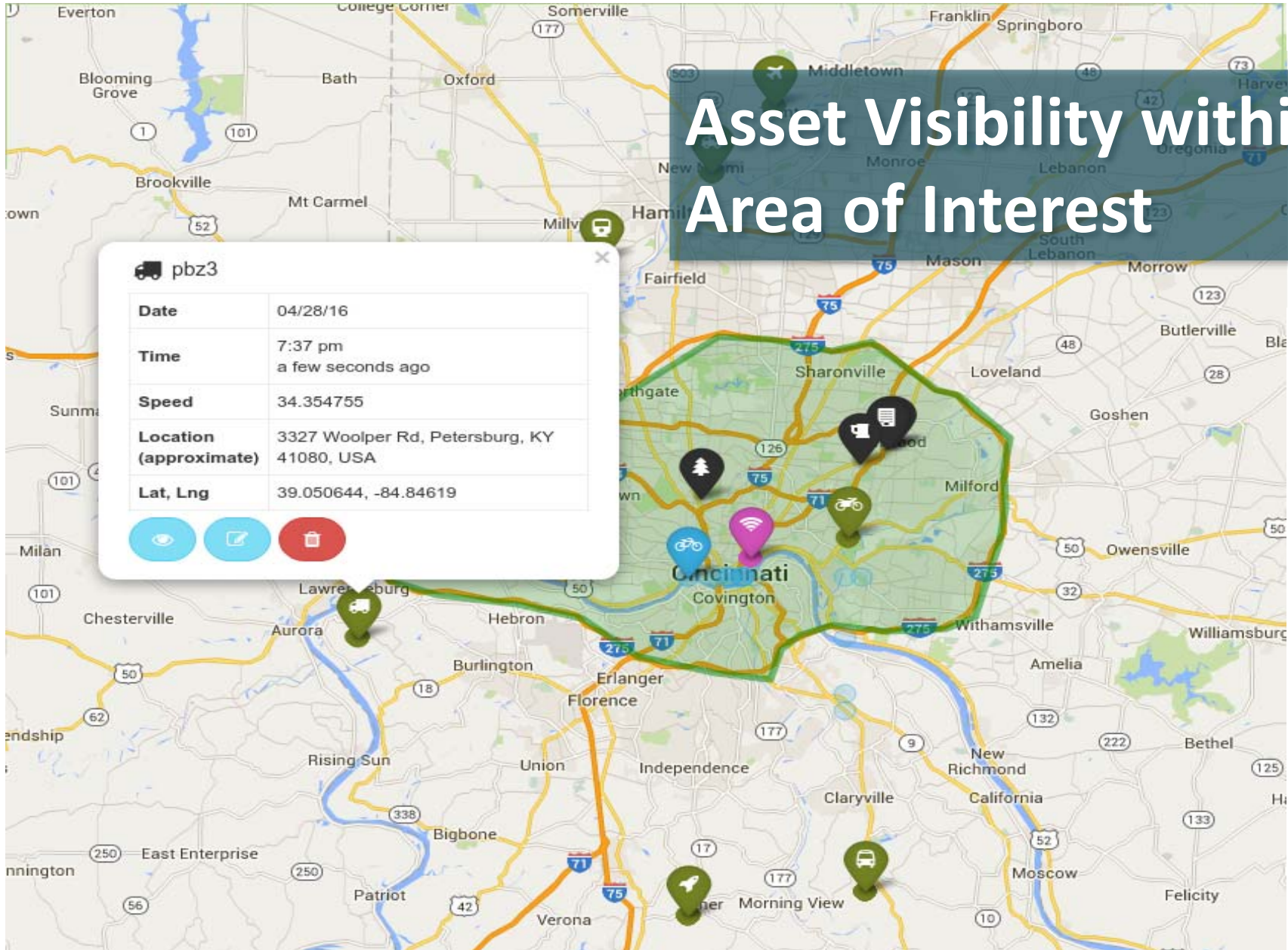
- Open Street Maps
- MapBox Street
- MapBox Satellite
- MapBox Pirate
- ESRI Streets
- ESRI Imagery
- MapQuest Open
- Google Roadmap
- Google Roadmap (custom colors)
- Google Terrain
- Google Satellite
- Local Layer (IDA Tiles)

