

A market research report on

Robotics: A New Era in Surgical Innovation



insights **10**

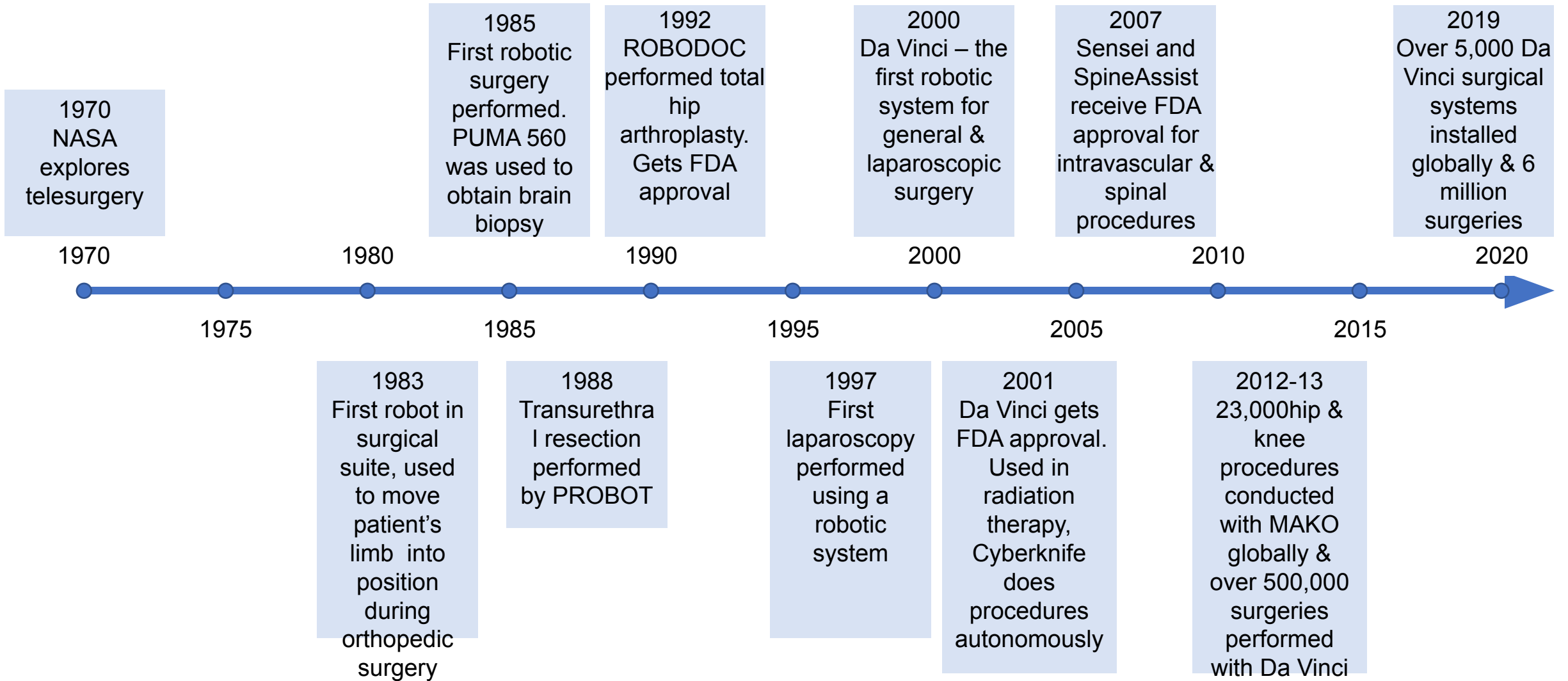
Robotics in Surgery

The robotic surgery market is going to reach \$12 Billion by 2030, growing at a CAGR of 19.3% during the forecasted period 2022-2030

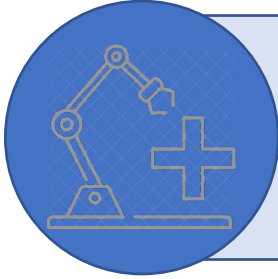
Key Insights:

