



Presented By:

Mike DiSanza, Corridor Manager
AECOM

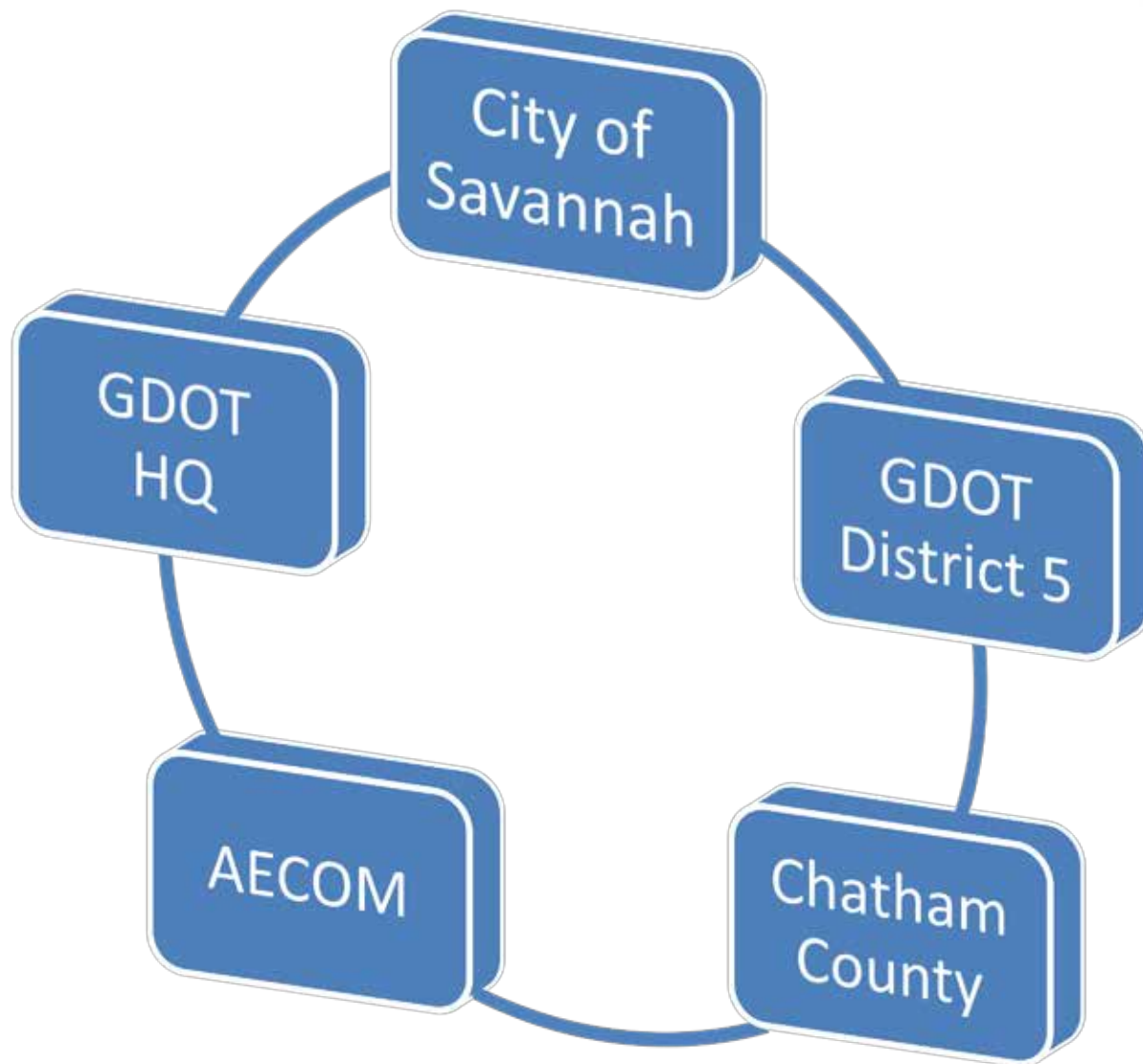
Panel:

Scott Mohler, AECOM
Andy Westberry, GDOT D5
Steve Henry, City of Savannah
Jeremy Mitchler, Chatham County

ITSGA Fall Seminar

October 9, 2017

Signal Operations Partnership!





- 56 signalized intersections – 36 miles
- Program initiated in August 2016
- Clear objectives...