# Asset Visibility within Area of Interest

 pbz3

<b>Date</b>	04/28/16
<b>Time</b>	7:37 pm a few seconds ago
<b>Speed</b>	34.354755
<b>Location (approximate)</b>	3327 Woolper Rd, Petersburg, KY 41080, USA
<b>Lat, Lng</b>	39.050644, -84.84619

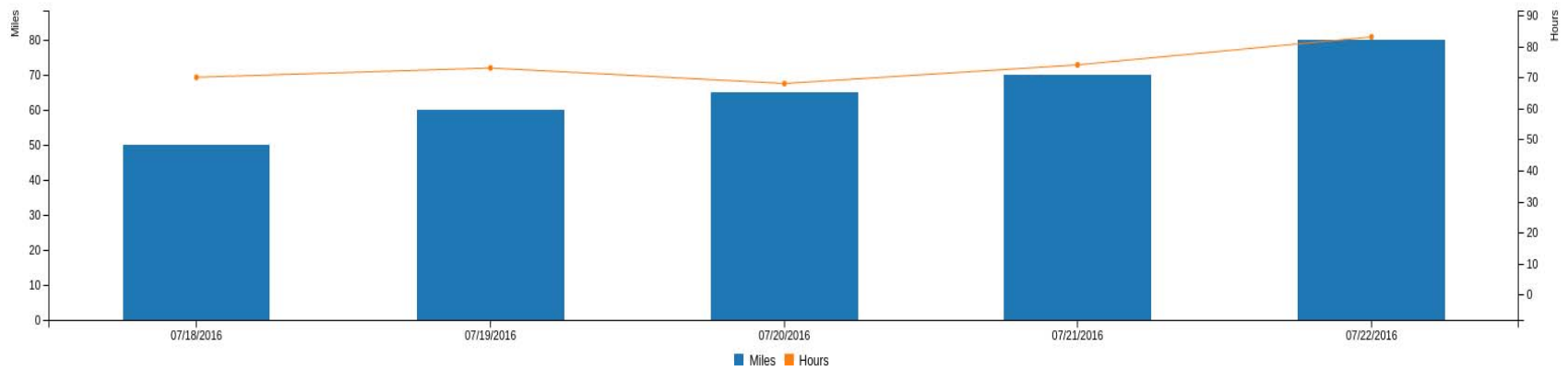
  



# Utilization Report by Group

## Utilization Report

From: 7/18/16 12:00 am to 7/25/16 11:59 pm



Asset Name	Groups	Miles	Hours	Trips	Idle (%)	PTO (%)
50152	Parks and Rec	56	39	6	10	0
51277	Parks and Rec	150	42	7	11	12
51498	Parks and Rec	276	45	8	50	0
51801	Parks and Rec	230	39.5	4	30	15
52377	Parks and Rec	469	46.5	2	25	5

