

# **Global Small Satellite Market: Focus on End User, Application, Type, Subsystem, and Services – Analysis and Forecast, 2019-2030**

<https://marketpublishers.com/r/G18FF417BEEEN.html>

Date: July 2019

Pages: 316

Price: US\$ 5,000.00 (Single User License)

ID: G18FF417BEEEN

## **Abstracts**

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### **Key Questions Answered in this Report:**

What are the prime demand-side factors that affect the growth of the market and the current and future trends, market drivers, restraints, and challenges prevalent in the global small satellite market?

What is the detailed analysis of value chain analysis and small satellite service market?

Who are the key players present in the global small satellite market and how much is the detailed market share analysis of each player?

How the market based on different end users such as commercial, government, academic, and defense is expected to grow, during the forecast period?

How the global small satellite market analysis based on the application segment of small satellite in communication, earth observation and remote sensing, technology development and demonstration, space exploration and surveillance is expected to grow by 2030 and how was it during 2018.

How the global small satellite market based on major geographies has been analyzed in the report for the major geographies including North America,

Europe, Asia-Pacific, and Rest-of-the-World. How each geography is expected to grow and perform during the forecast period?

## Small Satellite Market Forecast

The small satellite market analysis by BIS Research projects the market to grow at a significant CAGR of 14.15% by value and 14.28% by volume, during the forecast period from 2019 to 2030. North America dominated the global small satellite market at a share in 2018. Europe, including the major countries such as the U.K., Germany, Denmark, and Russia, are the most prominent countries for the small satellite market. During the forecast period, the Rest-of-the-World is anticipated to grow at the highest rate due to increasing requirement of affordable satellite to attain sustainability.

Presently, small satellites are being increasingly used for applications such as weather forecast, surveillance, earth observation, navigation, communication, meteorology, and other purposes. Of late, there has been an increased demand for efficient small satellite constellations for providing better connectivity for smart devices, Internet of Things (IoT), increased data analytics, and migration to streaming broadband.

## Expert Quote on the Small Satellite Market

"Small satellite industry is rapidly moving ahead to adopt small and lightweight swarm of satellites with equal power and higher agility. The next big trend in the market is the emergence of autonomous small satellites, which are capable to undertake fault corrections independently and avoid any sort of mishap in the orbit. Furthermore, small satellite technology is actively leading the paradigm shift in the satellite industry with its capability complimenting the heavy satellites and shorter lead time. Companies like OneWeb, are planning to build satellite factory wherein, it is expected to produce up to 15 satellites per week. It has laid the foundation of adoption of economies of scale streamlined with production and it is expected that management practices like lean manufacturing and a just in time supply chain will increase efficiencies and profitability for the companies during the forecast period"

## Scope of the Market Intelligence on Global Small Satellite Market

The small satellite market research provides detailed market information for number of small satellite launches, subcomponents demand in the current scenario and by 2030. The purpose of this market analysis is to examine the small satellite market outlook in

terms of market drivers, trends, technological developments, and funding scenario, among others.

The report further takes into consideration the market dynamics and the competitive landscape along with the detailed financial and product contribution of the key players operating in the market. The small satellite market report is a compilation of different segments including market breakdown by end user, application, subsystem, type, and region.

## Market Segmentation

The small satellite market (on the basis of subsystem) is further segmented into different types of subsystems being used in small satellites, including payload, structure, telecommunication, on-board computer, power system, attitude control system, and propulsion system. The support subsystem, known as satellite bus, comprises structure, telecommunication, on-board computer, power system, attitude control system, and propulsion system. However, the payload is considered to be the central unit of small satellites as it is responsible for providing core functionality. Payload subsystem dominated the small satellite market in 2018 and is anticipated to maintain its dominance throughout the forecast period (2019-2030).

