SAFE AND SECURE SKIES

AIRSPACE SYSTEMS, INC.

OSIsoft.
PI World
SAN FRANCISCO
APRIL 8-12, 2019

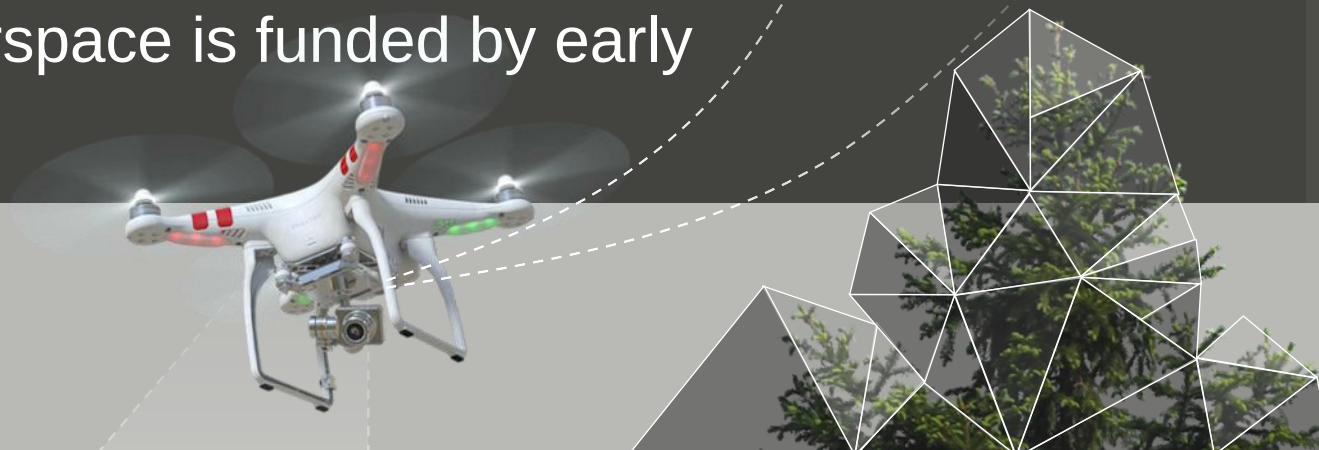
ABOUT AIRSPACE

AIRSPACE

Airspace uses AI and advanced robotics to create fully automated, always-on solutions that deliver the three mandatory requirements of airspace security: long-range detection, instant identification, and safe capture and removal of unauthorized or malicious drones.

Airspace solutions protect people, property and IP for businesses, law enforcement and the military. All Airspace solutions are mobile, modular, and simple to operate.

Founded in San Francisco in 2015, Airspace is funded by early investors in Nest, Palantir, and Skype