Download CSV

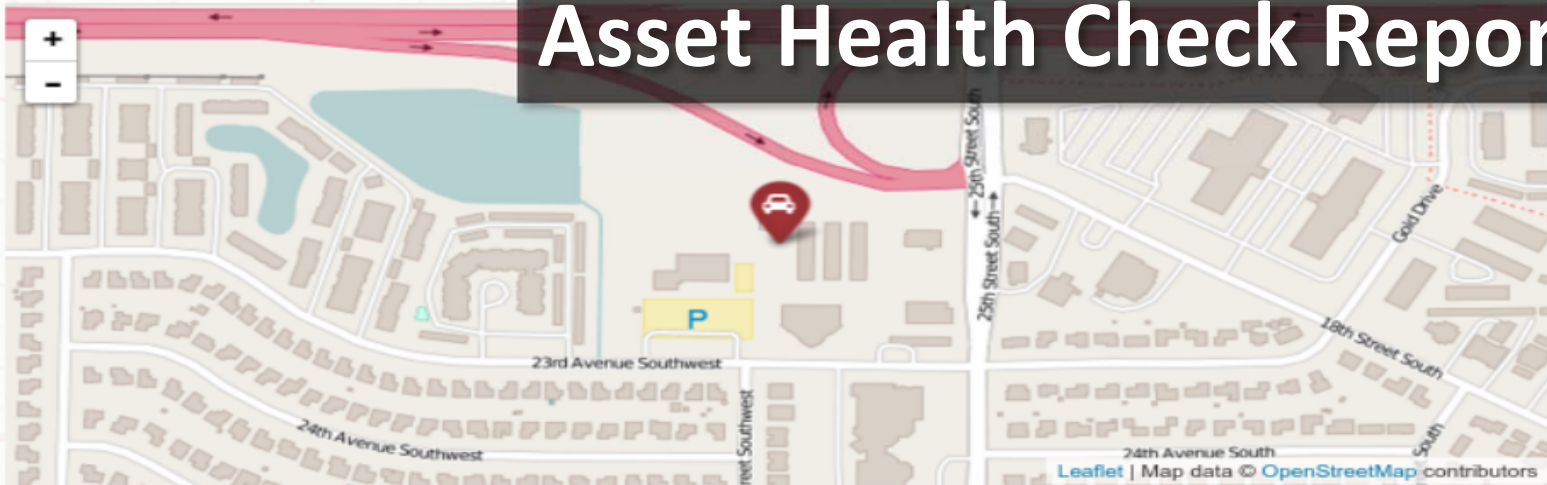
Download PDF

Download a csv

# Maintenance Report for `IDA Fleet Vehicle 2`

Most recent onboard data report from asset

## Asset Health Check Report



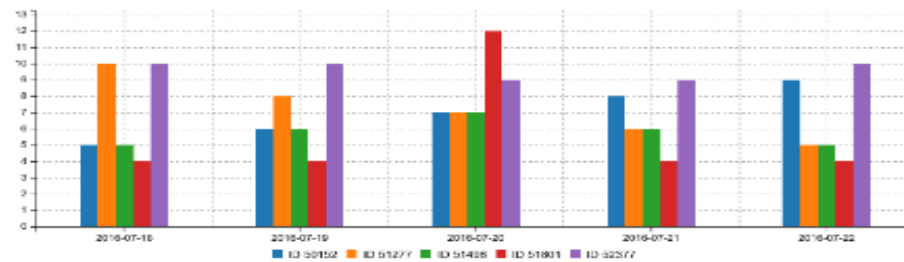
OBD2 Field	Value
Odometer	16130 miles
Fuel Level	88% Milwaukee
Engine Speed	2500 rpm
Throttle Position	5%
Ignition Status	ON
Oil Life Remaining	80%
Tire Pressure	33 35 34 32
Transmission Fluid Temperature	170 °F
Engine Coolant Temperature	160 °F
Power Take Off	OFF

# Fuel Usage Report for Group

## Fuel Usage Report

From: 7/18/16 12:00 am to 7/22/16 11:59 pm  
 For: Asset Group 'Parks and Rec'

Fuel Usage Chart



### Fuel Usage By Date:

Date	Asset	Groups	Gallons
7/18/2016	ID 50152	Parks and Rec	5
7/18/2016	ID 51277	Parks and Rec	10
7/18/2016	ID 51498	Parks and Rec	5
7/18/2016	ID 51801	Parks and Rec	4
7/18/2016	ID 52377	Parks and Rec	10
<b>Total Daily Fuel Usage For 7/18/2016:</b>			<b>34</b>
7/19/2016	ID 50152	Parks and Rec	6
7/19/2016	ID 51277	Parks and Rec	8
7/19/2016	ID 51498	Parks and Rec	6
7/19/2016	ID 51801	Parks and Rec	4
7/19/2016	ID 52377	Parks and Rec	10
<b>Total Daily Fuel Usage For 7/19/2016:</b>			<b>34</b>
7/20/2016	ID 50152	Parks and Rec	7
7/20/2016	ID 51277	Parks and Rec	7
7/20/2016	ID 51498	Parks and Rec	7
7/20/2016	ID 51801	Parks and Rec	12
7/20/2016	ID 52377	Parks and Rec	9
<b>Total Daily Fuel Usage For 7/20/2016:</b>			<b>42</b>
7/21/2016	ID 50152	Parks and Rec	8
7/21/2016	ID 51277	Parks and Rec	6
7/21/2016	ID 51498	Parks and Rec	6





