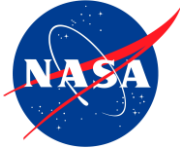




Data as a Service (API Data)



# Smart Mobility At NASA Ames



Identify a system that can detect and track cooperative and non-cooperative UAS and manned aircraft and integrate into existing NASA architecture.



## MISSION OBJECTIVE

Provide a comprehensive surveillance solution for UAS Traffic Management (UTM) and Advanced Air Mobility (AAM) ecosystems.

## WHAT WE DID

Deployed Hidden Level sensors to NASA AMES and ingested data from multiple sensor sources to create a 3D airspace picture that could be easily integrated into NASA's UTM platform.

## VALUE DELIVERED

- 01 Helped develop concept of operations and architectures for UTM and AAM systems, focused on airspace awareness.
- 02 Deployed Hidden Level sensors to provide cooperative and noncooperative detection of UAS and integrated active radar to create a common operating picture.
- 03 Integrated AMS API data with all sensor feeds into NASA's XTMClient and Federal USS architecture.
- 04 Enabled mobile surveillance SDSP and demonstrated UAS Traffic Management capabilities.



# NUAIR BVLOS Corridor



Drive economic development through innovations in UAS and Advanced Air Mobility to safely integrate into the national airspace.



## MISSION OBJECTIVE

Deliver advanced UAS commercial outcomes and build a BVLOS aviation ecosystem using a proven network of systems and partners. Understand and nurture the harmonization needed to innovate airspace, advance aviation, and architect Advanced Air Mobility (AAM) from theory to reality.

## WHAT WE DID

Hidden Level deployed sensors to provide UAS detection capability around critical infrastructure in the BVLOS corridor and aggregated all airspace sensor data into a common operating picture for all partners.

## VALUE DELIVERED

- 01 Economically provide non-cooperative detection and tracking of common and uncommon, commercially available UAS beyond DJI platforms.
- 02 Identification and tracking of cooperative, Remote ID (RID) enabled UAS.
- 03 Provide a secure network backhaul for all sensors in the BVLOS corridor including ours, primary radar, and ADS-B receivers.
- 04 Create a common operating picture using AMS and integrated the API into BVLOS partner platforms including Aloft.ai, SkySafe, UFA, and ResilienX.