

# **Unmanned surface vehicles Market by Application (Defense, Commercial), Type (Autonomous Surface Vehicles, Semi-Autonomous Surface Vehicles), System, Cruising Speed, Hull Type, Endurance, Size and Region - Global Forecast to 2028**

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## **Abstracts**

The unmanned surface vehicles market is estimated to be USD 0.8 billion in 2023 and is projected to reach USD 1.2 billion by 2028, at a CAGR of 10.3% from 2023 to 2028. The expansion of this market can be ascribed to the increasing demand in military spheres such as combat support, Intelligence, Surveillance, and Reconnaissance (ISR), mine countermeasure, among others. Additionally, there is a surge in commercial applications, specifically in the realms of inspection and hydrographic surveying.

“Payload: The largest segment of the unmanned surface vehicles market, by system.”

The payload section encompasses crucial elements like cameras, sensors, SONAR, X-band marine radars, visual systems, LIDAR, and echo sounders. Cameras stand out as a cost-effective and mature payload, presenting substantial prospects for advanced technological enhancements. Sensors play a pivotal role in mapping and detecting obstacles, examining undersea cables, and classifying chemicals. SONAR, employing advanced techniques like Displaced Phase Centre Analysis, significantly contributes to achieving high-resolution images, consolidating the payload segment's dominance in the market.

“Diesel/gasoline engine: The largest segment of the unmanned surface vehicles market, by propulsion”

Diesel and gasoline engines dominate the propulsion segment in unmanned surface

vehicles (USVs) due to their proven reliability, fuel efficiency, and versatility. These internal combustion engines offer a robust power-to-weight ratio, facilitating optimal performance across a range of mission profiles. Their widespread adoption is driven by the established infrastructure supporting conventional fuels, ensuring logistical convenience and extended operational range. Additionally, the simplicity of maintenance and global availability of skilled technicians further solidify the market share for diesel and gasoline engines in the USV propulsion segment. This preference is underpinned by the engines' ability to deliver sustained power for extended durations, critical for the diverse applications of unmanned surface vehicles.

“500-1,000 Hours: largest segment of the unmanned surface vehicles market, by endurance. “

The 500-1000 hours endurance segment dominates the unmanned surface vehicle (USV) market due to its optimal balance between sustained operational capability and cost-effectiveness. This duration strikes a crucial equilibrium, meeting the demands of extended mission durations without incurring excessive expenses. In applications such as surveillance, reconnaissance, and environmental monitoring, where prolonged deployment is paramount, the 500-1000 hours range offers a reliable and efficient solution. This segment's popularity can be attributed to its ability to cater to a diverse range of mission requirements, making it a preferred choice for end-users seeking a cost-efficient yet high-performance solution within the endurance focused USV market.

“North America: The largest contributing region in the unmanned surface vehicles market.”

Study coverage for North American region includes the analysis of US and Canada.

The United States allocates substantial resources towards defense-related initiatives, demonstrating a noteworthy emphasis on unmanned surface vehicles (USVs) in strategic applications like anti-submarine warfare, mine countermeasures, and surveillance. The burgeoning offshore activities, particularly in mine hunting, are anticipated to propel the widespread adoption of USVs within the United States in the foreseeable future. The 2022 US budget allocated a significant sum of USD 20.6 billion specifically for maritime vehicles, encompassing unmanned variants. The demand for USVs is also particularly pronounced in the oil and gas sector, with the United States Energy Information Administration reporting a remarkable 16% surge in US crude oil production in 2022, reaching a historic high of nearly 11.6 million barrels per day. This heightened demand from both defense and industrial sectors positions the US region as

the predominant market for USVs, substantiated by substantial investments and expanding applications within critical domains.

#### Breakdown of primaries

The study contains insights from various industry experts, ranging from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type: Tier 1–35%; Tier 2–45%; and Tier 3–20%

By Designation: C Level–35%; Directors–25%; and Others–40%

By Region: North America–45%; Europe–25%; Asia Pacific–15%; Middle East 10%, Rest of the World 5%,

L3Harris Technologies (US), Kongsberg Maritime (Norway), Textron Inc. (US), Exail Group (France), Saab AB (Sweden), and Fugro (Netherlands) are the key players in the unmanned surface vehicles market.

#### Research Coverage:

This market study covers the unmanned surface vehicle market across various segments and subsegments. It aims to estimate this market's size and growth potential across different parts based on type, propulsion systems, application, mode of operation, and region. This study also includes an in-depth competitive analysis of the key players in the market, their company profiles, key observations related to their product and business offerings, recent developments, and key market strategies they adopted.

#### Reasons to buy this report:

The report will help the market leaders/new entrants with information on the closest approximations of the revenue numbers for the overall unmanned surface vehicle market. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the market pulse and provides information on key market drivers, restraints, challenges, and opportunities. The unmanned surface vehicle market is experiencing substantial growth, primarily

driven by escalating maritime security concerns. The increasing trend toward international cooperation and joint operations among nations is fostering demand for unmanned surface vehicles, contributing to regional and global maritime stability. The report provides insights on the following pointers:

**Market Drivers:** Market Drivers such as the Increasing demand for unmanned surface vehicles for defense applications, the growing maritime threats and security concerns, and other drivers covered in the report.

**Market Penetration:** Comprehensive information on unmanned surface vehicles offered by the top players in the market.

**Product Development/Innovation:** Detailed insights on upcoming technologies, research & development activities, and new product launches in the unmanned surface vehicle market

**Market Development:** Comprehensive information about lucrative markets – the report analyses the unmanned surface vehicle market across varied regions.