Fargo Weather Station

📍 4/28/16 7:38:44 pm (4 minutes ago) 📁 weather ⓘ weather-fargo



Command Message

- Summary
- Data Charts
- Recent Messages
- Events (1)
- Triggers (11)

### Last Message

Key	Value
longitude	-96.768973
altitude	N/A
speed	N/A
timestamp	2016-04-28T20:38:44.431-04:00
version	0.1b
timestampObj	N/A
srid	4326
location.type	Point
location.coordinates.0	-96.768973
location.coordinates.1	46.882323
data.visibility	9.85
data.nearest_storm_bearing	161

# External Data Source Integration

### Historical Messages

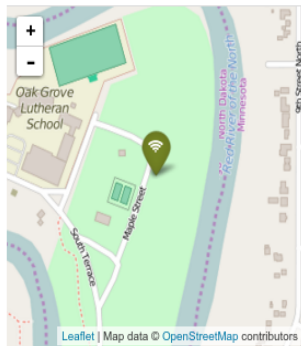
	Latitude	Longitude	Speed	Time	Data
1	46.882323	-96.768973	N/A	19:38 04-28-2016	{"visibility":9.85,"nearest_storm_bearing":161,"brief_str":"Partly
2	46.882323	-96.768973	N/A	19:34 04-28-2016	{"visibility":9.84,"nearest_storm_bearing":166,"brief_str":"Partly
3	46.882323	-96.768973	N/A	19:30 04-28-2016	{"visibility":9.83,"nearest_storm_bearing":166,"brief_str":"Partly

# Fargo Weather Station

📍 4/28/16 7:38:44 pm (2 minutes ago) 📡 weather 📡 weather-fargo

✍️ 🗑️ Command Message

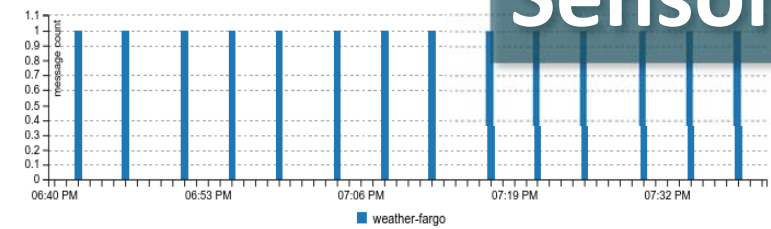
- Summary
- Data Charts
- Recent Messages
- Events (1)
- Triggers (11)



**Status** active  
**Visible** true  
**fixedLatitude** 46.882323  
**fixedLongitude** -96.768973  
**notes** This data is real, from forecast.io

10m 1h 4h 12h 1d 3d 1w 1mo

## Asset Activity



# Sensory Data Feed

<b>Humidity</b> 35%  0%  100%	<b>Pressure</b> 1020.9atm  1020atm  1021atm	<b>Temperature (Real)</b> 57°F  56°F  59°F	<b>Dew Point (°F)</b> 29.3°F  25°F  29°F	<b>Temperature (Apparent)</b> 57°F  56°F  59°F
<b>Wind Speed</b> 7.9mph  7mph  9mph	<b>Ozone</b> 371.6  370  372	<b>Wind Bearing (degrees)</b> 75°  54°  81°	<b>Cloud Cover</b> 44%  38%  90%	



