REATS IN THE UNITED STATES AND

























Roll Tide



THE RISE OF DRONE TECHNOLOGY

- DRONES (UAVS) HAVE RAPIDLY EXPANDED FROM MILITARY TO COMMERCIAL AND RECREATIONAL USE.
- OVER 1,000,000 DRONES REGISTERED IN THE U.S. IN 2025.
- AFFORDABLE CONSUMER DRONES HAVE MADE OWNING A DRONE ACCESSIBLE TO EVERYONE.
- CONCERNS HAVE GROWN AROUND PRIVACY, SAFETY, AND SECURITY.
- UNIVERSITIES ARE PARTICULARLY VULNERABLE DUE TO OPEN CAMPUSES AND SENSITIVE RESEARCH.









DRONES AKA UAVS AKA UAS

UNMANNED AERIAL VEHICLES -OR
UNMANNED AIRCRAFT VEHICLES -OR
UNMANNED AERIAL SYSTEMS

COME IN ALL SHAPES AND SIZES FOR MANY

DIFFERENT ROLES



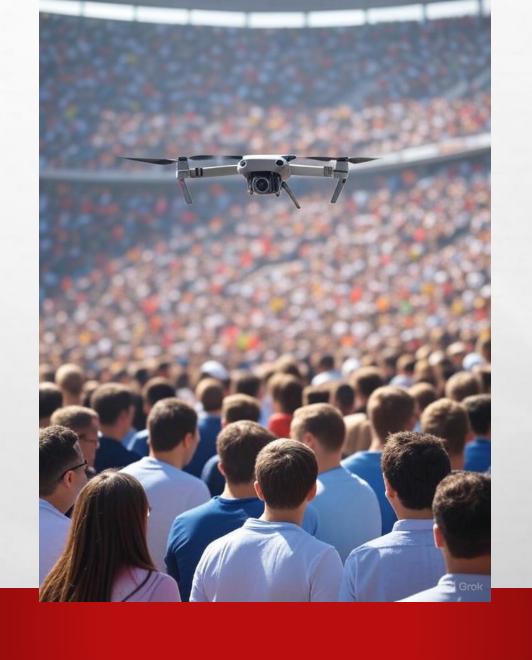
KEY DRONE-RELATED THREATS TO COLLEGES AND UNIVERSITIES

- SURVEILLANCE AND PRIVACY INVASION
- AIRSPACE SAFETY AND EVENT DISRUPTIONS
- WEAPONIZATION AND TERRORISM
- SMUGGLING AND ILLEGAL ACTIVITIES
- REGULATORY AND LEGAL LIABILITIES



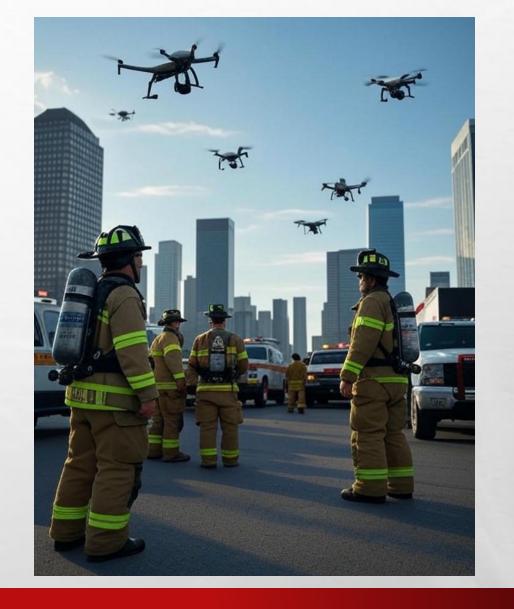
SURVEILLANCE AND PRIVACY INVASION

- DRONES CAN CAPTURE HIGH-RESOLUTION AND INFRARED FOOTAGE FROM AFAR.
- RISK OF UNAUTHORIZED SURVEILLANCE, PHOTOGRAPHY OVER DORMS, SORORITIES, FRATERNITIES, CLASSROOMS, AND LABS.
- EXAMPLE: DRONE SCOUTING BEFORE A TRUMP EVENT AT THE BUTLER FARM SHOW.
- THREAT TO INTELLECTUAL PROPERTY AND CONFIDENTIAL RESEARCH.
- ETHICAL AND LEGAL CONCERNS OVER PRIVACY VIOLATIONS.



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Cause for Concern?

