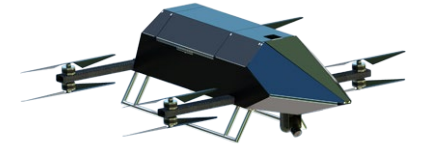


Weather Scout

Configurable Sensing in Urban, Suburban, and Rural Environments



- Phase I Objectives
 - Investigate combinations of UAS platforms and onboard weather sensors for a variety of military and commercial missions
 - Design a Weather Testbed (also useful for vetting other Agility Prime platforms with respect to weather)
 - Devise a flight testing plan, including arrangements for acquiring all necessary approvals
- Leveraging a significant amount of ongoing R&D and commercial knowledge
 - UND platforms and rain-detection sensors
 - TWS passive icing detection (Radiometrics), LIDAR (ZX Lidar), wind/temp/pressure/humidity (Anemoment), Smart Cities sensor deployment
 - AVA heavy-lifting, long-endurance platforms
 - Akrobotix platforms and atmospheric visibility sensors
 - AeroGear Telemetry highly reliable telemetry and distributed data acquisition
 - DHWA sensor data fusion, ML, and mission planning (e.g., route optimization based on weather risk)
- Weather Scouts will capture critical environmental data, provide real-time observations for UAS mission decision making, and feed those observations into existing/emerging sub-regional weather models and machine learning (ML) to improve the accuracy of those models
- Known/Targeted Customers
 - 557th Weather Wing
 - 319th Reconnaissance Wing (319 RW), Grand Forks AFB
 - New York Air National Guard's 174th Attack Wing, Hancock Field, Syracuse NY



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