# Reports Classification



Daily Activity Reports

Optimization / Efficiency Reports

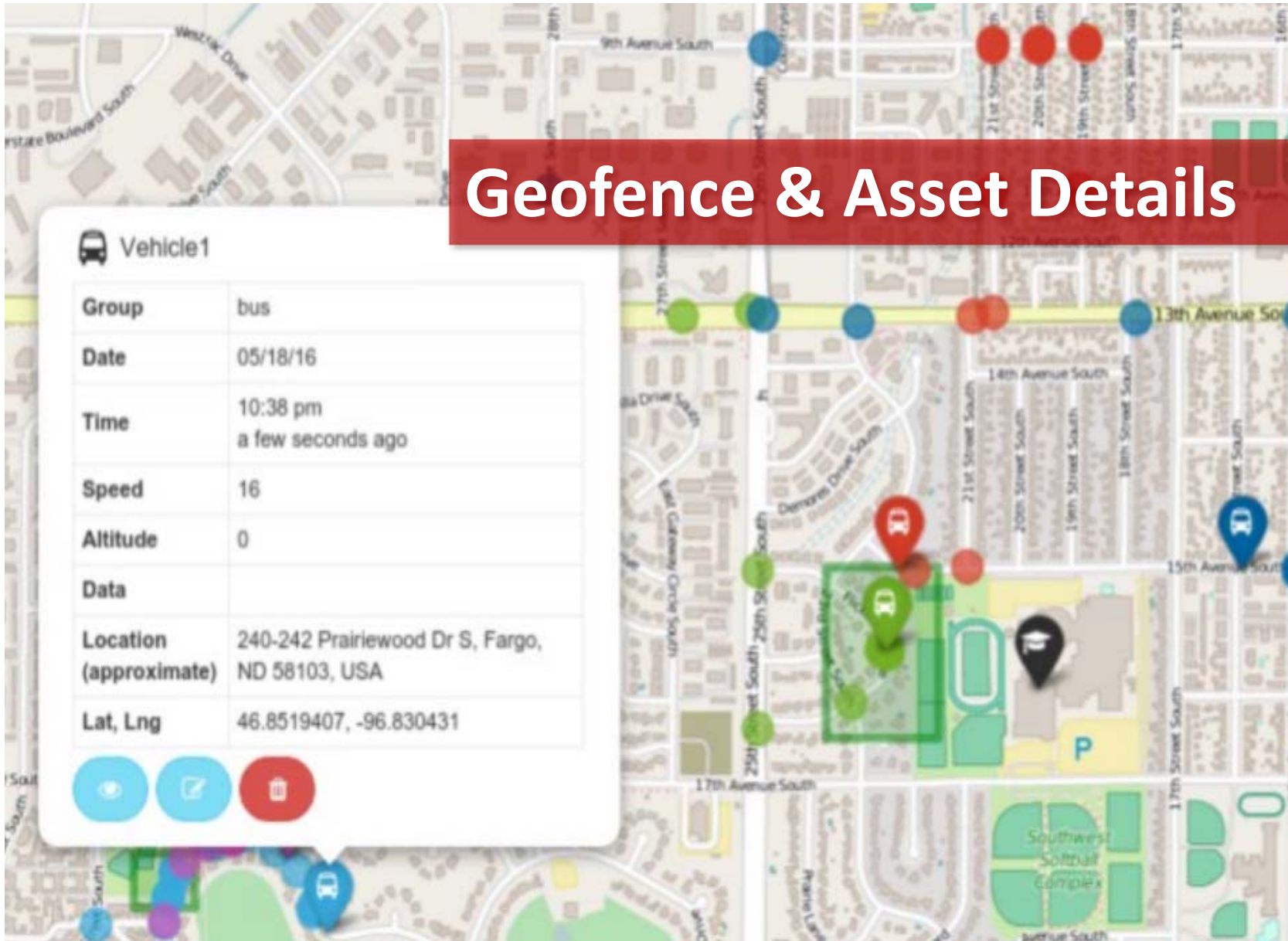
Violations / Trigger Reports

Fleet / Telematics Reports

# Geofence & Asset Details

 Vehicle1

Group	bus
Date	05/18/16
Time	10:38 pm a few seconds ago
Speed	16
Altitude	0
Data	
Location (approximate)	240-242 Prairiewood Dr S, Fargo, ND 58103, USA
Lat, Lng	46.8519407, -96.830431





# Reports Classification



Daily Activity Reports



Optimization / Efficiency Reports



Violations / Trigger Reports



Fleet / Telematics Reports

# Standard System Reports

## Fleet Overview

Report Name	Detail
<b>Activity Report</b>	Shows a detailed activity of the asset(s)
<b>Asset Summary Report</b>	Shows a brief summary of the asset(s)
<b>Utilization Report</b>	Provides breakdown of asset utilization across the collected fleet data
<b>Maintenance Report</b>	Quick overview of the current status of all the assets and where do they stand on their maintenance cycle
<b>Fuel Usage Report</b>	Detailed breakdown of fuel consumption across the fleet