**Market Diversification:** Exhaustive information about new products, untapped geographies, recent developments, and investments in the unmanned surface vehicle market

**Competitive Assessment:** In-depth assessment of market shares, growth strategies, products, and manufacturing capabilities of leading players in the unmanned surface vehicle market

## Contents

### 1 INTRODUCTION

#### 1.1 STUDY OBJECTIVES

#### 1.2 MARKET DEFINITION

#### 1.3 STUDY SCOPE

##### 1.3.1 MARKETS COVERED

#### FIGURE 1 UNMANNED SURFACE VEHICLE MARKET SEGMENTATION

##### 1.3.2 REGIONS COVERED

##### 1.3.3 YEARS CONSIDERED

#### 1.4 INCLUSIONS AND EXCLUSIONS

#### TABLE 1 INCLUSIONS AND EXCLUSIONS

#### 1.5 CURRENCY CONSIDERED

#### TABLE 2 USD EXCHANGE RATES

#### 1.6 STAKEHOLDERS

#### 1.7 SUMMARY OF CHANGES

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH DATA

#### FIGURE 2 RESEARCH PROCESS FLOW

#### FIGURE 3 RESEARCH DESIGN

##### 2.1.1 SECONDARY DATA

###### 2.1.1.1 Secondary sources

##### 2.1.2 PRIMARY DATA

###### 2.1.2.1 Primary sources

###### 2.1.2.2 Key data from primary sources

#### FIGURE 4 BREAKDOWN OF PRIMARY INTERVIEWS

#### FIGURE 5 KEY INSIGHTS FROM INDUSTRY EXPERTS

#### 2.2 FACTOR ANALYSIS

##### 2.2.1 INTRODUCTION

##### 2.2.2 DEMAND-SIDE INDICATORS

##### 2.2.3 SUPPLY-SIDE INDICATORS

#### 2.3 RECESSION IMPACT ANALYSIS

##### 2.3.1 DEMAND-SIDE ANALYSIS

#### FIGURE 6 NUMBER OF UNMANNED SURFACE VEHICLES DEVELOPED, BY REGION, 2019–2022

##### 2.3.2 SUPPLY-SIDE ANALYSIS

FIGURE 7 EUROPE: REVENUE TREND FOR MARKET PLAYERS IN MARITIME INDUSTRY

FIGURE 8 NORTH AMERICA: REVENUE TREND FOR MARKET PLAYERS IN MARITIME INDUSTRY

## 2.4 RUSSIA-UKRAINE WAR ANALYSIS

FIGURE 9 IMPACT OF RUSSIA-UKRAINE WAR ON DEFENSE SECTOR'S MACRO FACTORS

## 2.5 MARKET SIZE ESTIMATION

### 2.5.1 BOTTOM-UP APPROACH

FIGURE 10 BOTTOM-UP APPROACH

### 2.5.2 TOP-DOWN APPROACH

FIGURE 11 TOP-DOWN APPROACH

## 2.6 DATA TRIANGULATION

FIGURE 12 DATA TRIANGULATION

## 2.7 RESEARCH ASSUMPTIONS

## 2.8 RESEARCH LIMITATIONS

## 2.9 RISK ASSESSMENT

# 3 EXECUTIVE SUMMARY

FIGURE 13 DEFENSE SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE IN 2023

FIGURE 14 500–1,000 HOURS SEGMENT TO REGISTER FASTEST GROWTH DURING FORECAST PERIOD

FIGURE 15 PAYLOAD TO BE LARGEST SEGMENT DURING FORECAST PERIOD

FIGURE 16 SINGLE SEGMENT TO SECURE LEADING MARKET POSITION DURING FORECAST PERIOD

FIGURE 17 >30 KNOTS TO SURPASS OTHER SEGMENTS DURING FORECAST PERIOD

FIGURE 18 AUTONOMOUS SEGMENT TO ACQUIRE MAXIMUM MARKET SHARE IN 2028

FIGURE 19 LARGE SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD

FIGURE 20 ASIA PACIFIC TO BE FASTEST-GROWING MARKET DURING FORECAST PERIOD

# 4 PREMIUM INSIGHTS

## 4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN UNMANNED SURFACE

*Unmanned surface vehicles Market by Application (Defense, Commercial), Type (Autonomous Surface Vehicles, Semi...*

## VEHICLE MARKET

### FIGURE 21 INCREASE IN DEMAND FOR EFFECTIVE SURVEILLANCE

#### 4.2 UNMANNED SURFACE VEHICLE MARKET, BY ENDURANCE

### FIGURE 22 500–1,000 HOURS SEGMENT TO DOMINATE DURING FORECAST PERIOD

#### 4.3 UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION

### FIGURE 23 DEFENSE TO BE FASTEST-GROWING SEGMENT DURING FORECAST PERIOD

#### 4.4 UNMANNED SURFACE VEHICLE MARKET, BY HULL TYPE

### FIGURE 24 SINGLE SEGMENT TO COMMAND LARGEST MARKET SHARE IN 2023

#### 4.5 UNMANNED SURFACE VEHICLE MARKET, BY SIZE

### FIGURE 25 SMALL SEGMENT TO RECORD HIGHER CAGR DURING FORECAST PERIOD

#### 4.6 UNMANNED SURFACE VEHICLE MARKET, BY SOLUTION

### FIGURE 26 PAYLOAD TO BE LEADING SEGMENT DURING FORECAST PERIOD

#### 4.7 UNMANNED SURFACE VEHICLE MARKET, BY REGION

### FIGURE 27 INDIA TO BE FASTEST-GROWING COUNTRY-LEVEL MARKET DURING FORECAST PERIOD

## 5 MARKET OVERVIEW

### 5.1 INTRODUCTION

### 5.2 MARKET DYNAMICS

#### FIGURE 28 UNMANNED SURFACE VEHICLE MARKET DYNAMICS

##### 5.2.1 DRIVERS

5.2.1.1 High demand for water quality monitoring and ocean data mapping

5.2.1.2 Surge in asymmetric threats and need for maritime security

#### FIGURE 29 NUMBER OF PIRATE ATTACKS AGAINST SHIPS WORLDWIDE, 2021 VS. 2022

5.2.1.3 Growing capital expenditure in offshore oil and gas industries

#### FIGURE 30 GLOBAL OIL AND GAS CAPEX, 2017–2022 (USD BILLION)

##### 5.2.2 RESTRAINTS

5.2.2.1 Availability of low-cost substitutes

##### 5.2.3 OPPORTUNITIES

5.2.3.1 Advancements in naval technologies

5.2.3.2 Rapid adoption of unmanned surface vehicles (USVs) in defense operations

5.2.3.3 Rise in defense budgets for USVs

##### 5.2.4 CHALLENGES

5.2.4.1 Unclear navigation rules and need for human intervention



5.2.4.2 Absence of robust collision avoidance systems in USVs

5.2.4.3 Interoperability issues between USVs and existing maritime systems

5.3 VALUE CHAIN ANALYSIS

FIGURE 31 VALUE CHAIN ANALYSIS

5.4 SUPPLY CHAIN ANALYSIS

FIGURE 32 SUPPLY CHAIN ANALYSIS

5.5 ECOSYSTEM MAPPING

FIGURE 33 ECOSYSTEM MAPPING

5.5.1 PROMINENT COMPANIES

5.5.2 PRIVATE AND SMALL ENTERPRISES

5.5.3 END USERS

TABLE 3 ROLE OF COMPANIES IN ECOSYSTEM

FIGURE 34 COMPANIES IN ECOSYSTEM

5.6 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 35 TRENDS AND DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