- Robotic or automated surgery, allows doctors to perform numerous types of complex procedures with more precision, adaptability and control than is possible with traditional techniques. Mechanical surgery is usually associated with negligibly invasive surgery — procedures performed through small incisions
- Since certain operations, such radical prostatectomy and partial nephrectomy, lend themselves to the complexities of robotic technology, urology has historically been the primary driver of robotics in the UK
- These procedures have become highly efficient with excellent outcomes, so future gains from improving surgical robotics are likely to be had outside of this field in areas such as ear, nose and throat (ENT) and thoracic surgery alongside gynecology and general surgery
- Improvements in commercial viability and accessibility will encourage the translation of the present robotic surgical systems into a considerably larger range of procedures. Robotic utilization in these areas is currently growing quickly
- Manufacturers and software developers are using 3D imaging to create Augmented Reality (AR) solutions that can optimize surgical procedures and training tools

Robotics in Surgery: The Journey from Past to Present

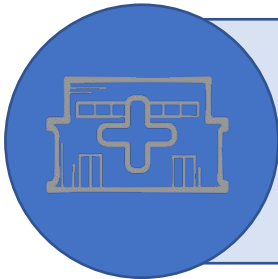


Robotics in Surgery: Future Trends



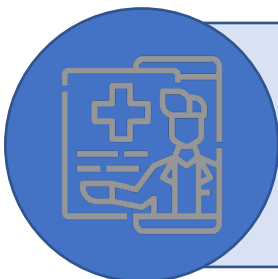
Novel Surgical Platforms:

Novel surgical platforms and technology ownership models will continue to be introduced. New healthcare technologies are often developed and introduced in response to tight hospital budgets. The infusion and widespread adoption of new medical solutions are dependent on the availability of reasonably priced enabling technologies and new business models



Surgical Robots in ASCs:

Robotics-assisted technology can support the high volume, low-cost procedures that are typically performed with ambulatory surgery centers (ASCs). Robotics-assisted technology offers low operating cost through the use of standard reusable instruments and open-platform architecture that allows hospitals to leverage existing technology investments



Telehealth/Telesurgery:

The future of telesurgery relies on two factors – the availability of 5G and the widespread adoption of robotics-assisted technologies. As 5G becomes more prevalent, coupled with advances robotics-assisted technologies, telesurgery will become an increasing viable option for certain procedures

Novel Surgical Platforms

CMR Surgical - Versius



- Versius consists of separate single arm carts and an open console; wristed instrument tips also provide seven degrees of freedom
- Arms of Versius are lightweight and provide ease of transport and deployment
- Versatility of Versius, with the ability to add and remove arm carts, makes it a more practical portable solution
- Already been installed in hospitals in Germany, Australia and the UK as of June 2021

Johnson & Johnson - Ottava



- Recently announced its surgical robot platform, Ottava
- will consist of six robotic arms integrated into the operating table; design provides a zero footprint device that frees up space and enables better patient access
- J&J are also expanding into orthopaedics with VELYS, their table-mounted robotic system aimed at increasing accuracy of bony cuts, recently receiving FDA approval

Medtronic - Hugo



- Recently performed the first patient procedure, a radical prostatectomy, using their contribution
- Hugo robotic-assisted surgery system possesses similar qualities to CMR's Versius, with its modular, open-console design
- Compatibility with the globally-trusted Medtronic surgical instrumentation may make Hugo a more accessible and successful competitor