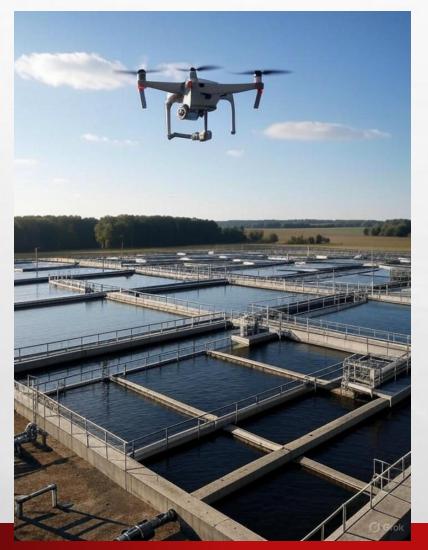


AIRSPACE SAFETY AND EVENT DISRUPTIONS

- DRONES HAVE DISRUPTED MAJOR EVENTS (E.G., BASEBALL AND FOOTBALL GAMES, CONCERTS).
- RISKS INCLUDE PANIC, INJURIES, AND REPUTATIONAL DAMAGE.
- INTERFERENCE WITH RESEARCH OR ATHLETIC EVENTS CAN CAUSE DELAYS AND FINANCIAL LOSS.
- NEAR-MISS INCIDENTS WITH AIRCRAFT ARE INCREASING.
- ACCIDENTAL COLLISIONS WITH PEOPLE, BUILDINGS, OR VEHICLES.
- DRONES FALLING FROM THE SKY DUE TO MALFUNCTION OR OPERATOR ERROR.

What's wrong with this Picture







WEAPONIZATION AND TERRORISM

- DRONES CURRENTLY USED IN CONFLICT ZONES TO DELIVER EXPLOSIVES, CHEMICAL AGENTS, OR PLAIN FLOUR OVER A CROWD.
- POTENTIAL FOR ATTACKS DURING LARGE CAMPUS EVENTS (GRADUATIONS, GAMES).
- CRITICAL INFRASTRUCTURE ATTACKS (ELECTRICAL, WATER)
- CYBER ATTACKS USING DRONES EQUIPPED WITH PAYLOADS, SIGNAL JAMMERS.

SMUGGLING AND ILLEGAL ACTIVITIES

- DRONES USED TO SMUGGLE DRUGS, WEAPONS, AND CHEMICALS.
- EXAMPLE: DRONE RELEASED CHEMICALS INTO POOLS IN 2023.
- OPEN CAMPUS LAYOUTS MAKE MONITORING DIFFICULT.
- TRADITIONAL SECURITY MEASURES ARE INSUFFICIENT.

REGULATORY AND LEGAL LIABILITIES

- Unauthorized drone flights can violate FAA regulations, putting the university at legal risk.
- The university may face litigation from individuals whose rights or safety were violated.
- ALLOWING COMMERCIAL DRONE FLIGHTS WITHOUT INSURANCE. (CONSTRUCTION, PHOTOGRAPHY)

UNIQUE CHALLENGES FOR COLLEGES AND UNIVERSITIES

- OPEN, ACCESSIBLE ENVIRONMENTS COMPLICATE DRONE DETECTION.
- FREQUENT LARGE GATHERINGS INCREASE VULNERABILITY.
- HIGH-LEVEL RESEARCH IN SENSITIVE FIELDS IS AT RISK.
- NEED FOR TAILORED SECURITY STRATEGIES.

MITIGATING DRONE THREATS: A COMPREHENSIVE APPROACH

- INVEST IN DETECTION AND MITIGATION TECHNOLOGIES.
- ADVOCATE FOR REGULATORY REFORMS.
- PROMOTE PUBLIC EDUCATION AND AWARENESS.
- CREATE A COMPREHENSIVE POLICY GOVERNING DRONE FLIGHTS.
- CLOSE GAPS IN FAA AND CAMPUS POLICIES.
- COLLABORATE WITH LAW ENFORCEMENT AND THE FAA ON ENFORCEMENT AND RESPONSE. (UAS LAW ENFORCEMENT ASSISTANCE PROGRAM)



Unmanned Aircraft Systems Usage Request Form

This form is intended for use by individuals who request to purchase an unmanned aircraft systems (UAS) with funding through University of Alabama or who request to operate a UAS on University of Alabama owned property or on behalf of the University in another location.

Pilot	Email: Pho	one:	
Name:	Affiliation of Pilot:		
Mailing Address:			
	ntation that should be considered along with your applicat pilot license, 333 Exemption, COA, proof of insurance, flig		
Aircraft			
Type of UAS:		Total Weight of Air craft (including payload): Total weight includes the alic raft, and any cameras or attached equipment.	
Model Number: Serial Number:	ECON:		
Ownership:	Export Control Classification Number Camera Type:		
Sponsoring Department or Organization	Remote ID/Broadcast ID Equipped:	Yes No	
UA De pt./Org anization:			
UA Contact:			
	Email: Pho	ne:	
Flisht Plan			
Date(s):	Time(s): Altitu	ude:	
For multiple dates, use the description field below. Site:	Location:		
Event De scription:	If more space is needed for the description or justification, please use the attachm	ent section above to provide a separate document	
Justification:			
Acknowledgement			
regarding use of UAS, and that it is the resp	AS must comply with FAA regulations and local, onsibility of the operator of the UAS to ensure s are adhered to during operation of the UAS.	•	
Pilot Signature Date	UA Contact Signature	Date	

Internal Review Category: Environmental Health & Safety Risk Management Attachment Attachment Research Compliance Grounds Use Attachment Attachment UAPD Strategic Communications Attachment Attachment Environmental Health & Safety Public Safety Attachment Attachment Final Decision Approval Status: Revise and Resubmit Approved Declined Notes:z

DRONE SIGHTING REPORT



QUESTIONS

THANK YOU!

MICHAEL KELLEY
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