#### Legislative ID# 130805



June 5<sup>th</sup> City Commission Meeting

## Traffic Management System <u>The Next Phase</u>

CITY OF

GAIN

starts with passion

FLORIDA



Presentation by Philip Mann, P.E. Traffic Operations Manager



### **4 Agency Partnership**









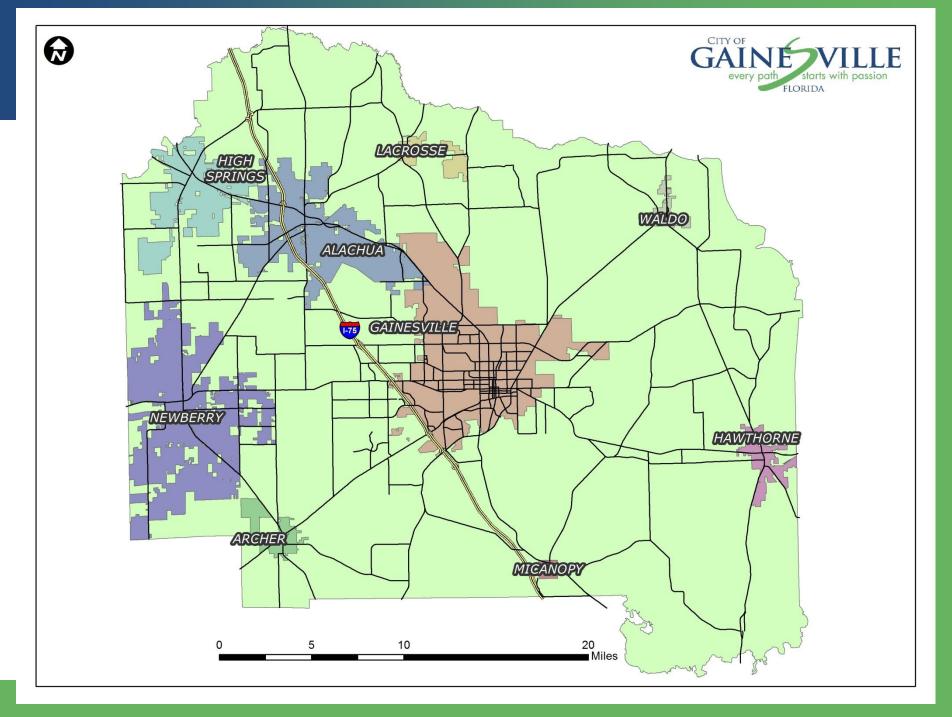




#### Gainesville/Alachua County

# **SMARTRAFFIC**

Advanced Traffic Management System





- New cabinets and controllers at every intersection
- Communications backbone
- PTZ Cameras
- Construction (installing cabinets etc...)
- Consulting services
- Software (signal system, cameras, signal timing...)
- TMC Building
- Equipment for the TMC
- Emergency vehicle preemption/priority



## GAINE VILLE Cabinets & Controllers

- Cabinet and controller change-out:
  - In-house technicians swapped out cabinets







