

# Airspace Monitoring Service

Safety Through Sensing™

2k+

Drone sightings reported to FAA in both 2018 and 2019 at US Airports by citizens, pilots, and law enforcement.<sup>[1]</sup>

>95%

Hidden Level is able to detect and track the majority of known commercial UAV manufacturers.

0

Number of extra screens needed for your operations team. Hidden Level integrates to your existing GSOC, VMS, USS, or Situational Awareness Platform.

\$6.5m

Cost of CUAS equipment purchased by Gatwick Airport. Hidden Level could cover the airport area for a fraction of the cost.

19x

Number of competitor sensor installations needed to cover the same area as ONE Hidden Level installation.

170mi<sup>2</sup>

Area covered by 15 Hidden Level sensor installations, which could cover the entire city of Atlanta including the Hartsfield-Jackson Airport.

The team that makes up Hidden Level have been working together for more than a decade with a history of success designing, producing, and deploying state of the art technology for both military and commercial markets. Specializing in radars, sensors, and communications systems, our team previously has developed state-of-the-art air surveillance radars, weapon location radars, ground surveillance radars, electronic warfare systems, passive RF sensors, and more.

Hidden Level's mission is to enable the safe integration of drones into the National Airspace System (NAS) by providing actionable airspace monitoring data through its advanced sensor technology network. With use cases such as drone delivery becoming closer to reality, urban centers present the greatest challenge for ensuring security and enabling safe

commercial drone operations. **Current technologies today do not scale** for the large area coverage needed for major cities, which is problematic to ensure long term viability and safety of the NAS.

The Airspace Monitoring Service (AMS) is offered as a cloud-based solution with no expensive on-premise equipment or software to be owned or maintained. Hidden Level sensors are strategically installed on existing infrastructure, buildings, rooftops, cell towers, etc. to form a comprehensive low altitude airspace picture.

The drone detection and tracking data from AMS integrates directly into a facility or operations team Video Management Software (VMS), Security Operations Center (SOC), UAS Service Supplier (USS), or Situational Awareness Platform as a simple

add on service via its GeoJSON based API. AMS data easily integrates with many popular security platform providers. AMS subscription fees depend on the use case for data fidelity and the coverage area desired in square miles, which customers can customize to only get what they need.

The flexibility provided by the Airspace Monitoring Service provides many benefits to the end user:

- Eliminates burden on a facility, venue, or entity to own, operate, or accommodate expensive and rapidly changing technology
- Provides greater warning time, leading to fast and efficient responses from security and law enforcement to handle unwanted drone incursions
- Large area coverage reaches a diverse customer group who can share in the service benefits including customizable coverage area

## WHAT DOES A CITY COVERED BY THE AIRSPACE MONITORING SERVICE LOOK LIKE?

A typical urban US city contains many different entities looking for airspace security, including its residents.

