

Smart Cleaning And Hygiene - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029

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Report description:

The Smart Cleaning And Hygiene Market size is estimated at USD 5.13 billion in 2024, and is expected to reach USD 11.01 billion by 2029, growing at a CAGR of 16.53% during the forecast period (2024-2029).

Maintaining cleanliness is essential in all places, especially in hospitals. Around 50% to 70% of hospital-acquired infections (HAI) are spread through contaminated hands. Smart cleaning can help identify common touchpoints in hospitals and find the right solutions to eradicate all germs. Smart cleaning in the healthcare sector is essential to reduce diseases and improve the hospital's hygiene.

Key Highlights

- The hospitality industry increasingly utilizes robotic technology to improve operations and enhance the guest experience. For instance, the Garden City Hotel in New York adopted Whiz by SoftBank Robotics' artificial intelligence (AI)-driven platform. The hotel staff claims it is convenient to use as they can keep the banquet hall furniture on one side and deploy Whiz to clean the carpets.
- In January 2023, Mero Technologies Inc received a fund of USD 1.5 million from the Canadian Government through the Jobs and Growth Fund. Mero offers smart cleaning solutions for commercial buildings to help measure building occupancy and cleanliness, helping tenants return to work safely. The funding will help Mero to expand its smart cleaning platform efforts into Western Canada and the US.
- The past two years saw a significant upheaval in the cleaning sector as the COVID-19 pandemic accelerated this transformation. The trend of smart cleaning became a necessity as it was a powerful incentive to get workers back into the office. Data-driven smart cleaning made it more efficient than ever for providers to offer a high-quality service that satisfies their customers. AI-integrated smart cleaning solutions enabled more efficient cleaning of meeting rooms and workspaces.

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-Data security and protection will be a significant challenge for smart cleaning companies. Smart cleaning functions on data collected by sensors and protecting this data from breaching activities are equally important. For instance, a hacker can access the cameras of a cleaning robot and, in this way, gain knowledge of the internal floor plans of a building.

Smart Cleaning And Hygiene Market Trends

Robotic Vacuum Cleaner Holds Significant Market Share

- The robotics market is expected to reach USD 100 billion by 2027. The integration of AI allows robots to navigate their environment. ICE developed robots that use mapping and laser technology to clean complex environments. Staffing may be challenging due to expensive night shifts and unsociable hours, which consume a lot of ineffective management time. Adopting robotic techniques for cleaning can save expenses and improve time management. Start-up costs may be high, but they are cost-effective once the robots are used.
- Robot vacuum cleaners are the world's most widely produced and sold robots for domestic tasks. The cleaning expert Roomba specializes in vacuum cleaning, featuring a great built-in automatic adjustment between floor types and vital cleaning functions to pick up pet hair.
- In June 2022, Eufy by Anker launched the Robovac G20, which runs on ultra-pack dust compression technology and offers four suction modes, increased airflow, and quiet operation around the house. It efficiently utilizes the attached dust box and can detect when extra vacuuming power is needed.
- In May 2022, Haier launched the 2-in-1 dry & wet mop Robot Vacuum Cleaner in the Indian subcontinent. The company claims the robot can forcefully clean all floor types, avoiding obstructions and preventing damage and scratches.

Asia-Pacific to Witness Highest Growth

- The Asia-Pacific (APAC) region is the fastest-growing artificial intelligence (AI) market globally. By 2023, APAC's investments in new technologies, including AI, are anticipated to account for 40% of its total information communication technology (ICT) investments. AI and ML are causing significant disruptions and transforming the technological landscape in almost every industry domain. The cleaning industry is gradually catching up to adopt this change.
- China and Japan are among the largest suppliers of industrial robots, and they are commercializing research domains for AI. China is investing and promoting projects such as 'Made in China 2025,' 'Action Outline for Promoting the Development of Big Data,' and 'Next Generation Artificial Intelligence Development Plan.'
- India also initiated a National AI Strategy under its NITI Aayog policy to guide the research and development of emerging AI technologies. The growing startup culture in India influenced the growth of AI in the country.
- According to a recent Workplace Smart Cleanliness Study, 75% of workers in Singapore believe that robots are an ideal complement to janitorial staff in ensuring the cleanliness of their workspace.
- SoftBank Robotics partnered with Infogrid to launch the Whiz cleaning robot. Whiz's smart AI cleaning with real-time data on indoor air quality using Infogrid sensors and its analytical dashboard can eliminate the fear of transmission of airborne viruses in the office.

Smart Cleaning And Hygiene Industry Overview

There is moderate competition in the smart cleaning and hygiene market. Many facility management platforms and tech-based

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cleaning service providers are experts in cleaning and disinfecting and are gaining momentum with new product launches, partnerships, and acquisitions. Some significant players offering services in this sector include Neato Robotics, iRobot Corporation, Ecovacs Robotics Co. Ltd, LG Electronics, and more.

- In March 2023, the German cleaning solutions company Karcher began manufacturing more consumer cleaning machines in India to double its production capacity. Karcher offers customers machines that can clean while saving energy and conserving resources. Karcher India includes 13 branches and owns 19 service points throughout India with trained sales and service staff.
- In February 2023, Obode, the smart cleaning solution provider, extended its footprint in North America by launching its smart vacuum robot series. The vacuum robot can self-clean its mop pads, warding off mold and bad smells. The products are integrated with LiDAR technology that identifies different surface types and then applies proper vacuuming, mopping, edge cleaning, and complete mapping functions as needed. It moves seamlessly across rooms and can intelligently switch between sweeping and mopping for safe and effective floor cleaning.
- In October 2022, Softbank Robotics America (SBRA) collaborated with Gausium, a leading autonomous cleaning and service robot solution provider, to distribute indoor automated robotic solutions to the US market. The partnership aims to help clients adopt, integrate, and scale robotic solutions within their organizations.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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