## GAINE VILLE every path Florida Communications



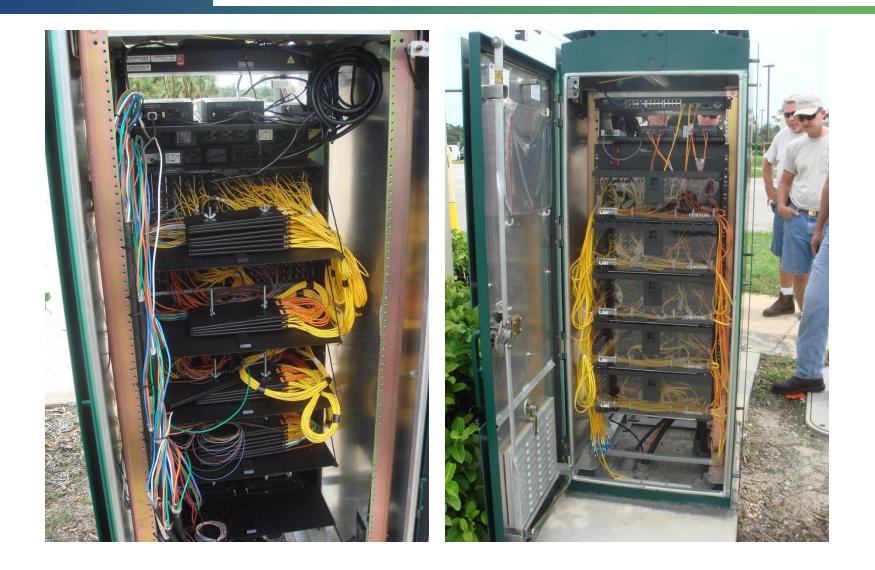


## GAINE VILLE every path starts with passion FLORIDA





## GAINE VILLE every path starts with passion FLORIDA





## GAINE VILLE every path Estarts with passion Traffic Cameras





### **Traffic Cameras (They Don't Record)**

- 200 Traffic Cameras
- 125+ in HD
- 33 Public Access







- Opened in October, 2010;
- Also serves as the City's EOC;
- Built to withstand a Category 5 Hurricane and has a generator to run for 72 Hours;



#### GAINE VILLE very path Florida Traffic Management

### Remote TMC:

- Gainesville Police Department;
- University of Florida Police Department;
- Ben Hill Griffin Stadium (U of F);
- Combined Communications Center / ACSO



#### GAINE VILLE Very pathe storts with possion FLORIDA

#### **Saves Time and Money**

We are able to diagnose and resolve issues without having to send a technician to the field