56 traffic signals
35.5 miles

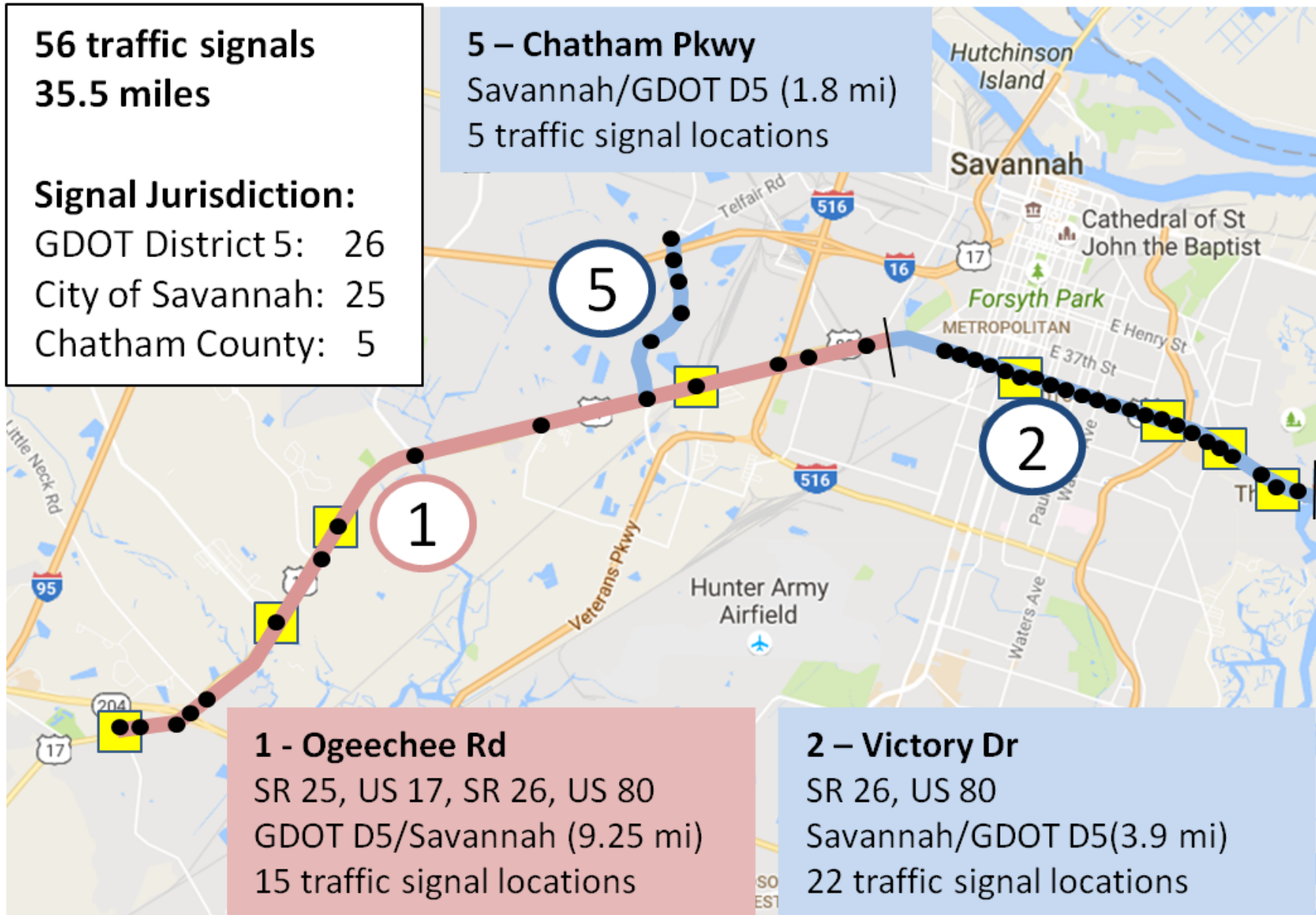
Signal Jurisdiction:

GDOT District 5: 26
City of Savannah: 25
Chatham County: 5

5 – Chatham Pkwy
Savannah/GDOT D5 (1.8 mi)
5 traffic signal locations

1 - Ogeechee Rd
SR 25, US 17, SR 26, US 80
GDOT D5/Savannah (9.25 mi)
15 traffic signal locations