5.7 PRICING ANALYSIS

5.7.1 AVERAGE SELLING PRICE OF UNMANNED SURFACE VEHICLES OFFERED  
BY KEY PLAYERS, BY APPLICATION

FIGURE 36 AVERAGE SELLING PRICE OF UNMANNED SURFACE VEHICLES  
OFFERED BY KEY PLAYERS, BY APPLICATION (USD MILLION)

TABLE 4 AVERAGE SELLING PRICE OF UNMANNED SURFACE VEHICLES  
OFFERED BY KEY PLAYERS, BY APPLICATION (USD MILLION)

5.7.2 INDICATIVE PRICING ANALYSIS OF UNMANNED SURFACE VEHICLES, BY  
SIZE

5.8 PORTER'S FIVE FORCES ANALYSIS

TABLE 5 PORTER'S FIVE FORCES ANALYSIS

FIGURE 37 PORTER'S FIVE FORCES ANALYSIS

5.8.1 THREAT OF NEW ENTRANTS

5.8.2 THREAT OF SUBSTITUTES

5.8.3 BARGAINING POWER OF SUPPLIERS

5.8.4 BARGAINING POWER OF BUYERS

5.8.5 INTENSITY OF COMPETITIVE RIVALRY

5.9 KEY STAKEHOLDERS AND BUYING CRITERIA

5.9.1 STAKEHOLDERS IN BUYING PROCESS

FIGURE 38 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY  
ENDURANCE

TABLE 6 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY  
ENDURANCE (%)

5.9.2 BUYING CRITERIA



**FIGURE 39 KEY BUYING CRITERIA, BY APPLICATION****TABLE 7 KEY BUYING CRITERIA, BY APPLICATION****5.10 CASE STUDIES****5.10.1 USE OF NORBIT'S SONAR DEVICES FOR MAPPING BEAVER BURROWS****5.10.2 USE OF OCEANALPHA SL40 USV FOR HYDROGRAPHIC SURVEYING OF HAMBURG PORT****5.10.3 USE OF OCEANAPLHA M80 USV FOR OFFSHORE WIND FARM SCOURING AND CABLE SURVEY****5.10.4 USE OF UNI-PACT USV FOR NEAR-SHORE TOPOGRAPHIC AND BATHYMETRY DATA****5.11 TECHNOLOGY ANALYSIS****5.11.1 KEY TECHNOLOGIES****5.11.1.1 Cross-platform operation****FIGURE 40 CROSS-PLATFORM OPERATION****5.11.1.2 Marine-AI software****5.11.1.3 Anti-collision technology****5.11.2 SUPPORTING TECHNOLOGIES****5.11.2.1 HD camera****5.11.2.2 Object recognition****5.11.2.3 Mapping****5.11.2.4 Localization****5.11.2.5 Predictive maintenance****5.12 VOLUME DATA****TABLE 8 VOLUME DATA, BY SIZE, 2019–2028 (UNITS)****TABLE 9 VOLUME DATA, BY DEFENSE APPLICATION, 2019–2028 (UNITS)****TABLE 10 VOLUME DATA, BY COMMERCIAL APPLICATION, 2019–2028 (UNITS)****5.13 TRADE ANALYSIS****FIGURE 41 IMPORT DATA, BY COUNTRY, 2018–2022 (USD THOUSAND)****TABLE 11 IMPORT DATA, BY COUNTRY, 2018–2022 (USD THOUSAND)****FIGURE 42 EXPORT DATA, BY COUNTRY, 2018–2022 (USD THOUSAND)****TABLE 12 EXPORT DATA, BY COUNTRY, 2018–2022 (USD THOUSAND)****5.14 REGULATORY LANDSCAPE****TABLE 13 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS****TABLE 14 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS****TABLE 15 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS****TABLE 16 MIDDLE EAST: REGULATORY BODIES, GOVERNMENT AGENCIES, AND**

## OTHER ORGANIZATIONS

TABLE 17 REST OF THE WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.15 KEY CONFERENCES AND EVENTS, 2024–2025

TABLE 18 KEY CONFERENCES AND EVENTS, 2024–2025

## 6 INDUSTRY TRENDS

### 6.1 INTRODUCTION

### 6.2 TECHNOLOGY TRENDS

6.2.1 AUTONOMOUS REFUELING

6.2.2 COLLABORATIVE UNMANNED SYSTEM

6.2.3 SPECIAL MONITORING OF APPLIED RESPONSE TECHNOLOGY

6.2.4 CONTROL ARCHITECTURE FOR ROBOTIC AGENT COMMAND AND SENSING TECHNOLOGY

6.2.5 LAUNCH AND RECOVERY SYSTEM

6.2.6 NIMH BATTERY

6.2.7 MARITIME SWARMING TECHNOLOGY

### 6.3 IMPACT OF MEGATRENDS

6.3.1 UNMANNED SURFACE VEHICLES AS WEAPONS OF WAR

6.3.2 DATA DISSEMINATION

6.3.3 ARTIFICIAL INTELLIGENCE

6.3.4 MARITIME AUTONOMY SURFACE TEST BED

6.3.5 3D PRINTING

6.3.6 CYBERSECURITY

### 6.4 PATENT ANALYSIS

FIGURE 43 PATENTS ANALYSIS

TABLE 19 PATENT ANALYSIS

### 6.5 TECHNOLOGICAL ROADMAP FOR UNMANNED SURFACE VEHICLE MARKET

FIGURE 44 EVOLUTION OF UNMANNED SURFACE VEHICLE MARKET

## 7 UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION

### 7.1 INTRODUCTION

FIGURE 45 UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028

TABLE 20 UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 21 UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028