Small satellites are utilized by various end users such as academic, commercial, government, and defense. Academic end user segment mainly consists of the key educational institutes and universities which are developing their own small satellites for space exploration and scientific research. Commercial end users basically comprise the commercial industries, such as oil & gas, mining, agriculture, and more, which are utilizing small satellites for their product mapping and earth exploration. Government end users are the prominent space agencies which are operated, developed and launched by the government. Small satellites do not require a dedicated launching system, in fact, they are launched as secondary payloads with a primary satellite for a space mission, thus increasing their rate of penetration in the commercial as well as government sectors.

Small satellites are popular due to their small size, low cost, and light weight. Small satellites are utilized for varied applications such as communication, earth observation and remote sensing, space exploration, technology development and demonstration and surveillance. Technology demonstration and development has been the most common application of small satellites since its inception however, the trend is rapidly changing toward their adoption in other applications as well. Communication and earth

observation and remote sensing are the most used applications for small satellites. It is mainly due to the fact that constellation of small satellites can collect data more frequently than the traditional satellites and is cost-effective. Moreover, satellite constellation can link among themselves enabling multiple satellite to perform the task and communicate with the ground stations.

Space exploration through small satellites involve significant factors in the space missions, including benefits in weight, power, size, cost, and time of development. Currently, major space exploration projects are utilizing small satellites for varied applications. Small satellites are majorly of five types, femtosatellite, picosatellite, nanosatellite, microsatellite, and minisatellite. Nanosatellites are the most popular, as it is increasingly preferred by different end users including academic, commercial, government, and defense.

The small satellite market is segregated by region under four major regions, namely North America, Europe, APAC, and Rest-of-the-World. Data for each of these regions (by end user, application, type and country) is also provided.

#### Key Companies in the Global Small Satellite Industry

The key market players in the global small satellite market include BAE Systems, Planet Labs, SSTL, SSL, Innovative Solutions In Space BV, The Boeing Company, Tyvak Nano-Satellite Systems, Inc., Airbus S.A.S, Harris Corporation, Lockheed Martin Corporation, Thales Group, Northrop Grumman Corporation, OHB System, OneWeb, and QinetiQ Group PLC.

## Contents

### EXECUTIVE SUMMARY

### 1 MARKET DYNAMICS

#### 1.1 Drivers

- 1.1.1 Component Miniaturization Enabling Development of Low-Cost Small Satellite
- 1.1.2 Rise in the Small Satellite Constellations
- 1.1.3 Increasing Deployment of Small Satellites by Commercial Players

#### 1.2 Challenges

1.2.1 Developing Safe, Low-Cost, and Small Payload Satellite to Launch Beyond Low-Earth Orbit

- 1.2.2 Removal of Space Debris

#### 1.3 Opportunities

- 1.3.1 Increasing Utilization of COTS Components
- 1.3.2 Satellite Analytics: An Emerging Market With Increasing Small Satellite Constellation

### 2 COMPETITIVE INSIGHTS

#### 2.1 Key Market Strategies and Developments

- 2.1.1 Partnerships, Collaborations, and Business Contracts
- 2.1.2 Product Launches
- 2.1.3 Mergers and Acquisitions
- 2.1.4 Other Developments

#### 2.2 Market Share Analysis

### 3 INDUSTRY ANALYSIS

#### 3.1 Evolution of Small Satellite

#### 3.2 Comparative Study of Small Satellite Over Conventional Satellites

#### 3.3 Implications of Low-Cost Access to Space on Small Satellite Industry

- 3.3.1 Challenges for Small Satellite Operators
- 3.3.2 Growth in Small Launch Vehicle (SLV) Market
- 3.3.3 Launch Service Brokerage: Emerging Business Model

