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Presentation

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UF + FDOT + GNV

Connected Vehicle & Signal Phasing and Timing

Video Detection & Analytics

Central System & Performance Measures
1. Literature and State-of-the-art Review
2. Assist FDOT with Peer Exchange
3. Develop a Roadmap

UF, FDOT, GNV

FDOT $\rightarrow$ State level \textit{Strength}
UF $\rightarrow$ \textit{Intelligence} and expertise
GNV $\rightarrow$ \textit{Relevant} and local real world issue
Connected Signals
Cloud Collaboration
Traffic Technology Services
Cloud Collaboration
Iteris (Vantage Live) Cloud Collaboration
<table>
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<tr>
<td>H_2000_NW_13th_St</td>
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</tbody>
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**1900 NW5 Ave**
- **Last:** 1 Minute 1
- **Contact:** Seconds
- **Current:** None
- **Alarm:** Closed

**Status**
- **AC Voltage:** 120.7
- **Monitor Battery:** 13.7
- **Cabinet Door:** Central
- **Beacon Status:** Schedule - OFF
- **Lamp Status:** OK

**Next Scheduled Event...**
- 6:45 AM Thursday, February Beacon 8, 2018
- **Beacon:** Beacons ON

**More Details...**
TraffiCast/BlueArgus Cloud Collaboration

Speed Map - Gainesville

Select a route:
Show all pairs

Pair Selected: Archer Rd (I-75 E - SW 75th St) - WB

Pair ID: G-18701
Current Speed: 14.0 mph
Speed Limit: 45 mph
Hist. Speed*: 26.0 mph
Travel Time: 10 min 48 sec

Index determined by
- speed limit
- avg last 12 Wednesdays
- custom historical avg

Change Threshold Levels

Start Device: 2477
HB: ● MACs: ● Lag: ● Volts: 11.30

End Device: 2462
HB: ● MACs: ● Lag: ● Volts: 11.30

Refresh Interval: No Refresh
Google “FDOT Connected Vehicle Initiative”

4 Connected Vehicle Project planned in Gainesville! More to Come
VAVZ
Video Analytics for Vision Zero

GNV Cloudframe/WOWZA

Cloud

Microsoft Azure

Train & Learn

Count Data

Near Miss Probabilities

Quantify/Classify
THANK YOU to Some Awesome Partners!

UF – Lily Elefteriadou, Sanjay Ranka, Scott Washburn
Clark Letter, Nithin Argawal, Siva Srinivasan, Lili Du
UF Super Students – Ashkan Omidvar, Patrick Emami, Fabio Sasahara, Dhruv Mahajan

GNV ITS/TMS Team –
Dustin Thomas & Network Team
Joe Crackel & Signals Team
Jeff Gordon & Engineering Services Support

FDOT Traffic Ops – Raj Ponnaluri, Fred Heery and Trey Tillander
FDOT D2 – Pete Vega, Glenn English, Jerry Ausher, Eduardo Gomez

[Logos and company names]