

TECHNOLOGY

Drone Industry Taking Flight

REVENUE, SHIPMENTS AND CAGR

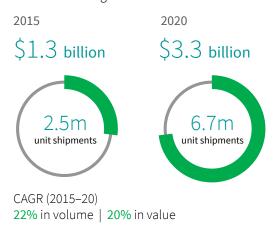
Professional drones

The market for professional drones is still in its infancy, but unit shipments are projected to reach 3.3 million in 2020.



Consumer drones

The consumer drone market is more established and its growth will be relatively slower than the professional drone market. Still, the consumer drone segment will continue to be the spine of the drone sector as increasing demand leads to the development of new technologies and features.

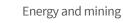


APPLICATIONS

Drones are and will be used in a wide variety of applications, but perhaps none more important than transport and logistics systems—especially once governments define the regulations and provide a safe and stable environment for companies to develop their ideas and plans.

Agriculture and forestry

Construction, maintenance and demolition





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Government, humanitarian, civic defense and rescue



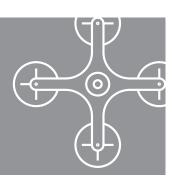
Media and entertainment

Science, research and environment



Transport and logistics systems

DRONES are a particular form factor of robots that can fly—and include fixed-wing and multi-rotor-based balloons and airships. They are capable of flying without humans on board. In the context of service robots, drones are aerial robots that undertake the same definitions of tasks conducted by service robots.



REGIONAL VOLUME SHARE

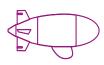


The **AMERICAS** comprised 35% of global professional and consumer drone unit shipments in 2015, followed closely by Europe and Asia Pacific.



By 2020, ASIA PACIFIC will account for the majority of global unit shipments.

SUB FORM FACTORS

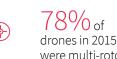


Airships Blimps or dirigibles are lighter than air but move under power



Balloons Lighter than air but move under power

Fixed wing Aircraft kept airborne using powered flight



were multi-rotor

Multi-rotor

Aircraft kept airborne using rotor thrust, typically configurations of multiple vertical thrust rotors but occasionally traditional helicopter designs

CHALLENGES TO ADOPTION

The regulatory framework is an important factor affecting the adoption of drones. At present, there are no global regulations for drones that concern safety, security and privacy. Different regions have their own regulations and standards, which has resulted in varying growth rates for certain application areas in

different geographies.

The evolution of regulations will continue to have a significant impact—positive or negative—on the drone market, either by allowing the technology to reach its potential capabilities or by preventing manufacturers from introducing new applications.