## GAINE VILLE every pathe starts with passion FLORIDA Traffic Management

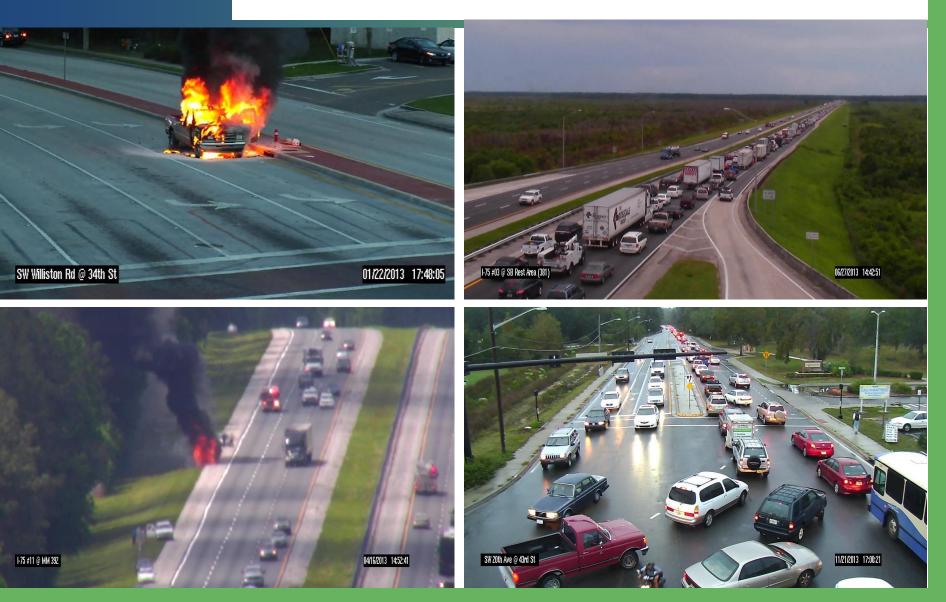














## GAINE VILLE every pathe storts with possion FLORIDA



- Parades •
- **Funeral processions**
- **Police/Emergency Escorts** •







## GAINE VILLE Recent Additions





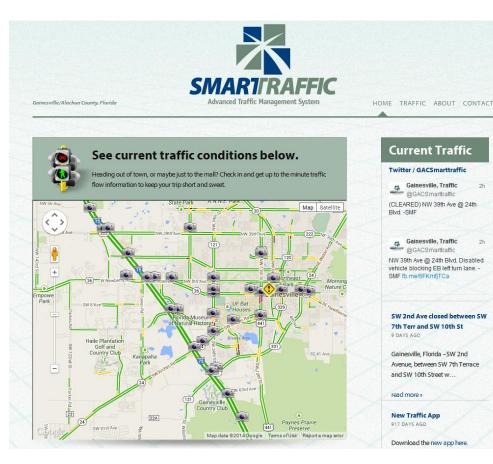
## **Flashing Yellow Arrow**

#### City-wide Flashing Yellow Arrow Deployment



#### GAINÉ VILLE GAC-SmarTraffic.com/

### Gainesville/Alachua County SmartTraffic



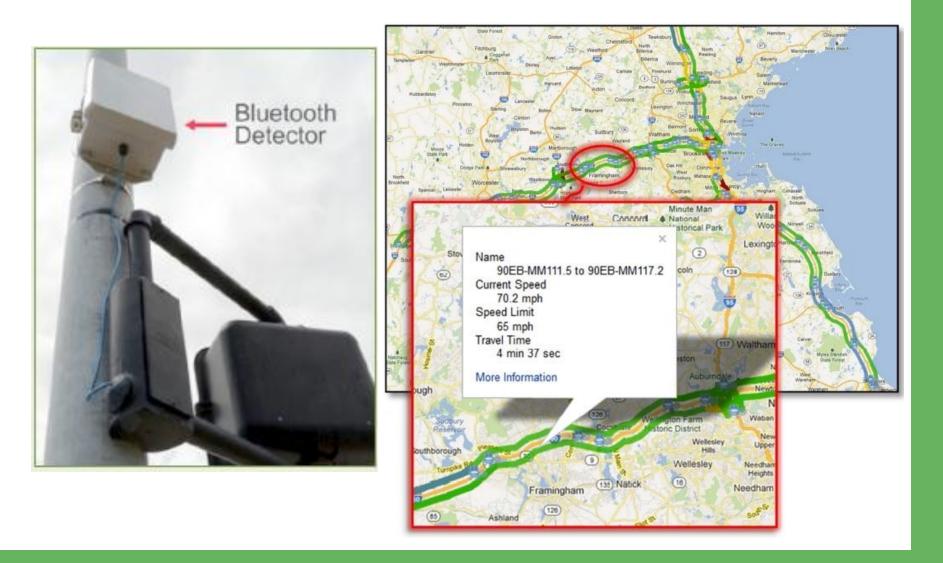
FLORIDA

- Live Traffic Alerts and Updates
- Up to the Minute Traffic Cameras ۲
- Facebook
- Twitter @GACSmarttraffic
- Mobile Friendly Site
- Make Smart Traffic Decisions Y FLORIDA







