



THE FUTURE OF AUTONOMOUS MARITIME VESSELS – 2019 EDITION

Valour Consultancy plans to expand upon its well-received maritime connectivity and hardware report, examining and evaluating the potential for Autonomous Maritime Vessels (AMVs), also referred to sometimes as Unmanned Surface Vehicles (USVs) or Autonomous Surface Vehicles (ASVs), or Sea Drones. The new report will discuss, in detail, the varying degrees of autonomy available – minimally manned, remotely manned and fully autonomous.

The report will cover the technical requirements of AMVs and will detail the expected future development of this burgeoning market. This will include a thorough inspection on small specialist boats used for maintenance inspections or pollution prevention and remediation; medium sized vessels such as offshore supply vessels; and larger cargo-carrying international transit vessels.

There will be separate sections detailing unmanned military craft, subsea crawlers and subsurface vehicles (remote operated vehicles or pipeline inspection drones).

As yet, autonomous passenger ferries are not a significant market although a Norwegian ferry has already undertaken tests transiting and docking at three separate ports thus far. This study will not cover unpowered fixed or drifting weather buoys, tsunami warning buoys or sail-powered drones used in oceanographic research.

Furthermore, Valour Consultancy will explore the new business models being deployed by AMV service providers, and companies expanding their service offerings, such as sea traffic management (STM) solutions. This could be vitally important as past experiences with the introduction of other autonomic systems such as building management and traffic management teach us that there will be several different contenders for computerised management systems that may not be able to communicate with each other perfectly. In addition, while autonomous systems have vessels at sea, they will have to interact with human controlled vessels that may not replicate the proscribed programmed actions.

An in-depth compendium of all the most prevalent AMV trial deployments, past and on-going, will be included. Valour Consultancy aims to profile more than 25 companies in detail; providing company background information, financial records (where available), present and future roadmap plans, unique product features, recent business activities and merger and acquisitions in the industry. While the majority of ship owners and developers are based in Western nations, China, South Korea, Singapore and Japan have a significant stake in the development of autonomous vessels. Valour Consultancy will include appraisal of developments in these countries.

Forecasts for revenues, device shipments and potential service subscribers extend from 2018 to 2028 segmented by geographic region and key applications.

Valour Consultancy invites you to participate in this research, influence the scope and receive a substantial discount on the price of the final report. Further information on this participant program can be found on page 5, while pages 2-4 explain the scope of this research in more detail.

QUESTIONS TO BE ANSWERED

- How many Autonomous Maritime Vessels (AMVs) were trialled and sold in 2018?
- What is the global market value of these vessels sold in 2018?
- How big is the AMV component and communication service market and how will it progress in the future?
- Which applications hold the most potential for AMVs?
- What are the main barriers for the market to develop and what needs to change for companies to overcome these obstacles?
- Where will the commercial AMV market be in 10 years?
- Which types of AMV will be the most successful and why?
- Which are the most interesting and unique case studies of the use of AMVs?
- How are companies changing the maritime industry's attitude autonomous vessels, and how will this generate more business opportunities?
- Will the increased deployment of AMVs be credited to a particular country or region? And if so, why?
- How big will component and service provider revenues be for autonomous ocean surveying, offshore installation inspection, aquaculture, cargo vessels, mining vessels, and oil and gas vessels be by 2028?
- Which countries and ruling bodies have created policies or regulations for AMVs?
- What are the latest regulatory and technical requirements for research and commercial AMVs and how will they change in the future? How will this impact the market?
- Which other industries could the AMV be related to?



PROPOSED REPORT CONTENT

It is proposed that the report will be organised into the following chapters:

Chapter 1 – Introduction, Scope and Methodology

Contains the report scope and explanations as to what is included and excluded from the research. All definitions used are presented in a clear and concise manner, alongside the exchange rates used in our analysis and the base year and forecast methodologies employed.

Chapter 2 – Technology Overview

Concentrates on the technical aspects of autonomous maritime systems, the components and instrumentations incorporated, the possible communications options and provides a comprehensive overview of the different types of solutions. This includes sea traffic management (STM) platforms– for existing and planned areas, developments in relevant standards and regulations.

Chapter 3 – Market Statistics and Trends

Quantifies AMV marketplace and examines the market drivers and inhibitors of AMV deployment. 2018 will be the report base year, and forecast projections will be plotted from 2019 to 2028. This data will be segmented by AMV types, five geographic regions, vertical applications, other related AMV service products, and hardware and instrumentation components are also assessed. In addition, service provider revenues from each application will be plotted, with various scenarios portrayed and analysed that could impact revenue opportunities in the AMV market.

Chapter 4 – Competitive Environment

Examines the competitive environment of those vendors operating in the AMV market. Detailed profiles will be provided for the key players with notable mergers and acquisitions discussed alongside new product developments, key partnerships, business models and strategies, as well as a presentation of market shares.

Also included within this section is a focus on new providers of other AMV services related to this growing market. Report purchasers have the opportunity to view a compendium of active vendors, their USPs, and an easy-to-digest comparison of the features and functionalities on offer.

