

TRB EMS Subcommittee ANB10(5)

EMS Safety Summit 2012

Safety Systems, Strategies and Solutions

**Fleet safety systems &
“Putting invehicle telematics to use”
Charlene Cobb, Sunstar, Florida**

February 29th , 2012



TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES

Safety Technology A System Perspective



TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES

Marvlis System Overview

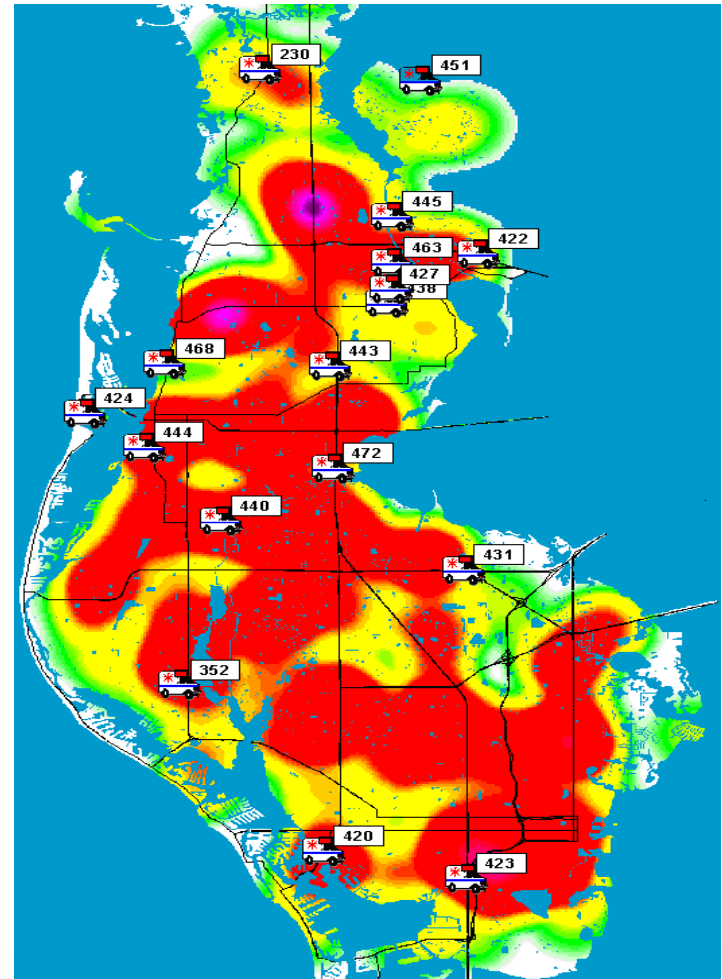
Front End Technology



TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES

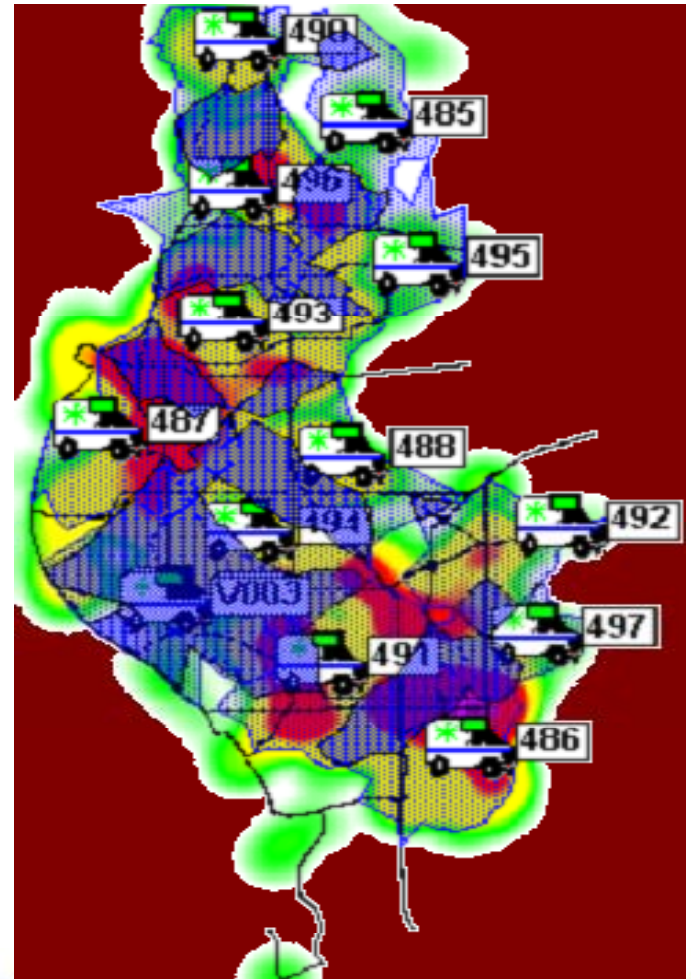
Marvlis at Sunstar

- Prior to Marvlis: We used history and geography
- Since Marvlis: We have data based on Year, week, day minute (17 years)
- We now weather the “storms” with more efficiency



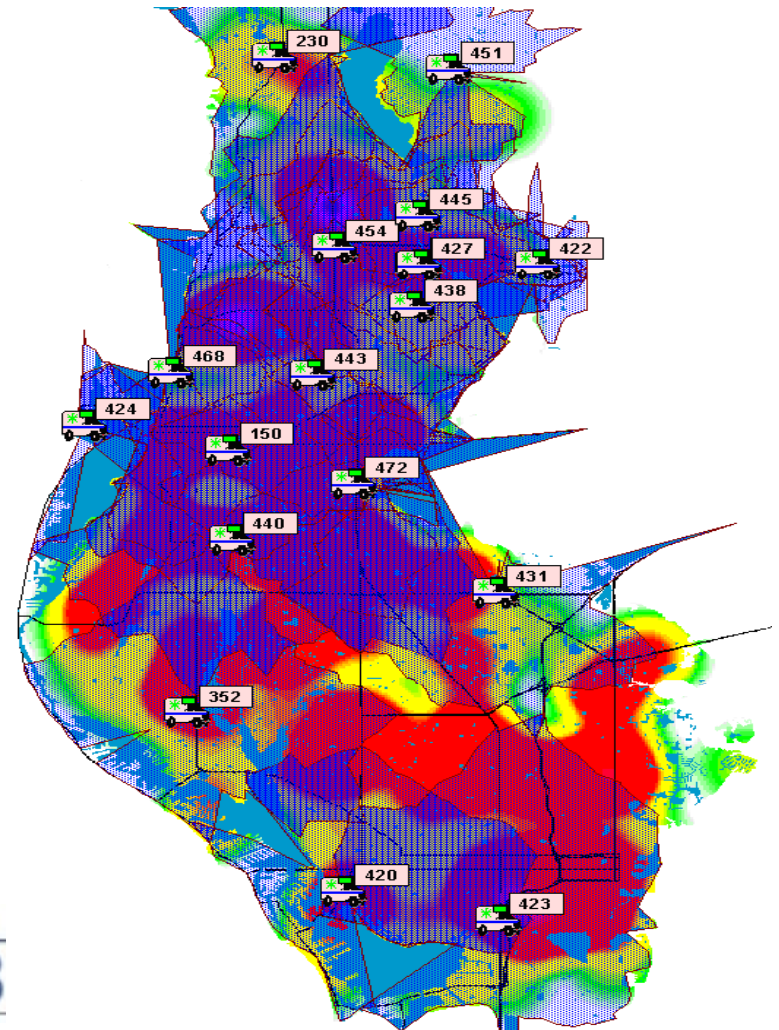
Utilization of Marvliis

- ✓ Improved response times
- ✓ Helps determine post plans
- ✓ Forecasts
- ✓ Routes



Dynamic Service Area

- Blue overlay shows us what parts of the county are covered
- Takes into account dead ends, traffic, geography water ways