(USD MILLION)

## 7.2 DEFENSE

7.2.1 LONG ENDURANCE AND HIGH PAYLOAD-CARRYING CAPACITY TO DRIVE GROWTH

FIGURE 46 MINE COUNTERMEASURES TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 22 DEFENSE: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 23 DEFENSE: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

7.2.1.1 Intelligence, surveillance, and reconnaissance (ISR)

7.2.1.2 Mine countermeasures

7.2.1.3 Hydrographic survey

7.2.1.4 Anti-submarine warfare

7.2.1.5 Electronic warfare

7.2.1.6 Communication gateway

7.2.1.7 Naval warfare

7.2.1.8 Firefighting

## 7.3 COMMERCIAL

7.3.1 LOW DEVELOPMENT AND OPERATIONAL COSTS TO DRIVE GROWTH

FIGURE 47 HYDROGRAPHIC SURVEY TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 24 COMMERCIAL: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 25 COMMERCIAL: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

7.3.1.1 Weather monitoring

7.3.1.2 Search and rescue

7.3.1.3 Environment monitoring

7.3.1.4 Infrastructure inspection

FIGURE 48 OIL AND GAS INSPECTION TO DOMINATE MARKET DURING FORECAST PERIOD

TABLE 26 INFRASTRUCTURE INSPECTION: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 27 INFRASTRUCTURE INSPECTION: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

7.3.1.4.1 Offshore inspection

7.3.1.4.2 Oil and Gas inspection

7.3.1.5 Hydrographic survey

7.3.1.6 Security

7.3.1.7 Firefighting

7.3.1.8 Marine aquaculture

## **8 UNMANNED SURFACE VEHICLE MARKET, BY SOLUTION**

### **8.1 INTRODUCTION**

FIGURE 49 UNMANNED SURFACE VEHICLE MARKET, BY SOLUTION, 2023–2028

TABLE 28 UNMANNED SURFACE VEHICLE MARKET, BY SOLUTION, 2019–2022  
(USD MILLION)

TABLE 29 UNMANNED SURFACE VEHICLE MARKET, BY SOLUTION, 2023–2028  
(USD MILLION)

### **8.2 PROPULSION**

8.2.1 INCREASING DEMAND FOR SUSTAINABLE TECHNOLOGIES TO DRIVE  
GROWTH

FIGURE 50 ELECTRIC PROPULSION TO BE FASTEST-GROWING SEGMENT  
DURING FORECAST PERIOD

TABLE 30 PROPULSION: UNMANNED SURFACE VEHICLE MARKET, BY TYPE,  
2019–2022 (USD MILLION)

TABLE 31 PROPULSION: UNMANNED SURFACE VEHICLE MARKET, BY TYPE,  
2023–2028 (USD MILLION)

8.2.1.1 Diesel/Gasoline

8.2.1.2 Renewable

8.2.1.3 Hybrid

8.2.1.4 Electric

### **8.3 COMMUNICATION**

8.3.1 NEED OF REAL-TIME INFORMATION TO DRIVE GROWTH

FIGURE 51 SATELLITE TO BE FASTEST-GROWING SEGMENT DURING  
FORECAST PERIOD

TABLE 32 COMMUNICATION: UNMANNED SURFACE VEHICLE MARKET, BY TYPE,  
2019–2022 (USD MILLION)

TABLE 33 COMMUNICATION: UNMANNED SURFACE VEHICLE MARKET, BY TYPE,  
2023–2028 (USD MILLION)

8.3.1.1 Radio

8.3.1.2 Wi-Fi

8.3.1.3 Satellite

8.3.1.4 UHF/VHF

8.3.1.5 Other communication solutions

### **8.4 PAYLOAD**

#### 8.4.1 RISING DEMAND FOR OPERATIONAL EFFICIENCY TO DRIVE GROWTH FIGURE 52 CAMERA TO BE FASTEST-GROWING SEGMENT DURING FORECAST PERIOD

TABLE 34 PAYLOAD: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 35 PAYLOAD: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

8.4.1.1 Camera

8.4.1.2 Sensor

8.4.1.3 SONAR

8.4.1.4 X-band Marine Radar

8.4.1.5 Visual system

8.4.1.6 LiDAR

8.4.1.7 Echo sounder

8.4.1.8 Other Payload solutions

#### 8.5 CHASSIS MATERIAL

##### 8.5.1 NEED FOR HIGH STRENGTH AND DURABILITY TO DRIVE GROWTH FIGURE 53 THERMOPLASTIC TO BE FASTEST-GROWING SEGMENT DURING FORECAST PERIOD

TABLE 36 CHASSIS MATERIAL: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 37 CHASSIS MATERIAL: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

8.5.1.1 Aluminum

8.5.1.2 Carbon fiber

8.5.1.3 Thermoplastic

8.5.1.4 Fiberglass

#### 8.6 OTHER SOLUTIONS

##### FIGURE 54 NAVIGATION, GUIDANCE, AND CONTROL SYSTEM TO BE FASTEST-GROWING SEGMENT DURING FORECAST PERIOD

TABLE 38 OTHER SOLUTIONS: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 39 OTHER SOLUTIONS: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

8.6.1 MOTOR

8.6.2 NAVIGATION, GUIDANCE, AND CONTROL SYSTEM

8.6.3 HARDWARE

8.6.4 SOFTWARE

## **9 UNMANNED SURFACE VEHICLE MARKET, BY SIZE**

### **9.1 INTRODUCTION**

FIGURE 55 UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028

TABLE 40 UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 41 UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

### **9.2 SMALL**

9.2.1 RISE IN R&D INVESTMENTS TO DRIVE GROWTH

### **9.3 MEDIUM**

9.3.1 PRE-WAR AND POST-WAR MAINTENANCE AND SUPPORT SERVICES TO DRIVE GROWTH

### **9.4 LARGE**

9.4.1 IMPROVED SAFETY AND PERFORMANCE TO DRIVE GROWTH

### **9.5 EXTRA LARGE**

9.5.1 LOW PRODUCTION DUE TO HIGH COST AND LACK OF TECHNICAL ADVANCEMENTS

## **10 UNMANNED SURFACE VEHICLE MARKET, BY TYPE**

### **10.1 INTRODUCTION**

FIGURE 56 UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028

TABLE 42 UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 43 UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