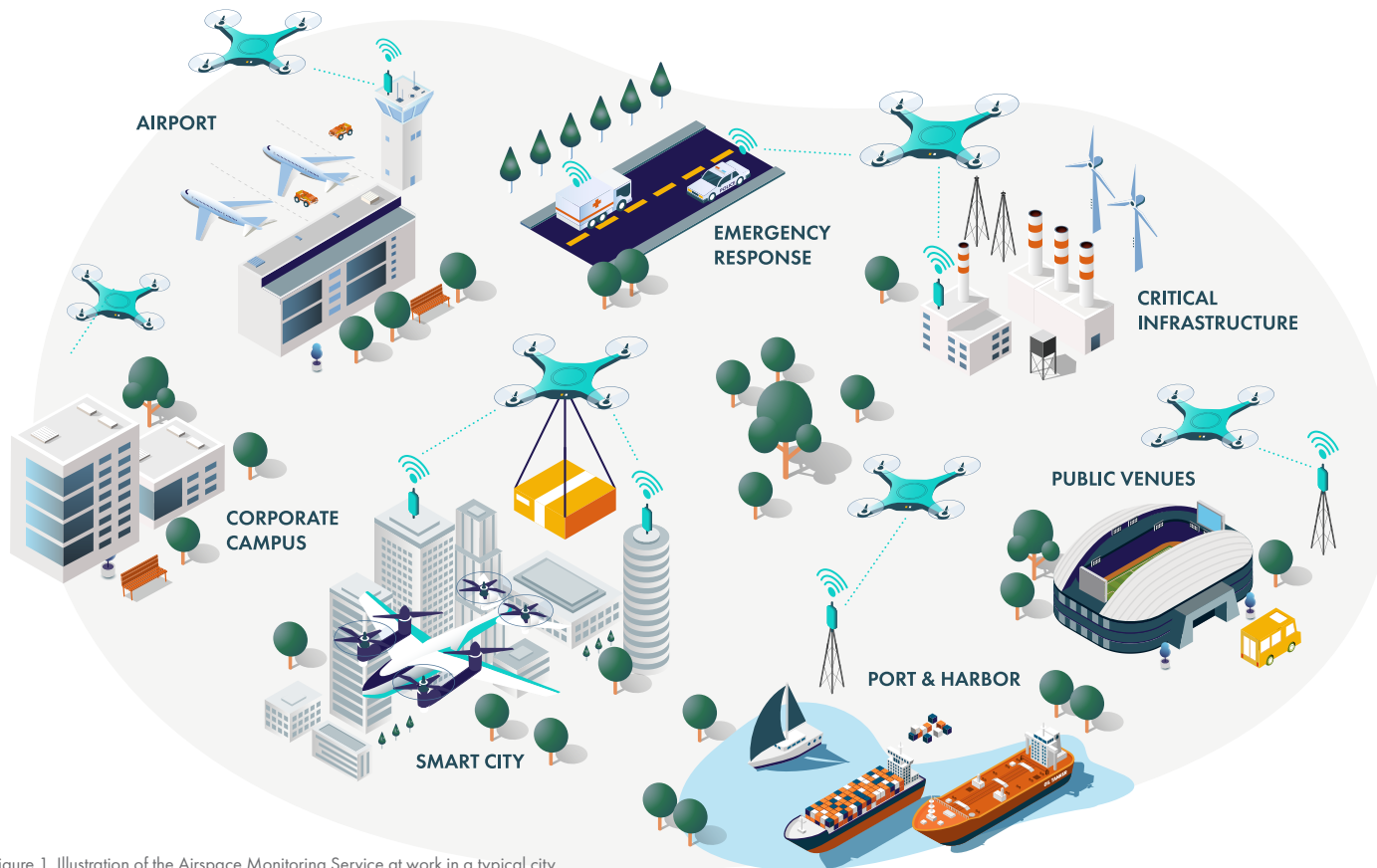


Figure 1. Illustration of the Airspace Monitoring Service at work in a typical city

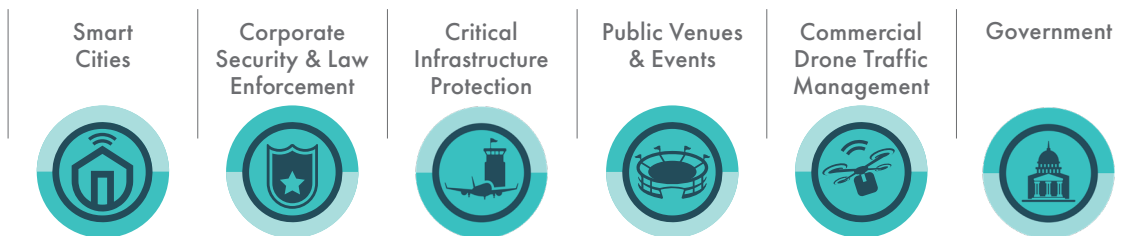
Hidden Level's sensors are strategically placed on existing elevated infrastructure within an urban area, such as water towers, cell towers, and building rooftops. Sensor installations are optimized to provide high fidelity airspace monitoring around our customer's primary areas of interest. Hidden Level sensor deployments offer an unprecedented combination of range and scalability, with 15 installations or less sufficient for nearly half of the top 40 US cities by population<sup>[2]</sup>.

Each sensor works to interpret a 3D location, classification, and other identifiers that represent a drone of interest. The data from each sensor is processed by our Airspace Monitoring Service to produce a real time track of the drone along with other situational intelligence for security personnel, air traffic managers, or other end users to be able to formulate potential mitigation responses.

### REFERENCES

- [1] [https://www.faa.gov/uas/resources/public\\_records/uas\\_sightings\\_report/](https://www.faa.gov/uas/resources/public_records/uas_sightings_report/)
- [2] <https://www.politifact.com/largestcities/>

## MARKETS



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