

CHEMICAL SECURITY SUMMIT

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2023 CHEMICAL SECURITY SUMMIT

MANAGING UAS CYBER-PHYSICAL RISK TO CRITICAL INFRASTRUCTURE





Who is CISA



CISA's mission is to lead the national effort to understand, manage, and reduce risk to our cyber and physical infrastructure.

The integration of unmanned aircraft systems (UAS)

(or drones) into the national airspace system and within critical infrastructure operations has emerged as a particularly concerning physical and cyber threat.







What is CISA Concerned About?



Careless & Clueless

- Consists of most common incidents
- Intent not required to represent a threat
- Unverifiable UAS operator training and UAS maintenance leading to recklessness
- Violates flight restrictions unintentionally or unknowingly



Non-attack nefarious

- Spying to conduct IP theft or espionage
- Pre-operational planning and surveillance
- Disruptions to distract or delay
- Delivery of payloads supporting insider criminal acts



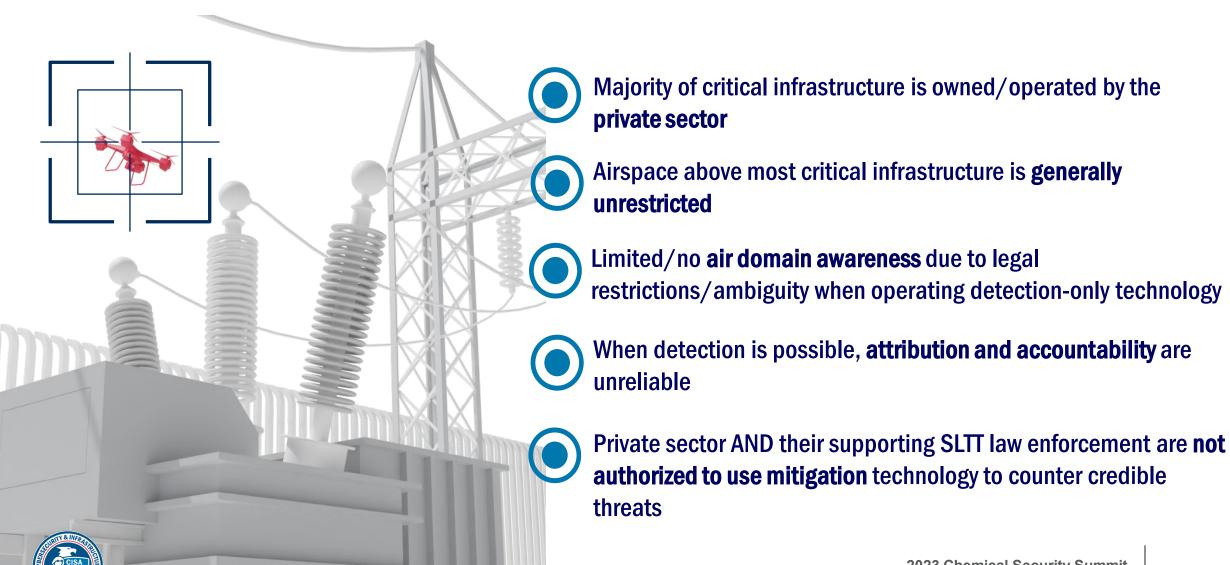
Cyber / physical attack

- Traditional security measures ineffective (gates/guards)
- Close-in blast capable
- Expansive cargo array
 - Payload / drop capable
 - Sprayers
 - Cyber-attack platform
 - Sensors / cameras





Challenges to Mitigating UAS Risk





UAS ICTS National Security considerations

Chinese UAS market dominance

Chinese Intelligence Law of 2017

Executive Order 13981

Chinese military-civil designations – 1206h

2023 National Cybersecurity Strategy

2023 ODNI Annual Threat Assessment







CISA UAS Security & C-UAS Efforts



Domestic C-UAS National Action Plan & Current C-UAS Authorities



Increase CI security through expanded detection and C-UAS authorities





Collaborate and share information with private sector partners to build capacity to address **UAS** risks





Understand and assess UAS-related vulnerabilities and risks

Advise/assist with managing UAS risk



Develop security guidance, raise public awareness, share information, advise/assist with temporary and enduring flight restrictions (SEAR events & FESSA 2209)

UAS Cybersecurity Best Practices Guide



Encourage public and private sector organizations to treat UAS as connected devices and implement cybersecurity measures to reduce risks

Cybersecurity Advisory for UAS





For more information: cisa.gov/uas-critical-infrastructure

Questions? sUAS Security

Email: sUASsecurity@cisa.dhs.gov