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Mercedes-Benz Stadium

Rethinking Gameday Traffic Operations





Mike Blanchette, PE February 27, 2019

Agenda

- Special Events Planning
- Development of Plans
- Implementation of Plans
- College Football National Championship
- Super Bowl LIII

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Partnership

















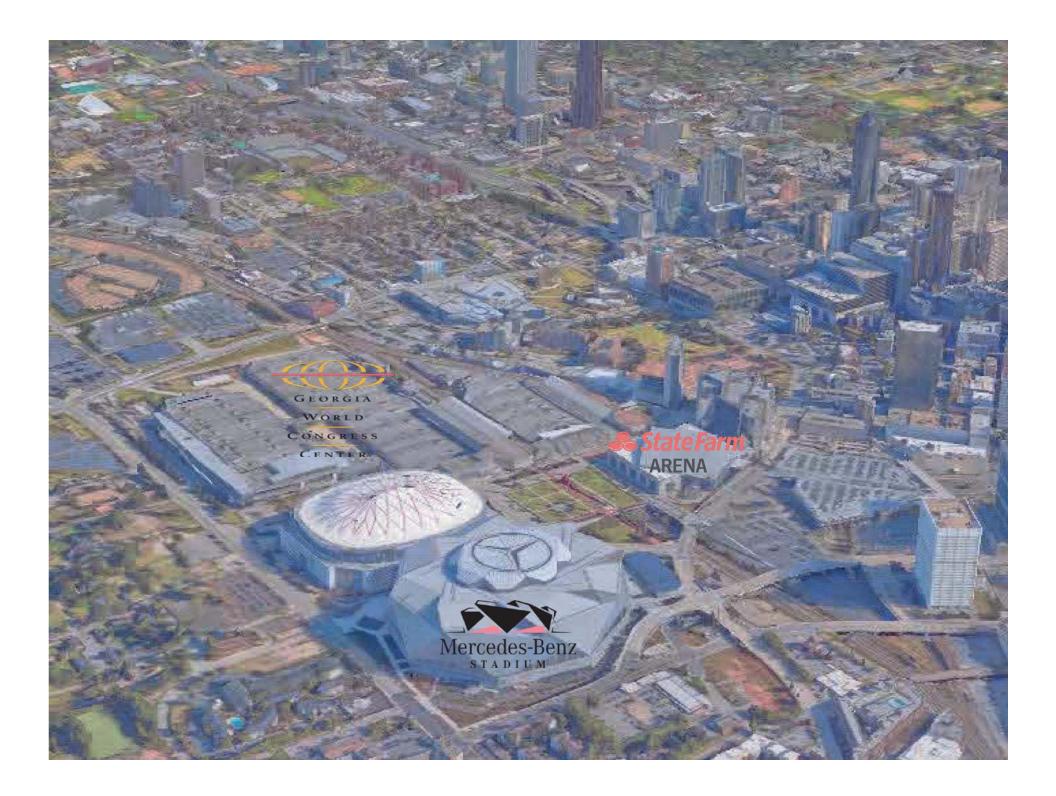






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Comprehensive Special Events Plan

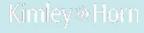
- Prior to 2017, all venues had separate plans, with varying levels of sophistication, and minimal coordination between venues
 - Minimal use of signal timing
 - Typical Georgia Dome event, 100+ signals in flash
 - Multiple public agencies involved in permitting process, with minimal coordination
 - "Road closure permit for party food delivery, during heart of Chick Fil A Kickoff Classic Ingress"
- Comprehensive special events planning effort began by CAP in Summer 2017
 - Funded through Downtown CTP study
 - "Downtown Atlanta Special Events Playbook"
 - Initially a "high level" organization of all venues traffic plans with additional coordination recommendations

Playbook Guiding Principals

- Provide for safe, reliable, and efficient vehicular and pedestrian event flow and minimize impacts to neighboring communities
- Leverage available infrastructure and technology through collaborative partnerships and cultural shifts
- Recognition that Downtown Atlanta plays host to numerous special events, often occurring in an overlapping manner across multiple venues and facilities.
 - MBS 71,000 seats, expandable to 83,000
 - Phillips Arena Top 10 worldwide concert venue in ticket sales
 - GWCC 3rd largest convention center in US
 - Top 5 tourist destination in US over 50 million visitors per year
 - Georgia just passed Hollywood for #1 filming location in the world

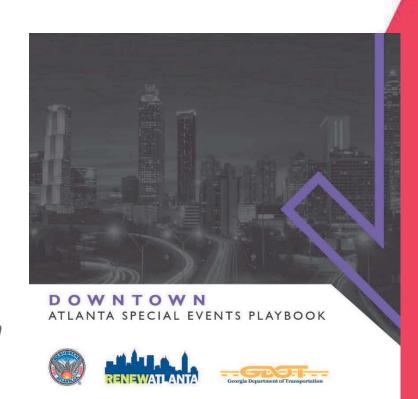


ROP



Development of Playbook

- High-level planning effort quickly evolved into full traffic plan development and operations
- Levels of event management and coordination established
- New holistic development of special event traffic plans
- Special event signal timing plans developed
- Sprint
 - August 26, 2017 (Falcons Preseason Game – MBS Opener)
- Marathon
 - 2017 Atlanta Falcons / Atlanta United season
 - January 8, 2018 (College Football National Championship)



DOP

ROP

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Event Management Levels

GREEN

Local event, most flexibility for closures and additional events

YELLOW

ORANGE

RED

Regional event, most scrutiny for closures and additional events

Increasing Event(s) Population













Recommended Management

- Rush hour traffic Rush hour traffic Rush hour traffic management management management On-call event traffic - I active event traffic - 2 active event traffic WEEKDAY manager managers manager - Contraflow likely - Multiple contraflows - Coordinate with TMC likely Coordinate with TMC for interstate signs for interstate signs On-call state highway signal management (RTOP/DTOP) On-call event traffic - I active event traffic 2 active event traffic manager managers manager WEEKEND Contraflow likely Multiple contraflows - Coordinate with TMC likely for interstate signs - Coordinate with TMC for interstate signs On-call state highway signal management (RTOP/DTOP)

Increasing Event(s) Population













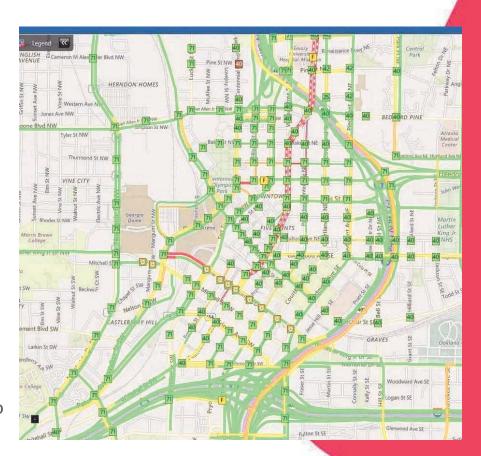
Officer Assistance

- Officers work with traffic signal timing minimal signals in flash
- Officers focus on vehicular and pedestrian safety
 - Officer's primary role is separating pedestrians from traffic
 - Officer's secondary role is restricting vehicles from "blocking the box"
- Officer safety is enhanced and staffing can reduced by allowing the signal timing to control intersections



Signal / ITS Upgrades

- GDOT / DTOP / RTOP
 - Prior to 2017
 - Limited special event timings
 - No coordination with Police and venues
 - < 25% communication to signals
 - Early 2017
 - MaxTime / MaxView Conversions
 - 4G Communication 100% communication to signals



Signal / ITS Upgrades

- Renew Atlanta
 - 40+ CCTVs installed
 - 5 Blank-out signs
 - 16 Cabinet Upgrades
 - Flashing Yellow Arrows
 - Data Collection and Detection Devices