#### 3.4 Regulatory Environment: Small Satellite Industry

#### 3.5 Start-ups and Investments Scenario

#### 3.6 Supply Chain Analysis

## **4 GLOBAL SMALL SATELLITE MARKET, 2018-2030**

### 4.1 Assumptions and Limitations

### 4.2 Market Overview

## **5 GLOBAL SMALL SATELLITE MARKET (BY END USER)**

### 5.1 Market Overview

### 5.2 Academic

#### 5.2.1 Global Academic Small Satellite Market (by Application)

### 5.3 Commercial

#### 5.3.1 Global Commercial Small Satellite Market (by Application)

### 5.4 Government

#### 5.4.1 Global Government Small Satellite Market (by Application)

### 5.5 Defense

#### 5.5.1 Global Defense Small Satellite Market (by Application)

## **6 GLOBAL SMALL SATELLITE MARKET (BY APPLICATION)**

### 6.1 Market Overview

### 6.2 Technology Development and Demonstration

### 6.3 Earth Observation and Remote Sensing

#### 6.3.1 Global Small Earth Observation Satellite Market (by Services)

##### 6.3.1.1 EO Data

##### 6.3.1.2 EO Value-Added Services

### 6.4 Communication

#### 6.4.1 Global Small Communication Satellite Market (by Services)

##### 6.4.1.1 IoT and M2M

##### 6.4.1.2 Broadband

##### 6.4.1.3 Broadcast

##### 6.4.1.4 Other

### 6.5 Space Exploration

### 6.6 Surveillance

## **7 GLOBAL SMALL SATELLITE MARKET (BY TYPE)**

### 7.1 Market Overview

### 7.2 Femtosatellite

- 7.3 Picosatellite
- 7.4 Nanosatellite
- 7.5 Microsatellite
- 7.6 Minisatellite

## **8 GLOBAL SMALL SATELLITE MARKET (BY SUBSYSTEM)**

- 8.1 Market Overview
- 8.2 Payload
  - 8.2.1 Global Small Satellite Payload Market (by Subcategory), 2018-2030
    - 8.2.1.1 Earth Observation
    - 8.2.1.2 Communication
    - 8.2.1.3 Navigation
    - 8.2.1.4 Others
- 8.3 Structure
- 8.4 Telecommunication
  - 8.4.1 Global Small Satellite Telecommunication Market (by Subcategory), 2018-2030
    - 8.4.1.1 Antenna
    - 8.4.1.2 Transponder
    - 8.4.1.3 Others
- 8.5 On-Board Computer
- 8.6 Power System
  - 8.6.1 Global Small Satellite Power System Market (by Subcategory), 2018-2030
    - 8.6.1.1 Solar Cell
    - 8.6.1.2 Batteries
    - 8.6.1.3 Others
- 8.7 Attitude Control System
- 8.8 Propulsion System
  - 8.8.1 Global Small Satellite Propulsion System Market (by Subcategory), 2018-2030
    - 8.8.1.1 Thrusters
    - 8.8.1.2 Propellant Tank
    - 8.8.1.3 Valves and Regulators
    - 8.8.1.4 Other

## **9 GLOBAL SMALL SATELLITE MARKET (BY SERVICES)**

- 9.1 Market Overview
- 9.2 Mission Planning
  - 9.2.1 Platform and Mission Design and Verification

- 9.2.2 Satellite Integration
- 9.3 Environment Test Verification
- 9.4 Satellite Launch Services
- 9.5 Satellite Launch Services
  - 9.5.1 Mission Handing Support
    - 9.5.1.1 Constellation Operations Management
    - 9.5.1.2 Data Service Delivery

## **10 GLOBAL SMALL SATELLITE MARKET (BY REGION)**

- 10.1 Market Overview
- 10.2 North America
  - 10.2.1 North America Small Satellite Market (by End User)
  - 10.2.2 North America Small Satellite Market (by Application)
  - 10.2.3 North America Small Satellite Market (by Type)
  - 10.2.4 North America Small Satellite Market (by Country)
    - 10.2.4.1 U.S.
    - 10.2.4.2 Canada
- 10.3 Europe
  - 10.3.1 Europe Small Satellite Market (by End User)
  - 10.3.2 Europe Small Satellite Market (by Application)
  - 10.3.3 Europe Small Satellite Market (by Type)
  - 10.3.4 Europe Small Satellite Market (by Country)
    - 10.3.4.1 Russia
    - 10.3.4.2 Germany
    - 10.3.4.3 The U.K.
    - 10.3.4.4 Poland
    - 10.3.4.5 Rest-of-Europe
- 10.4 Asia-Pacific
  - 10.4.1 Asia-Pacific Small Satellite Market (by End User)
  - 10.4.2 Asia-Pacific Small Satellite Market (by Application)
  - 10.4.3 Asia-Pacific Small Satellite Market (by Type)
  - 10.4.4 Asia-Pacific Small Satellite Market (by Country)
    - 10.4.4.1 China
    - 10.4.4.2 India
    - 10.4.4.3 Japan
    - 10.4.4.4 South Korea
    - 10.4.4.5 Rest-of-Asia-Pacific
- 10.5 Rest-of-the-World (RoW)