AN UNPRECEDENTED NEW THREAT

UNCONSTRAINED

Impervious to traditional barriers

ELUSIVE & LONG RANGE

Travels up to 75mph

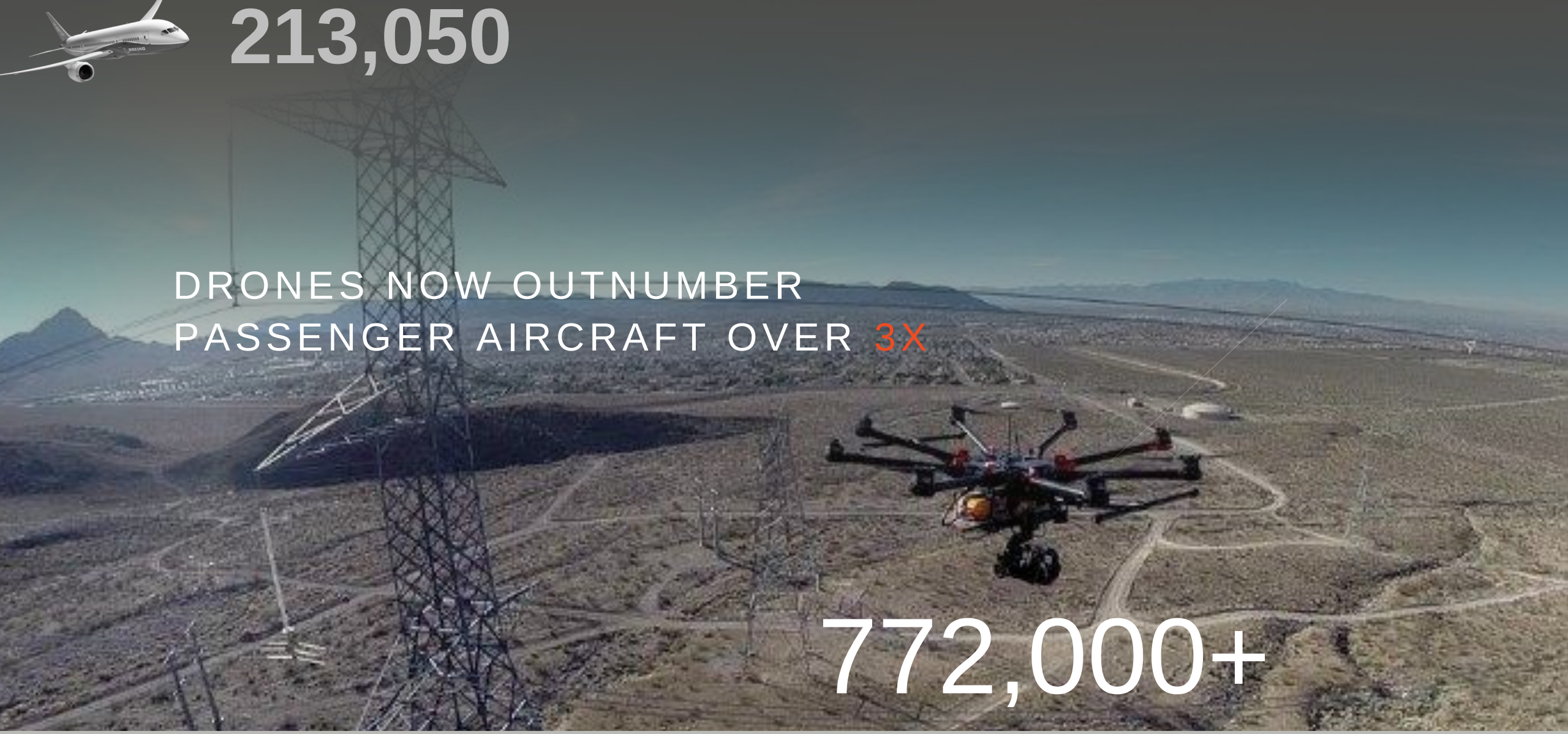
Can be launched 5+ miles away

OPEN

Easy to hack, no central control

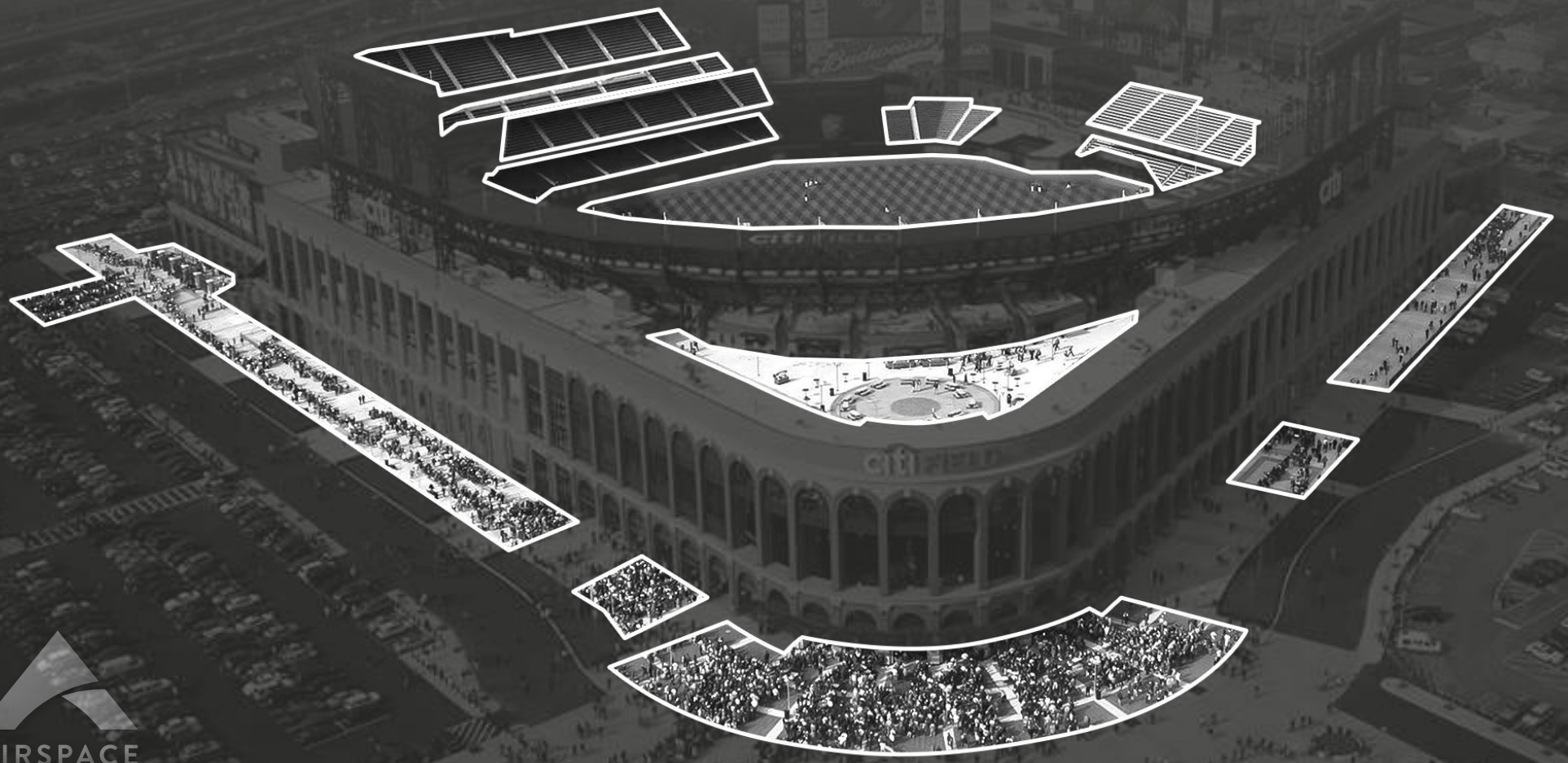
AUTONOMOUS

