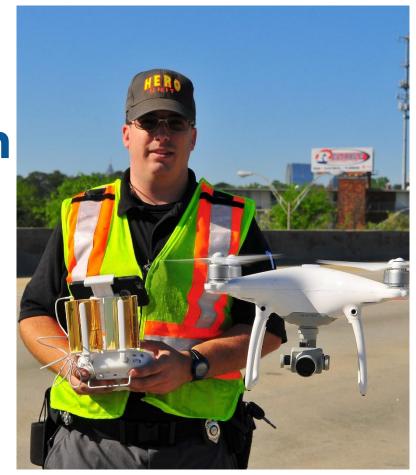


Unmanned Aircraft System Program Update

State Transportation Board Intermodal Committee

Presented by:
Joanna Campbell, Asst. Div. Director
Division of Intermodal
June 19, 2019



Federal Aviation Administration (FAA) Unmanned Aircraft System (UAS) Policy



- FAA adopted UAS Regulations in August 2016
 - Regulations for commercial uses of drones over .55lbs
 - Regulations for hobbyist use
- Planned update 2020
- Including Georgia, 23 states have implemented UAS policies



Phantom 4 Quadcopter (Most GDOT UAS vehicles are this type)



UAS Policy



- Adopted November 7, 2017
- Ensures compliance with FAA Rules and Regulations
- Consistency in uses and documentation, and assure safety
- Requires licensing of UAS Pilots
- FAA registration of UAS aircraft
- Sets minimum FAA compliant flight requirements



Standard Operating Procedures



- UAS purchase process
- Training process
- Remote pilot in command and visual observer requirements
- Pre and post flight operation requirements and inspections
- Flight documentation





FAA Limitations/Restrictions on UAS Use of Airspace



- Cannot fly within 5 miles of an airport without prior notification to airport and air traffic control
- Must keep the aircraft within sight
- Maximum altitude of 400 feet
- Maximum speed 100 mph
- May not fly over people, traffic, stadiums and sporting events

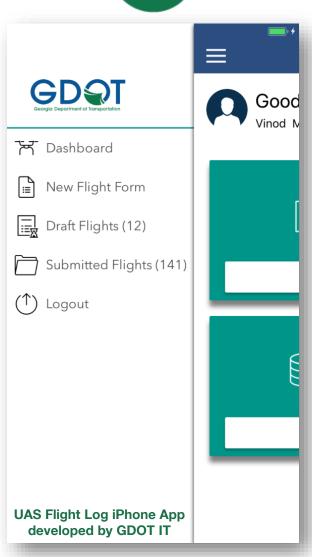


Source: FAA



FY 19 Accomplishments

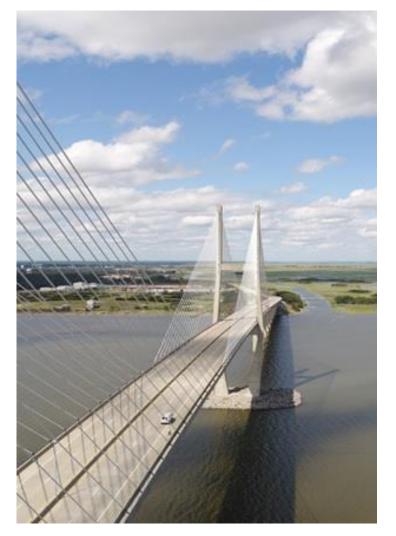
- Received FAA Authorizations for simplified approval to fly in controlled airspace during emergencies
- Implemented pre & post flight reporting mobile phone app
- Implemented contract requirements for contractors using drones on GDOT projects
- Developed and implemented training for GDOT UAS pilots including visual observer & night operations
- Expanded UAS use at GDOT