- 10.5.1 Rest-of-the-World (RoW) Small Satellite Market (by End User)
- 10.5.2 Rest-of-the-World (RoW) Small Satellite Market (by Application)
- 10.5.3 Rest-of-the-World (RoW) Small Satellite Market (by Type)
- 10.5.4 Rest-of-the-World Market (by Region)
  - 10.5.4.1 Middle East
  - 10.5.4.2 Africa
  - 10.5.4.3 Latin America

## **11 COMPANY PROFILES**

- 11.1 Airbus S.A.S
  - 11.1.1 Company Overview
  - 11.1.2 Role of Airbus S.A.S in Global Small Satellite Market
  - 11.1.3 Financials
  - 11.1.4 SWOT Analysis
- 11.2 BAE Systems
  - 11.2.1 Company Overview
  - 11.2.2 Role of BAE Systems in Global Small Satellite Market
  - 11.2.3 Financials
  - 11.2.4 SWOT Analysis
- 11.3 Harris Corporation
  - 11.3.1 Company Overview
  - 11.3.2 Financials
  - 11.3.3 SWOT Analysis
- 11.4 Innovative Solutions In Space BV
  - 11.4.1 Company Overview
  - 11.4.2 Role of Innovative Solutions In Space BV in Global Small Satellite Market
  - 11.4.3 SWOT Analysis
- 11.5 Lockheed Martin Corporation
  - 11.5.1 Company Overview
  - 11.5.2 Role of Lockheed Martin Corporation in Global Small Satellite Market
  - 11.5.3 Financials
  - 11.5.4 SWOT Analysis
- 11.6 Northrop Grumman Corporation
  - 11.6.1 Company Overview
  - 11.6.2 Role of Northrop Grumman Corporation in Global Small Satellite Market
  - 11.6.3 Financials
  - 11.6.4 SWOT Analysis
- 11.7 OHB System

- 11.7.1 Company Overview
- 11.7.2 Role of OHB System in Global Small Satellite Market
- 11.7.3 Financials
- 11.7.4 SWOT Analysis
- 11.8 OneWeb
  - 11.8.1 Company Overview
  - 11.8.2 Role of OneWeb in Global Small Satellite Market
  - 11.8.3 SWOT Analysis
- 11.9 Planet Labs, Inc.
  - 11.9.1 Company Overview
  - 11.9.2 Role of Planet Labs, Inc. in Global Small Satellite Market
  - 11.9.3 SWOT Analysis
- 11.10 QinetiQ Group PLC
  - 11.10.1 Company Overview
  - 11.10.2 Role of QinetiQ Group PLC in Global Small Satellite Market
  - 11.10.3 Financials
  - 11.10.4 SWOT Analysis
- 11.11 Space Systems/Loral, LLC (SSL)
  - 11.11.1 Company Overview
  - 11.11.2 Role of Space Systems/Loral, LLC (SSL) in Global Small Satellite Market
  - 11.11.3 SWOT Analysis
- 11.12 Surrey Satellite Technology Ltd. (SSTL)
  - 11.12.1 Company Overview
  - 11.12.2 Role of Surrey Satellite Technology Ltd. (SSTL) in Global Small Satellite Market
  - 11.12.3 SWOT Analysis
- 11.13 Thales Group
  - 11.13.1 Company Overview
  - 11.13.2 Role of Thales Group in Global Small Satellite Market
  - 11.13.3 Financials
  - 11.13.4 SWOT Analysis
- 11.14 The Boeing Company
  - 11.14.1 Company Overview
  - 11.14.2 Role of The Boeing Company in Global Small Satellite Market
  - 11.14.3 Financials
  - 11.14.4 SWOT Analysis
- 11.15 Tyvak Nano-Satellite Systems, Inc.
  - 11.15.1 Company Overview
  - 11.15.2 Role of Tyvak Nano-Satellite Systems, Inc in the Global Small Satellite Market

