



# Drone as a First Responder

Lieutenant Chris Devan





# Current SSFPD Drone Program

- Patrol lead model
- Carried by drone operators on patrol
- Must respond to location prior to deploying drone
- Time on target with the drone depends on physical response time of officer
- 6 licensed pilots / 130 flights since inception





# Authorized Uses

- Patrol Operations
- Search and Rescue
- Investigations
- Event Management







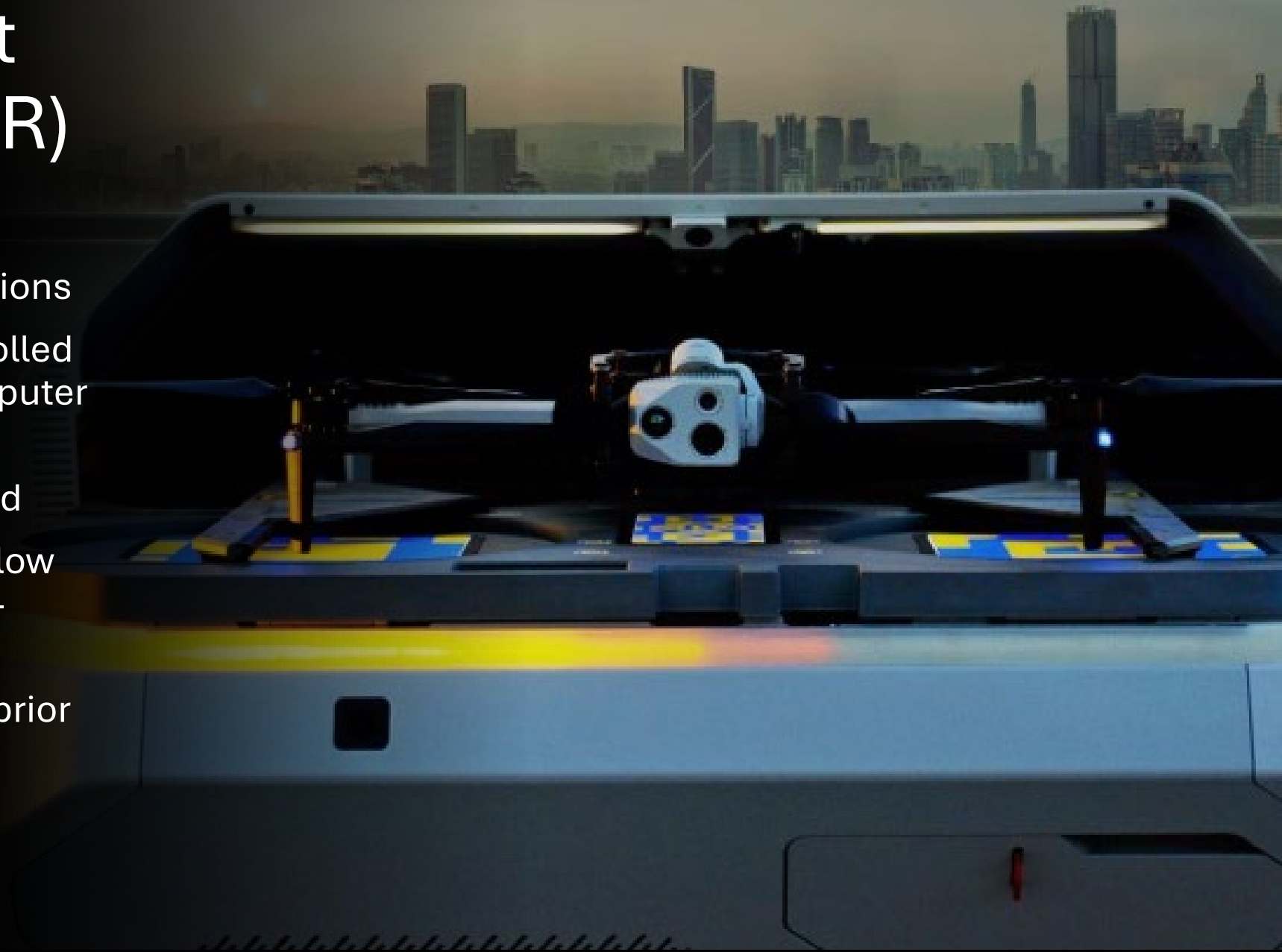
# Prohibited Uses

- Will not be used to impinge or restrict 1<sup>st</sup> Amendment right to assemble/free speech.
- Will not weaponize any UAV
- Will not be used to conduct random surveillance activities
- Will not be used to harass, intimidate, or discriminate against any individual or group
- Absent a warrant or exigent circumstances, operators shall not intentionally record or transmit images of any location where a person would have a reasonable expectation or privacy