### **10.2 SEMI-AUTONOMOUS**

10.2.1 IMPROVED OPERATIONAL EFFICIENCY TO DRIVE GROWTH

### **10.3 AUTONOMOUS**

10.3.1 RAPID DEVELOPMENT BY PROMINENT COMPANIES TO DRIVE GROWTH

## **11 UNMANNED SURFACE VEHICLE MARKET, BY ENDURANCE**

### **11.1 INTRODUCTION**

FIGURE 57 UNMANNED SURFACE VEHICLE MARKET, BY ENDURANCE, 2023–2028

TABLE 44 UNMANNED SURFACE VEHICLE MARKET, BY ENDURANCE, 2019–2022 (USD MILLION)

TABLE 45 UNMANNED SURFACE VEHICLE MARKET, BY ENDURANCE, 2023–2028  
(USD MILLION)

11.2 1,000 HOURS

11.5.1 FOCUS ON ANTI-SUBMARINE WARFARE MISSIONS TO DRIVE GROWTH

**12 UNMANNED SURFACE VEHICLE MARKET, BY CRUISING SPEED**

12.1 INTRODUCTION

FIGURE 58 UNMANNED SURFACE VEHICLE MARKET, BY CRUISING SPEED,  
2023–2028

TABLE 46 UNMANNED SURFACE VEHICLE MARKET, BY CRUISING SPEED,  
2019–2022 (USD MILLION)

TABLE 47 UNMANNED SURFACE VEHICLE MARKET, BY CRUISING SPEED,  
2023–2028 (USD MILLION)

12.2 30 KNOTS

12.4.1 NEED FOR RAPID RESPONSE AND INTERCEPTION TO DRIVE GROWTH

**13 UNMANNED SURFACE VEHICLE MARKET, BY HULL TYPE**

13.1 INTRODUCTION

FIGURE 59 UNMANNED SURFACE VEHICLE MARKET, BY HULL TYPE, 2023–2028

TABLE 48 UNMANNED SURFACE VEHICLE MARKET, BY HULL TYPE, 2019–2022  
(USD MILLION)

TABLE 49 UNMANNED SURFACE VEHICLE MARKET, BY HULL TYPE, 2023–2028  
(USD MILLION)

13.2 SINGLE

13.3 TWIN

13.4 TRIPLE

13.5 RIGID INFLATABLE

**14 UNMANNED SURFACE VEHICLE MARKET, BY REGION**

14.1 INTRODUCTION

FIGURE 60 UNMANNED SURFACE VEHICLE MARKET, BY REGION, 2023–2028

TABLE 50 UNMANNED SURFACE VEHICLE MARKET, BY REGION, 2019–2022  
(USD MILLION)

TABLE 51 UNMANNED SURFACE VEHICLE MARKET, BY REGION, 2023–2028  
(USD MILLION)

14.2 NORTH AMERICA



#### 14.2.1 PESTLE ANALYSIS

#### 14.2.2 RECESSION IMPACT ANALYSIS

TABLE 52 NORTH AMERICA: RECESSION IMPACT ANALYSIS

FIGURE 61 NORTH AMERICA: UNMANNED SURFACE VEHICLE MARKET  
SNAPSHOT

TABLE 53 NORTH AMERICA: UNMANNED SURFACE VEHICLE MARKET, BY  
COUNTRY, 2019–2022 (USD MILLION)

TABLE 54 NORTH AMERICA: UNMANNED SURFACE VEHICLE MARKET, BY  
COUNTRY, 2023–2028 (USD MILLION)

TABLE 55 NORTH AMERICA: UNMANNED SURFACE VEHICLE MARKET, BY  
APPLICATION, 2019–2022 (USD MILLION)

TABLE 56 NORTH AMERICA: UNMANNED SURFACE VEHICLE MARKET, BY  
APPLICATION, 2023–2028 (USD MILLION)

TABLE 57 NORTH AMERICA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE,  
2019–2022 (USD MILLION)

TABLE 58 NORTH AMERICA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE,  
2023–2028 (USD MILLION)

TABLE 59 NORTH AMERICA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE,  
2019–2022 (USD MILLION)

TABLE 60 NORTH AMERICA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE,  
2023–2028 (USD MILLION)

#### 14.2.3 US

14.2.3.1 Increasing demand for advanced unmanned systems for defense security to  
drive growth

TABLE 61 US: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION,  
2019–2022 (USD MILLION)

TABLE 62 US: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION,  
2023–2028 (USD MILLION)

TABLE 63 US: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022  
(USD MILLION)

TABLE 64 US: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028  
(USD MILLION)

TABLE 65 US: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022  
(USD MILLION)

TABLE 66 US: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028  
(USD MILLION)

#### 14.2.4 CANADA

14.2.4.1 Dynamic regulatory environment governing maritime activities to drive  
growth

TABLE 67 CANADA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 68 CANADA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 69 CANADA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 70 CANADA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 71 CANADA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 72 CANADA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

### 14.3 EUROPE

#### 14.3.1 PESTLE ANALYSIS

#### 14.3.2 RECESSION IMPACT ANALYSIS

TABLE 73 EUROPE: RECESSION IMPACT ANALYSIS

FIGURE 62 EUROPE: UNMANNED SURFACE VEHICLE MARKET SNAPSHOT

TABLE 74 EUROPE: UNMANNED SURFACE VEHICLE MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 75 EUROPE: UNMANNED SURFACE VEHICLE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 76 EUROPE: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 77 EUROPE: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 78 EUROPE: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 79 EUROPE: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 80 EUROPE: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 81 EUROPE: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 14.3.3 UK

##### 14.3.3.1 Focus on advanced marine technologies to drive growth

TABLE 82 UK: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 83 UK: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 84 UK: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022  
(USD MILLION)

TABLE 85 UK: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028  
(USD MILLION)

TABLE 86 UK: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022  
(USD MILLION)

TABLE 87 UK: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028  
(USD MILLION)

