

EDEN TOWNSHIP SUBSTATION

DRONE FIRST RESPONDER (DFR)

PROGRAM

Alameda County Sheriff's Office

NE INFORMATIO

ACSO DRONE HISTORY

ACSO is a leader in the UAS/Drone space and has been recognized nationally for our public safety UAS program. ACSO HAS BEEN USING DRONES FOR OVER 10 YEARS

SHERIFF?



ACSO DRONE HISTORY

UAV teams in action: Alameda County Sheriff's Office

This California drone team has become a critical resource that supports search and rescue, law enforcement and fire department operations

August 30, 2021 05:17 PM · Charles Werner

SHERIFF'

CA





WHAT IS DFR – HOW IS IT DIFFERENT?

Currently drones are deployed from patrol vehicles <u>after</u> the call has occurred.

DFR launches drones from a pre-designated sites to calls for service providing real time video and information to first responders prior to their arrival



DFR IS THE FUTURE

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DRONES ENHANCE PUBLIC SAFETY

Rapid response that provides real-time aerial footage

DFR IS THE FUTURE

The DFR program increases public safety though better situational awareness, ultimately providing a higher level of service to the community.

- Crimes in Progress
- Wildland Fires

CHERIFF

Car Accidents

Search and Rescue

- Active Shooter
- Structure Fires
- Missing Persons



HOW DFR WORKS

• 911 Call Received





SHERIF'S OFFICE ALAMEDA COUNTY

HOW DFR WORKS

Real Time Information Center Listens To 911 Call Live

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Bringing Clarity to Emergency Response

HOW DFR WORKS

Launch Drone

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OFFICE

- Respond To Call
- Provide Updates





INTEGRATED RADAR

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DFR may respond to any call for service and has proven to save time and resources with the ability to assess the need for a patrol response in some limited situations.



ALL FOR SERVICE	
riority	P1
/pe	BURGLARY ALARM
)	23-00042883
ime	10 SECONDS AGO





CLEAR CALLS FOR SERVICE Clear an average of 24% of calls-for-service without using patrol resources





REDUCE RESPONSE TIMES

Drone is on first on scene on average of 74%





Suspects Located 89% Increase in Locating Subjects





DFR SITE VISITS

SHERIFF'S



DFR SITE VISITS



SHERIFF'S

Law Enforcement NASA / DFR working group

NASA

SHERIFF'



NASA invited ACSO UAV to discuss drone use and air safety.

PRIVACY CONCERNS

The ACSO sUAS Unit has a long-standing practice of meeting with the community to prioritize the protection of civil liberties and the expectation of privacy before drone deployment.

ASCO reviewed our policy with privacy advocacy organizations to ensure compliance with Fourth Amendment protections enshrined in the United States Constitution and Article 1 protections in the California Constitution



CHERIFA

ACSO has a comprehensive policy in place and always considers the protection of civil rights and the expectation of privacy before drone deployment



PRIVACY CONCERNS

sUAS General Order 6.15 can be reviewed by visiting:

https://www.alamedasheriff.gov/about-us/transparency

Navigate to "Sheriff's Office Written Directives."



TRANSPARENCY PORTAL

Community Transparency

Realtime flight metrics and redacted flight logs are automatically uploaded to a public-facing dashboard for effortless transparency.



CAMERA VIEW

SHERIFF'S

OFFICE

DFR camera angle responding to call



DFR TRIALS AT ETS

SHERIFF'S





RISK MITIGATION / TACTICS

• Mitigate risk

- Reduces liability
- Obtain real-time information that can be used by responding units and supervisors for tactical decision-making.



REDUCE USE OF FORCE

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Reducing use-of-force by providing real-time information for better decision making



INVALUABLE INFORMATION

Weapons?
Description?
Best Access?
Perimeter?
Associates?





REAL-TIME INFORMATION



DFR increases the chance of criminal apprehension

LOCATE SUSPECTS

• TRO Violation

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- RAVEN First On
 Scene
- Locates Suspect and Provides Updates
- Coordinates Responding Units



LOCATE SUSPECTS

UAS located suspect and set perimeter as deputies began to arrive on scene

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LOCATE VEHICLES

Vehicles can be located, and monitored until ground units arrive.

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LOCATE VEHICLES



Stolen Trailer

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UAS Located Vehicle

Updated Location to Patrol

RTIC, DFR, and Patrol working together



NON-CRIMINAL RESPONSES



Car Accidents
Fires
Missing Persons
Mental Health Incidents



NEXT STEPS

ACSO will seek Board of Supervisors approval of a contract with Aerodome for the DFR Program at the first available meeting in July.

DFR enhances public safety, increases efficiency and provides additional layers of officer safety.

ACSO CONTACTS

Sergeant Fenton Culley RTIC Supervisor

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OFFICE



Sergeant Justin Brannon sUAS Supervisor

