



DRONE AS FIRST RESPONDER PROGRAM

Lewisville Police
Department



Presented by:
Brook Rollins, Chief of Police

Lewisville Police Department Drone Unit



2020
FOUNDED

- Began with **2** drones and **5** pilots
- Joint venture with LFD.



2024
MAINTAINED

- Reduced to **1** drone
- **3** pilots.



2025
OVERHAULED

- **16** additional drones
- **18** pilots added
- Training & certification
- Counter UAS, Airspace Deconfliction acquired.
- **27** successful apprehensions (Felony, Missing, Fleeing).



2026
PROJECTION

- On pace to fly over **1000** missions

Drone as a First Responder (DFR)



IMMEDIATE DEPLOYMENT

Drones deploy remotely to emergency calls, often arriving on-scene ahead of ground units to establish immediate “eyes on.”



REAL-TIME INTELLIGENCE

Livestreams low-latency video to responding officers and command staff, providing critical situational awareness before arrival.



REMOTE OPERATION

Pilots fly the aircraft from a centralized location using Skydio DFR Command, enabling rapid response without being physically present.



OPERATIONAL EFFICIENCY

Allows operators to clear low-priority or unfounded calls remotely, keeping patrol officers free for critical incidents.



ADVANCED HARDWARE

Utilizes the Skydio X10 platform, leveraging onboard AI for superior obstacle avoidance and autonomous navigation in complex environments.





ENHANCED SAFETY

Provides aerial perspective for high-risk scenarios (e.g., active shooters, fires), increasing safety for both first responders and the community.

Mission of the DFR Program




Ensure Officer Safety



-  More information, faster, allows for the time & distance needed to make better tactical decisions before onscene.
-  Get assistance when needed.




Improve Citizen Experience



-  Resolve issues faster
-  Improved allocation of resources
-  Decrease call load by effectively clearing unnecessary calls for service without dispatching personnel

Reduce Crime



-  Decrease Response time
-  Increase Case closure rate
-  Deter criminal activity

Dock for X10





Beyond Visual Line of Sight (BVLOS)



Know the conditions

Leading autonomy, ADS-B, and built-in weather sensors provide the operator with an accurate picture of both airspace and ground conditions.



Respond at a moments notice

Get airborne in <20 seconds.



Operate safely

Know the condition of your drone with remotely conducted pre-flight checks.

A powerful partnership in DFR

Technology working together to make our citizens safer





LPD DFR DOCK LOCATIONS



DOCK #1 – TMPSC
1187 W Main Street



DOCK #2 – LFD STATION 7
1070 Texas Street



DOCK #3 – LFD STATION 5
651 Waters Ridge Dr



CRIMINALS CAN GO ANYWHERE. WITH SKYDIO AUTONOMY, YOUR DRONES CAN TOO.



No crashes with 360° obstacle avoidance



Fly autonomously at night



Fly urban canyons



Track subjects in the dark



Fly underground



Capture all vantage points high & low

DFR and Computer Aided Dispatch Integration



Data-Driven Deployment Strategy



Automated Telemetry



ROI Calculator



Coverage Expansion



Mandatory Post-Flight Reporting



Heat Mapping



Capacity Increase



Response Times



Saturation Metrics



Safety Correlation

THE FUTURE OF DFR

NO COVERAGE GAPS



- 24/7
- Full City Coverage

INCREASED AUTONOMY



- Decrease time to launch
- Increase efficiency

CENTRALIZED COMMAND



- Utilize DFR Command to its fullest extent
- Increase coverage without increasing manpower



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Drone and Dock
Demonstration



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Scenario







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Questions?