



**AirborneRF™**

Connectivity Data Platform for BVLOS Drone  
Operation in Cellular Networks



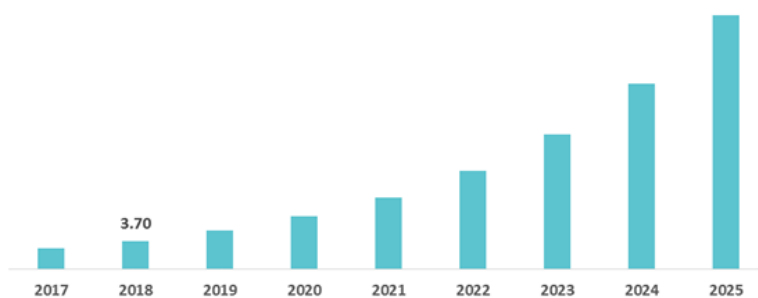
[www.teoco.com](http://www.teoco.com)



**AirborneRF is TEOCO'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.

**Global Drones Market Size (2017-2025) (USD Billion)**



"A market size of \$144 Billion by 2025 for the drone market"

- Adroit Market Research

Source Adroit Market Research © 2019

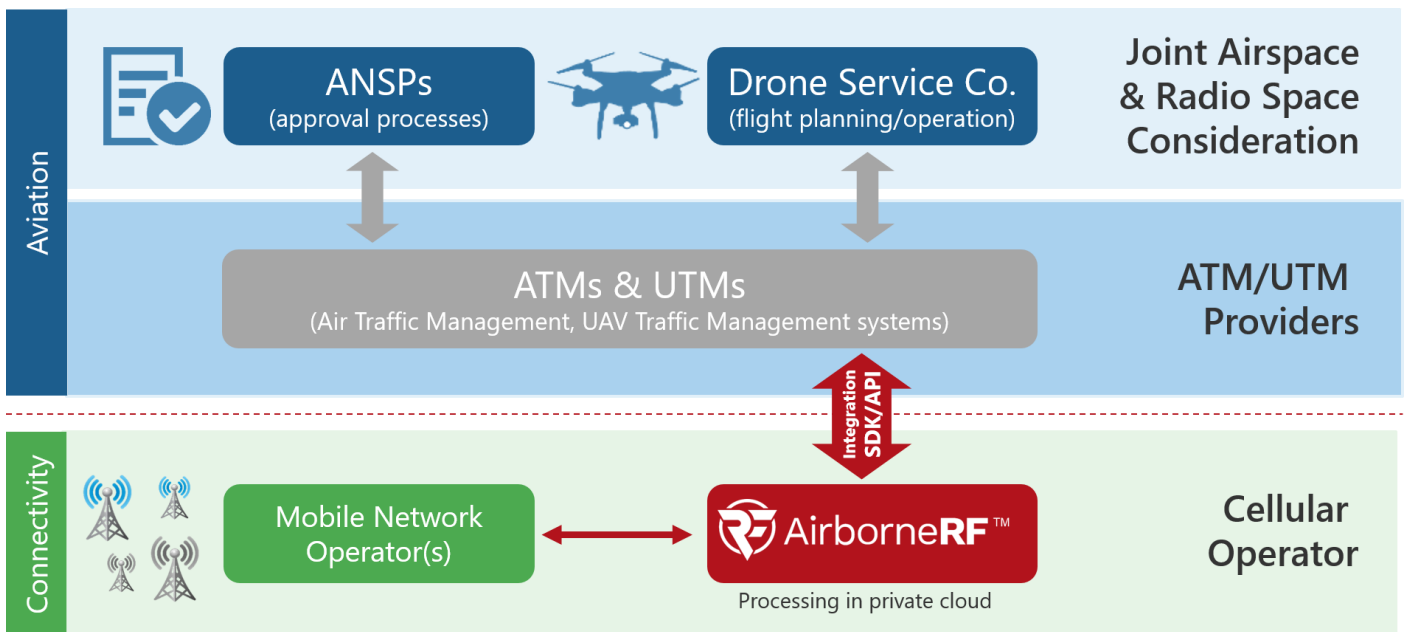
Today's requirement for drones to maintain a line-of-sight view severely limits their market potential, but these rules are expected to change. BVLOS drones will improve the economics and feasibility of many use cases, helping to drive uptake. One of the major challenges, however, is the need for reliable 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 is it 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 safe drone operation of every 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 (MNO) radio network with unmanned aerial vehicle (UAV) airspace control to calculate where cellular controlled drones can safely fly.**



## **Flight Planning**

AirborneRF takes into account 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 TEOCO



**TEOCO is a leading provider of analytics, assurance & optimization solutions to over 300 communication service providers (CSPs) and OEMs worldwide.**

Our solutions enable the digital transformation of CSPs while enhancing their network QoS, improving their customer experience and reducing their operational costs.

Through advanced analytics and automation, TEOCO solutions provide actionable and measureable insights into network and customer behavior. This includes the optimization, effective monetization, and delivery of new and existing services, such as VoLTE and Video.

Our commitment to network flexibility and agility makes TEOCO the obvious choice for CSPs looking to leverage NFV/SDN and the rise of 5G, and to maximize the revenue potential of new opportunities tied to video and the emerging Internet of Things (IoT).



**Global  
Footprint**



**Extensive  
Portfolio**



**Proven  
Solutions**



“TEOCO’s market leading position in Engineering Systems reflects the success of its extensive network planning and optimization solution set, built by some very cohesive acquisitions and integrated effectively to form a leading portfolio”

- Analysys Mason