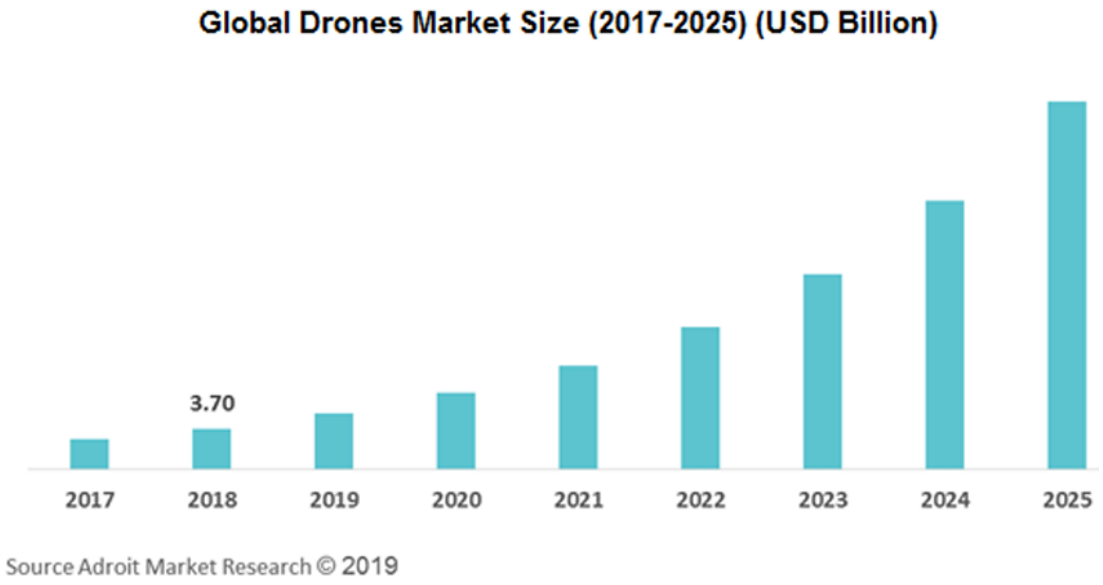
AirborneRF

aircom
A TEOCO Company

AirborneRF is aircom's connectivity data platform for beyond visual line-of-sight (BVLOS) drone operations in cellular networks, providing valuable information about where drones can fly without losing connectivity.

The use of drones for commercial services in industries including agriculture, transport, insurance, telecommunications and others is expected to increase exponentially, and will provide great opportunities for network operators. Adroit Market Research forecasts a 40.7% CAGR and a market size of $144 Billion by 2025 for the drone market.



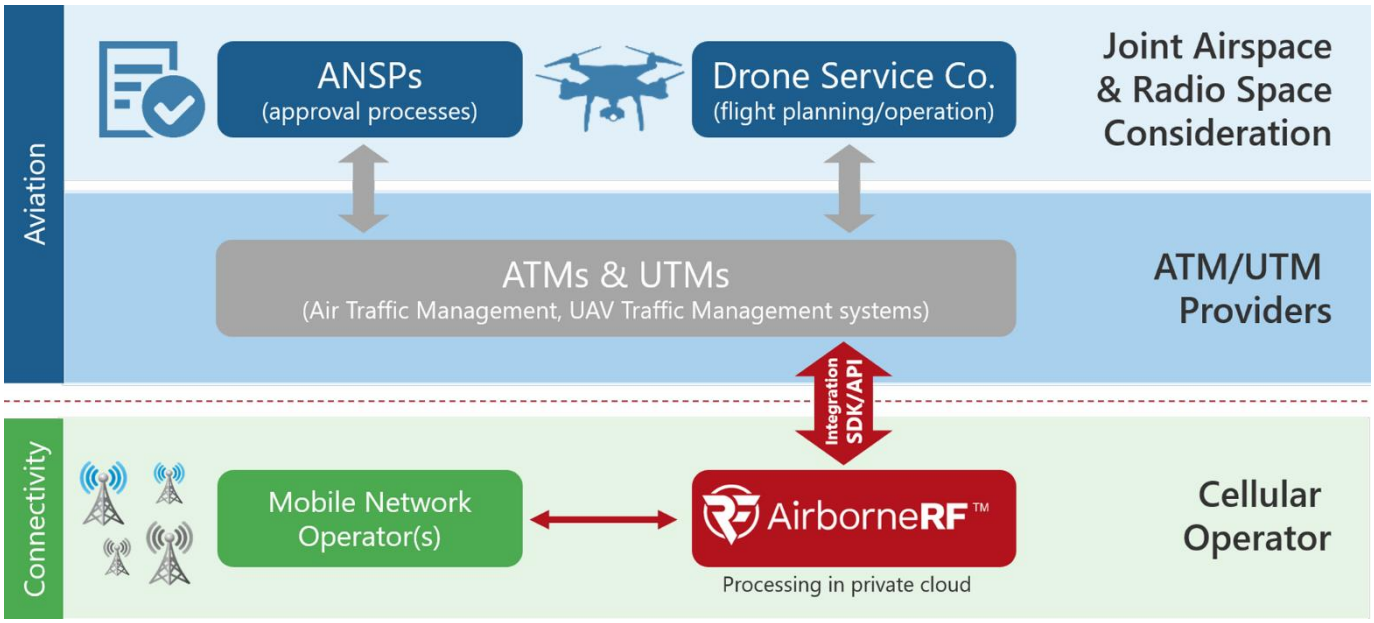
> "A market size of $144 Billion by 2025 for the drone market"
>
> - Adroit Market Research