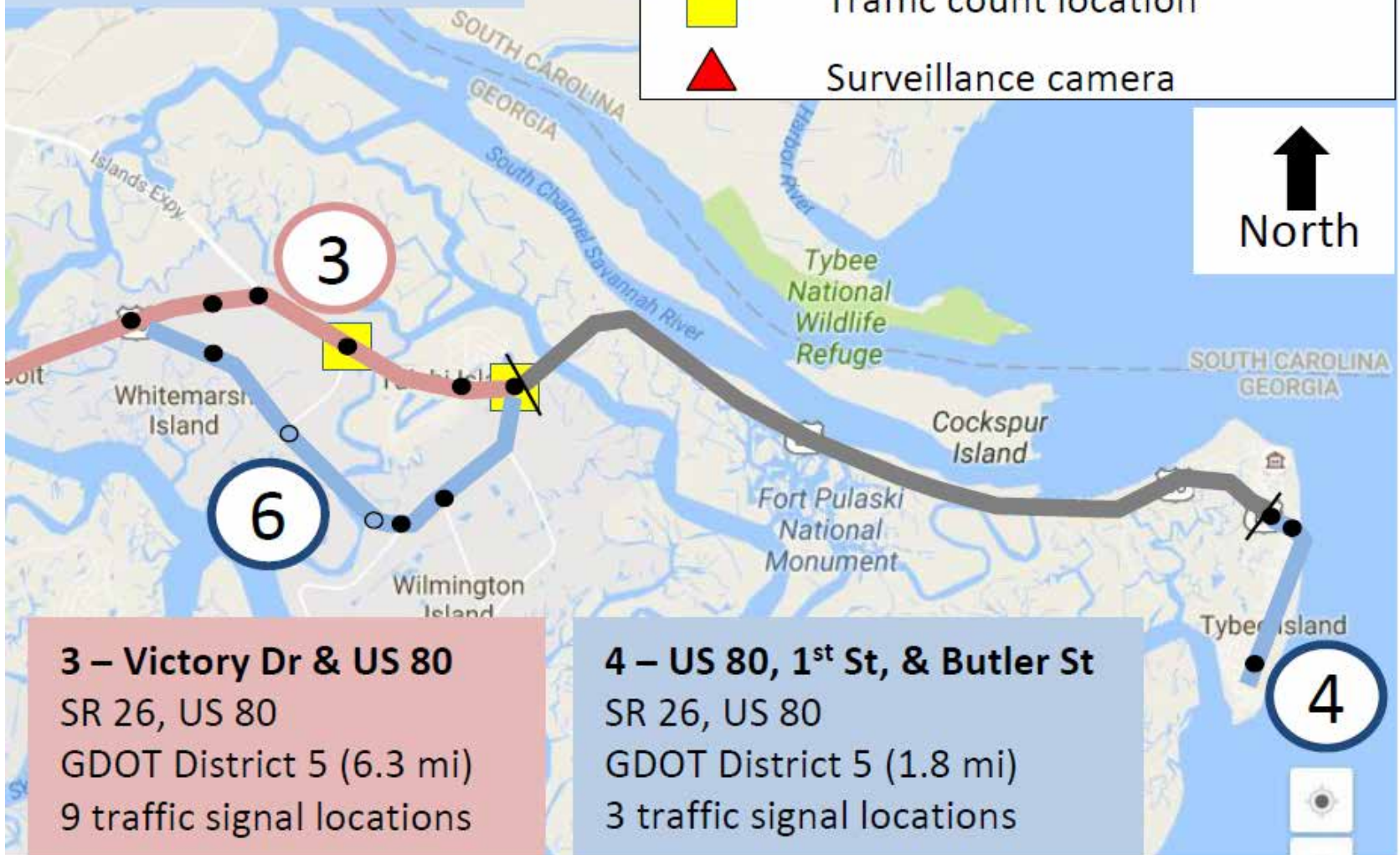
2 – Victory Dr
SR 26, US 80
Savannah/GDOT D5(3.9 mi)
22 traffic signal locations