No remote control needed to fly


213,050
DRONES NOW OUTNUMBER
PASSENGER AIRCRAFT OVER 3X
772,000+

“No Fly Zones” Do Not Work

Existing security systems only protect in **TWO DIMENSIONS**



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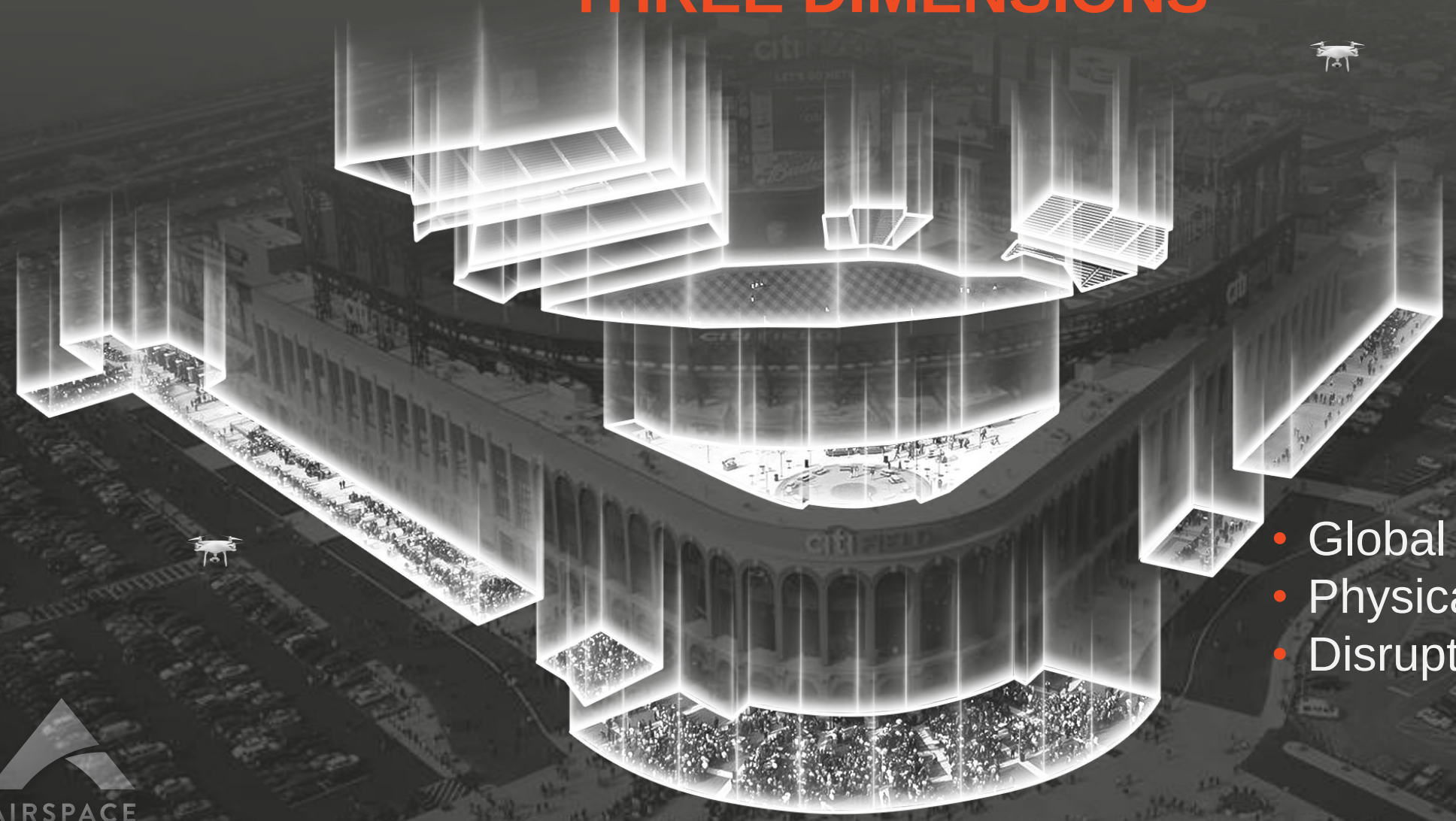
The new security challenge is in **THREE DIMENSIONS**



- Global Threat
- Physical & Cyber Threat
- Disruptive & Costly

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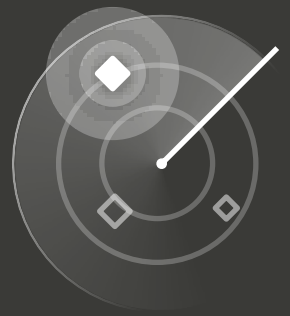
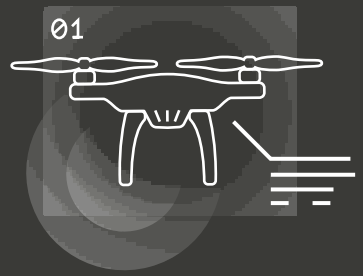
HOW DO YOU PROTECT AIRSPACE?