- 11.15.3 SWOT Analysis
- 11.16 Other Key Players
  - 11.16.1 BlackSky Global LLC
  - 11.16.2 Satellogic
  - 11.16.3 ICEYE
  - 11.16.4 Spire Global
  - 11.16.5 Capella Space
  - 11.16.6 UrtheCast

## **12 RESEARCH SCOPE AND BIS METHODOLOGY**

- 12.1 Scope of the Report
- 12.2 Global Small Satellite Market Research Methodology

## **13 APPENDIX**

- 13.1 Related Reports

## List Of Tables

### LIST OF TABLES

Table 1.1 Major Satellite Constellations

Table 2.1 Some of the Organic and Inorganic Growth Strategies Adopted by the Key Players

Table 3.1: Emerging Companies in the Small Satellite Market

Table 4.1: Classification of Satellites

Table 5.1: Global Small Satellite Market (by End User), 2018-2030

Table 5.2: Global Academic Small Satellite Market (by Application), 2018-2030

Table 5.3: Global Commercial Small Satellite Market (by Application), 2018-2030

Table 5.4: Global Government Small Satellite Market (by Application), 2018-2030

Table 5.5: Global Defense Small Satellite Market (by Application), 2018-2030

Table 6.1: Global Small Satellite Market (by Application), 2018-2030

Table 6.2: Expected Small Earth Observation Satellite Constellations

Table 6.3: Global Small Communication Satellite Market (by Services), Value (\$Million), 2018-2030

Table 6.4: List of Small Communication Satellites with Specific Purposes in 2018

Table 6.5: List of Space Exploration Satellites Launched in 2018

Table 7.1: Global Small Satellite Market (by Type), 2018-2030

Table 8.1: Global Small Satellite Market (by Subsystem), Value (\$Million), 2018-2030

Table 10.1: Global Small Satellite Market Size (by Region), 2018-2030

Table 10.2: Global North America Small Satellite Market Size (by End User), 2018-2030

Table 10.3: Global North America Small Satellite Market Size (by Application), 2018-2030

Table 10.4: Global North America Small Satellite Market Size (by Type), 2018-2030

Table 10.5: Global Europe Small Satellite Market Size (by End User), 2018-2030

Table 10.6: Global Europe Small Satellite Market Size (by Application), 2018-2030

Table 10.7: Global Europe Small Satellite Market Size (by Type), 2018-2030

Table 10.8: Global Asia-Pacific Small Satellite Market Size (by End User), 2018-2030

Table 10.9: Global Asia-Pacific Small Satellite Market Size (by Application), 2018-2030

Table 10.10: Global Asia-Pacific Small Satellite Market Size (by Type), 2018-2030

Table 10.11: Global Rest-of-the-World (RoW) Small Satellite Market Size (by End User), 2018-2030

Table 10.12: Global Rest-of-the-World (RoW) Small Satellite Market Size (by Application), 2018-2030

Table 10.13: Global Rest-of-the-World (RoW) Small Satellite Market Size (by Type), 2018-2030