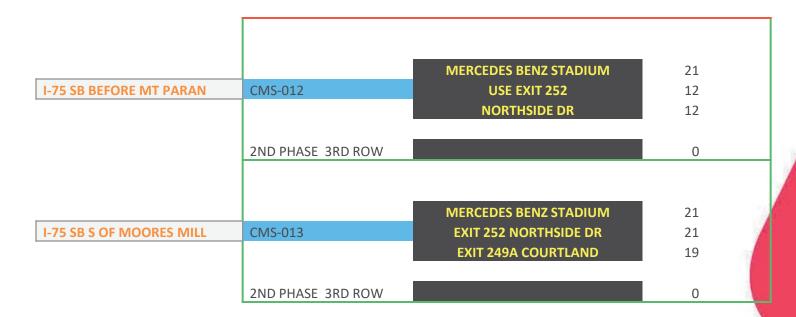






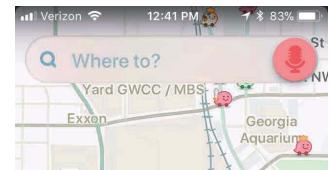
Additional Partnerships

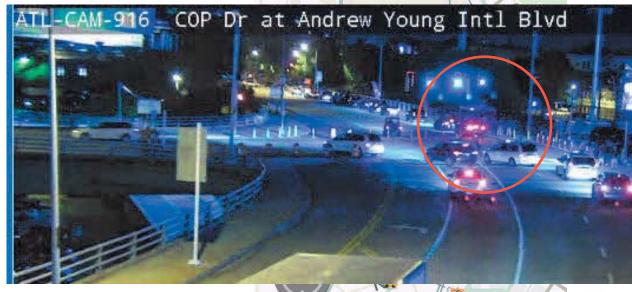
- GDOT ITS
 - Typical event Interstate DMS messaging



Additional Partnerships

- GDOT ITS
- Rideshare
- Waze



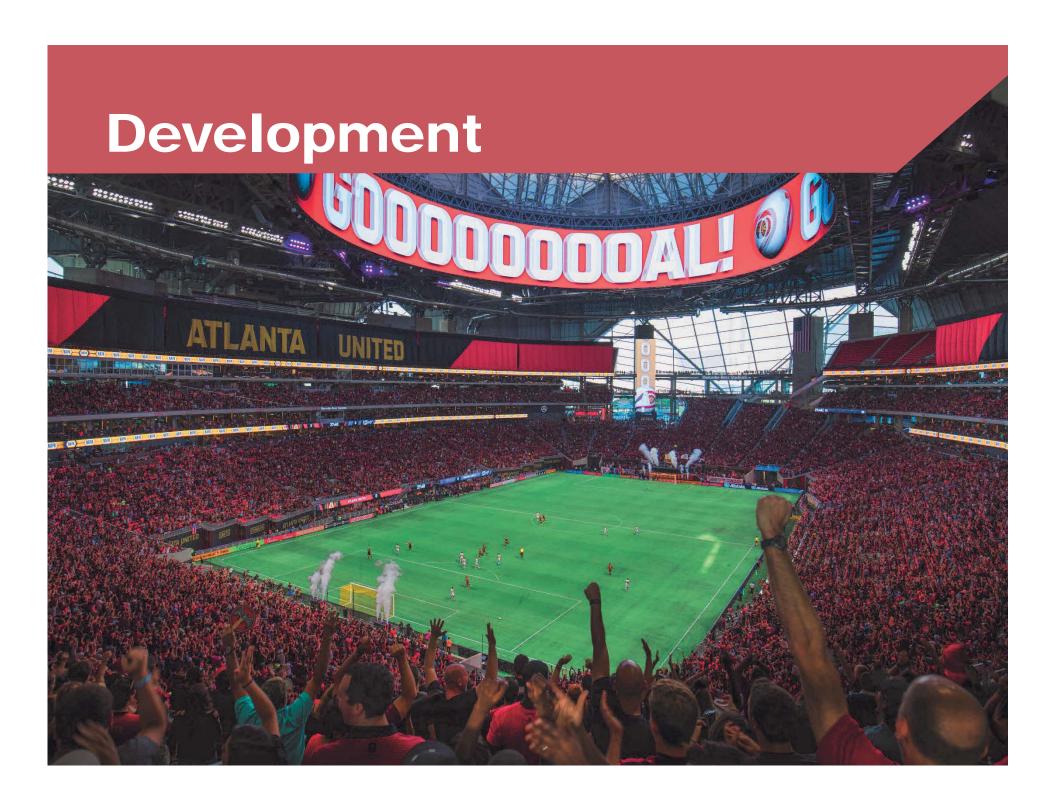




Good afternoon

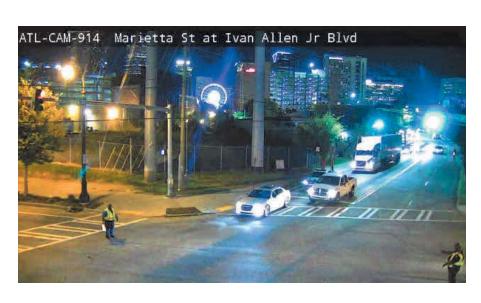
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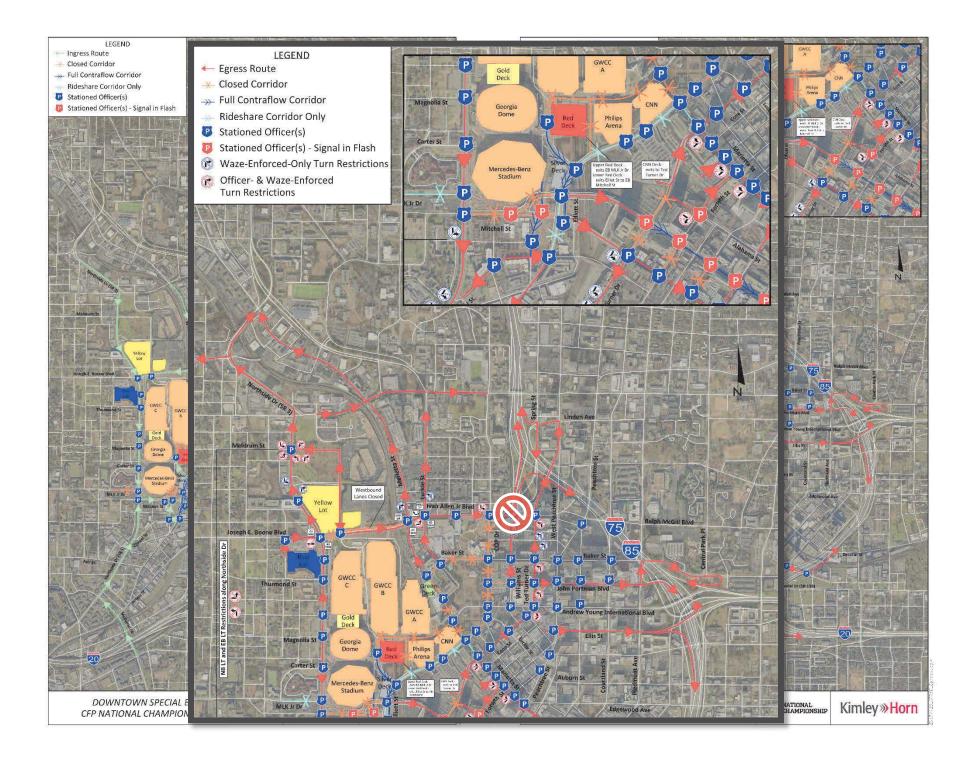
Traffic Plan Development