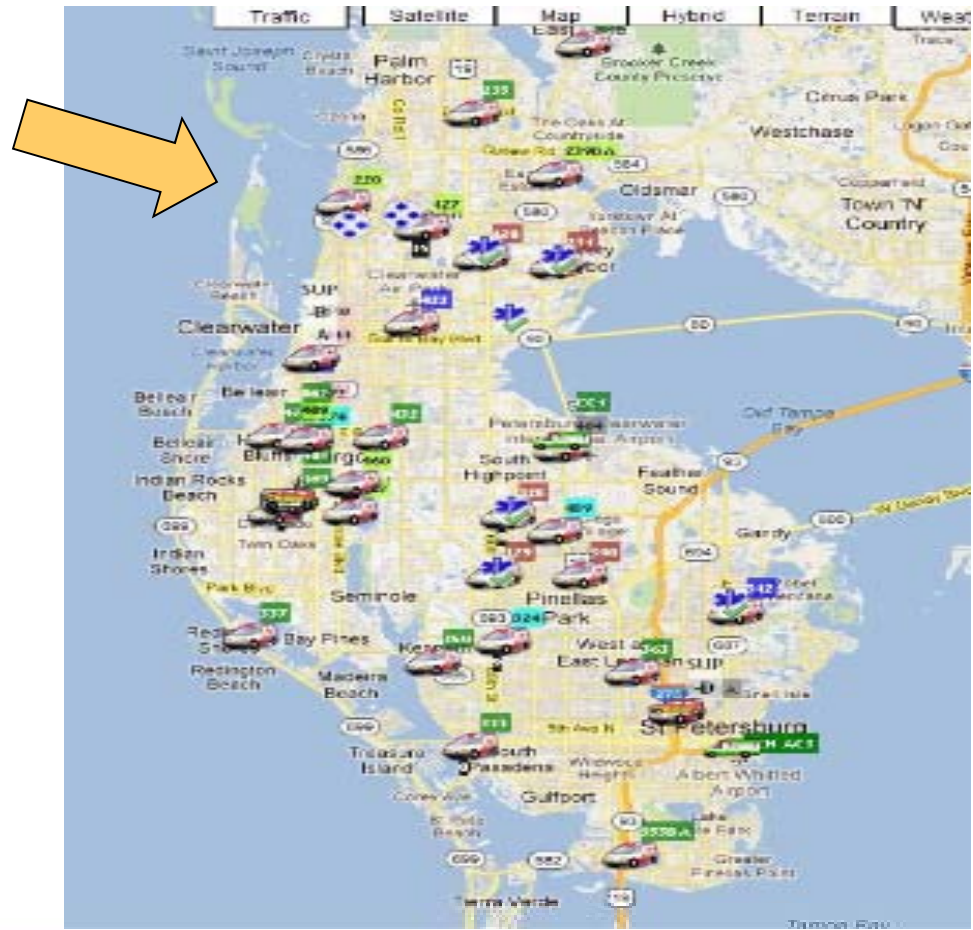
Fleet Eyes Overview

Back End Technology



Fleet Eyes Functionality

- Weather
- Traffic
- Routing