6 – Johnny Mercer Blvd

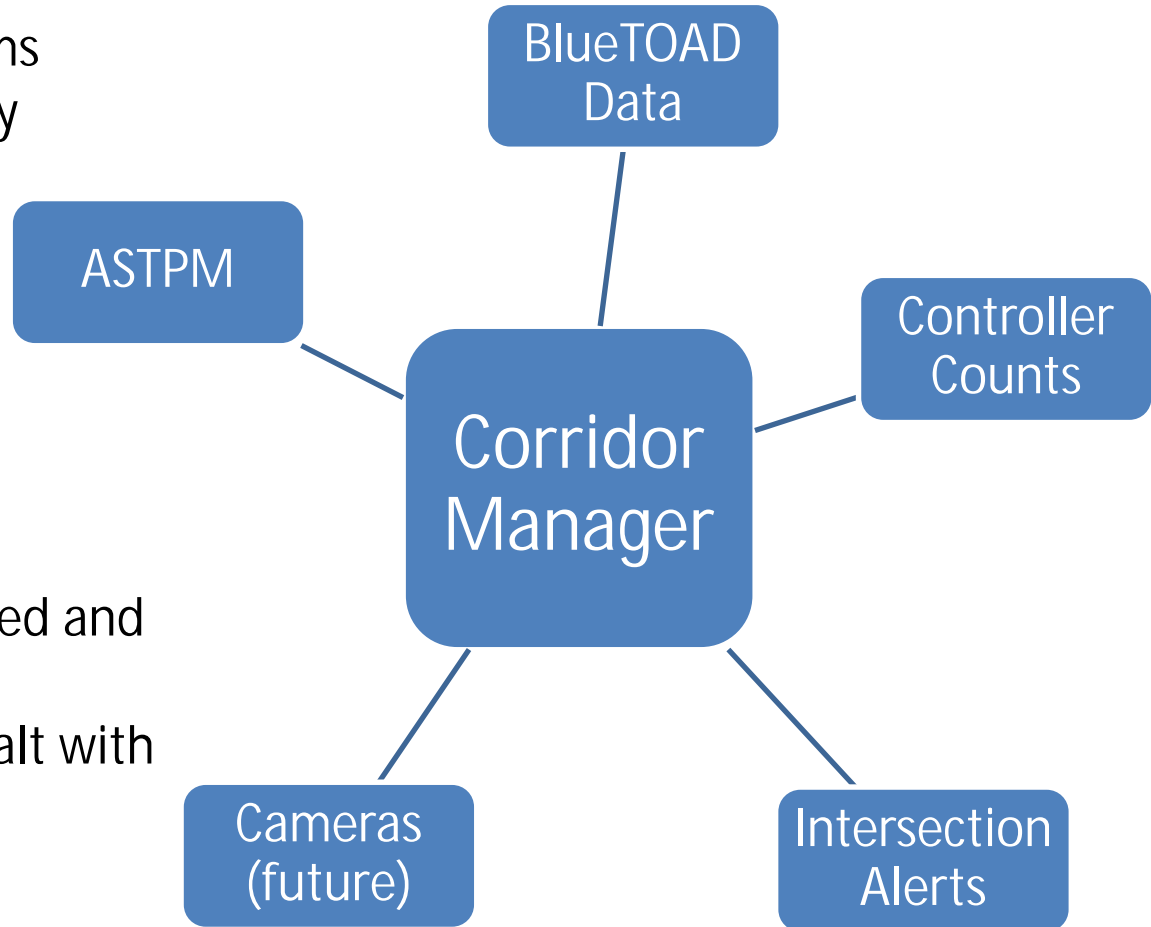
Chatham County (4.8 mi)
5 traffic signal locations

- Signal without communication
- Signal with communication
- Traffic count location
- ▲ Surveillance camera



Technology as a Force Multiplier

Multiple automated systems are set up to report directly to the corridor manager



PROACTIVE!

- Reports of issues are received and responded to more quickly
- Issues can be found and dealt with before the public notices