# Standard System Reports

## Fleet Operations

Report Name	Detail
<b>Fuel Efficiency</b>	Shows a detailed breakdown of fuel efficiency by asset(s)
<b>Fuel Consumption</b>	Shows a detailed breakdown of fuel consumption by asset(s)
<b>Usage Report</b>	Provides breakdown of asset(s) usage based on operating time, operating features, frequency and maintenance
<b>Diagnostic Report</b>	Review asset(s) based on fault codes generated and maintenance performed
<b>Fleet Diagnostic Analysis</b>	Detailed Analysis on asset(s) and repair/maintenance required for replacement/procurement decision

# Standard System Reports

## Fleet Usage

Report Name	Detail
<b>Off Hours Operations</b>	Provides information on asset(s) which have been operating outside of business hours
<b>Miles Travelled + Trips Made</b>	Analyze asset movement by miles and number of trips
<b>Engine Hours + Idle Time</b>	Analyze asset usage by engine hours and time spent idling
<b>Power Take Off</b>	Review asset(s) based on how often PTO feature is used across the fleet
<b>Trip + Stops Report</b>	Detailed Analysis on the number of trips made by asset(s) and the amount of time spent idling/not-moving



# Standard System Reports

Fleet Safety

Report Name	Detail
<b>Speeding Violations</b>	Provides information on asset(s) which have been violating defined speed limits
<b>Seat Belt Violations</b>	Provides information on drivers violating seat belt requirements
<b>Geofence Violations</b>	Provides information on asset(s) that have violated defined geographic perimeter
<b>Proximity Report</b>	Generate a detailed heatmap on the movement of asset(s) to a geographic location or landmark
<b>Instant Playback</b>	Replay the movement of asset in detail for claims, fault analysis, driver safety

Summary

Data Charts

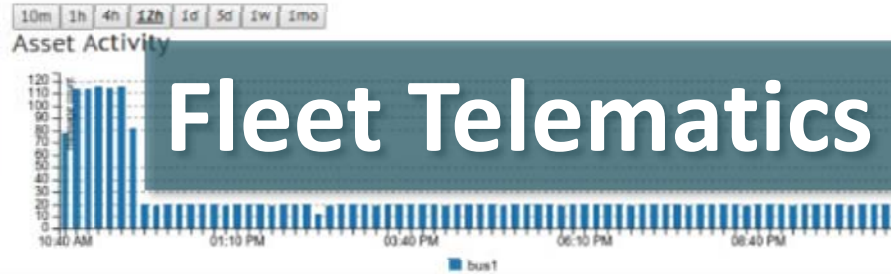
Recent Messages

Events (0)

Triggers (4)