Surgical Robots in ASCs

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Methodology & Scope

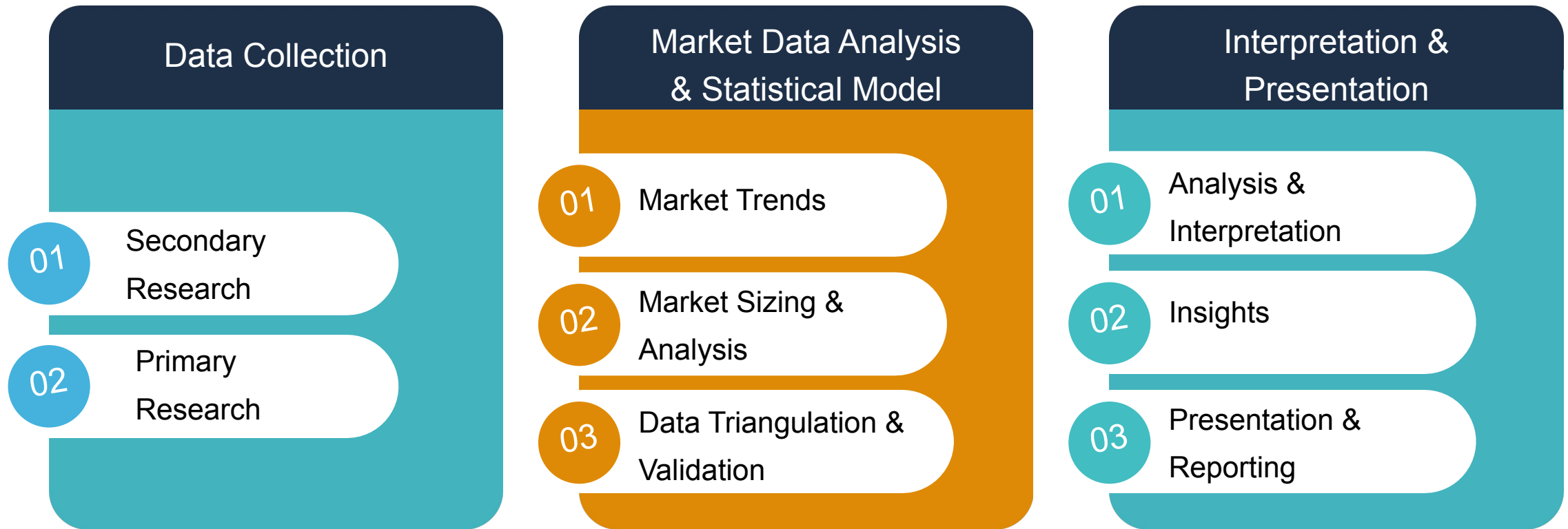


Research Methodology

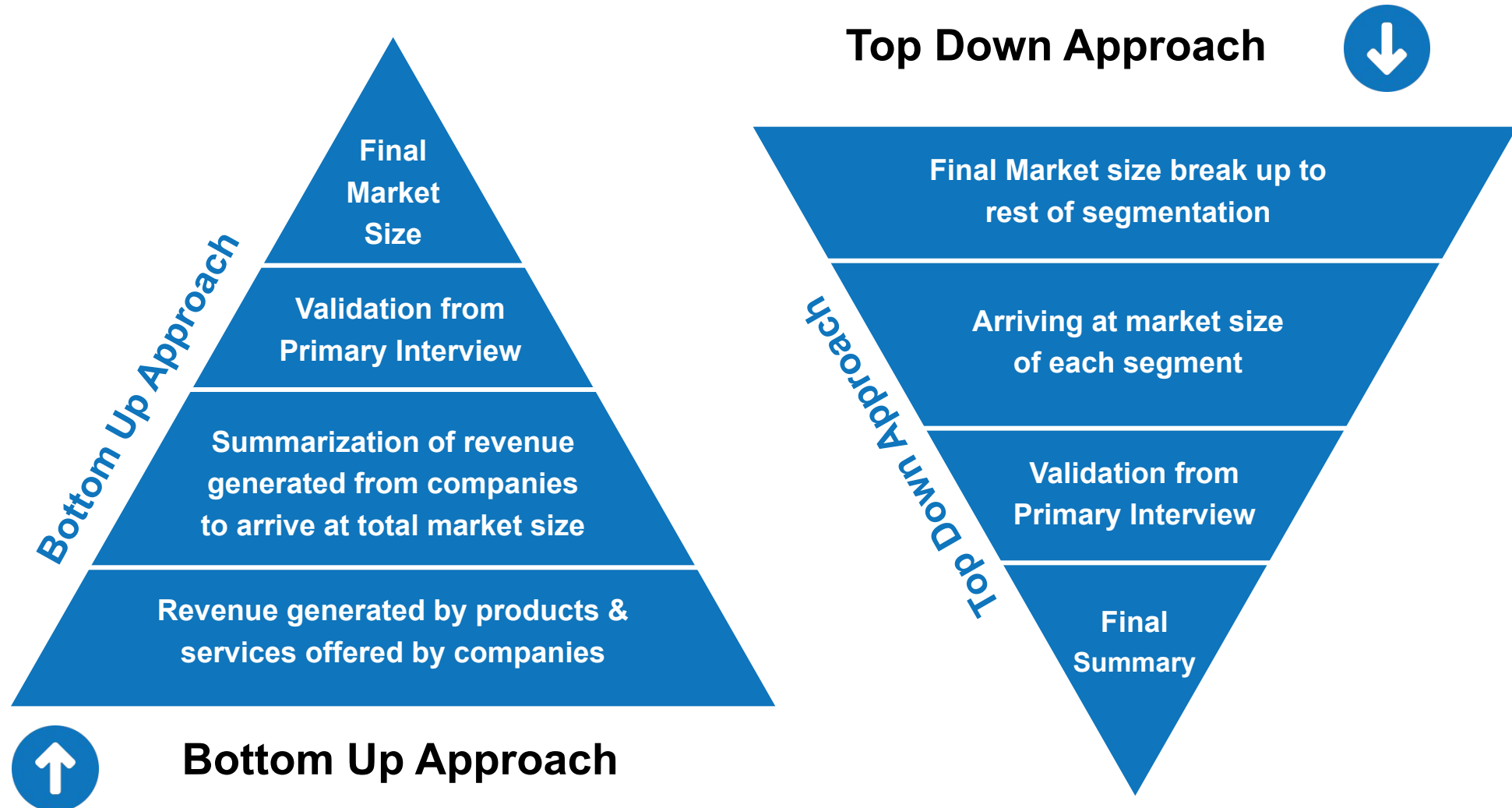
- Insights 10's research methodology delves deeper into the market, covering the macro and micro aspects of the industry. We identify the key growth drivers, opportunities, and restraints that might promote or hinder the future industry growth along with an expansive overview of the competitive landscape to help our clients make informed strategic decisions
- We implement a mix of primary and secondary research for our market estimate and forecast. The secondary research forms the initial phase of our study where we conduct extensive data mining, referring to verified data sources such as independent studies, government and regulatory published material, technical journals, trade magazines, and paid data sources
- For forecasting, the following parameters are considered:
 - ❑ Market drivers and restraints along with their current and expected impacts
 - ❑ Technological scenario and expected developments
 - ❑ End use industry trends and dynamics
 - ❑ Trends in the consumer behavior
 - ❑ Regulatory scenario and expected developments
 - ❑ Current capacity and expected capacity additions up to 2030
- We assign weights to these parameters and quantify their market impacts using the weighted average analysis to derive the expected market growth rate
- We appoint data triangulation strategies to explore different areas of the market. Our qualitative and quantitative assessments are time-sensitive, reflecting the most recent value and volume of the market across regions
- All our estimates and forecasts are verified through exhaustive primary research with the Key Industry Participants (KIPs)
- Currency used in the report is the US dollar (USD), with the market size indicated in USD million/billion (Mn/Bn)