## List Of Figures

### LIST OF FIGURES

Figure 1: Small Satellite Market, Number of Satellite Launches, 2012-2018

Figure 2: Global Small Satellite Market Overview, 2018 and 2030

Figure 3: Global Small Satellite Market (by End User), 2018-2030

Figure 4: Global Small Satellite Market (by Application), 2018-2030

Figure 5: Global Small Satellite Market (by Type), 2018-2030

Figure 6: Global Small Satellite Market (by Subsystem), 2018 and 2030

Figure 7: Global Small Satellite Market (by Region), 2018-2030

Figure 1.1: Small Satellite Market: Market Dynamics

Figure 1.2 Global Small Satellite Launches for Commercial End User, 2007-2017

Figure 1.3: Evolution in Value Added Service in Small Satellite Service Market

Figure 2.1: Percentage Share of Strategies Adopted by Market Players, January 2016-June 2019 Total Developments =

Figure 2.2: Partnerships, Collaborations, and Business Contracts Adopted by Key Market Players, 2016-2019

Figure 2.3: Product Launches Adopted by the Key Market Players, 2016-2019

Figure 2.4: Mergers and Acquisitions Adopted by the Key Market Players, 2017-2018

Figure 2.5: Other Developments Adopted by the Key Market Players, 2016-2019

Figure 2.6: Global Small Satellite Market: Market Share Analysis, 2018

Figure 3.1 Small Satellites System vs. Traditional Satellite System

Figure 3.2 Impacts of Small Satellites Technological Developments on the Mission Cost

Figure 3.3: Global Small Satellite Launch Vehicle Market, 2018-2024

Figure 3.4: Expected Small Launch Vehicles by 2021

Figure 3.5 Small Satellite Project: Space-Specific Legal and Regulatory Issues

Figure 3.6 Small Satellites: Supply Chain Analysis

Figure 3.7: Small Satellites: Upstream and Downstream Process

Figure 3.8: Small Satellites: Manufacturing Cost Scenario with Respect to Different Subsystems

Figure 4.1: Global Small Satellite Market, 2018-2030

Figure 5.1: Global Small Satellite Market (by End User), 2018-2030

Figure 5.2: Global Small Satellite Market (by Academic End User), 2018-2030

Figure 5.3: Global Small Satellite Market (by Commercial End User) 2018-2030

Figure 5.4: Global Small Satellite Market (by Government End User), 2018-2030

Figure 5.5: Global Small Satellite Market (by Defense End User), 2018-2030

Figure 6.1: Global Small Satellite Market (by Application), 2018-2030

Figure 6.2: Global Small Satellite Market (by Technology Development and

Demonstration Application), 2018-2030

Figure 6.3: Global Small Satellite Market (by Earth Observation and Remote Sensing Application), 2018-2030

Figure 6.4: Global Small Earth Observation Satellite Market (by Services), Value (\$Million), 2018-2030

Figure 6.5: Global Small Satellite Market (by Communication Application), 2018-2030

Figure 6.6: Global Small Communication Satellite Market (by Services), 2018-2030

Figure 6.7: Global Small Satellite IoT and M2M Terminals Market, Volume ('000 Units), 2018-2030

Figure 6.8: Global Small Satellite Market (by Space Exploration Application), 2018-2030

Figure 6.9: Global Small Satellite Market (by Surveillance Application), 2018-2030

Figure 7.1: Global Small Satellite (by Type), 2018-2030

Figure 7.2: Global Small Satellite Market (by Femtosatellite Type), 2018-2030

Figure 7.3: Global Small Satellite Market (by Picosatellite Type), 2018-2030

Figure 7.4: Global Small Satellite Market (by Nanosatellite Type), 2018-2030

Figure 7.5: Global Small Satellite Market (by Microsatellite Type), 2018-2030

Figure 7.6: Global Small Satellite Market (by Minisatellite Type), 2018-2030

Figure 8.1: Global Small Satellite Market (by Subsystem), 2018-2030

Figure 8.2: Global Small Satellite Market (by Payload), Value (\$Million), 2018-2030

Figure 8.3: Global Payload Small Satellite Market (by Subcategory), Value (\$Million), 2018-2030

Figure 8.4: Global Small Satellite Market (by Structure), Value (\$Million), 2018-2030

Figure 8.5: Global Small Satellite Market (by Telecommunication), Value (\$Million), 2018-2030

