

# **Earth Observation Drone Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028F Segmented by Application (Environmental Monitoring, Disaster Management, Surveying and Mapping, Search and Rescue, Surveillance and Reconnaissance, Industrial Inspection and Monitoring, Agriculture and Forestry, Cinematography), by End-User (Government Vs. Non-Government), By Region**

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## **Abstracts**

Global Earth Observation Drone Market is expected to grow at a rapid CAGR in the upcoming years. Drones are increasingly being used for industrial and commercial purposes, which is expected to be a key contributor to the market's growth. Moreover, drones that are used for earth observation are utilized for a variety of tasks, including environmental monitoring, disaster management, surveying and mapping, search and rescue, surveillance and reconnaissance, industrial inspection and monitoring, agriculture and forestry, which is also contributing to the growth of earth observation drone market.

A typical drone has hardware and software components such as a camera or sensors, a controller, detect and avoid system, and a navigation system. Drones are currently employed in the military, civil administration, commercial, and leisure sectors. Companies across the drone sector are creating cutting-edge sensors for drones so they can deliver statistical data and analytical information for regularly important activities. Furthermore, companies are putting more emphasis on creating long-duration drones that can stay in the air for extended periods of time at greater altitudes. The

world's first 'Sea-Air Integrated Drone' was unveiled in January 2022 by the Japanese telecommunications giant KDDI, Prodrone Co., Ltd., and QYSEA during a flight showcase at the Hakkeijima Sea Paradise in Yokohama. European Deep Tech investment company Boundary Holdings has made four major investments in the drone industry, which include USD.5.8 million in Elistair for Series B, USD 1.6 million in InfiniDome for pre-Series A, Asteria & Swiss Drones. In the year 2020, Joby Aviation and Liliun received major investments in the drone industry across the world, in which Joby Aviation had two investments, including its acquisition of Uber Elevate through M&A, for a total of USD 590 million. Meantime, in the year 2020, Liliun also had two investments for a total of USD 240 million. With the addition of these contributions, it will serve as a foundation for Liliun's recently finished manufacturing facilities' preparations for serial production as well as support the development of the Liliun Jet.

During the COVID-19 pandemic, the advantages of using drones for numerous commercial, industrial, and civil government purposes were fully appreciated, and it is expected that drone use will continue to rise after the COVID-19 pandemic. To help people during the pandemic in China, Micro Multi Copter commercial drone manufacturer deployed more than 100 commercial drones.

### The surge in Demand for Drones

Drone adoption is rising in a variety of civil-government and industrial applications thanks to the dynamic use of drones during the COVID-19 era. These include using drones to inspect infrastructure, such as railways, bridges, and oil and gas fields. Drones and autonomous airborne systems are currently more in demand for tasks such as monitoring construction sites and conducting inspections of solar panels. Countries all over the world have relaxed regulations pertaining to drone operations to meet this demand and support the Earth Observation Drone Industry. As of 2021, 29,500 drones had been registered in India, and the government also took the initiative to create a database of these types of unmanned flying devices.

### Multiple downstream providers of Geospatial Services

For downstream geospatial service providers, the increased demand for drones for commercial, industrial, and civil government applications has simultaneously opened a huge potential niche. To make informed judgments, Earth observation applications, including agriculture monitoring, precision agriculture, farming, fishing, disaster management, emergency response, inspection, etc., need dynamic and cutting-edge analytical data. For instance, tracking and analyzing soil moisture and texture enables

farmers to better care for their crops and spot areas that need fertilizer or pesticide application to keep them safe.

### On-Demand Aerial Survey Requirements are Growing

When drone imagery is needed for a specific task at a specified moment, the process is referred to as an on-demand aerial survey. Aerial survey services on demand are becoming more and more popular among businesses thanks to the development of sophisticated analytical tools and sensors for gathering aerial information.

Additionally, having and using drones calls for qualified drone pilots, licenses, and sufficient fly zone authority. Companies and industries that regularly use drones for inspections and monitoring may be able to afford to purchase these. Some business companies rely on on-demand aerial survey services because they don't need these approvals as frequently.

### Government Rules on Drone Production and Sales

One of the main obstacles facing the Global Earth Observation Drone Market is government regulation. Guidelines for the use, manufacture, and export of drones and related hardware are mandated by each nation's aviation and drone regulating organizations. For instance, in the United States, the Federal Aviation Administration (FAA) oversees regulating drone use. Drone laws are required to be enforced in China by the Civil Aviation Administration of China (CAAC) and in the UK by the Civil Aviation Authority (CAA).

### Market Segmentation

The Global Earth Observation Drone Market is segmented on the basis of application type, end-user type, and region. Based on application, the market is divided into environmental monitoring, disaster management, surveying and mapping, search and rescue, surveillance and reconnaissance, industrial inspection and monitoring, agriculture and forestry, and cinematography). Based on end-user, the market is divided into government vs. non-government. On the basis of region, the market is divided into Asia-Pacific, Europe, North America, South America, Middle East & Africa.

### Company Profiles

SZ DJI Technology Co., Ltd.DJI, Parrot Drone SAS, Lockheed Martin Corporation,

AeroVironment, Inc., General Atomics Aeronautical Systems, Inc., Northrop Grumman Corporation. Embention Sistemas Inteligentes SA, Hubsan, Insitu Inc. NSITU, and AgEagle Aerial Systems Inc. are the key players developing advanced technologies to stay competitive in the market and enhancing their product portfolio in the regions to increase their customer outreach.

#### Report Scope:

In this report, Global Earth Observation Drone Market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

#### Earth Observation Drone Market, By Application:

- Environmental Monitoring
- Disaster Management
- Surveying and Mapping
- Search and Rescue
- Surveillance and Reconnaissance
- Industrial Inspection and Monitoring
- Agriculture and Forestry
- Cinematography

#### Earth Observation Drone Market, By End User:

- Government
- Non-Government

#### Earth Observation Drone Market, By Region:

- North America

United States

Canada

Mexico

Europe & CIS

Germany

Russia

France

Spain

Italy

United Kingdom

Poland

Asia-Pacific

China

India

Japan

South Korea

Malaysia

Indonesia

Thailand

## Middle East and Africa

South Africa

Saudi Arabia

Turkey

Israel

United Arab Emirates

## South America

Argentina

Brazil

Colombia

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Earth Observation Drone Market.

## Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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