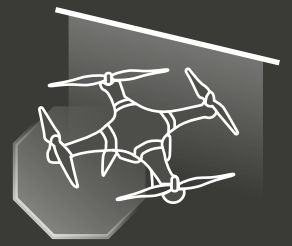
DETECTION
PARTNERS FOR GROUND-BASED MONITORING

- Radar, RF in combination with Optical Detection is best practice



IDENTIFICATION
IN REAL-TIME

- Part I Identify the Drone
- Part II Identify the Pilot
- Verify Credentials

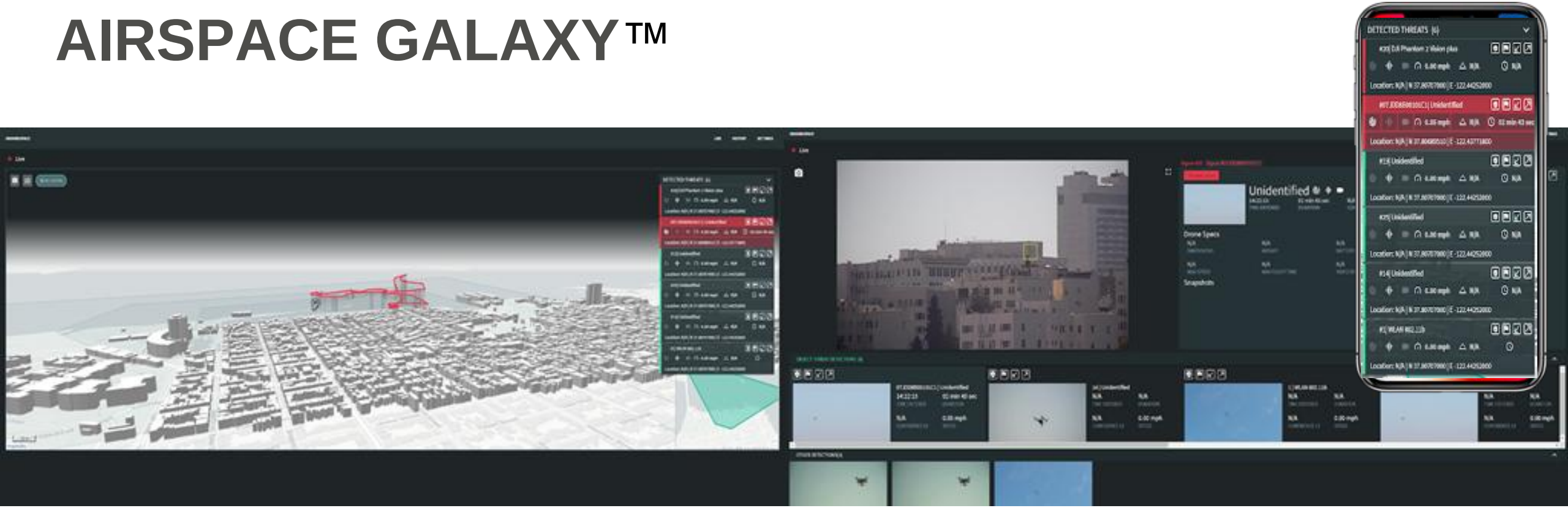


ENFORCEMENT
BY ESCALATING RESPONSE

- Identify Operator Location
- Patrolling Air Unit
- Wireless Countermeasures
  Jamming/Hacking Partners


Live
3D
AIRSPACE GALAXY
uses artificial intelligence to instantly identify unauthorized flights and assesses risk
DETECTED THREATS