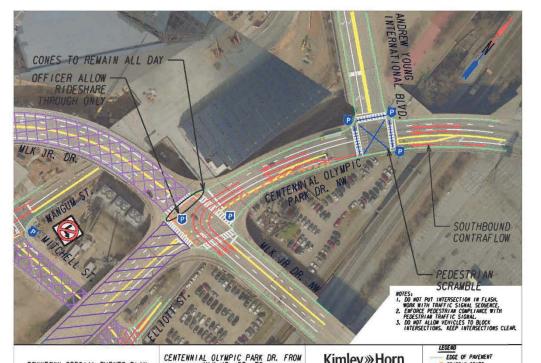
- Officers work with traffic signal timing
 - Minimal signals in flash
- Road Closures
- Turn Restrictions
- Contraflow Corridors
- Police Locations
- Rideshare Locations





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DOWNTOWN SPECIAL EVENTS PLAN CONCEPTUAL INTERSECTION LAYOUT 3b ANDREW YOUNG INTERNATIONAL BLVD. EGRESS

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Engineering, Planning, and Environmental Consultants Suite 601, 87 West Poschine Street, NW. Afanta, GA 30308

EDEC OF PAVEMENT

FRAFFIC COMES

STATIONED POLICE OFFICER

COSED CORRIDOR

ZZZZ RIDESMARE CORRIDOR ONLY CENTENNIAL OLYMPIC PARK DR. MI ENFORCE MEDESTRIAN SCRAUBLE -Kimley»Horn EDGE OF PAVENENT

DOWNTOWN SPECIAL EVENTS PLAN CONCEPTUAL INTERSECTION LAYOUT 9b

CENTENIAL OLYMPIC PARK DR. FROM PARKING DECK ENTRANCE TO MARIETTA ST. EGRESS

Engreeing, Pleaning and Engraveries/Consultary Sub-301-817 West Pestana Street RW Allerta GN 30000

TRAFFIC COMES

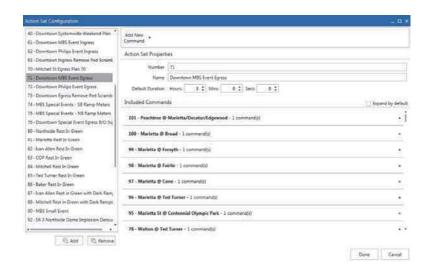
STATIONED POLICE OFFICER

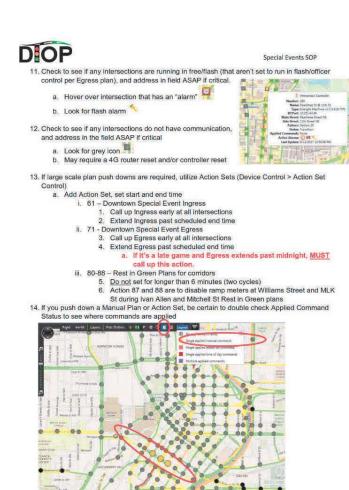
CLOSED CORRIDOR

RIDESHARE CORRIDOR ONLY

Signal Timing

- Multiple Ingress / Egress Patterns
- Pedestrian Scrambles by TOD
- Ped Pulses
- Ped Holds
- Phase Holds
- Rest in Green Flush Plans (Preempt)
- Action Sets
- Training/SOP

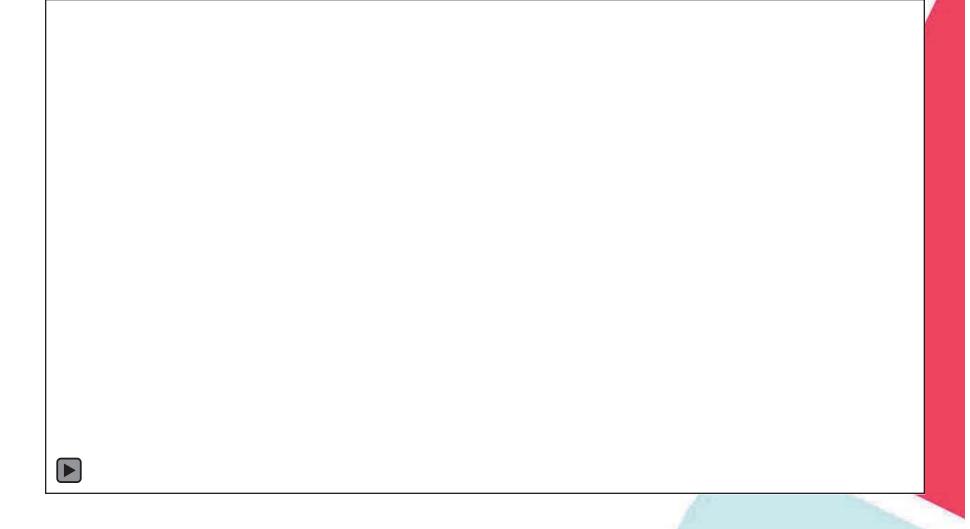




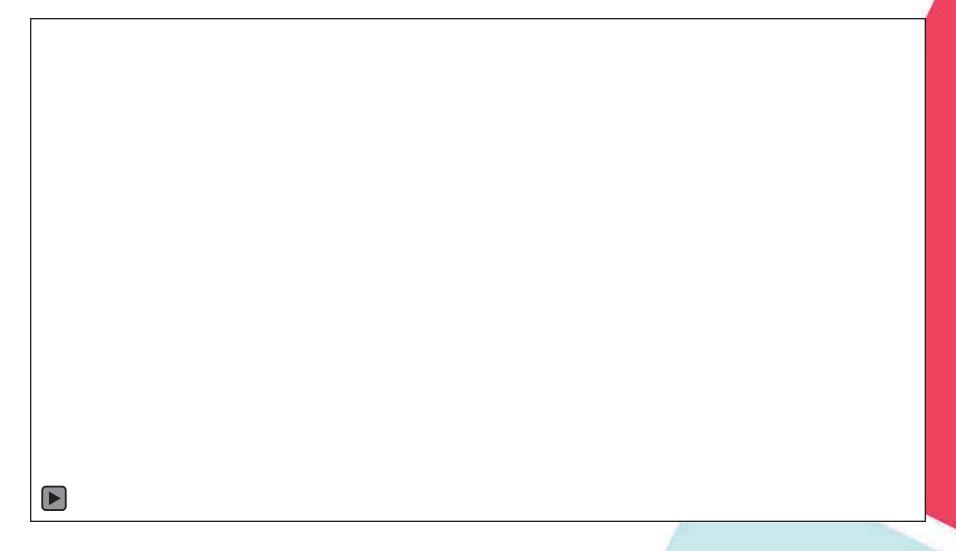
Updated: 3/14/2018

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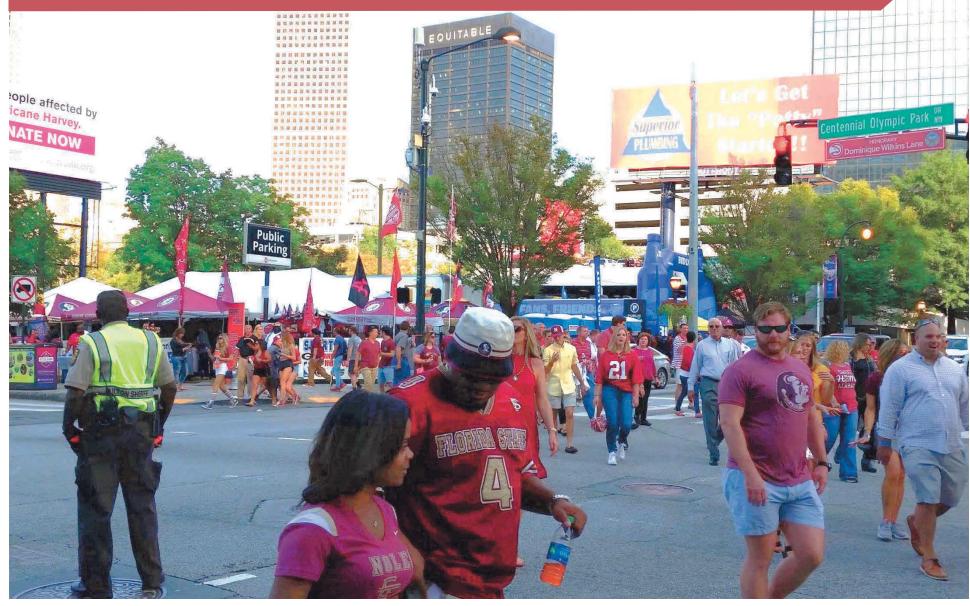
Pedestrian Scramble