- Speed
- Tracking
- Area Resources

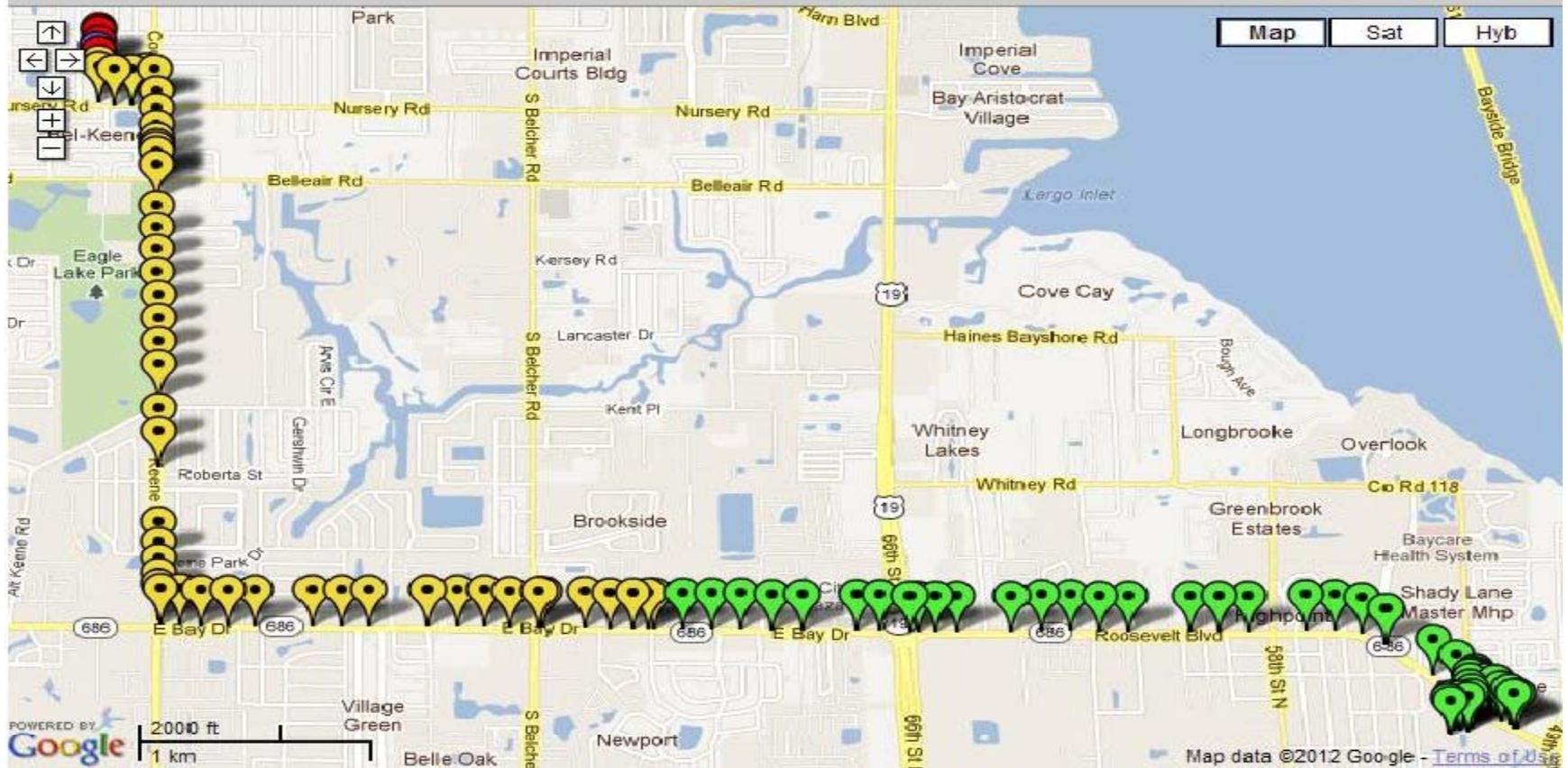


Fleet Eyes/Geo-Fencing

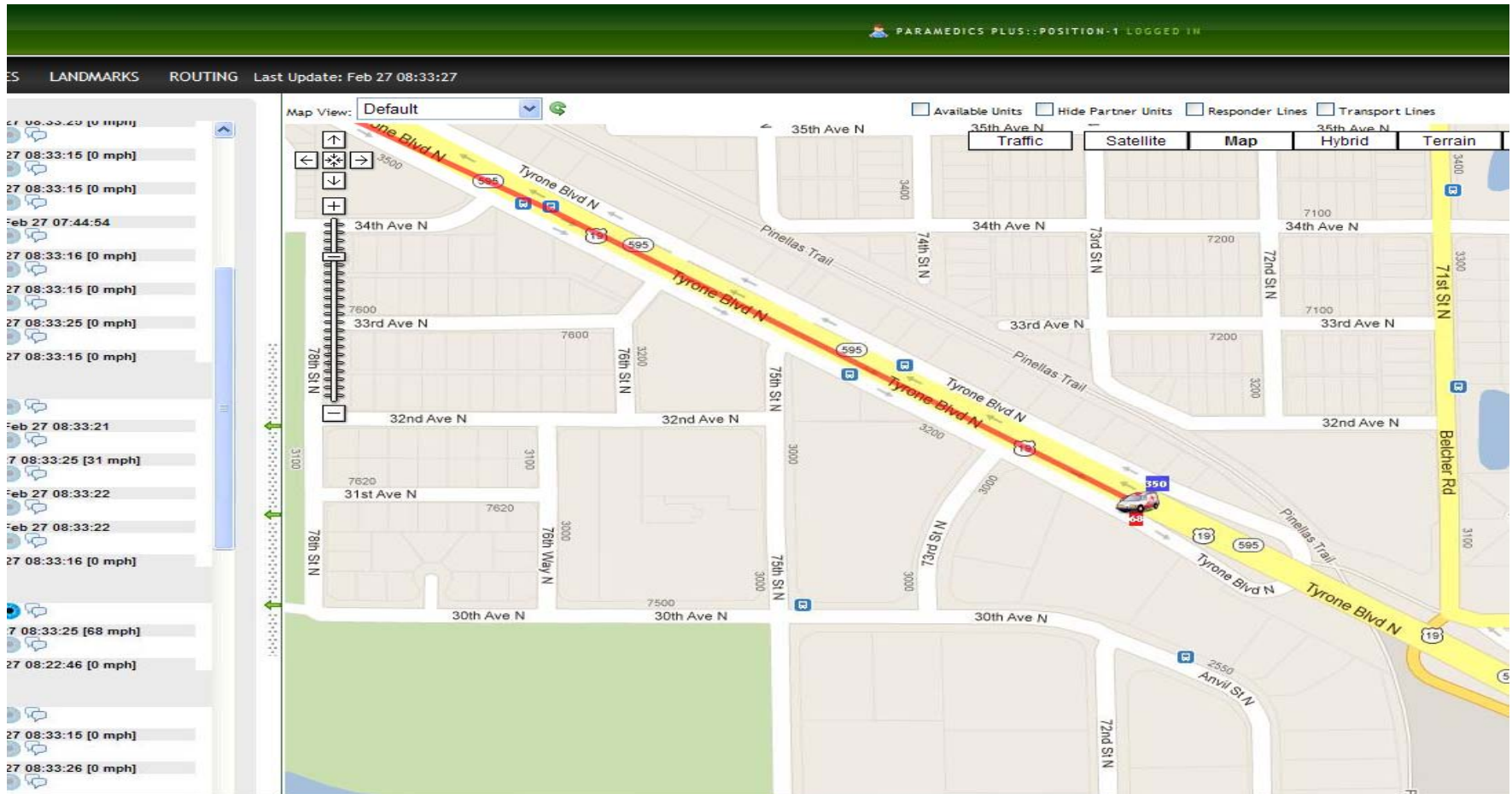