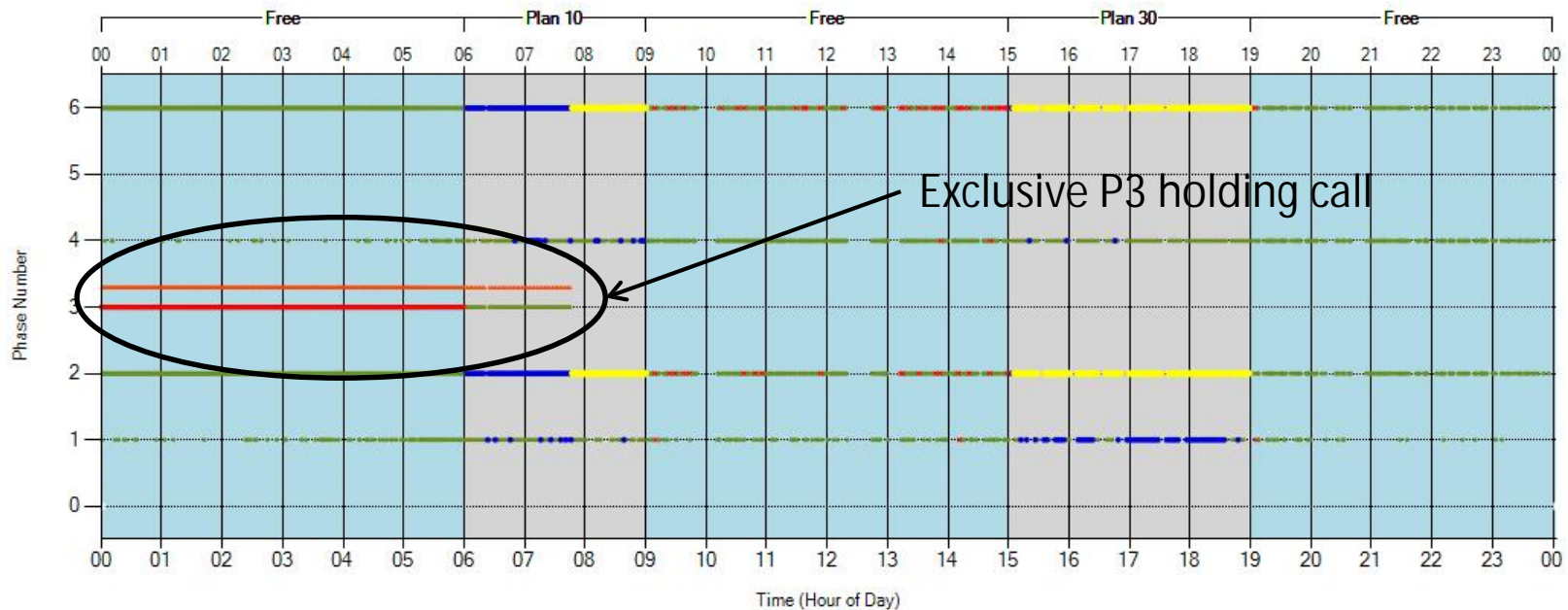


- “Before” and “After” comparisons
- Coordination plan analysis
- Detector troubleshooting
- Alerts

Purdue Phase Termination

SR 25 @ SR 307 Southside - SIG#5158
Friday, March 10, 2017 12:00 AM - Friday, March 10, 2017 11:59 PM

Currently showing Force-Offs, Max-Outs and Gap-Outs with a consecutive occurrence of 1 or more.
Pedestrian events are never filtered





SIEMENS

- Manage signals remotely
- Collect volume data from loops
- Real-time monitoring
- Configured to alert for detector faults, flash, coord. errors, etc.