Pedestrian Holds

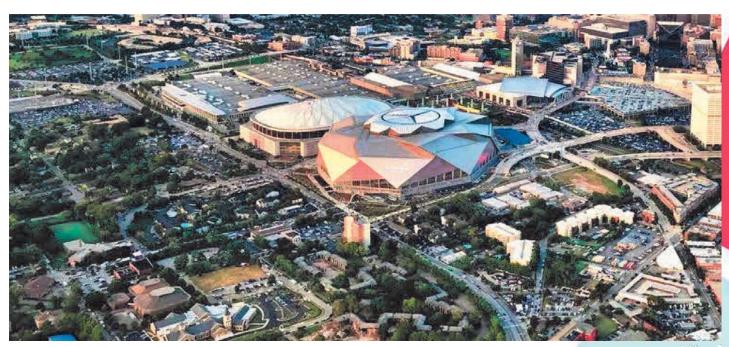






Events Managed

- Birthday Bash at Phillips Arena
 - Tested special event timings in coordination with Police
 - Typical 90 minute egress cut to 45 minutes
- MBS Opener Falcons Preseason Game
 - Full implementation of plan
- Chick Fil A Kickoff Classic
 - First "real" game

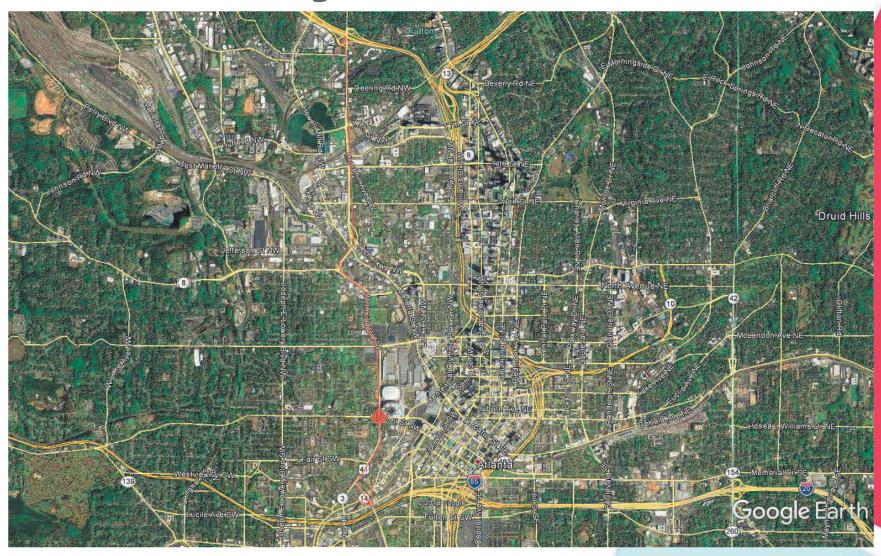


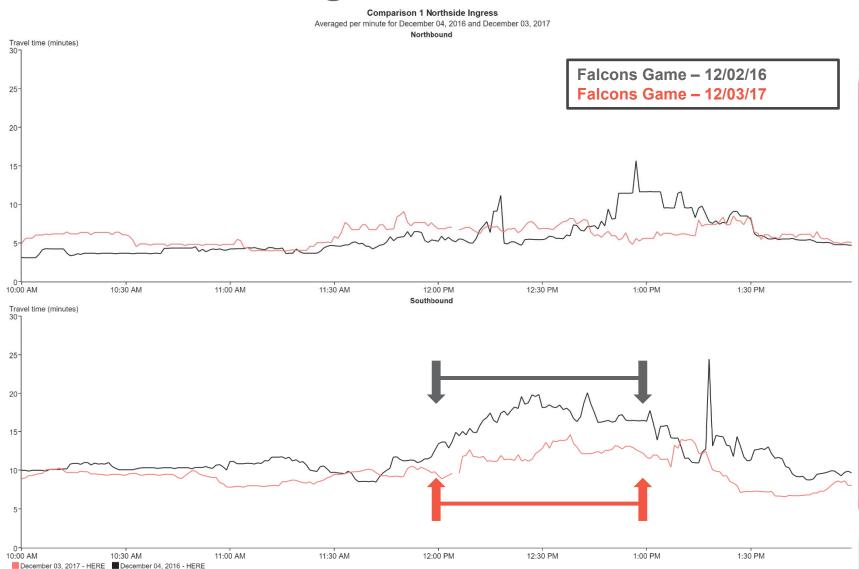
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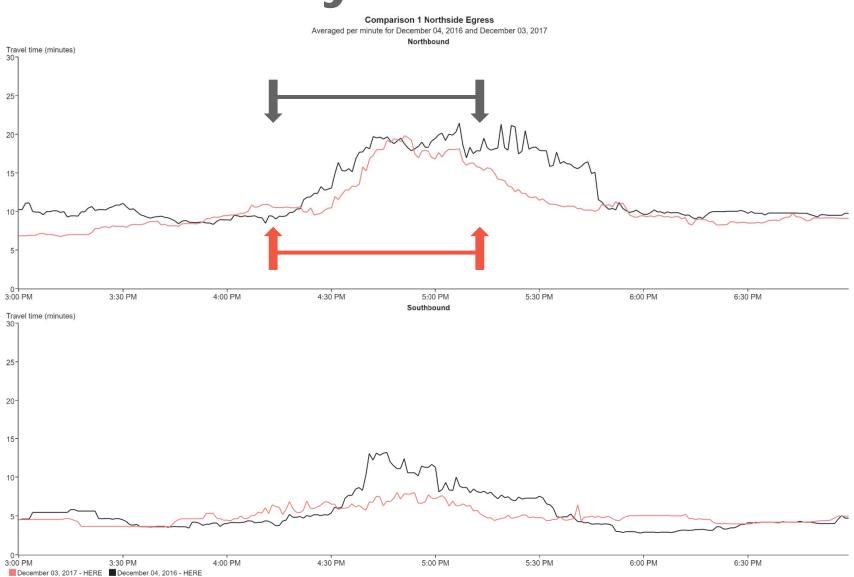
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- MBS Opener Falcons Preseason Game
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- Chick Fil A Kickoff Classic
 - First "real" game
- Atlanta United matches
 - 2 broke MLS Attendance record (over 70,000)
 - Average 45-60 minute Egress
- Atlanta Falcons games
 - Average 60-75 minute Egress
- Garth Brooks concert
 - Highest attendance at MBS over 80,000
- SEC Championship
- Peach Bowl
- College Football National Championship
- Super Bowl LIII