Route Review

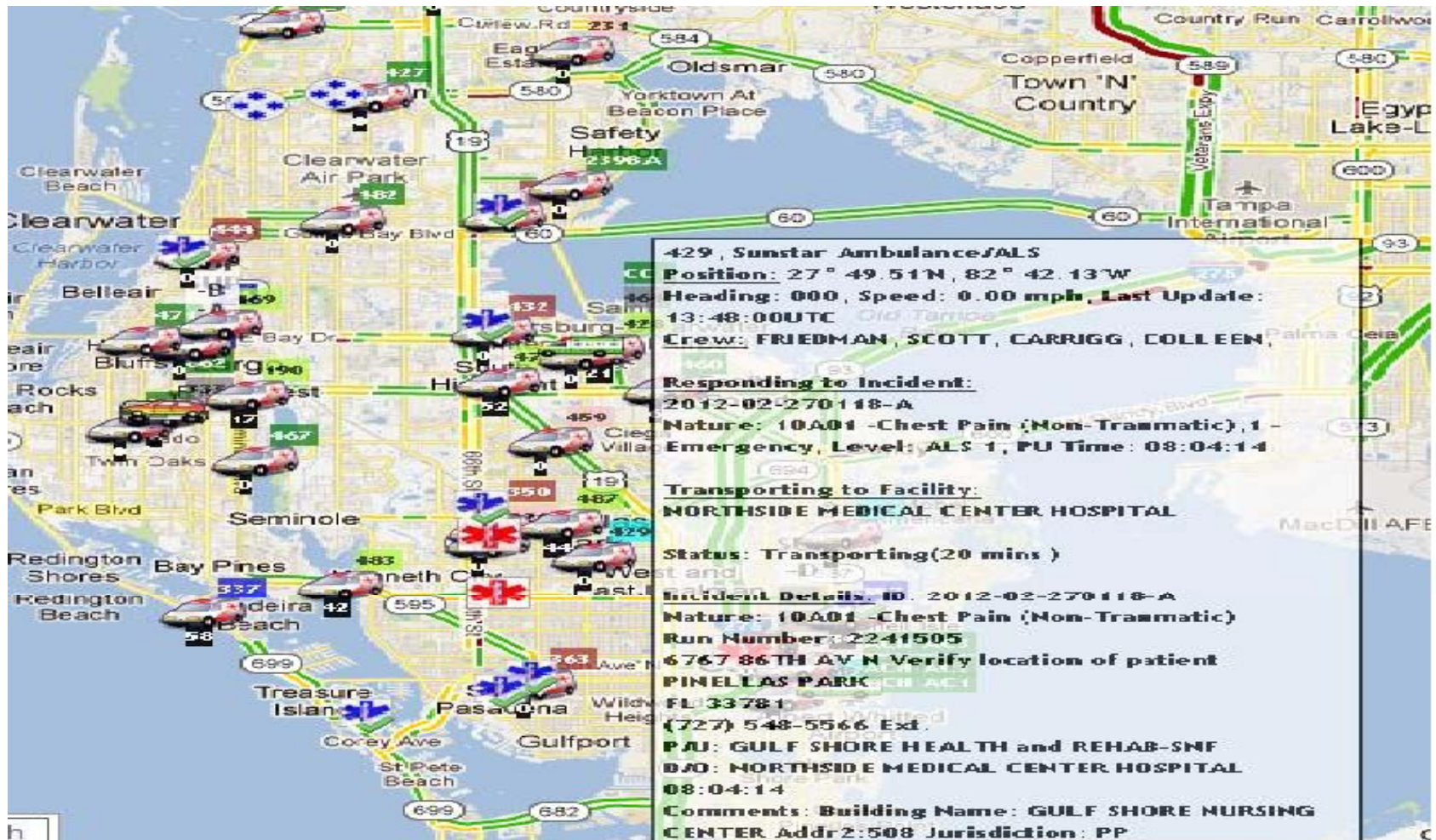
Pickup Address: 1439 MORROW DR CLEARWATER
Run No:2241483 At Scene:07:10:35