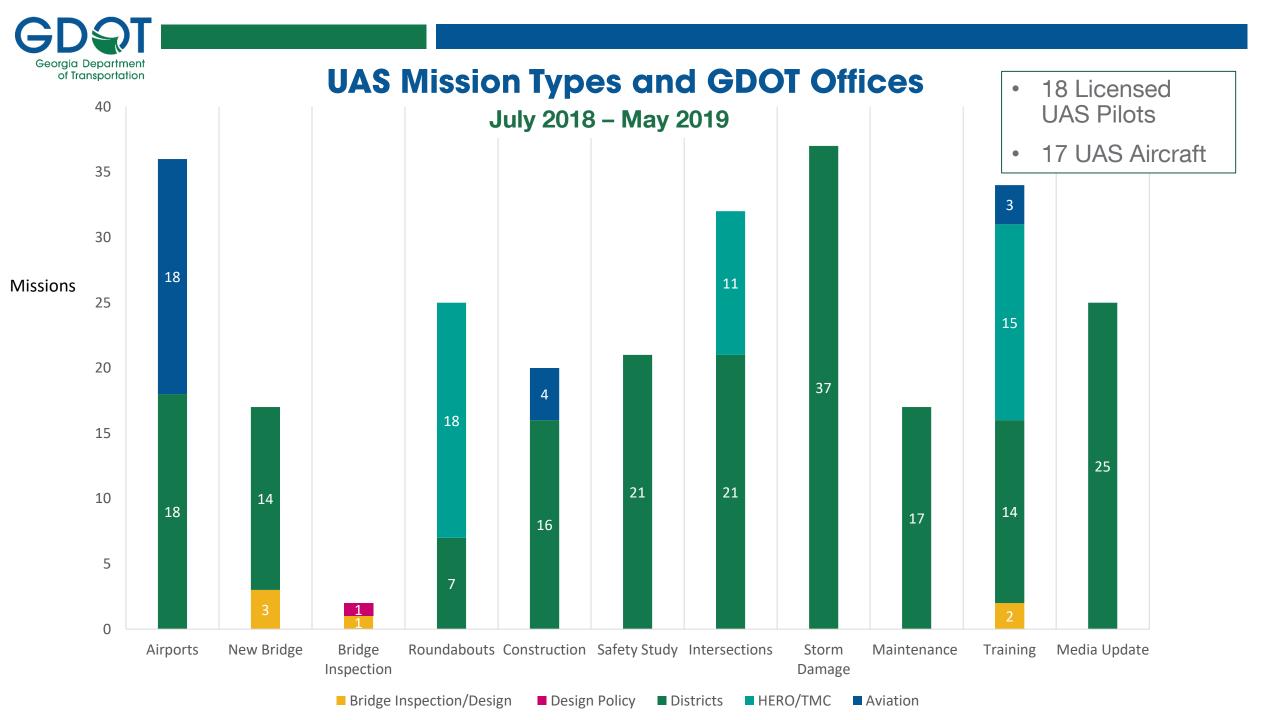




Current Uses

- Traffic operations, bridge maintenance, operational issues
- Project documentation and imagery
- Emergency conditions assessment
- Bridge inspection and safety studies
- Traffic operation and congestion studies







Project Documentation (**)



I-16 @ I-75 Interchange Macon, GA











Emergency Condition Assessment



Hurricane Michael Recovery











Incident Management



Rockslide in White County

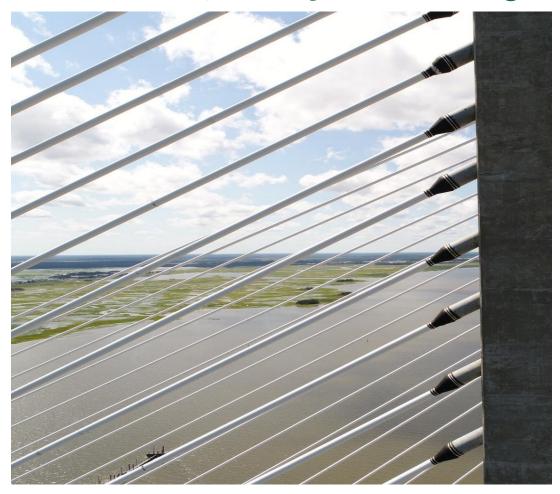




Bridge Inspection and Safety Studies



Hurricane Irma, Sidney Lanier Bridge





Potential Uses for UAS

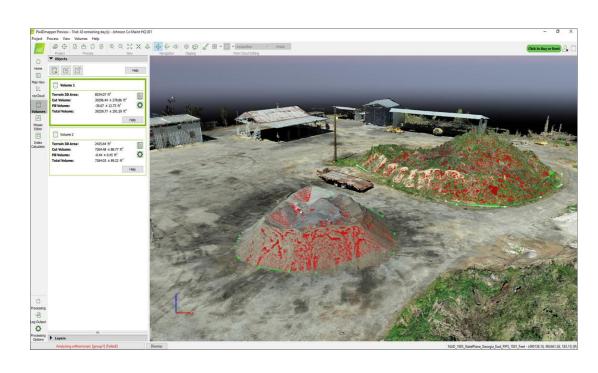


- Visualization and volume estimates of material or obstructions to be removed
- Pavement condition monitoring
- Project mapping to reduce survey time/cost
- LIDAR mapping for survey data

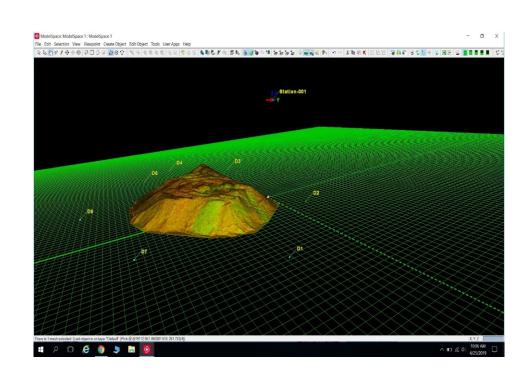




Material Volume Measurements







LIDAR map



Questions?