Figure 8.6: Global Small Satellite Telecommunication Market (by Subcategory), Value (\$Million), 2018-2030

Figure 8.7: Global Small Satellite Market (by On-board Computer), Value (\$Million), 2018-2030

Figure 8.8: Global Small Satellite Market (by Power System), Value (\$Million), 2018-2030

Figure 8.9: Global Small Satellite Power System Market (by Subcategory), Value (\$Million), 2018-2030

Figure 8.10: Global Small Satellite Market (by Attitude Control System), Value (\$Million), 2018-2030

Figure 8.11: Global Small Satellite Market (by Propulsion System), Value (\$Million), 2018-2030

Figure 8.12: Global Small Satellite Propulsion System Market (by Subcategory), Value (\$Million), 2018-2030

Figure 9.1: Global Small Satellite Market (by Services)



- Figure 9.2: Stages Involved in Mission Design of a Small Satellite
- Figure 10.1: Classification of Global Small Satellite Market (by Region)
- Figure 10.2: North America Small Satellite Market, 2018-2030
- Figure 10.3: The U.S. Small Satellite Market, 2018-2030
- Figure 10.4: Canada Small Satellite Market, 2018-2030
- Figure 10.5: Europe Small Satellite Market, 2018-2030
- Figure 10.6: Russia Small Satellite Market, 2018-2030
- Figure 10.7: Germany Small Satellite Market, 2018-2030
- Figure 10.8: The U.K. Small Satellite Market, 2018-2030
- Figure 10.9: Poland Small Satellite Market, 2018-2030
- Figure 10.10: Rest-of-Europe Small Satellite Market, 2018-2030
- Figure 10.11: Asia-Pacific Small Satellite Market, 2018-2030
- Figure 10.12: China Small Satellite Market, 2018-2030
- Figure 10.13: India Small Satellite Market, 2018-2030
- Figure 10.14: Japan Small Satellite Market, 2018-2030
- Figure 10.15: South Korea Small Satellite Market, 2018-2030
- Figure 10.16: Rest-of-Asia-Pacific Small Satellite Market, 2018-2030
- Figure 10.17: Rest-of-the-World (RoW) Small Satellite Market, 2018-2030
- Figure 10.18: Middle East Small Satellite Market, 2018-2030
- Figure 10.19: Africa Small Satellite Market, 2018-2030
- Figure 10.20: Latin America Small Satellite Market, 2018-2030
- Figure 11.1: Share of Key Company Profiles
- Figure 11.2: Airbus S.A.S - Product Offerings
- Figure 11.3: Airbus S.A.S – Financials, 2016-2018
- Figure 11.4: Airbus S.A.S – Business Revenue Mix, 2016-2018
- Figure 11.5: Airbus S.A.S – Region Revenue Mix, 2016-2018
- Figure 11.6: Airbus S.A.S – Research and Development Expenditure, 2016-2018
- Figure 11.7: SWOT Analysis - Airbus S.A.S
- Figure 11.8: BAE Systems – Product Offerings
- Figure 11.9: BAE Systems - Financials, 2016-2018
- Figure 11.10: BAE Systems - Business Revenue Mix, 2016-2018
- Figure 11.11: BAE Systems - Region Revenue Mix, 2016-2018
- Figure 11.12: BAE Systems – Research and Development Expenditure, 2016-2018
- Figure 11.13: SWOT Analysis – BAE Systems
- Figure 11.14: Harris Corporation – Product Offerings
- Figure 11.15: Harris Corporation - Financials, 2016-2018
- Figure 11.16: Harris Corporation - Business Revenue Mix, 2016-2018
- Figure 11.17: Harris Corporation - Research and Development Expenditure, 2016-2018
- Figure 11.18: SWOT Analysis – Harris Corporation