Today's requirement for drones to maintain a line-of-sight view severely limits their market potential, but these rules are expected to change. BVLOS drones will improve the economics and feasibility of many use cases, helping to drive uptake. One of the major challenges, however, is the need for reliable command and control connectivity, which will be required for operation. In many situations, cellular is the most appropriate choice.

Where is it safe to fly BVLOS drones?

The question of where it is safe to fly BVLOS drones needs answering. Or, more specifically, where is there sufficient cellular connectivity and clear airspace to fly BVLOS drones? Operators can answer the cellular connectivity part of that question, and drone services companies are willing to pay for that information.

AirborneRF computes the 3D radio space for the safe operation of every drone flight. It delivers that information to Air Traffic Management (ATM) and UAV Traffic Management (UTM) systems in real time. By connecting cellular networks with aviation systems, AirborneRF enables safe BVLOS services.



AirborneRF brings together the mobile network operator's radio network with unmanned aerial vehicle (UAV) airspace control to calculate where cellular controlled drones can safely fly.

Flight Planning

AirborneRF considers both national airspace control and cellular network coverage to define an air safety compliant, three-dimensional corridor where UAV's can be reliably controlled.

In-flight Monitoring

Drone flights are monitored by AirborneRF. Measurements of real-world conditions during flight can be used to instantly recalculate routes, if necessary, to ensure safe completion of the flight.

Physical Network Audits

BVLOS drones are an ideal solution for carriers to perform physical site audits (antenna heights, azimuths etc.) AirborneRF can be used to plan and coordinate the flights required to complete these audits.

Monetize Business Cases

Demonstrate network capabilities to companies that are considering UAV technology for BVLOS applications, such as first responder reconnaissance, package delivery, infrastructure inspections, and so on.

About Aircom

Aircom is a leading provider of RAN analytics, design, and optimization solutions to communication service providers worldwide.

Aircom is a brand that you have known and loved for many years, now backed by the financial strength of TEOCO.

For over 25 years, aircom has enabled mobile operators to automate how they plan, configure, and optimize their networks. This is even more critical when dealing with complex services like fixed wireless access (FWA), 5G standalone, private networks, and IoT, where everything needs to work in harmony to deliver a supreme customer experience. Through advanced analytics, our products provide actionable and measurable insights into network and customer behavior.

Cutting-edge products and services.

Market-leading solutions for addressing today's complex RAN environments.

Innovation is in our DNA.

We have the latest AI/ML-powered algorithms, automation, and new services to revolutionize your RAN.

Trusted by the world's leading service providers.

With 125+ customers in 100+ countries, we have the knowledge and experience you're looking for.

With decades of experience and a customer list that spans the globe, aircom helps its customers improve service quality, resolve network challenges, automate processes, and establish a competitive edge.