#### 14.3.4 GERMANY

14.3.4.1 Innovations in USV technologies to drive growth

TABLE 88 GERMANY: UNMANNED SURFACE VEHICLE MARKET, BY  
APPLICATION, 2019–2022 (USD MILLION)

TABLE 89 GERMANY: UNMANNED SURFACE VEHICLE MARKET, BY  
APPLICATION, 2023–2028 (USD MILLION)

TABLE 90 GERMANY: UNMANNED SURFACE VEHICLE MARKET, BY SIZE,  
2019–2022 (USD MILLION)

TABLE 91 GERMANY: UNMANNED SURFACE VEHICLE MARKET, BY SIZE,  
2023–2028 (USD MILLION)

TABLE 92 GERMANY: UNMANNED SURFACE VEHICLE MARKET, BY TYPE,  
2019–2022 (USD MILLION)

TABLE 93 GERMANY: UNMANNED SURFACE VEHICLE MARKET, BY TYPE,  
2023–2028 (USD MILLION)

#### 14.3.5 FRANCE

14.3.5.1 Presence of significant players to drive growth

TABLE 94 FRANCE: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION,  
2019–2022 (USD MILLION)

TABLE 95 FRANCE: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION,  
2023–2028 (USD MILLION)

TABLE 96 FRANCE: UNMANNED SURFACE VEHICLE MARKET, BY SIZE,  
2019–2022 (USD MILLION)

TABLE 97 FRANCE: UNMANNED SURFACE VEHICLE MARKET, BY SIZE,  
2023–2028 (USD MILLION)

TABLE 98 FRANCE: UNMANNED SURFACE VEHICLE MARKET, BY TYPE,  
2019–2022 (USD MILLION)

TABLE 99 FRANCE: UNMANNED SURFACE VEHICLE MARKET, BY TYPE,  
2023–2028 (USD MILLION)

#### 14.3.6 ITALY

14.3.6.1 Increasing demand for efficient maritime surveillance and data collection  
solutions to drive growth

TABLE 100 ITALY: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 101 ITALY: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 102 ITALY: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 103 ITALY: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 104 ITALY: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 105 ITALY: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 14.3.7 NORWAY

14.3.7.1 Need for combatting illegal offshore activities to drive growth

TABLE 106 NORWAY: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 107 NORWAY: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 108 NORWAY: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 109 NORWAY: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 110 NORWAY: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 111 NORWAY: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 14.3.8 REST OF EUROPE

TABLE 112 REST OF EUROPE: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 113 REST OF EUROPE: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 114 REST OF EUROPE: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 115 REST OF EUROPE: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 116 REST OF EUROPE: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 117 REST OF EUROPE: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

## 14.4 ASIA PACIFIC

### 14.4.1 PESTLE ANALYSIS

### 14.4.2 RECESSION IMPACT ANALYSIS

TABLE 118 ASIA PACIFIC: RECESSION IMPACT ANALYSIS

FIGURE 63 ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET SNAPSHOT

TABLE 119 ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 120 ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 121 ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 122 ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 123 ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 124 ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 125 ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 126 ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

### 14.4.3 CHINA

#### 14.4.3.1 Emphasis on domestic USV programs to drive growth

TABLE 127 CHINA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 128 CHINA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 129 CHINA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 130 CHINA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 131 CHINA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 132 CHINA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

### 14.4.4 INDIA

#### 14.4.4.1 Potential avenues for USV integration to drive growth

TABLE 133 INDIA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 134 INDIA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 135 INDIA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 136 INDIA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 137 INDIA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 138 INDIA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 14.4.5 JAPAN

##### 14.4.5.1 Need for effective maritime solutions to drive growth

TABLE 139 JAPAN: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 140 JAPAN: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 141 JAPAN: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 142 JAPAN: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 143 JAPAN: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 144 JAPAN: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 14.4.6 AUSTRALIA

##### 14.4.6.1 Domestic maritime interests to drive growth

TABLE 145 AUSTRALIA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 146 AUSTRALIA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 147 AUSTRALIA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 148 AUSTRALIA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 149 AUSTRALIA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 150 AUSTRALIA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 14.4.7 SOUTH KOREA



#### 14.4.7.1 Government investments toward technological advancements to drive growth

TABLE 151 SOUTH KOREA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 152 SOUTH KOREA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 153 SOUTH KOREA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 154 SOUTH KOREA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 155 SOUTH KOREA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 156 SOUTH KOREA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 14.4.8 REST OF ASIA PACIFIC

TABLE 157 REST OF ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 158 REST OF ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 159 REST OF ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 160 REST OF ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 161 REST OF ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 162 REST OF ASIA PACIFIC: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 14.5 MIDDLE EAST

##### 14.5.1 PESTLE ANALYSIS

##### 14.5.2 RECESSION IMPACT ANALYSIS

TABLE 163 MIDDLE EAST: RECESSION IMPACT ANALYSIS

FIGURE 64 MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET SNAPSHOT

TABLE 164 MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 165 MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

TABLE 166 MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 167 MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET, BY



APPLICATION, 2023–2028 (USD MILLION)

TABLE 168 MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 169 MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 170 MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 171 MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 14.5.3 SAUDI ARABIA

14.5.3.1 Focus on unmanned systems for defense purposes to drive growth

TABLE 172 SAUDI ARABIA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 173 SAUDI ARABIA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 174 SAUDI ARABIA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 175 SAUDI ARABIA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 176 SAUDI ARABIA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 177 SAUDI ARABIA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 14.5.4 ISRAEL

14.5.4.1 Military modernization programs to drive growth

TABLE 178 ISRAEL: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 179 ISRAEL: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 180 ISRAEL: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 181 ISRAEL: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 182 ISRAEL: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 183 ISRAEL: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 14.5.5 REST OF MIDDLE EAST

TABLE 184 REST OF MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET, BY

APPLICATION, 2019–2022 (USD MILLION)

TABLE 185 REST OF MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 186 REST OF MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 187 REST OF MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 188 REST OF MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 189 REST OF MIDDLE EAST: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