Analysis Methodology

Our Analysis Methodology involves three critical stages:



Data Triangulation & Data Validation



Key Benefits for Stakeholders from this Report

- Study provides an in-depth analysis of the market with current trends and future estimations to elucidate the imminent investment pockets
- Our tools provides stakeholders with a cohesive understanding of the industry outlook, considering the qualitative and quantitative industry variables
- Comprehensive analysis of factors that drive and restrict the market growth is provided
- Comprehensive quantitative analysis of the industry from 2021 to 2030F is provided to enable the stakeholders to capitalize on the prevailing market opportunities
- Extensive analysis of the key segments of the industry helps understand the applications and technologies used globally
- Our rigorous data collection, thorough statistical analysis and specialist assessments ensure that our clientele has a greater understanding of the industry space, supply chain, price fluctuations, competitive landscape, and other vital factors

Time Frame	Report Attribute	Details
2021 Base Year for Estimation	Quantitative Units	Revenue in USD Million/Billion (Mn/Bn)
	Report Coverage	Market Overview, Revenue Forecast, Market Segmentation, Growth Factors and Trends, Company Profiles, Competitive Landscape, Regulatory Landscape, Future Opportunities
2022-2030 Forecast Period	Customized Report	Report Customization (5 working days) with purchase. We will provide you with data that is currently not a part of our scope as a part of customization
	Pricing and purchase options	Avail customized purchase options to meet your exact research needs

What kind of Data is Presented in this Report?

This report presents data, which is:

Reliable

The report is prepared using a proven methodology and insightful research

Expert-verified

The data is prepared by a team of highly qualified & experienced research analysts & vetted by our local associates

Real

Allowing you to confidently make smarter business and strategic decisions

Comprehensive

Covers everything you would need to know about the market including market size, competitive analysis & much more

Easy to read

You do not have to be a market expert to understand what really is happening on the market and how it works



About insights **10**

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