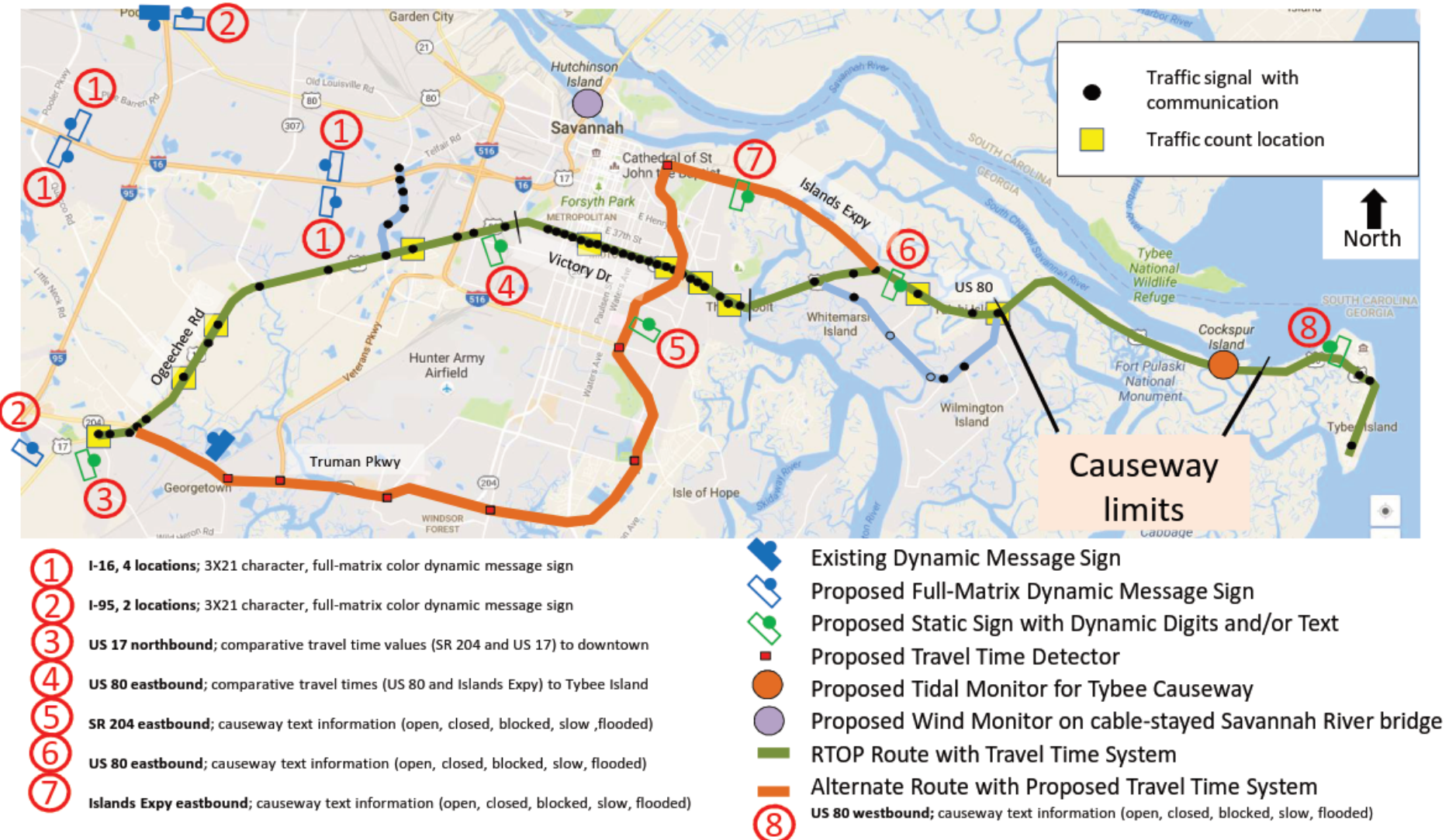
ADT	Chevis		Quacco		Cottonvale		Gamble		Abercorn		Dixie		Skidaway		Mechanics		BryanWoods		JMercerE	
	NB	SB	NB	SB	NB	SB	WB	EB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
0:00	72	137	114	105	86	167	135	95	130	164	126	155	99	90	102	95	86	86	44	80
1:00	29	73	61	55	59	93	78	59	80	112	82	105	68	43	58	45	52	39	25	33
2:00	34	60	46	42	39	64	54	48	75	62	60	58	41	40	41	34	28	25	16	21
3:00	47	56	54	40	58	58	49	47	49	67	49	66	38	42	26	29	20	34	12	19
4:00	94	51	103	39	140	42	52	66	59	93	61	82	46	87	37	51	20	77	7	22
5:00	308	111	260	108	372	90	89	186	111	216	124	166	120	219	84	153	38	184	24	42
6:00	927	291	696	251	982	237	274	505	271	437	303	417	336	730	226	558	147	538	112	145
7:00	1350	607	1180	489	1588	446	504	957	567	720	618	737	676	1239	543	1173	290	1071	193	311
8:00	1109	673	990	576	1373	604	643	1106	722	829	835	934	854	1329	865	1546	479	1166	268	376
9:00	949	691	758	539	910	626	608	804	597	708	795	857	815	1059	909	1187	598	849	380	422
10:00	901	779	704	596	752	689	616	717	589	700	521	571	827	907	880	1017	633	710	435	459
11:00	799	885	726	597	711	750	725	720	633	757	848	939	878	941	960	997	689	753	451	495
12:00	821	1049	784	672	755	945	829	827	685	854	925	1111	978	965	1060	1016	771	770	450	540
13:00	763	1083	761	690	731	895	813	769	698	901	921	1083	951	971	1066	998	761	773	438	529
14:00	741	1076	762	733	708	963	812	742	685	864	855	1054	947	934	1089	1010	734	770	438	560
15:00	735	1254	779	859	686	1200	923	711	672	925	898	1095	1045	945	1124	899	924	863	469	635
16:00	739	1536	776	1119	663	1692	1092	759	793	990	973	1143	1123	905	1339	932	1052	785	517	584
17:00	806	1789	811	1433	761	2221	1227	802	898	1048	1036	1234	1235	962	1579	890	1316	779	540	584
18:00	704	1603	698	1261	623	1867	958	632	707	831	894	1111	1014	846	1307	870	1127	701	505	514
19:00	540	1124	679	699	517	1025	656	456	544	653	724	845	773	562	941	620	702	476	348	367
20:00	432	896	600	532	399	779	505	373	460	585	653	709	642	486	732	491	542	408	275	345
21:00	358	682	511	447	336	684	451	332	410	534	518	565	520	408	587	408	383	356	191	322
22:00	260	463	337	294	247	448	317	242	296	447	334	392	308	297	388	292	291	230	146	213
23:00	161	295	222	188	163	311	230	169	222	279	213	259	199	209	216	212	249	190	99	170
Totals	13678	17261	13412	12363	13661	16899	12640	12123	10953	13777	13366	15689	14532	15219	16156	15522	11931	12630	6382	7787
	30939		25775		30560		24762		24730		29055		29752		31679		24562		14169	