# Drone as a First Responder (DFR)

- Launched from fixed locations
- Autonomous flights controlled by a desktop / laptop computer
- Respond to emergency as soon as 911 call is received
- Multiple dock locations allow citywide coverage with on-scene time in minutes
- Relay critical information prior to first responder arrival





---

# Axon & Skydio

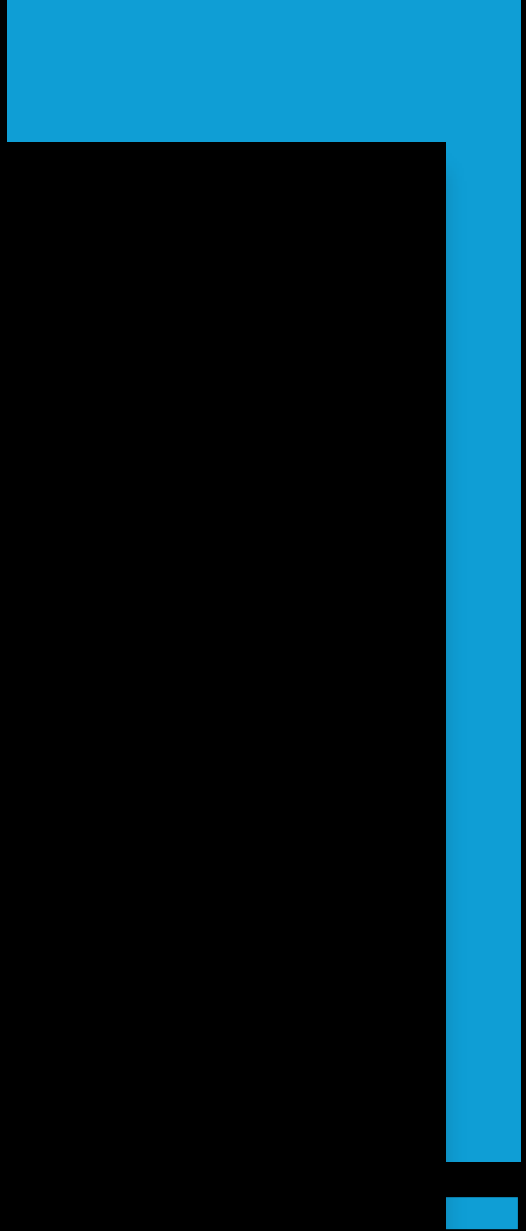
- Current Axon services - Body Worn Cameras / Fleet Cameras / Tasers / Current drone program software / Digital evidence storage
- Partnership with Skydio to provide DFR capabilities to public safety agencies
- U.S. based drone manufacturer specializing in autonomous flight
- Headquarter in San Mateo and Manufacturing Facility in Hayward
- Currently deployed at San Mateo PD / additional SMC0 agencies in the future