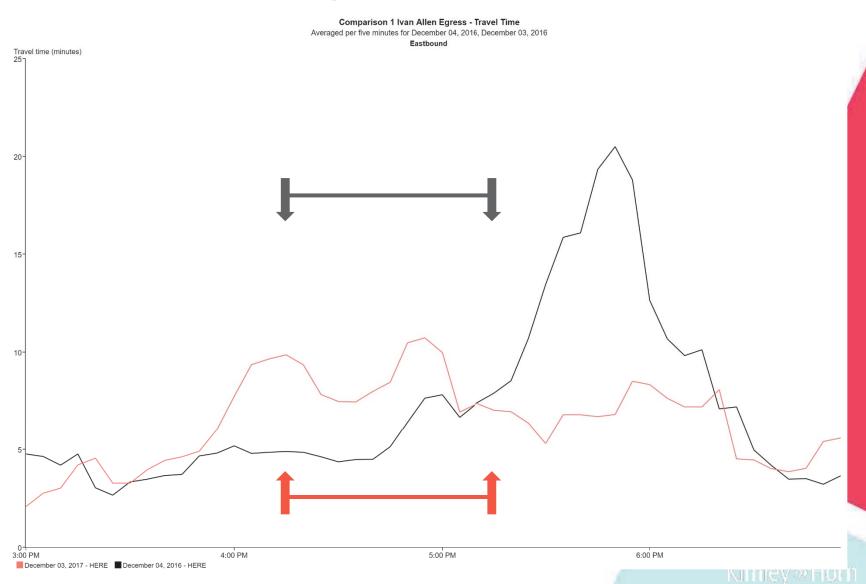




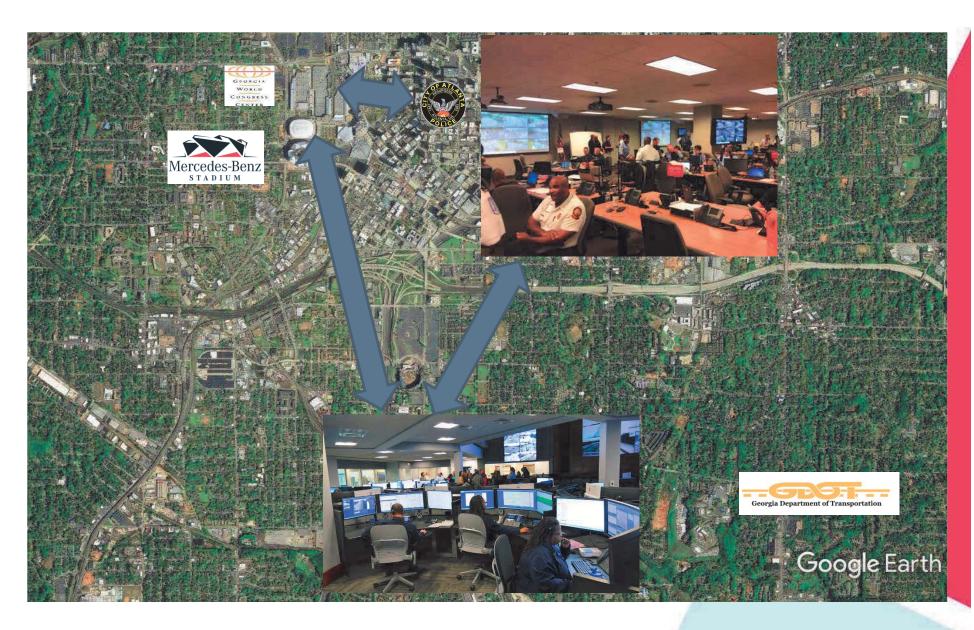












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Timeline

- ~12:00 Begin monitoring Ingress operations
 - Staff at GDOT TMC
 - D7 at JOC
 - DTOP/RTOP "boots on the ground"
 - Anticipated closures for POTUS at ~18:15
- 12:00 17:00 Everything is awesome!!!!
- 17:00 17:15 Hmm, something funny is happening
 on Northside... but who cares, everything is awesome!!

Timeline

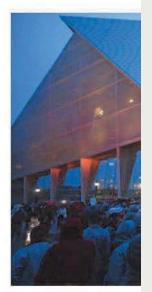
- 17:15 Northside (and soon after, Ivan Allen) is fully cleared, closed and shutdown for President's motorcade
 - One hour before it was supposed to happen
- 17:39 Northside @ Ivan Allan closure remains, but police beginning allow passenger vehicles through 20 at a time
- 17:53 Gate 1 shut down for POTUS. Northside peds being pushed away from MBS, and diverted to other gates

Timel



Scene outsid





Fans wait outside Mercecles-Benz S on Jan. 8. (Christian Petersen / Get

Ninety minutes before ki scene outside Mercedes-l

Irate Alabama and Georgia fans wait hours in rain for national championship

Updated Jan 9, 2018; Posted Jan 8, 2018



Fans wait in the rain to enter the Mercedes-Benz Stadium in Atlanta for the College Football Playoff national championship. (AP)











By Joseph Goodman, jgoodman@al.com

Thousands and thousands of soaking wet and irate Alabama and Georgia fans waited for up to two hours in the rain to enter Mercedes-Benz Stadium on Monday for the College Football Playoff National

s on chaos











Timeline

- 18:06 Northside and Ivan completely shutdown
- 18:08 Interstate ramps start being closed
- 18:23 POTUS on interstate
- 18:33 POTUS exits interstate
- 18:36 Interstate reopened
- 18:41 Gate 1 reopened
- 18:48 Northside reopened
- 18:48 19:33 Insanity
- 19:33 Visual confirmation of clear roads (45 min before kickoff)

Egress

• ~22:43 ...

• 00:10 – Game over...

00:40 – Champions cer

01:19 – MLK contraflow removed

01:40 – Officers pulled from street; Northside,
 Marietta, COP, Mitchell visually confirmed clear