- Figure 11.19: Innovative Solutions In Space BV: Product Portfolio
- Figure 11.20: SWOT Analysis – Innovative Solutions In Space BV
- Figure 11.21: Lockheed Martin Corporation – Product Offerings
- Figure 11.22: Lockheed Martin Corporation - Financials, 2016-2018
- Figure 11.23: Lockheed Martin Corporation - Business Revenue Mix, 2016-2018
- Figure 11.24: Lockheed Martin Corporation - Region Revenue Mix, 2016-2018
- Figure 11.25: Lockheed Martin Corporation - Research and Development Expenditure, 2016-2018
- Figure 11.26: SWOT Analysis – Lockheed Martin Corporation
- Figure 11.27: Northrop Grumman Corporation: Product Offerings
- Figure 11.28: Northrop Grumman Corporation - Financials, 2016-2018
- Figure 11.29: Northrop Grumman Corporation - Business Revenue Mix, 2016-2018
- Figure 11.30: Northrop Grumman Corporation - Region Revenue Mix, 2016-2018
- Figure 11.31: Northrop Grumman Corporation – Research and Development Expenditure, 2016-2018
- Figure 11.32: SWOT Analysis – Northrop Grumman Corporation
- Figure 11.33: OHB System -- Product Offerings
- Figure 11.34: OHB System –Financials, 2016-2018
- Figure 11.35: OHB System –Business Revenue Mix, 2016-2018
- Figure 11.36: OHB System –Region Revenue Mix, 2016-2018
- Figure 11.37: OHB System – Research and Development Expenditure, 2016-2018
- Figure 11.38: OHB System -- SWOT Analysis
- Figure 11.39: OneWeb: Product Portfolio
- Figure 11.40: SWOT Analysis – OneWeb
- Figure 11.41: Planet Labs, Inc.: Product Portfolio
- Figure 11.42: SWOT Analysis – Planet Labs, Inc.
- Figure 11.43: QinetiQ Group PLC: Product Portfolio
- Figure 11.44: QinetiQ Group PLC –Financials, 2016-2018
- Figure 11.45: QinetiQ Group PLC –Business Revenue Mix, 2016-2018
- Figure 11.46: QinetiQ Group PLC –Region Revenue Mix, 2016-2018
- Figure 11.47: QinetiQ Group PLC – Research and Development Expenditure, 2016-2018
- Figure 11.48: SWOT Analysis – QinetiQ Group PLC
- Figure 11.49: Space Systems Loral (SSL): Product Portfolio
- Figure 11.50: Space Systems Loral (SSL): SWOT Analysis
- Figure 11.51: Surrey Satellite Technology Ltd. (SSTL): Product Portfolio
- Figure 11.52: SWOT Analysis – Surrey Satellite Technology Ltd. (SSTL)
- Figure 11.53: Thales Group – Product Offerings
- Figure 11.54: Thales Group - Financials, 2016-2018

- Figure 11.55: Thales Group - Business Revenue Mix, 2016-2018
- Figure 11.56: Thales Group - Region Revenue Mix, 2016-2018
- Figure 11.57: Thales Group – Research and Development Expenditure, 2016-2018
- Figure 11.58: SWOT Analysis – Thales Group
- Figure 11.59: The Boeing Company – Product Offerings
- Figure 11.60: The Boeing Company - Financials, 2016-2018
- Figure 11.61: The Boeing Company - Business Revenue Mix, 2016-2018
- Figure 11.62: The Boeing Company - Region Revenue Mix, 2016-2018
- Figure 11.63: The Boeing Company – Research and Development Expenditure, 2016-2018
- Figure 11.64: SWOT Analysis – The Boeing Company
- Figure 11.65: Tyvak Nano-Satellite Systems, Inc.: Product Portfolio
- Figure 11.66: SWOT Analysis – Tyvak Nano-Satellite Systems, Inc.
- Figure 12.1: Global Small Satellite Market Segmentation
- Figure 12.2: Small Satellite Market Research Methodology
- Figure 12.3: Secondary Data Sources
- Figure 12.4: Top-Down and Bottom-up Approach
- Figure 12.5: Small Satellite Market: Influencing Factors
- Figure 12.6: Assumptions and Limitations

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