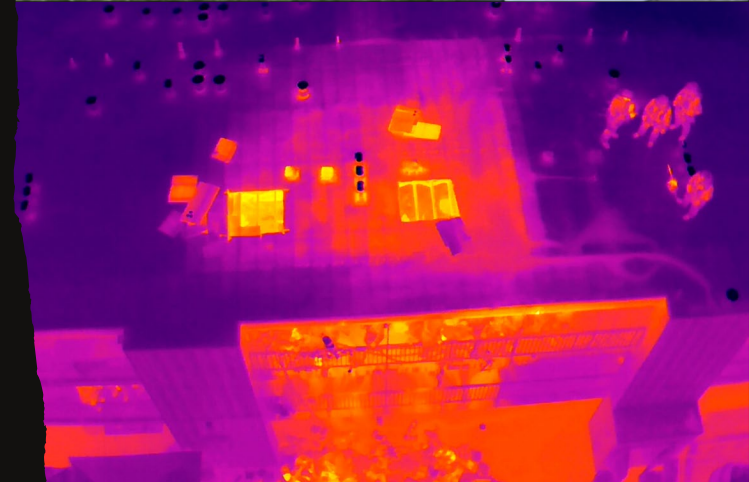
# Skydio X10 Dock





# DFR Benefits for Police / Fire

- Faster response to critical incidents
- Increase opportunities for de-escalation
- Provide real-time information for responding personnel
- Detect hot spots / fire spread. Can help determine alarm response
- Identify structural risks keeping crews safer
- Search and rescue / locate victims quickly
- Quickly identify evacuation areas / Quickly identify ingress/egress control points



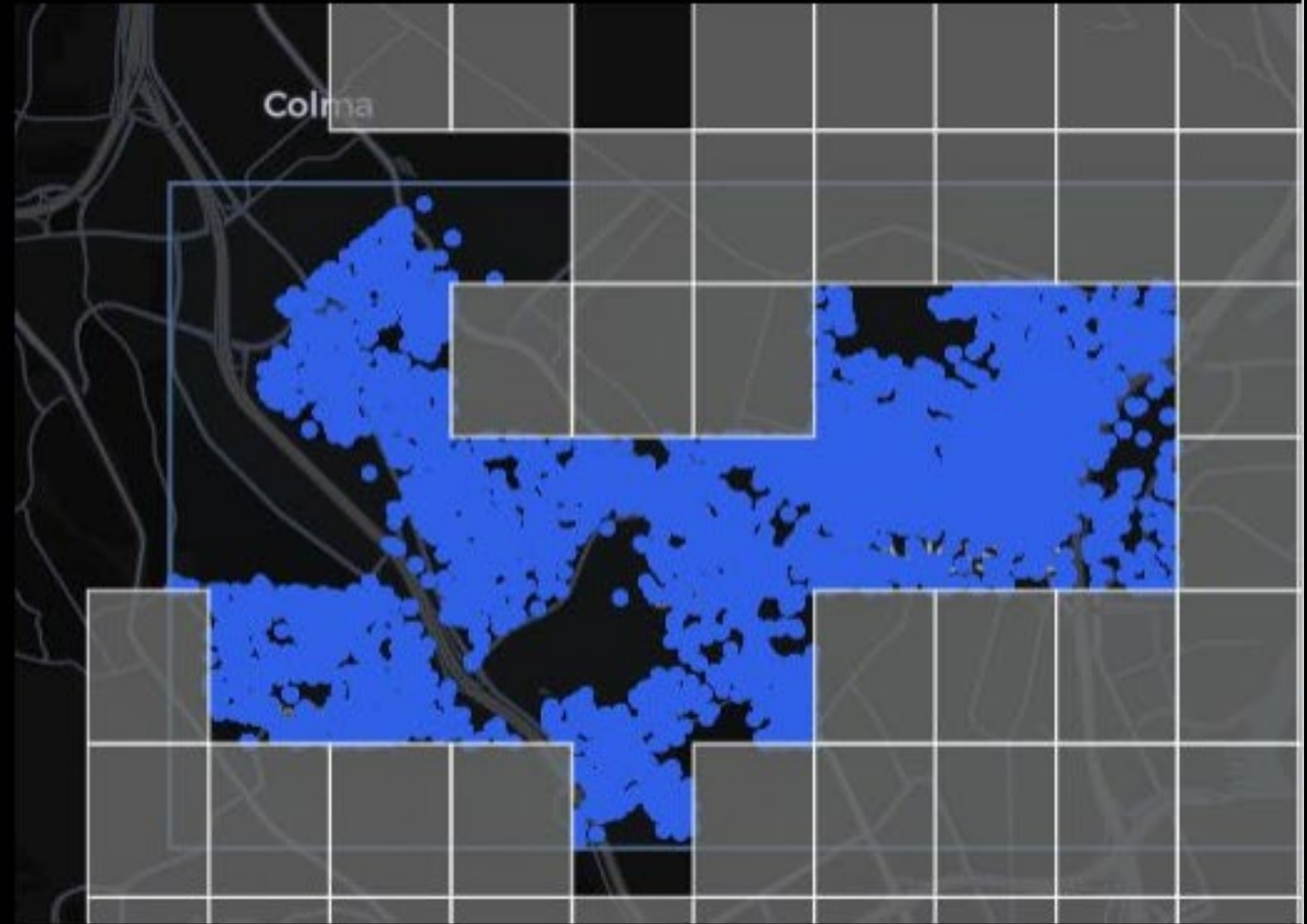


In 2024, SSFPD got 41,402 calls for service of which only 25.5k are serviceable via drone.