Real Time Tracking



Call Details



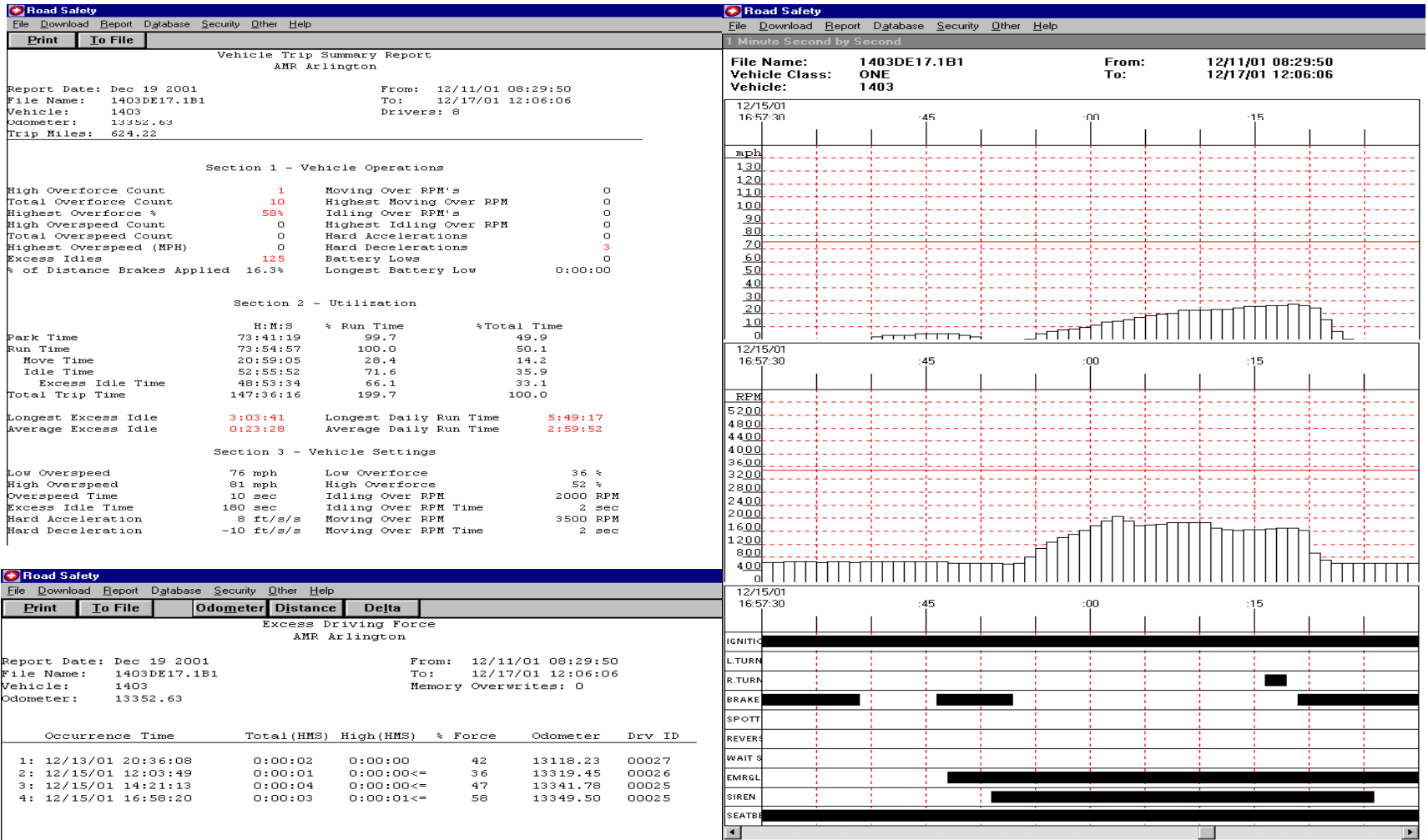
Road Safety Overview

Retrospect Technology



TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES

Road Safety Provides Data for Incident Investigation



Monthly Driver Reports

- Identifies high risk behaviors