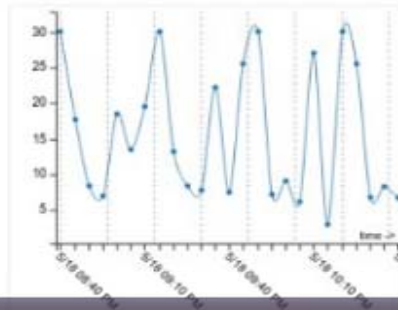


Status active  
Visible true

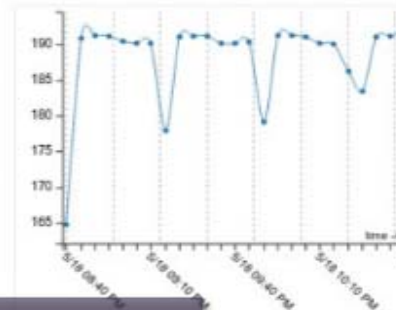


# Fleet Telematics Parameters

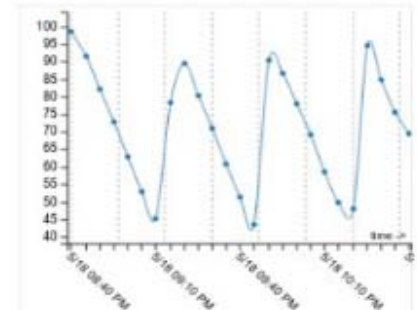
Speed  
12mph



Coolant Temperature  
192°F

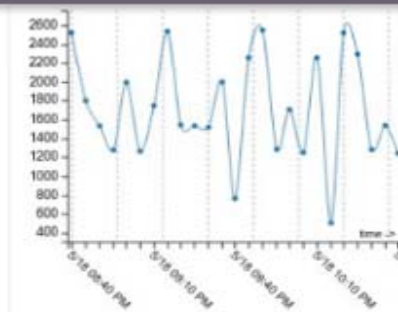


Fuel Level  
68%

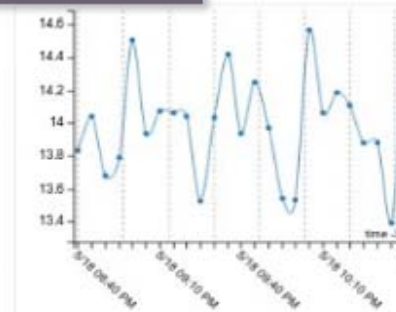


# Vehicle Engine Data

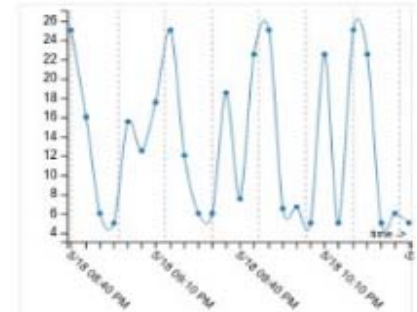
2505RPM



Fuel Rate  
13.7GPH



Throttle Position  
10%



# Fleet Maintenance Report

From: 5/3/16 12:00 am to 5/3/16 11:59 pm

## Oil Change Status

Asset	Field	Reading	Maintenance Due	Remaining Maintenance Life
Lift Truck (Class IIb)	Odometer	31057	30000	-4%
Truck 1 (Class IIa)	Odometer	29396	30000	2%
Fleet Car (Class IIa)	Odometer	58568	60000	5%
Freightliner (Class IIb)	Odometer	127394	130000	9%
Maintenance Bucket Truck (Class III)	Odometer	83921	90000	20%
Maintenance Bucket Truck (Class III)	Odometer	14700	15000	1%
Company Car (Class IIa)	Odometer	79564	90000	35%
Company Car2 (Class IIa)	Odometer	11713	30000	61%
Truck 2 (Class IIa)	Odometer	3486	30000	88%

# Fleet Maintenance Visibility Report

## Engine Hours Status

Asset	Field	Reading	Maintenance Due	Remaining Maintenance Life
Backup Generator (Class IV)	Engine Hours	146.1	150	8%
Shipping Forklift (Class III)	Engine Hours	385.7	400	14%
Backhoe (Class III)	Engine Hours	178.4	200	22%
Lawn Mower (Class I)	Engine Hours	62.3	100	38%
Boat (Class V)	Engine Hours	26.6	50	47%
Crane (Class III)	Engine Hours	43.9	100	56%

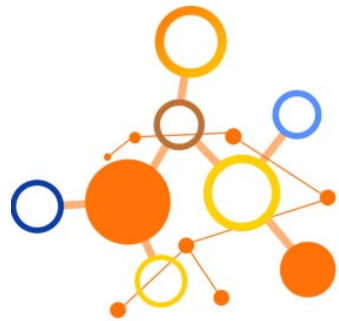
An abstract painting with vibrant colors like blue, purple, green, yellow, and red, featuring a paintbrush with a red handle and silver ferrule. The brush is positioned diagonally across the lower right portion of the image, with its bristles resting on the canvas. The overall style is expressive and textured, with visible brushstrokes and a rich palette of colors.

# Custom Reports



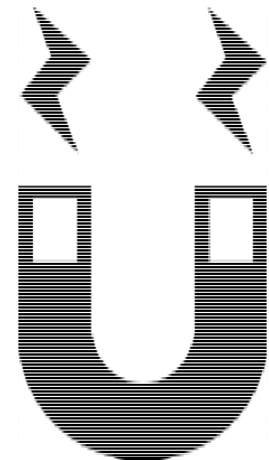
# Custom Dashboards

Cost Conscious



Comprehensive

Compelling





# Industry Leadership

Location Services

Situational Awareness

**IDA**

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*Imagine. Deploy. Achieve.*