## 14.6 REST OF THE WORLD

### 14.6.1 PESTLE ANALYSIS

### 14.6.2 RECESSION IMPACT ANALYSIS

TABLE 190 REST OF THE WORLD: RECESSION IMPACT ANALYSIS

FIGURE 65 REST OF THE WORLD: UNMANNED SURFACE VEHICLE MARKET SNAPSHOT

TABLE 191 REST OF THE WORLD: UNMANNED SURFACE VEHICLE MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 192 REST OF THE WORLD: UNMANNED SURFACE VEHICLE MARKET, BY REGION, 2023–2028 (USD MILLION)

TABLE 193 REST OF THE WORLD: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 194 REST OF THE WORLD: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 195 REST OF THE WORLD: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 196 REST OF THE WORLD: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 197 REST OF THE WORLD: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 198 REST OF THE WORLD: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

### 14.6.3 LATIN AMERICA

#### 14.6.3.1 Rising investments in offshore oil and gas drilling activities to drive growth

TABLE 199 LATIN AMERICA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 200 LATIN AMERICA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 201 LATIN AMERICA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 202 LATIN AMERICA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 203 LATIN AMERICA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 204 LATIN AMERICA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

#### 14.6.4 AFRICA

##### 14.6.4.1 Extensive offshore inspection activities to drive growth

TABLE 205 AFRICA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2019–2022 (USD MILLION)

TABLE 206 AFRICA: UNMANNED SURFACE VEHICLE MARKET, BY APPLICATION, 2023–2028 (USD MILLION)

TABLE 207 AFRICA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2019–2022 (USD MILLION)

TABLE 208 AFRICA: UNMANNED SURFACE VEHICLE MARKET, BY SIZE, 2023–2028 (USD MILLION)

TABLE 209 AFRICA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2019–2022 (USD MILLION)

TABLE 210 AFRICA: UNMANNED SURFACE VEHICLE MARKET, BY TYPE, 2023–2028 (USD MILLION)

## 15 COMPETITIVE LANDSCAPE

### 15.1 INTRODUCTION

#### 15.2 STRATEGIES ADOPTED BY KEY PLAYERS, 2022–2023

TABLE 211 STRATEGIES ADOPTED BY KEY PLAYERS, 2022–2023

#### 15.3 RANKING ANALYSIS, 2022

FIGURE 66 MARKET RANKING OF KEY PLAYERS, 2022

#### 15.4 REVENUE ANALYSIS, 2018–2022

FIGURE 67 REVENUE ANALYSIS OF KEY PLAYERS, 2018–2022

#### 15.5 MARKET SHARE ANALYSIS, 2022

FIGURE 68 MARKET SHARE ANALYSIS OF KEY PLAYERS, 2022

TABLE 212 UNMANNED SURFACE VEHICLE MARKET: DEGREE OF COMPETITION

#### 15.6 COMPANY EVALUATION MATRIX, 2022

##### 15.6.1 STARS

##### 15.6.2 EMERGING LEADERS

##### 15.6.3 PERVASIVE PLAYERS

#### 15.6.4 PARTICIPANTS

FIGURE 69 COMPANY EVALUATION MATRIX, 2022

#### 15.6.5 COMPANY FOOTPRINT

TABLE 213 COMPANY FOOTPRINT

TABLE 214 APPLICATION FOOTPRINT

TABLE 215 REGION FOOTPRINT

#### 15.7 START-UP/SME EVALUATION MATRIX, 2022

##### 15.7.1 PROGRESSIVE COMPANIES

##### 15.7.2 RESPONSIVE COMPANIES

##### 15.7.3 DYNAMIC COMPANIES

##### 15.7.4 STARTING BLOCKS

FIGURE 70 START-UP/SME EVALUATION MATRIX, 2022

##### 15.7.5 COMPETITIVE BENCHMARKING

TABLE 216 KEY START-UPS/SMES

TABLE 217 COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES

#### 15.8 COMPETITIVE SCENARIO

##### 15.8.1 PRODUCT LAUNCHES

TABLE 218 PRODUCT LAUNCHES, 2020–2023

##### 15.8.2 DEALS

TABLE 219 DEALS, 2020–2023

## 16 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, MnM View Right to win, Strategic choices made, Weaknesses and competitive threats) \*

#### 16.1 KEY PLAYERS

TABLE 220 L3HARRIS TECHNOLOGIES, INC.: COMPANY OVERVIEW

FIGURE 71 L3HARRIS TECHNOLOGIES, INC.: COMPANY SNAPSHOT

TABLE 221 L3HARRIS TECHNOLOGIES, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 222 L3HARRIS TECHNOLOGIES, INC.: PRODUCT DEVELOPMENTS

TABLE 223 L3HARRIS TECHNOLOGIES, INC.: DEALS

##### 16.1.2 FUGRO

TABLE 224 FUGRO: COMPANY OVERVIEW

FIGURE 72 FUGRO: COMPANY SNAPSHOT

TABLE 225 FUGRO: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 226 FUGRO: DEALS

##### 16.1.3 TEXTRON INC.

TABLE 227 TEXTRON INC.: COMPANY OVERVIEW

FIGURE 73 TEXTRON INC.: COMPANY SNAPSHOT

TABLE 228 TEXTRON INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 229 TEXTRON INC.: DEALS

#### 16.1.4 EXAIL TECHNOLOGIES

TABLE 230 EXAIL TECHNOLOGIES: COMPANY OVERVIEW

FIGURE 74 EXAIL TECHNOLOGIES: COMPANY SNAPSHOT

TABLE 231 EXAIL TECHNOLOGIES: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 232 EXAIL TECHNOLOGIES: DEALS

#### 16.1.5 THALES

TABLE 233 THALES: COMPANY OVERVIEW

FIGURE 75 THALES: COMPANY SNAPSHOT

TABLE 234 THALES: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 235 THALES: DEALS

#### 16.1.6 TELEDYNE TECHNOLOGIES INCORPORATED

TABLE 236 TELEDYNE TECHNOLOGIES INCORPORATED: COMPANY OVERVIEW

FIGURE 76 TELEDYNE TECHNOLOGIES INCORPORATED: COMPANY SNAPSHOT

TABLE 237 TELEDYNE TECHNOLOGIES INCORPORATED: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 238 TELEDYNE TECHNOLOGIES INCORPORATED: PRODUCT DEVELOPMENTS