02:00 – Last rest in green flush on Ivan Allen

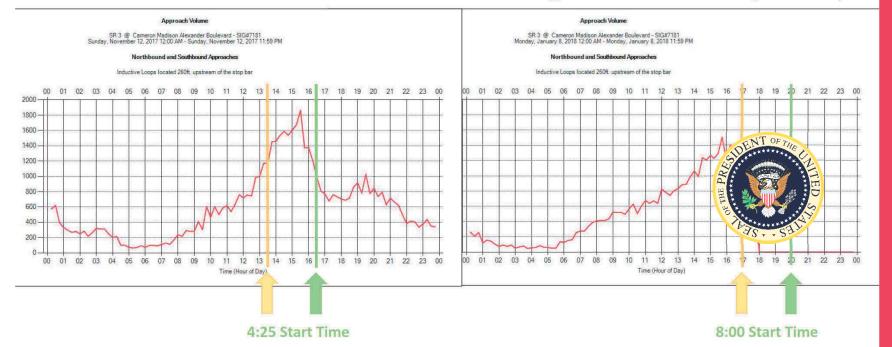


ATSPM Data

SR 3 @ Cameron Madison Alexander Blvd

Cowboys vs. Falcons

College Football Championship

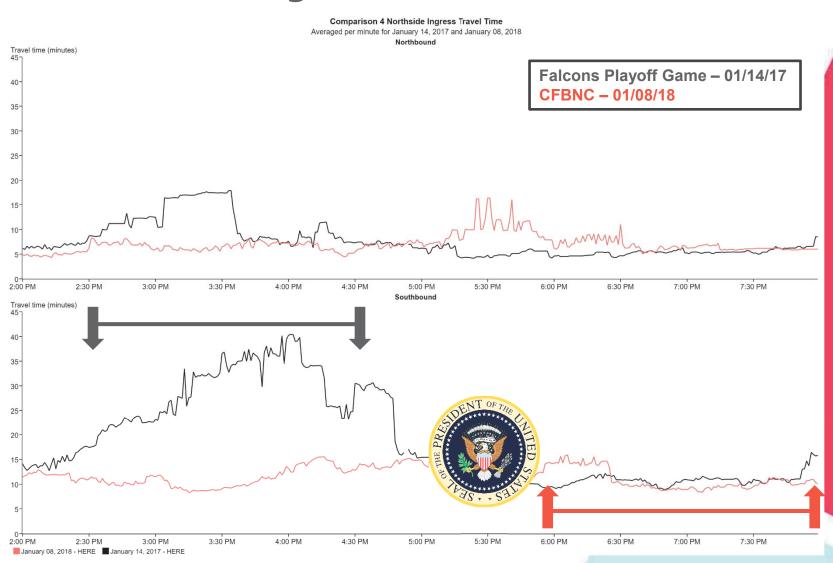


Flow Rate = 1,200 vph

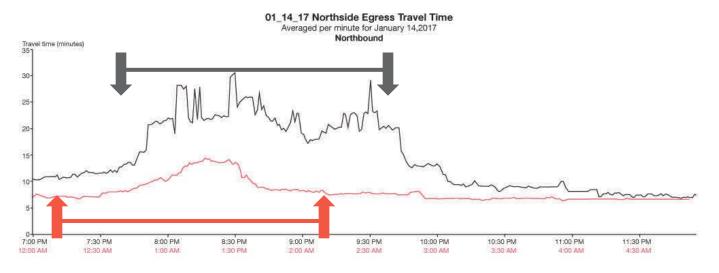
Flow Rate = 1,300 vph @ 15:00

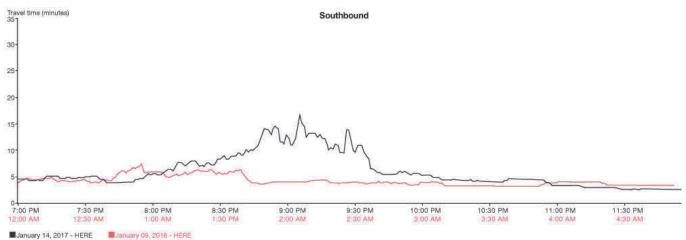
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RITIS Analysis

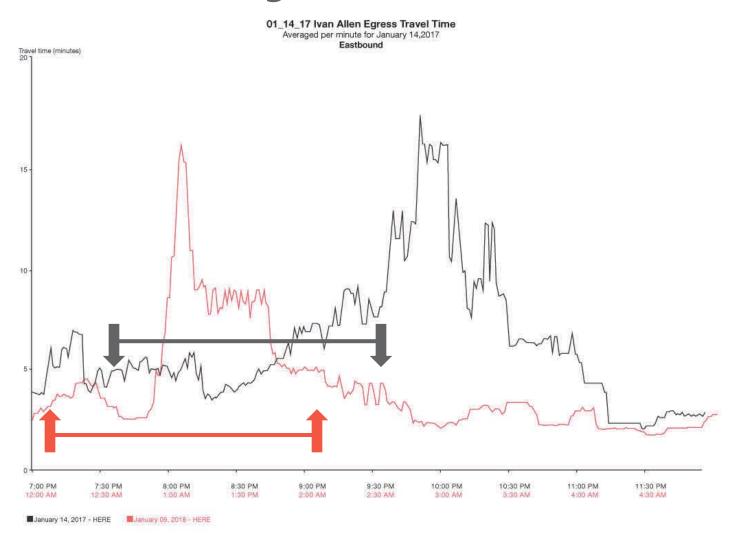


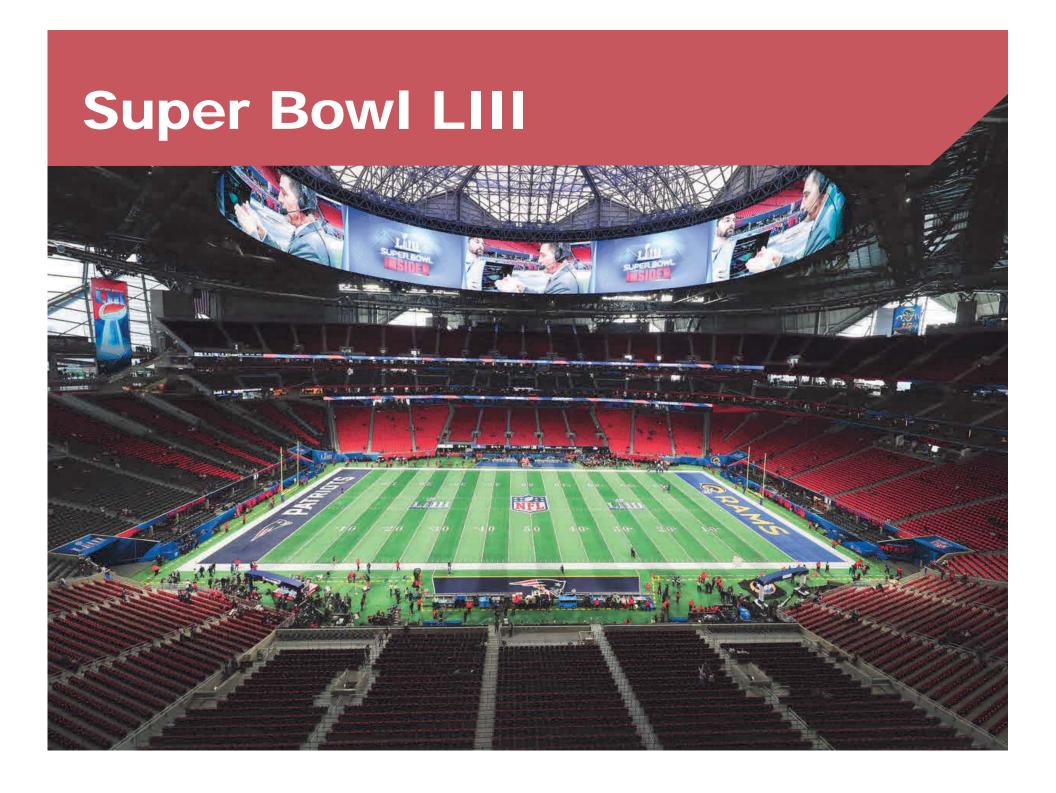
RITIS Analysis





RITIS Analysis





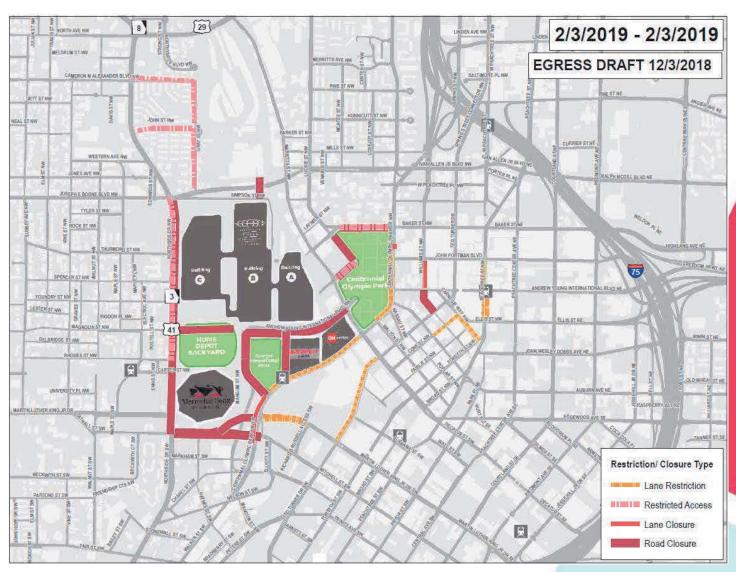
New Challenges

- New partnerships
 - APD
 - GSP
 - SP+
 - NFL
- Staffing
 - GDOT TMC (1/25 2/4)
 - Major downtown events (concerts, NFL Experience) from 1/31 2/4
 - Super Bowl Sunday 11 at TMC, 15 in field or on standby
 - Daily operations calls
- Closures
- Parking
- New timing plan development
 - Escorted movements, buses
 - NFL transport routes

