



# Los Angeles County Sheriff

## Station U.A.S. Deployment Proposal

PRESENTED BY

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# Station UAS Deployment Operations

- Emergent and high priority calls for service where the presence of a UAS would enhance public and officer safety.
- Rescue missions
- Missing persons
- Disaster response
- Active shooters
- Approved search operations such as a search warrants.
- Mapping and photographing crime scenes, traffic collision scenes, or other areas as needed.







# Unmanned Aerial System Solution

- *Cover more ground in less time than search teams on foot*
- *Identify a person using thermal imaging*
- *Communicate with persons in distress*
- *Assess their status and communicate in real time to ground resources the location of the victim*
- *Assess ground accessibility conditions and other information critical to ground resources*
- *Less expensive than manned aircraft*



# Public Transparency

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Recorded footage: UAS can capture video footage of law enforcement operations, which can be used for review and analysis.

- Provides an objective view of an incident
- Ensures that deputies are following procedures

Live-streaming: UAS can live-stream video footage to a central command center or command staff to observe operations or responses in real-time.

- Yearly reporting
- Work with contract city governments
- Notices to community of deployment







# Recording and Photographs

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- Will not record while enroute to incidents.
- Camera will be forward facing while in enroute
- Available software to track and log camera position
- Only data that has evidentiary value, public transparency value, or meets legitimate training objectives will be retained after the mission has concluded.

## TRANSPARENCY PROMISE

The Los Angeles County Sheriff's Department believes in being forthcoming regarding our activities and policing efforts. Transparency allows honest analysis related to the quality of our work and builds trust within the communities we serve. This approach also opens up dialogue to ensure certain concerns, crime t

### Results

All 12 (100%) UAS deployments met the criteria for this objective. The table below represents a breakdown of the mission types.

**Table No. 1 – Mission Types**

Mission Type	Frequency
Barricaded Suspect	7
Other High-Risk Tactical Operation	2
Explosive Ordnance Detection	1
Hostage Situation	1
Search and Rescue	1
<b>Total</b>	<b>12</b>

DEPUTY-INVOLVED SHOOTINGS

SHERIFF'S RESPONSE LETTERS

LASD Chat



# High Priority And Emergent Calls For Service

- **Overwatch:** UAS can be used for immediate aerial surveillance of a scene, providing a real-time view.
- **Perimeter Security and Suspect Tracking:** UAS can be used to maintain a visual on fleeing suspects while keeping officers at a safe distance.
- **Evidence Gathering:** Drones equipped with high-resolution cameras can help gather crucial evidence from crime scenes or accidents.
- **Traffic Management:** Drones can provide real-time traffic information, helping to manage response resources effectively and plan alternative routes.
- **Communication:** In a large-scale emergency, UAS can be used to broadcast public safety messages or instructions to a widespread area.





# Search and Rescue

MSAR is responsible for responses to approximately 187 square miles of Los Angeles County including portions of the Santa Monica Mountain and Santa Susana Mountain ranges.

Within that area are the cities of Agoura Hills, Chatsworth, Calabasas, Hidden Hills, Malibu, areas of Topanga and Westlake Village.

The team is the busiest in Los Angeles County, often responding to over *130 callouts per year*. In 2022 there were 126 callouts.





# Missing Persons / Lost or Injured Hikers

## 2022 MSAR RESPONSES

- 93 calls for missing / injured hikers
- 43 searches lasted one or more hours







## Disaster Response

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- Survey area for mission planning
- Locate victims
- Communicate with victims
- Real-time situational awareness





Locate Vehicles  
“Over the Side”







View From UAS



# Active / School Shooter

- Overhead faster than traditional aircraft
- Ability to locate shooter/victims
- Real-time situational awareness





# Multiple Reports of School/Active Shooters



- Multiple incidents limits availability of Aero Bureau
- Availability of U.A.S. allows for faster response





# Traffic Collision and Crime Scene mapping

- Ability to reconstruct the scene in a 3D model
- Reduces time to reopen roadways







3D Model

Model



An aerial photograph of a city skyline at dusk or dawn. The sky is a gradient of dark blue and purple, with a soft glow on the left side. The city below is densely packed with buildings, with several prominent skyscrapers standing out against the horizon. The overall tone is dark and atmospheric.

# A New Approach to Air Support

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**Accessibility:** A UAS can relieve responsibility of lower priority calls for service from an already overly taxed Aero Bureau, expanding the availability of air support.

**Cost-effectiveness:** UAS are substantially cheaper to purchase and operate than manned aircraft. They require no fuel, little maintenance, less training, and fewer crew members, making them a more cost-effective option.

**Safety:** UAS can be operated remotely, which means that law enforcement officers can keep a safe distance from potentially dangerous situations.



# Environmental and Psychological Benefits

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**Reduced Carbon Footprint:** UAS are electrically powered and emit no emissions, making them an eco-friendly option. Helicopters, on the other hand, are powered by fossil fuels, which contribute to air pollution and greenhouse gas emissions.

**Reduced Noise Pollution:** UAS are much quieter than helicopters, reducing noise pollution in the areas where they are used. This can be especially beneficial in densely populated areas where noise pollution is a significant concern.

**Increased Privacy:** The use of UAS in law enforcement can increase privacy for citizens as they are less intrusive than helicopters. Citizens may feel more comfortable with drones flying overhead as opposed to helicopters which can create a sense of intrusion and violation.

**Increased Trust:** The use of UAS can also increase public trust in law enforcement by providing a less intimidating and more transparent approach to policing.





# THANK YOU

A sincere thank you for your valuable contributions and active participation



Together, we'll forge ahead, fostering an environment of growth,  
innovation, and mutual respect.