#### 16.1.7 ELBIT SYSTEMS LTD.

TABLE 239 ELBIT SYSTEMS LTD.: COMPANY OVERVIEW

FIGURE 77 ELBIT SYSTEMS LTD.: COMPANY SNAPSHOT

TABLE 240 ELBIT SYSTEMS LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 241 ELBIT SYSTEMS LTD.: PRODUCT DEVELOPMENTS

TABLE 242 ELBIT SYSTEMS LTD.: DEALS

#### 16.1.8 KONGSBERG

TABLE 243 KONGSBERG: COMPANY OVERVIEW

FIGURE 78 KONGSBERG: COMPANY SNAPSHOT

TABLE 244 KONGSBERG: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 245 KONGSBERG: DEALS

#### 16.1.9 QINETIQ

TABLE 246 QINETIQ: COMPANY OVERVIEW

FIGURE 79 QINETIQ: COMPANY SNAPSHOT

TABLE 247 QINETIQ: PRODUCTS/SOLUTIONS/SERVICES OFFERED

#### 16.1.10 LIG NEX1

TABLE 248 LIG NEX1: COMPANY OVERVIEW

FIGURE 80 LIG NEX1: COMPANY SNAPSHOT

TABLE 249 LIG NEX1: PRODUCTS/SOLUTIONS/SERVICES OFFERED?

16.1.11 BAE SYSTEMS

TABLE 250 BAE SYSTEMS: COMPANY OVERVIEW

FIGURE 81 BAE SYSTEMS: COMPANY SNAPSHOT

TABLE 251 BAE SYSTEMS: PRODUCTS/SOLUTIONS/SERVICES OFFERED?

16.1.12 SAAB AB

TABLE 252 SAAB AB: COMPANY OVERVIEW

FIGURE 82 SAAB AB: COMPANY SNAPSHOT

TABLE 253 SAAB AB: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 254 SAAB AB: PRODUCT DEVELOPMENTS

16.1.13 ATLAS ELEKTRONIK GMBH

TABLE 255 ATLAS ELEKTRONIK GMBH: COMPANY OVERVIEW

FIGURE 83 ATLAS ELEKTRONIK GMBH: COMPANY SNAPSHOT

TABLE 256 ATLAS ELEKTRONIK GMBH: PRODUCTS/SOLUTIONS/SERVICES OFFERED

16.1.14 SEAROBOTICS CORP.

TABLE 257 SEAROBOTICS CORP.: COMPANY OVERVIEW

TABLE 258 SEAROBOTICS CORP.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 259 SEAROBOTICS CORP.: PRODUCT DEVELOPMENTS

TABLE 260 SEAROBOTICS CORP.: DEALS

16.1.15 RAFAEL ADVANCED DEFENSE SYSTEMS LTD.

TABLE 261 RAFAEL ADVANCED DEFENSE SYSTEMS LTD.: COMPANY OVERVIEW

TABLE 262 RAFAEL ADVANCED DEFENSE SYSTEMS LTD.:

PRODUCTS/SOLUTIONS/SERVICES OFFERED

16.1.16 5G INTERNATIONAL, INC.

TABLE 263 5G INTERNATIONAL, INC.: COMPANY OVERVIEW

TABLE 264 5G INTERNATIONAL, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

16.1.17 LIQUID ROBOTICS, INC.

TABLE 265 LIQUID ROBOTICS, INC.: COMPANY OVERVIEW

TABLE 266 LIQUID ROBOTICS, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

16.1.18 MARTAC

TABLE 267 MARTAC: COMPANY OVERVIEW

TABLE 268 MARTAC: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 269 MARTAC: PRODUCT DEVELOPMENTS

16.1.19 EDGE PJSC GROUP

TABLE 270 EDGE PJSC GROUP: COMPANY OVERVIEW

TABLE 271 EDGE PJSC GROUP: PRODUCTS/SOLUTIONS/SERVICES OFFERED



#### 16.1.20 OCEAN AERO

TABLE 272 OCEAN AERO: COMPANY OVERVIEW

TABLE 273 OCEAN AERO: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 274 OCEAN AERO: DEALS

#### 16.1.21 DEEP OCEAN ENGINEERING, INC.

TABLE 275 DEEP OCEAN ENGINEERING, INC.: COMPANY OVERVIEW

TABLE 276 DEEP OCEAN ENGINEERING, INC.:  
PRODUCTS/SOLUTIONS/SERVICES OFFERED

#### 16.1.22 CLEARPATH ROBOTICS, INC.

TABLE 277 CLEARPATH ROBOTICS, INC.: COMPANY OVERVIEW

TABLE 278 CLEARPATH ROBOTICS, INC.: PRODUCTS/SOLUTIONS/SERVICES  
OFFERED

#### 16.1.23 SAILDRONE, INC.

TABLE 279 SAILDRONE, INC.: COMPANY OVERVIEW

TABLE 280 SAILDRONE, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 281 SAILDRONE, INC.: DEALS

#### 16.1.24 SEAFLOOR SYSTEMS, INC.

TABLE 282 SEAFLOOR SYSTEMS, INC.: COMPANY OVERVIEW

TABLE 283 SEAFLOOR SYSTEMS, INC.: PRODUCTS/SOLUTIONS/SERVICES  
OFFERED

### 16.2 OTHER PLAYERS

#### 16.2.1 ZHUHAI YUNZHOU INTELLIGENCE TECHNOLOGY LTD.

TABLE 284 ZHUHAI YUNZHOU INTELLIGENCE TECHNOLOGY LTD.: COMPANY  
OVERVIEW

#### 16.2.2 MARITIME ROBOTICS

TABLE 285 MARITIME ROBOTICS: COMPANY OVERVIEW

#### 16.2.3 OCIUS TECHNOLOGIES

TABLE 286 OCIUS TECHNOLOGIES: COMPANY OVERVIEW

\*Details on Business Overview, Products Offered, Recent Developments, MnM View, Right to win, Strategic choices made, Weaknesses and competitive threats might not be captured in case of unlisted companies.

## 17 APPENDIX

### 17.1 DISCUSSION GUIDE

### 17.2 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

### 17.3 RELATED REPORTS

### 17.4 AUTHOR DETAILS



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