AIRSPACE GALAXY™



- Long-range detection – available in any browser and mobile device
- 100% of drone types detected
- Forensic recordings of all drone threats (Airspace Black Box™)
- Automated slewing of cameras
- Compatible with all available mitigation systems civilian and military

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AIRSPACE TECHNOLOGY

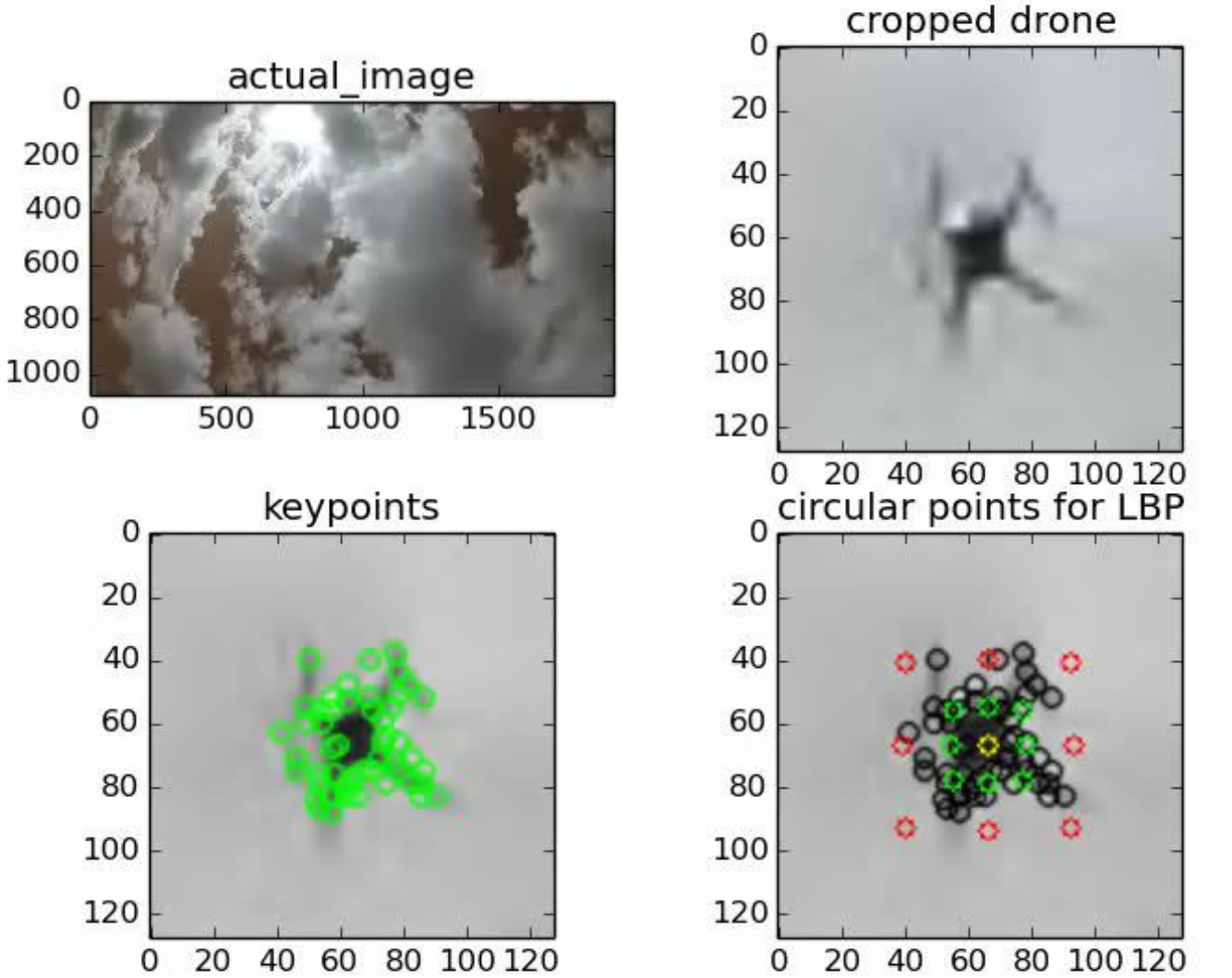
AIRSPACE

Airspace uses artificial intelligence, machine vision, and advanced robotics to ensure airspace security against unauthorized or malicious drones.