- Provides real time feedback to driver
- Provides reports for employee evaluation

Road Safety International

Summary File : dayshift.qse
Reported : 3/29/2006

From : 3/1/2003
To : 3/31/2003

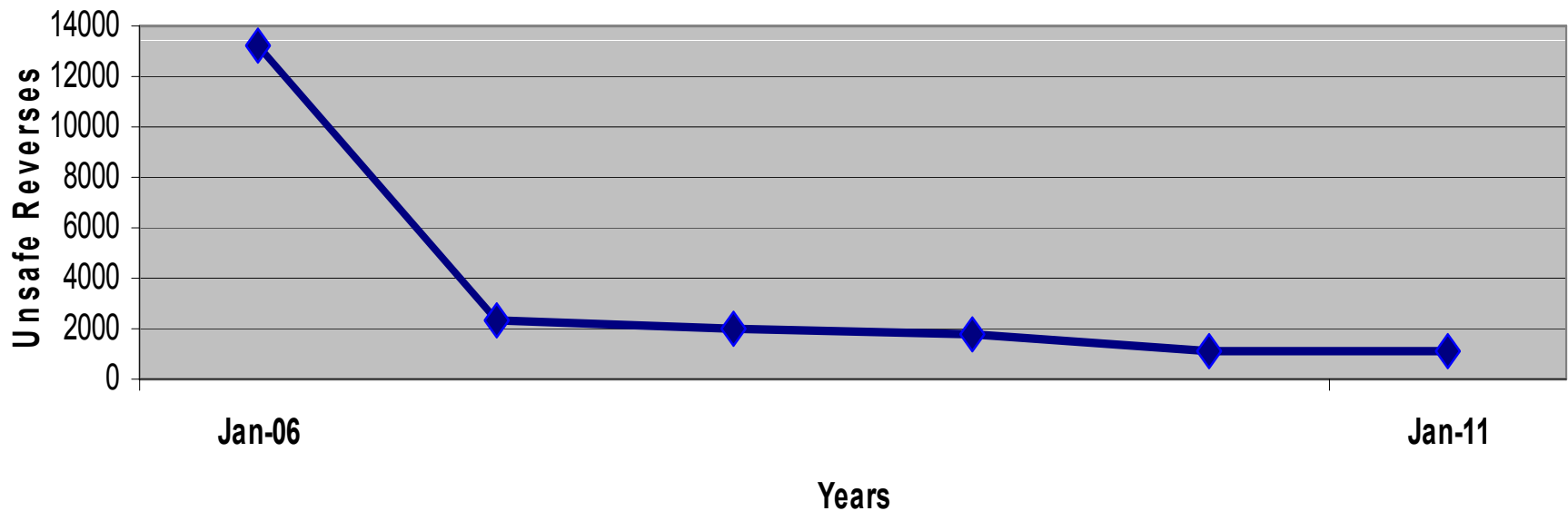
Driver Safety Summary (Emergency & Non-Emergency Driving)