**Priority High**

**Avoid 0' and 50'  
Ceilings**

**X10 with NightSense**



*Patent pending*



The map displays three locations in San Francisco, each marked with a red circle:

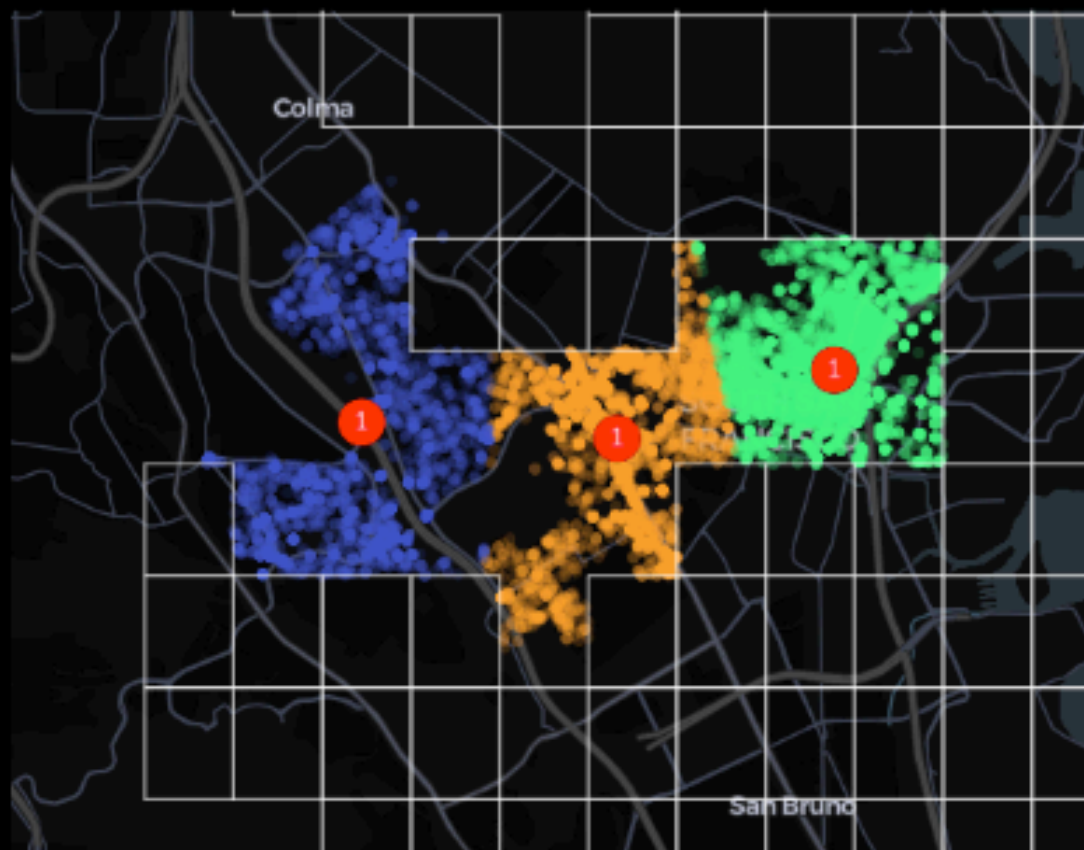
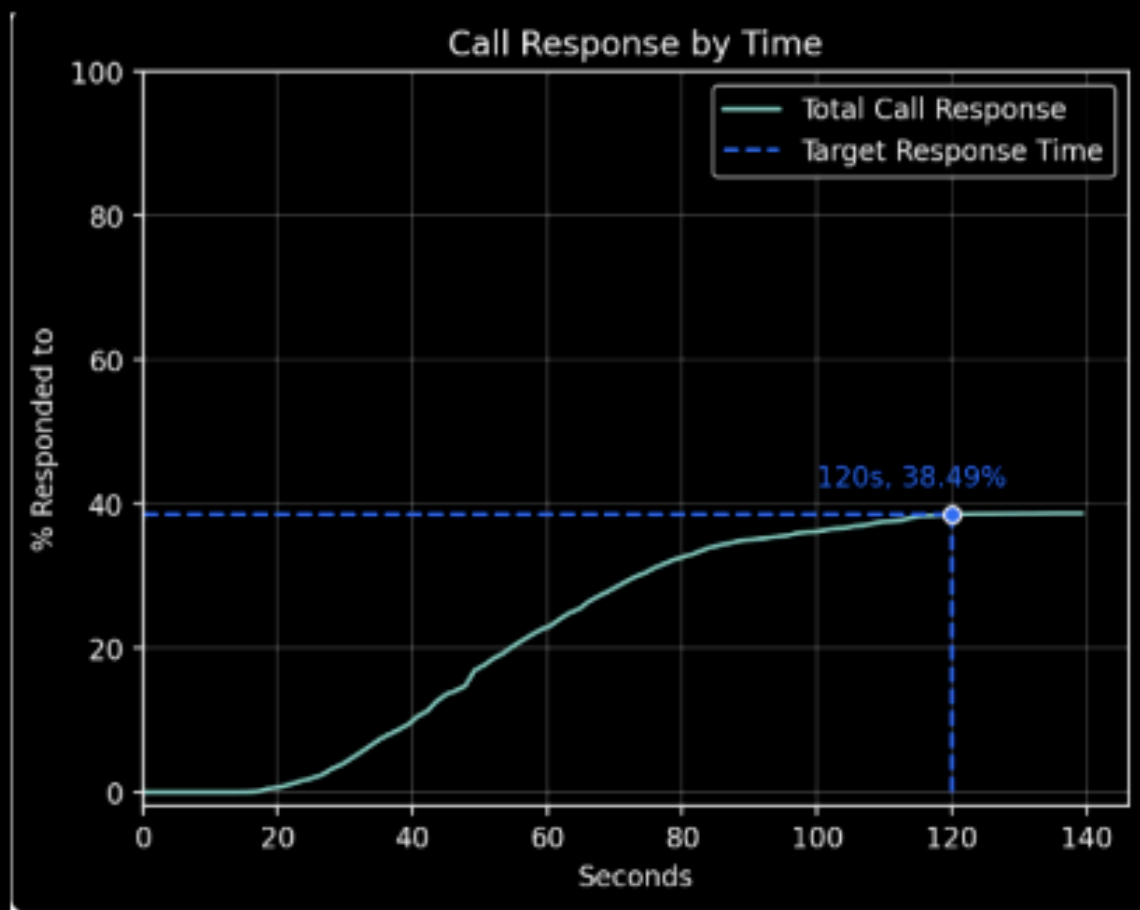
- Location 1:** Situated in the El Camino neighborhood, near the intersection of Mission Rd and Grand Ave. It is close to Kaiser Permanente South San Francisco and a Safeway store.
- Location 2:** Located in the Downtown area, near the intersection of Spruce Ave and S Spruce Ave. It is near Orange Memorial Park and a Safeway store.
- Location 3:** Located in the Westborough area, near the intersection of Junipero Serra Blvd and Westborough Blvd. It is near a Safeway store and the Little Apple Garden Daycare.

The map also shows various other landmarks and commercial areas, including Sprouts Farmers Market, Costco Wholesale, Trader Joe's, Sign Hill Park, Orange Park, and the Sonesta Select San Francisco Airport. Major highways like I-280 and I-101 are also visible.