A list of companies that will be covered in the report:

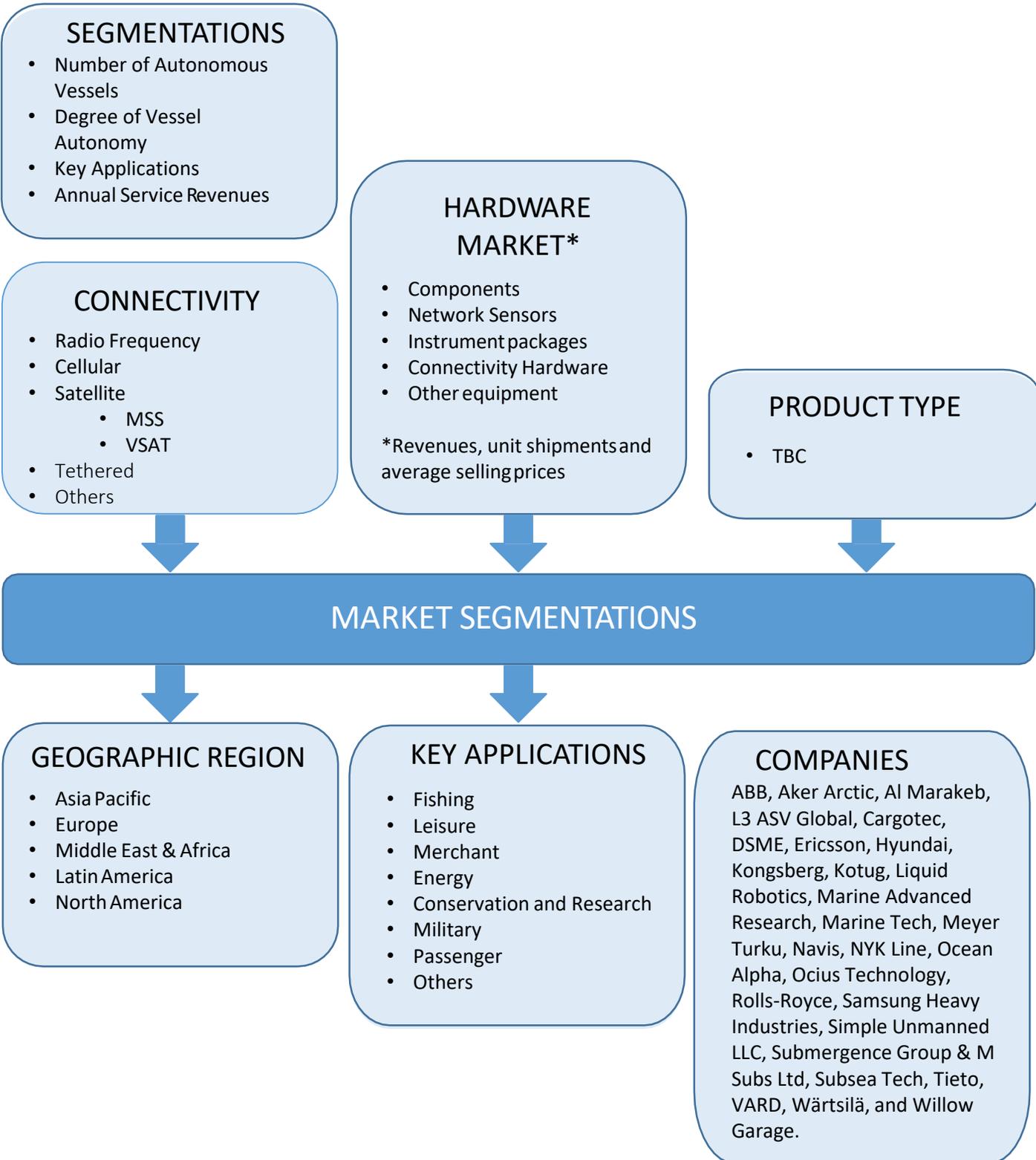
ABB, Aker Arctic, Al Marakeb, L3 ASV Global, Automated Ships Ltd, Cargotec (MacGregor and Kalmar), DSME, Ericsson, Hyundai, Kongsberg, Kotug, Liquid Robotics (part of Boeing), Marine Advanced Research, Marine Tech (RSV), Meyer Turku, Navis, Nippon Yusen Kabushiki Kaisha (NYK Line), Ocean Alpha, Ocius Technology, Rolls-Royce (now AMV portion of business now owned by Kongsberg), Samsung Heavy Industries, Simple Unmanned LLC, Submergence Group & M Subs Ltd, Subsea Tech, Tieto, VARD, Wärtsilä, and Willow Garage.

Need for something not mentioned here? Our participant program allows you to tailor the scope to your requirements. See page 5 for details.



PROPOSED SCOPE

The diagram below offers a visual summary of the quantitative analysis to be included in this report. 10 year forecasts will be provided for all segmentations from 2019 until 2028 with historic data from 2018 also included.



Would an additional segmentation be beneficial? Our participant program allows you to have this report better meet your needs. See Page 5 for details.

ABOUT VALOUR CONSULTANCY

Valour Consultancy is a UK-based provider of market intelligence services. Founded in 2012, the company has grown rapidly and is renowned for the extremely high-quality of its research and consultancy. Having firmly established itself in the aviation space, where many of the leading players rely on its expert insight and analysis, Valour Consultancy has successfully expanded into a number of other markets including, maritime, industrial, drones and body-worn cameras.

We include a participant program on all of our syndicated studies. By taking part in our participant program, clients can:

- [Modify the report scope](#) to meet specific market research requirements
- Benefit from having [advanced access](#) to market estimates and forecast data
- Take advantage of a [15% discount](#) on the report price (see table below)
- Receive a [presentation of the report findings](#) by one of our consultants

There are no additional costs or commitment associated with the participant program. Clients need only complete the order form below before [15th February 2019](#). After this point, the report will only be available at the non-participant price.

Please feel free to visit our [website](#) or [email](#) us for more information.

ORDER FORM

License	Currency	Participant Price	Non-participant Price
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