Driver ID	Driver	Distance	Force Counts		Over Speed Counts		Seatbelt Counts	Unsafe Reverse	ABC Miles	Level
			Total	High	Total	High				
00126	Lord, Brittany	991.6	0	0	0	0	0	0		
00148	Vincent, Kazi	252.7	0	0	0	0	0	0		
00020	Walker, Roger	18.7	0	0	0	0	0	0		
00091	Dillard, Mike	1,818.9	0	0	0	0	0	1	1,818.920	
00103	Rome, Jeni	1,326.1	1	0	0	0	0	0	1,326.106	
00064	Erwin, Charles	1,433.5	2	0	0	0	0	0	716.727	
00181	Cormier, Jenna	2,772.6	14	0	0	0	0	0	198.039	
00199	Ross, Max	318.7	0	0	0	0	0	2	159.364	
00057	Clindyke, Andrew	1,503.2	12	0	0	0	1	0	115.628	
00089	Eby, Nicole	1,987.1	10	0	0	0	0	8	110.393	
00145	Portman, Whitney	716.3	7	0	0	0	0	0	102.331	
00121	Gahn, Tyler	2,306.6	19	0	0	0	0	9	82.378	
00227	Soto, Eric	892.9	8	0	0	0	0	3	81.168	
00219	Lexis, Elvis	505.1	6	0	0	0	0	1	72.164	
00076	Carrera, Alexis	1,966.2	28	0	11	0	0	0	50.416	
00032	Simonson, John	785.3	4	0	0	0	0	12	49.083	
00058	Moristes, Mary	2,946.8	14	2	0	0	0	0	46.043	
00056	Anderson, Terry	2,579.1	38	0	0	0	0	0	44.467	
00009	Smith, Megan	392.7	8	0	0	0	0	1	43.635	
00143	Richards, Adam	222.6	6	0	0	0	0	0	37.097	
00104	Talbot, Miles	511.3	3	0	10	0	0	4	30.079	
00150	Beals, Kristen	29.7	0	0	0	0	0	1	29.656	
00072	Barker, Lauryn	2,001.4	27	0	47	0	0	0	27.046	
00063	Iverson, Richard	3,449.8	63	3	23	0	2	0	21.164	
00112	Amundson, Drew	15.7	0	0	0	0	0	1	15.744	
00087	Frinchard, Martin	2,239.9	16	2	30	2	3	10	14.087	
00073	Sibmann, Francis	1,838.3	86	2	33	0	1	0	10.814	
00179	Stein, Nadine	90.1	7	0	0	0	0	2	10.012	
00188	West, Rory	251.4	5	1	0	0	0	1	8.108	
	S T A N D A R D L I N E									
00046	Keen, Paul	1,045.1	9	3	8	2	0	5	7.109	4
00203	Leavitt, Elaine	124.6	6	0	10	0	1	2	6.560	4
00053	Grant, Tania	184.9	75	0	0	0	13	33	1.528	2
00001	Driver, Unknown	162.5	175	5	35	3	85	389	0.184	1
00229	Wang, David	12.2	13	1	24	3	0	0	0.089	1
Total Drivers:	34									
Fleet Totals:		37,693.5	682	19	231	10	106	485	16,911	6
Average Driver:		1,108.6	20	1	7	0	3	14		7



Measuring Our Success at Sunstar Paramedics

5 Year Road Safety Report - Unsafe Reverses



Summary

Through these technologies:

- ✓ We realized dramatic change in our drivers attitude toward safety
- ✓ We have evidence based data to use for individual driver training and refresher courses
- ✓ We are able to identify drivers that fail to align themselves with our mission of safety