

Agenda

- Virtual Workgroup Updates (15 minutes)
- NEOFIX Demonstration -- http://www.oh-fix.com/ -- (5 minutes)
- Data Sharing, Design, and Sensor Integration Working Discussion (40 Mins)
- Next Steps (15 minutes)
- Provision User Accounts (45 Mins)

Data Sharing

- Obtaining Critical Infrastructure Hazards data from First Energy, FirstComm, Crown Castle
- Commitment for integration from Strongsville CAD dispatch in fall (Sep-Oct)
- Key Data Sets from County Planning
 - LIDAR topography / elevation data
 - Metroparks (geography to match policy)
 - Cleveland UAS Ordinance (ground rules)
 - Assistance with towers and schools (OH) and highway right of way (OH)
- OH State Assets schools, highway lighting, highway rights of way
- Key Data Sets from County Emergency Management
 - Ground hazards (critical infrastructure, power lines and above ground substations and facilities, chemical and fuel storage)
 - Restricted public safety facilities (police, fire, prisons, etc.)
- Industry integration: Aloft (flight plans); Zipline (onboard sensors)
- Industry integration: sensors (DeDrone, etc)

Design

- Area 1: 10-mile radius around Cleveland Clinic Administrative Campus
 - VLOS, EVLOS moving to BVLOS
 - Medical Delivery, DFR, Infrastructure Inspections
 - Assume Group 1-2 (Under 55 Lbs) in the near term
 - Hazards and critical infrastructure; ditch sites; TOLAs
- Area 2: Cleveland Lakefront 5 x 2 mile strip encompassing Burke Lakefront Airport
 - VLOS, EVLOS moving to BVLOS
 - Medical Delivery, DFR, Infrastructure Inspections
 - Assume Group 1-2 (Under 55 Lbs) in the near term
 - Much more hazardous / challenging area than Area 1: commercial airport, tall structures, more restricted areas

Sensor Integration

- Existing Sensor Inventory: Burke Airport, deployed public safety sensors for mutual aid and planning
- Weather Sensors: low-cost sensor deployment, including crown towers and anemometers
 - Determine rooftop accessible locations and tower distribution
- Crown Castle: access to cellular-on-wheels (COW)
 - Understanding of full coverage area, operational goals, and local constraints
- Iridium: coordinate with partners for sensor locations and available connectivity options (internet, power)
- Iris Automation: minimal power requirement, LTE modems used for connectivity, approximately 3km coverage per sensor
 - System consists of power brick, camera node (vision-based detection), ADS-B receiver
 - Ideal placement on tallest structures clear of obstructions (10 degrees down to 33 degrees up from horizon)
- Cellular data ingestion and integration into UTM for analysis

Policy

- FAA Reauthorization Act of 2023
- Use Cases: public "needs" stimulating private sector support
- Funding based on system maturation
- Existing Ohio and Cleveland UTM policies
- Enhance natural discussions integrating drone use and policies
- Ohio House of Representatives: Aviation and Aerospace Committee

Working Agenda

- Status on Data Sharing and Next Steps
- Design Around Areas 1 and 2 Service Volumes and Configuration
- Sensor Integration Planning and Budgeting
- Policy



Northeast Ohio Flight Information Exchange



Northeast Ohio Flight Information Exchange -- NEOFIX --

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