Tybee Island

- One road on and off – accidents can impact traffic for hours



Traveler Information System Concept



Tybee Island Timing

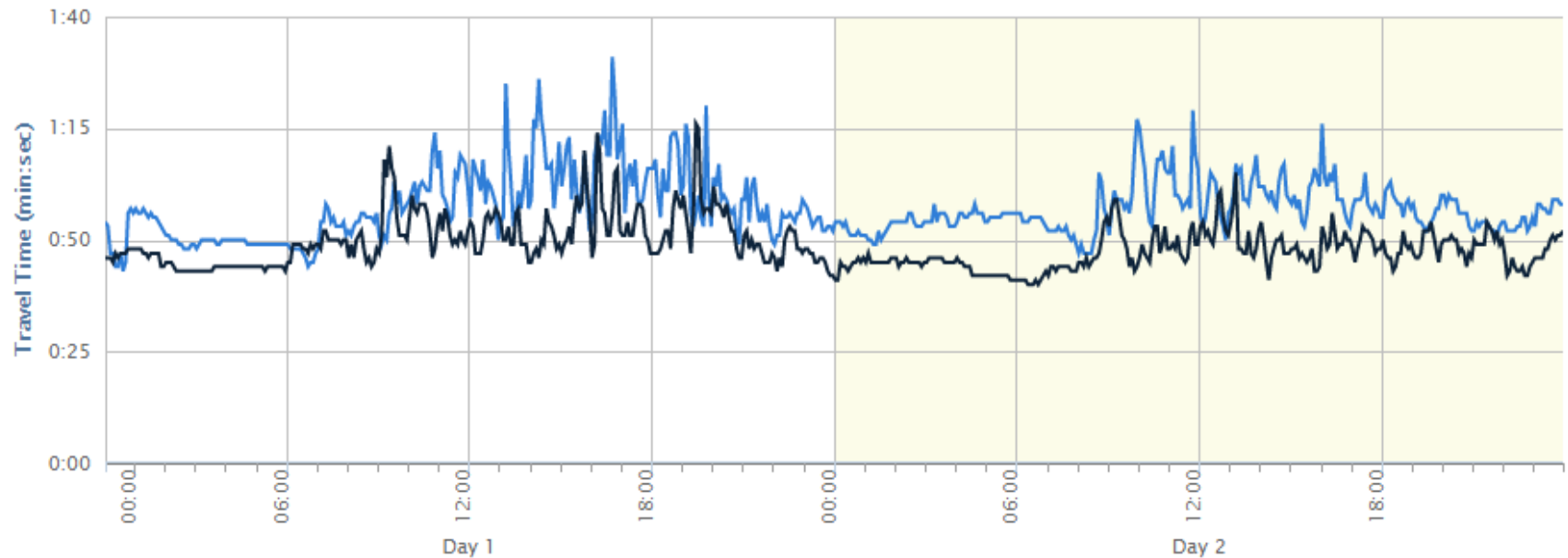
- Traffic to/from beach increases as weather warms up
- Summer is peak traffic season
- Memorial Day, 4th of July, Labor Day
 - Heavy holiday traffic
- Challenges-
 - Inconsistent traffic by time of day
 - Sudden summer storms cause unpredictable heavy outbound traffic



- “Before” and “After” comparisons
- Coordination plan analysis
- Real-time monitoring
- Allows overview of entire corridor