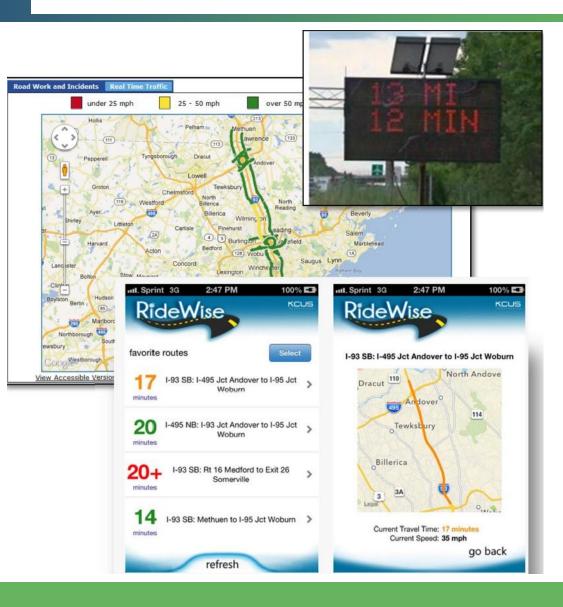




#### -- LOS Thresholds--

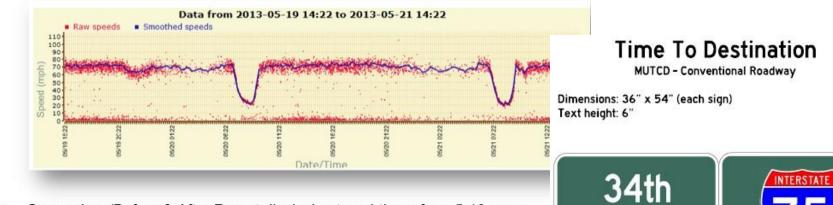
Road Class	A	в	с	D	E	F
FL_Arterial_I	42.0 mph	34.0 mph	21.0 mph	21.0 mph	16.0 mph	0.0 mph
Data						
Day of week	Date	Time	Travel time (s)		Speed (mph)	LOS
Monday	2012-05-21	15:00	298.1		36.23	В
Monday	2012-05-21	15:15	310.4		34.80	В
Monday	2012-05-21	15:30	329.1		32.82	С
Monday	2012-05-21	15:45	367.3		29.40	C
Monday	2012-05-21	16:00	380.5		28.38	C
Monday	2012-05-21	16:15	374.5		28.84	C
Monday	2012-05-21	16:30	374.8		28.81	C
Monday	2012-05-21	16:45	365.1		29.58	C
Monday	2012-05-21	17:00	365.0		29.59	C
Monday	2012-05-21	17:15	364.3		29.65	C
Monday	2012-05-21	17:30	366.2		29.49	C
Monday	2012-05-21	17:45	372.0		29.04	C







 "Speed Graph" highlighting drops in speed each morning; also includes raw data points:

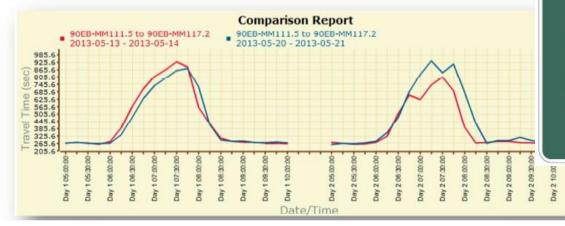


Street

MIN

MIN

 Comparison/Before & After Report displaying travel-times from 5-10am on 5/13 – 5/14 versus 5/20 – 5/21:



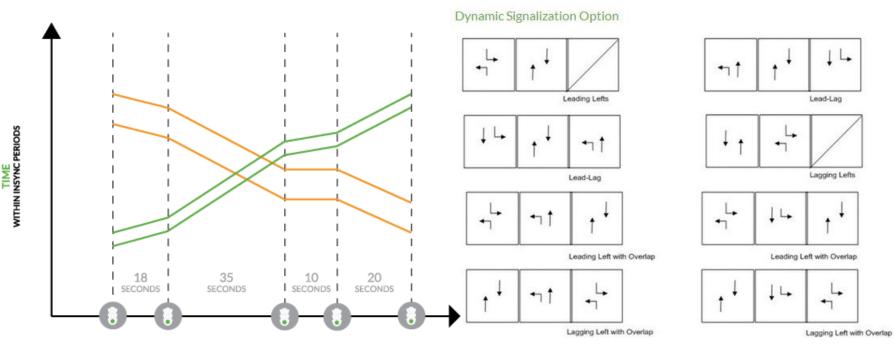


## GAINE VILLE Adaptive Signal Timing





## GAINE VILLE Very pathe storts with passion FLORIDA



TIME FOR VEHICLES TO TRAVEL BETWEEN SEGMENTS





