Longbow's USRTC in Virginia uses Kongsberg Geospatial's IRIS Terminal for PEGASUS UTM Program, enabling UAS awareness

Longbow Group's first and only multi-domain research and technology center uses Kongsberg Geospatial's IRIS Terminal for PEGASUS UTM Program.

OTTAWA, ONTARIO, CANADA, March 29, 2023 /EINPresswire.com/ -- Kongsberg Geospatial, developer of IRIS Terminal airspace deconfliction platform, and The Longbow Group (LONGBOW), which operates the Unmanned Systems Research and Technology Center (USRTC) with facilities in downtown Hampton and at Fort Monroe, offering a local, centralized location in Hampton Roads Virginia to conduct research and testing of Unmanned Ground, Airborne or Maritime Fleet, and Traffic Management Systems, announced that they are implementing the IRIS Terminal to provide multi-domain situational awareness.

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>
> *Jordan Freed, President of Kongsberg Geospatial*

LONGBOW evaluates and implements Unmanned Traffic Management (UTM) and Drone Detection Technology to develop the initial concept for a locally integrated UTM solution for Hampton Roads covering the management of both Air and Surface Unmanned Traffic. The key to safe operations is real-time situational awareness of both air and surface domains. Beyond Visual Line of Sight flights to/from Fort Monroe and NASA LaRC are envisioned. In 2021, LONGBOW signed a Space Act Agreement with NASA Langley for the development of BVLOS corridors and has partnered with Hampton University and the City of Hampton on the installation of a Skyler ground-based

surveillance and weather radar in downtown Hampton. The BVLOS flights with NASA and supported by Hampton University student pilots will serve to establish the required system performance to enable initial maritime surveillance operations. BVLOS flights are anticipated in 2023 with several levels of build-up flight testing underway.

IRIS Terminal, now in its second generation, has been developed for the enterprise UAS sector for visualization of airspace traffic, as well as autonomous control of uncrewed systems in its GCS format. Ownship, cooperative and non-cooperative traffic are all visualized by IRIS Terminal in multiple viewing configurations, along with useful features such as DAA sensor footprints, terrain awareness, or potential conflict warnings. Where the same aircraft produces multiple tracks (one track per sensor), IRIS Terminals' 'smart correlator' feature will correlate these multiple tracks into one single track to ensure the UI remains uncluttered and the operator can focus on the work at hand.

IRIS Terminal is increasingly becoming a key tool for governments, UAS test sites, and companies who want to implement BVLOS operations at scale in a safe and integrated manner and incorporate public airspace information such as NSUFRs, TFR's and approvals embedded in LAANC and other regional UTM systems.

"We're pleased to be working with a professional airspace research and UAS range facility like LONGBOW's USRTC," said Jordan Freed, President of Kongsberg Geospatial. "This is a facility that applies their expertise to multi-domain operations and few are doing that. At Kongsberg Geospatial, we've developed world class technology for sensor integration and airspace awareness. This provides a tremendous foundation for our partnership."

"Professional BVLOS unmanned flight operations require the very best in equipment and technology. Kongsberg Geospatial provides what we believe to be a significant enhancement to the provision of air and water space situational awareness and therefore significantly improving the safety of our low altitude operations over water," said Marco Sterk, Longbow's CEO.

ENDS ###

About Kongsberg Geospatial:

Based in Ottawa, Canada, Kongsberg Geospatial (https://kongsberggeospatial.com), developer of the TerraLens Geospatial SDK, creates precision real-time software for air traffic control and UxS and situational awareness. The Company's products are primarily deployed in air-traffic control, Command, and Control, and air defense solutions. Over nearly three decades of providing dependable performance under extreme conditions, Kongsberg Geospatial has become the leading geospatial technology provider for mission-critical applications where lives are on the line. Kongsberg Geospatial is a subsidiary of Kongsberg Defense & Aerospace.

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About LONGBOW:

LONGBOW is an international aviation consulting and technology company, established in 2006, focused on Commercial Aviation, Unmanned Systems, Autonomous Urban and Advanced Air Mobility, Traffic Management Research & Development, and is the operator of the Unmanned Systems Research and Technology Center (USRTC) with facilities in downtown Hampton and at Fort Monroe, supporting research in the emerging Unmanned Aircraft and Automated Vehicle Market

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