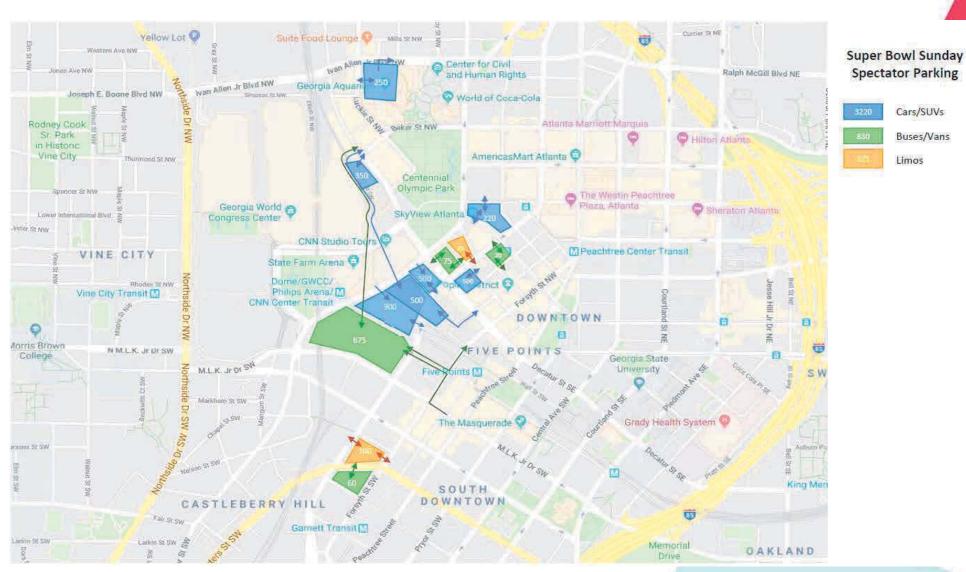


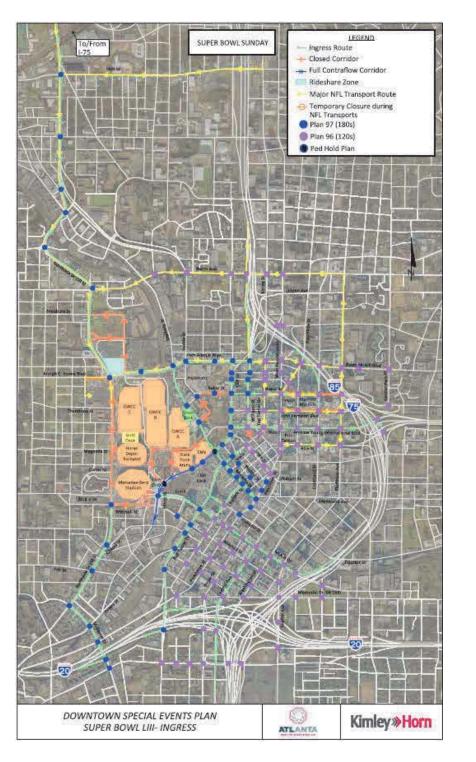


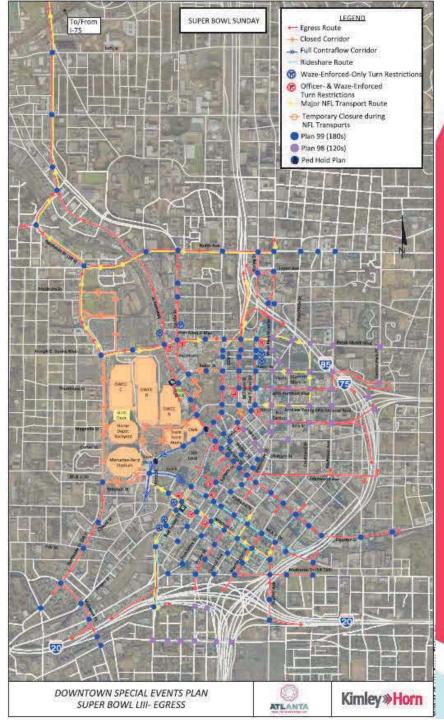
Closures

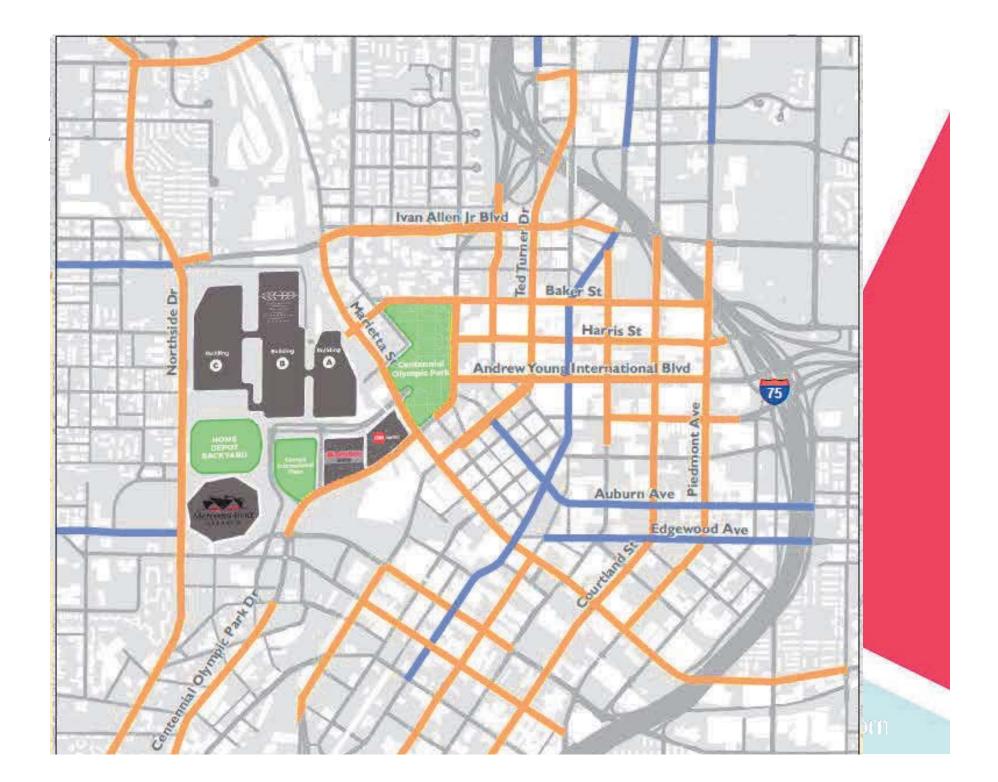


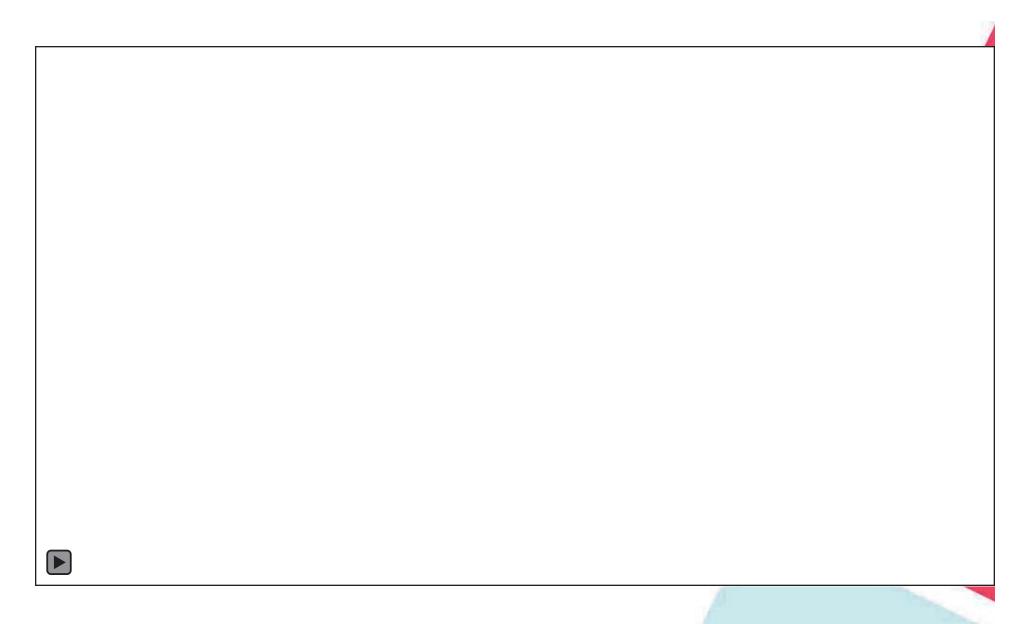
Parking

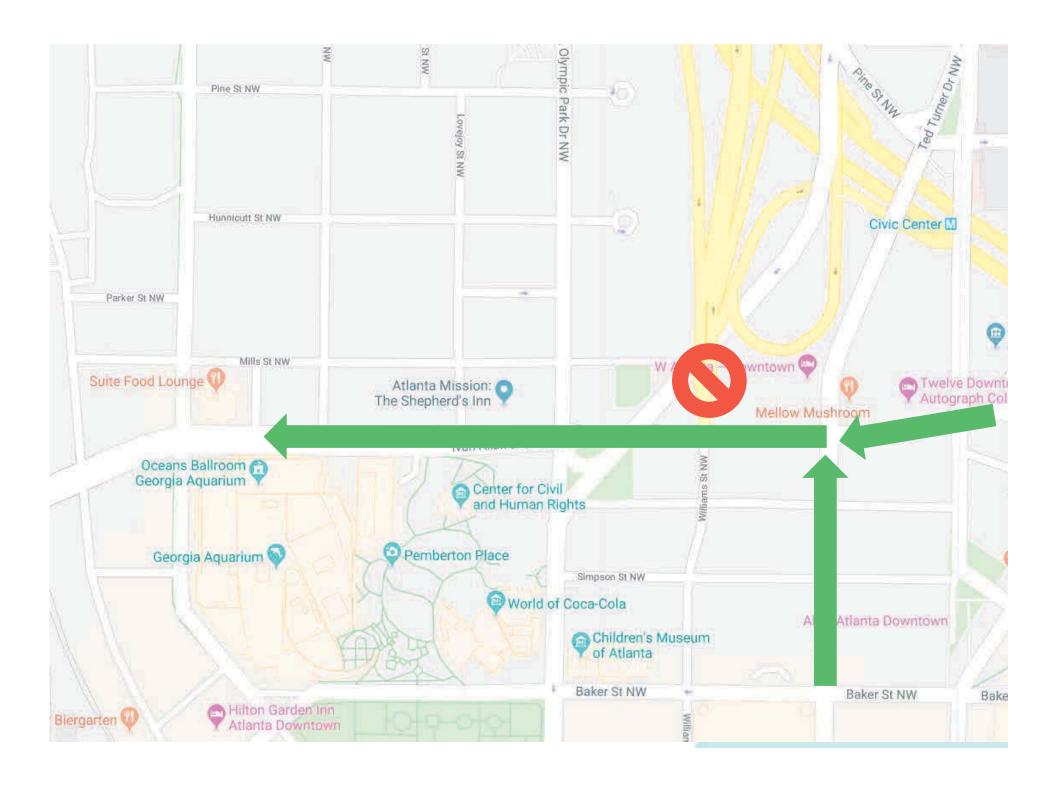






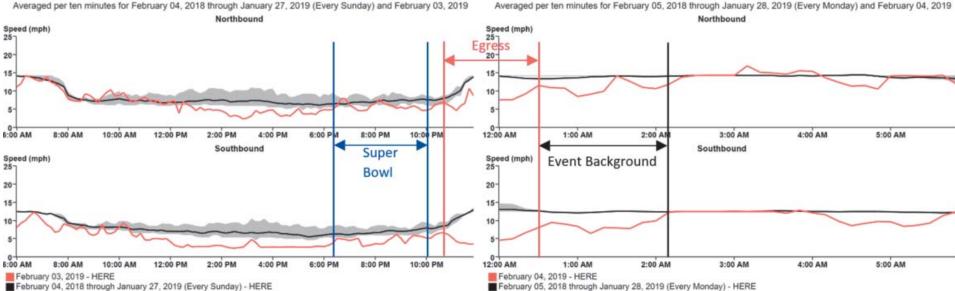






Marietta St NW Marietta St NW

Averaged per ten minutes for February 04, 2018 through January 27, 2019 (Every Sunday) and February 03, 2019



February 05, 2018 through January 28, 2019 (Every Monday) 25th and 75th percentile - HERE

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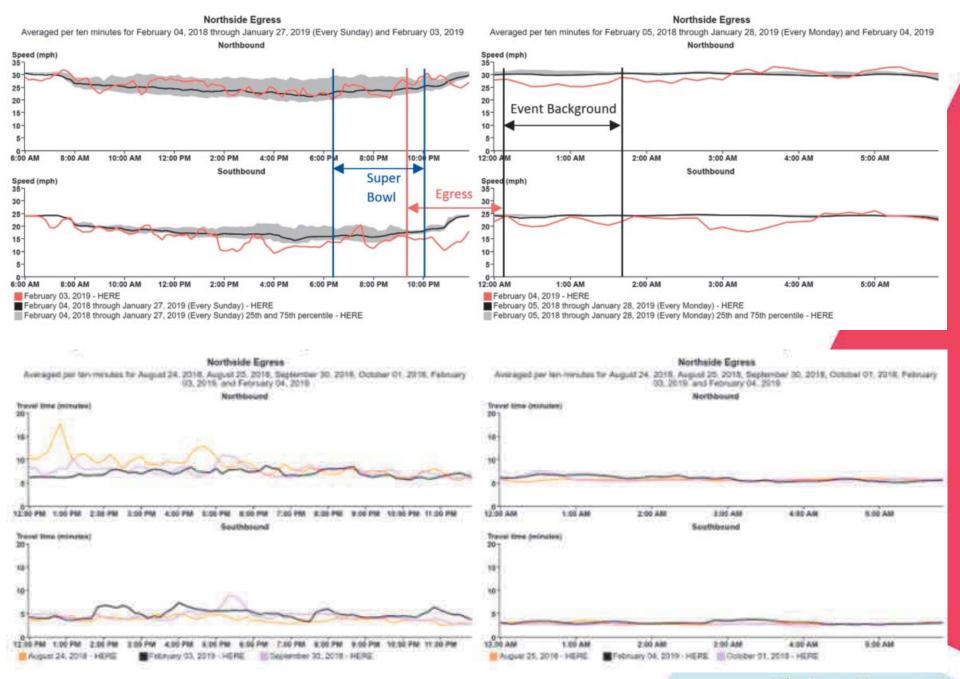
Centennial Olympic Park

Centennial Olympic Park Averaged per ten minutes for February 04, 2018 through January 27, 2019 (Every Sunday) and February 03, 2019

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Averaged per ten minutes for February 05, 2018 through January 28, 2019 (Every Monday) and February 04, 2019 Northbound Northbound Speed (mph) Speed (mph) 20 20 15 10 10 8:00 AM 10:00 AM 12:00 PM 2:00 PM 8:00 PM 12:00 AM 3:00 AM 4:00 AM 5:00 AM 6:00 AM 4:00 PM 6:00 P M 10:0 1:00 AM 2:00 AM Egress Southbound Southbound Super Speed (mph) Speed (mph) **Event Background** 20 20 Bowl 15 15 6:00 AM 8:00 AM 10:00 AM 12:00 PM 2:00 PM 4:00 PM 6:00 PM 8:00 PM 10:00 PM 12:00 AM 1:00 AM 2:00 AM 3:00 AM 4:00 AM 5:00 AM February 03, 2019 - HERE February 04, 2019 - HERE February 05, 2018 through January 28, 2019 (Every Monday) - HERE February 04, 2018 through January 27, 2019 (Every Sunday) - HERE



Questions?