Only Airspace's solutions deliver critical airspace security requirements:

- Long-range detection
- Instant identification
- Automated response, including autonomous capture & safe removal

ADVANCED AI AT THE EDGE



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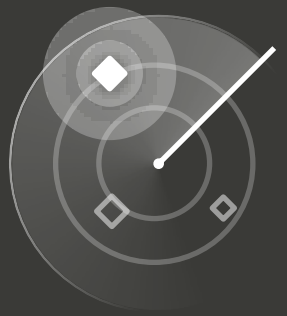

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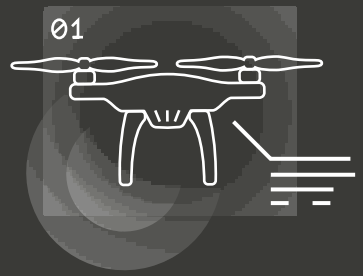

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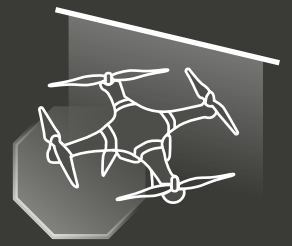

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AIRSPACE CAPABILITIES

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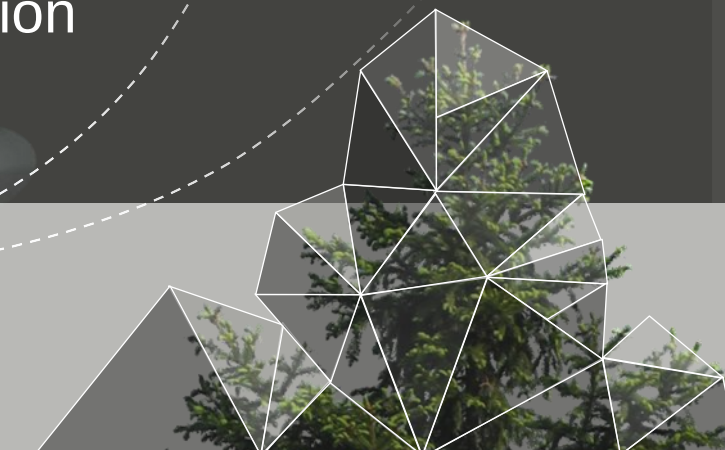
- Long-range regional drone detection and identification systems
- Mobile systems capable of rapid deployment
- Fully regulatory compliant – ability to see 100% of drone traffic (all cooperative and non-cooperative drones)
- Future Proof Platform – Compatible with all existing and future data sources, sensors and mitigation systems
- Real-time data feeds into PI cloud, visualization and response automation with cloud applications over standard web technologies everywhere
- Military-grade physical mitigation systems developed in cooperation with US Department of Defense



AIRSPACE SYSTEMS

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CHALLENGE

Safe and secure skies are dependent on data, video feeds that need to acted upon in real-time

Fast moving drones require long-range, real-time detection, identification and mitigation response automation

SOLUTION

Combination of AI at the edge to compress data allows for real-time cloud data availability

PI server uploads data into cloud. Once data is in the cloud, PI applications can visualize it and respond automatically with existing PI data infrastructure.

RESULTS

Effective airspace control allows for drone use in enterprise and minimizing operational disruptions

Drone automation allows for more efficient operations and capabilities. Realtime response to threats increase safety and security, utilizing the existing PI system data infrastructure

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