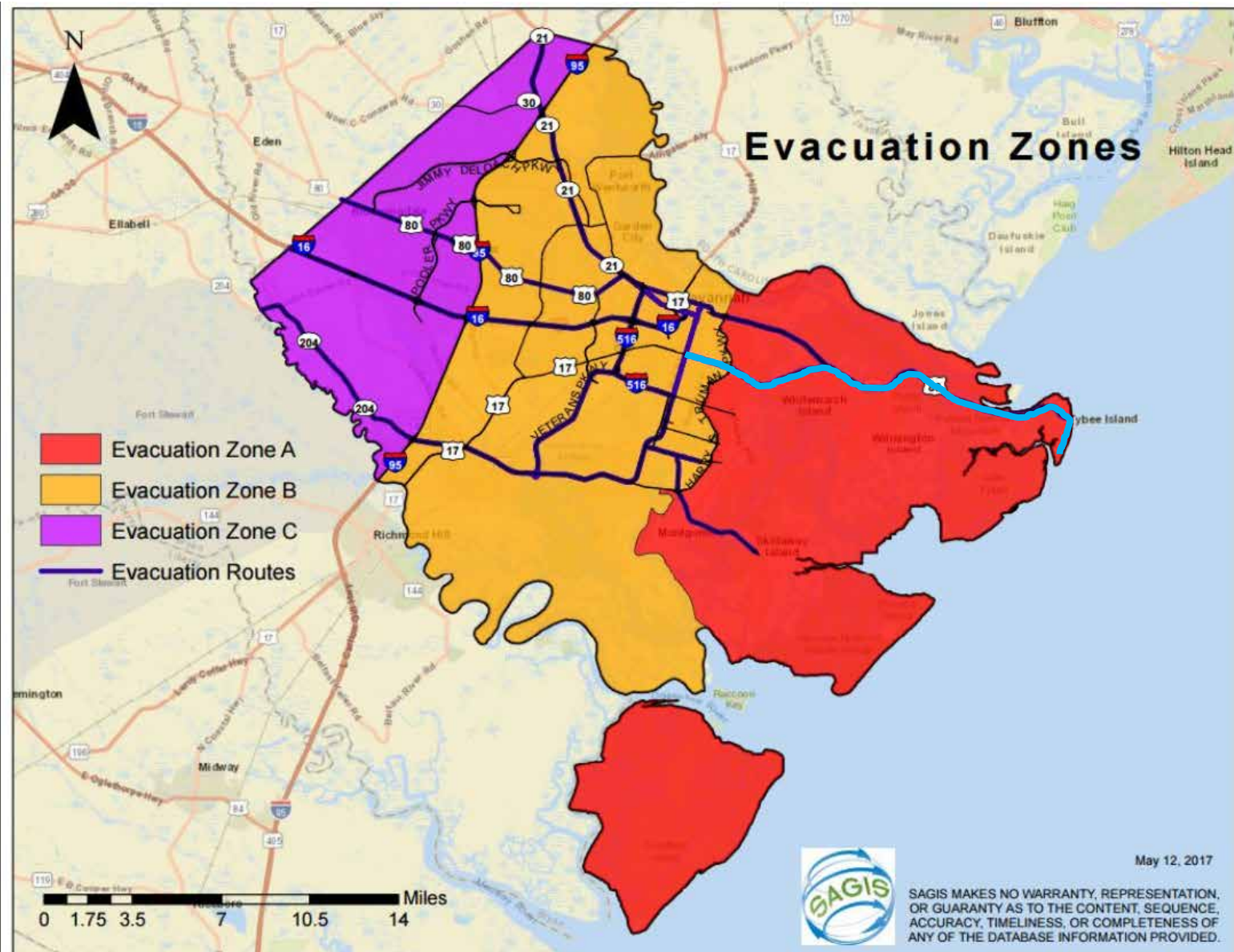
Comparison Report: Smoothed Speed (5-min)

Time Interval: 00:00:00 – 23:55:00



- Jones Ave to Campbell Ave – (2017-05-20 – 2017-05-21)
- Jones Ave to Campbell Ave – (2017-06-17 – 2017-06-18)

Hurricanes Matthew and Irma



Hurricanes Matthew and Irma

Matthew (10/7/2016)-

- No Comm.
- Developed evacuation plan for connected signals on Victory Dr. w/ City of Savannah
 - Did not implement
- Aided in cleanup and recovery
 - Report issues to local authorities
 - Aid in flash restoration, generator hookup

Hurricanes Matthew and Irma

Irma (9/11/2017)-

- Fully established comm. along evacuation route
- Monitored evacuation traffic with BlueTOAD/MaxView/TACTICs
 - Implemented Victory Dr. evacuation plan developed for Matthew
 - Low Evacuation volume
 - Ran for 8hrs on 9/9/17
- Adjusted timing plans for Tybee/Wilmington island
 - Lowered Cycle Lengths on coordinated signals
 - Increased Max times on un-coordinated signals
- Aided in cleanup and recovery
 - Report issues to local authorities



Panel

Scott Mohler, AECOM

Andy Westberry, GDOT D5

Steve Henry, City of Savannah

Jeremy Mitchler, Chatham County

Thank You!

Mike DiSanza, IMSA II

SRTOP Corridor Manager

mike.disanza@aecom.com

912-247-2863