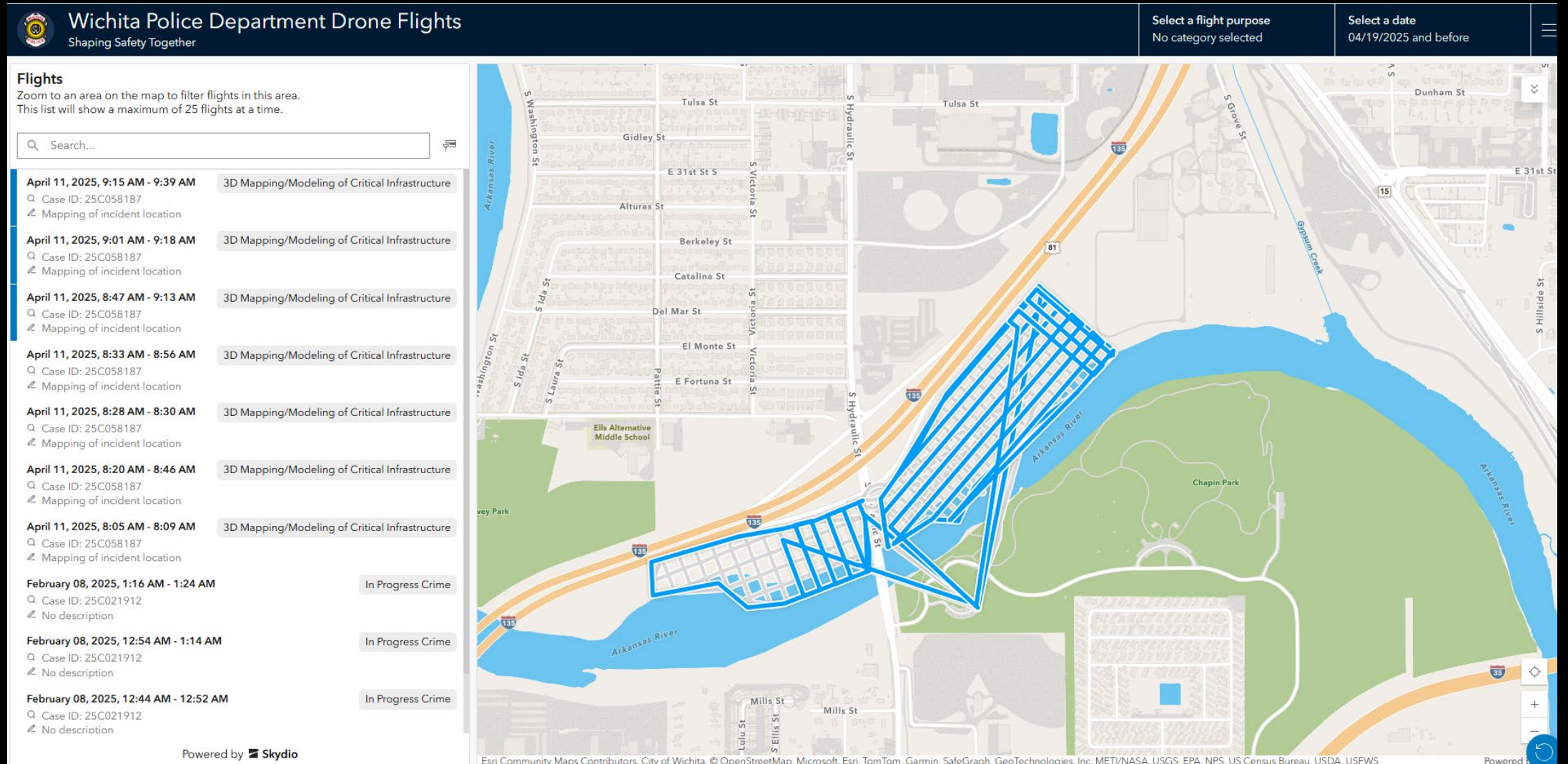
## 3 Docks in 3 Hive Deployment

Could respond to ~ 10k of all CFS, getting to all 10k of them in under two minutes.





# Transparency Dashboard





# Itemized Costs

Cost Per Year	Public Safety Impact Fees	Police Operating Budget
Year 1 - \$160,000.00	\$123,483.20	\$36,516.80
Year 2 - \$160,000.00	\$123,483.20	\$36,516.80
Year 3 - \$160,000.00	\$123,483.20	\$36,516.80
Year 4 - \$160,000.00	\$123,483.20	\$36,516.80
Year 5 - \$160,000.00	\$123,483.20	\$36,516.80
Total - \$800,000.00	\$617,416.00	\$182,584.00





THANK YOU