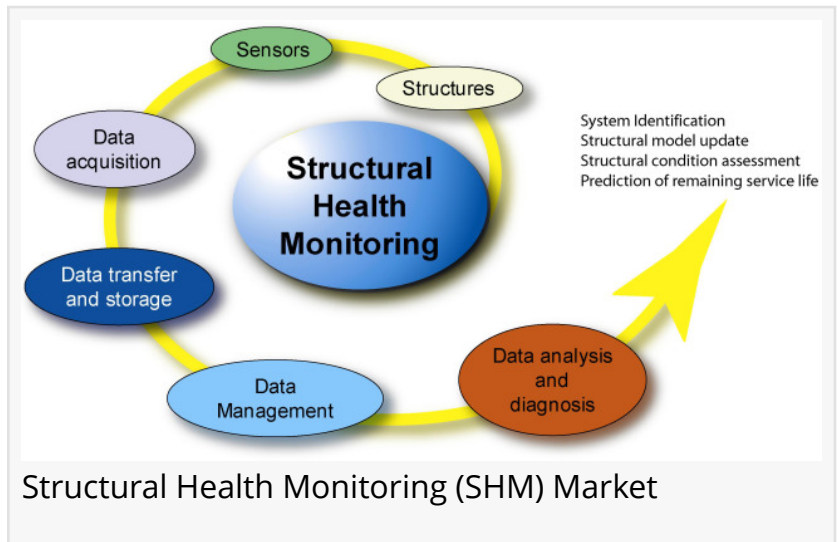


Structural Health Monitoring SHM Market Ensuring Safety and Longevity of Infrastructure Through Technology | 2025 - 2034

*Structural Health Monitoring (SHM):
Ensuring safety and longevity of
infrastructures through advanced sensors
and predictive maintenance techniques.*

CALIFORNIA, CA, UNITED STATES,
February 12, 2025 /EINPresswire.com/
-- "Powering Your Success with
Comprehensive Market Insights"

[Structural Health Monitoring \(SHM\)
Market](#) □□□□□□□□ (□□□□ □□ □□□□)



The global structural health monitoring (SHM) market was valued at approximately USD 3.68 billion in 2024. Projections indicate that the market will reach around USD 27.06 billion by 2034, reflecting a compound annual growth rate (CAGR) of 14.9% over the forecast period from 2025 to 2034.

“

Structural Health Monitoring (SHM): Increasing focus on infrastructure safety and predictive maintenance fuels demand for SHM systems.”

Exactitude Consultancy

The Structural Health Monitoring (SHM) Market is anticipated to grow significantly, expanding from approximately \$3.15 billion in 2023 to \$14.73 billion by 2032, reflecting a CAGR of around 18.7% from 2024 to 2032. This growth is driven by increasing investments in infrastructure and the need for safety and maintenance of aging structures, particularly in sectors like civil engineering and transportation. The integration of advanced technologies such as IoT and AI into SHM

systems enhances real-time monitoring capabilities, further propelling market demand. North America is expected to dominate the market, while the Asia Pacific region is projected to witness the highest growth due to rapid urbanization and government initiatives aimed at improving

Integration of advanced technologies like AI, machine learning, and cloud computing in SHM.

Expanding applications in aerospace, energy, and marine sectors.

4. Challenges:

Data security and privacy concerns due to cloud-based systems.

Lack of skilled professionals for managing and interpreting SHM data.

Standardization issues across global markets.

□□□ 10-25% □□□□□□□□ □□ □□□□□□□□ □□□□□□□□ □

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The Global Structural Health Monitoring (SHM) Market segments and Market Data Break Down are illuminated below:

By Component:

Hardware:

Sensors

Data Acquisition Systems

Communication Devices

Software:

Data Analysis Software

Monitoring and Management Software

Visualization Tools

Services:

Installation and Integration

Maintenance and Support

Consulting and Advisory Services

Training and Education

By Technology:

Wired Structural Health Monitoring

Wireless Structural Health Monitoring

By Application:

Bridges and Dams

Buildings and Stadiums

Vessels and Platforms

Airframes and Wind Turbines

Large Machinery and Equipment

By End User:

Civil

Aerospace

Defense

Energy

Mining

Other End Users

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<https://exactitudeconsultancy.com/reports/45619/structural-health-monitoring-market>

Region Included are: North America (United States, Canada, and Mexico), Europe (Germany,

France, UK, Russia, and Italy), Asia Pacific (China, Japan, Korea, India, and Southeast Asia), South America (Brazil, Argentina, Colombia), Middle East & Africa (Saudi Arabia, UAE, Egypt, Nigeria, and South Africa)

Structural Health Monitoring (SHM)
:

Chapter 01 - Structural Health Monitoring (SHM) Executive Summary

Chapter 02 - Market Overview

Chapter 03 - Key Success Factors

Chapter 04 - Global Structural Health Monitoring (SHM) Market - Pricing Analysis

Chapter 05 - Global Structural Health Monitoring (SHM) Market Background or History

Chapter 06 - Global Structural Health Monitoring (SHM) Market Segmentation (e.g. Type, Application)

Chapter 07 - Key and Emerging Countries Analysis Worldwide Structural Health Monitoring (SHM) Market

Chapter 08 - Global Structural Health Monitoring (SHM) Market Structure & worth Analysis

Chapter 09 - Global Structural Health Monitoring (SHM) Market Competitive Analysis & Challenges

Chapter 10 - Assumptions and Acronyms

Chapter 11 - Structural Health Monitoring (SHM) Market Research Method

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In order to better understand market conditions five forces analysis is conducted that includes the Bargaining power of buyers, Bargaining power of suppliers, Threat of new entrants, Threat of substitutes, and Threat of rivalry.

Political (Political policy and stability as well as trade, fiscal, and taxation policies)

Economical (Interest rates, employment or unemployment rates, raw material costs, and foreign exchange rates)

Social (Changing family demographics, education levels, cultural trends, attitude changes, and changes in lifestyles)

Technological (Changes in digital or mobile technology, automation, research, and development)

Legal (Employment legislation, consumer law, health, and safety, international as well as trade regulation and restrictions)

Environmental (Climate, recycling procedures, carbon footprint, waste disposal, and sustainability)

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Privileged Access Management (PAM) solutions Market:The global Privileged Access Management (PAM) solutions market was valued at approximately USD 3.6 billion in 2024. Projections indicate significant growth, with the market expected to reach around USD 22.69 billion by 2033, reflecting a compound annual growth rate (CAGR) of approximately 21.4% during the forecast period from 2025 to 2033.

<https://exactitudeconsultancy.com/reports/45534/privileged-access-management-solutions-market>

Dark Fiber Market:The global dark fiber market is experiencing significant growth, driven by the escalating demand for high-speed, reliable connectivity across various sectors. In 2024, the market is estimated to be valued at approximately USD 6.4 billion. Projections indicate that by 2034, the market will reach around USD 15.7 billion, reflecting a compound annual growth rate (CAGR) of 9.4% over the forecast period.

<https://exactitudeconsultancy.com/reports/45591/dark-fiber-market>

Smart Street Lights Market: The global Smart Street Lights market is valued at approximately \$3.5 billion in 2024, with projections indicating substantial growth, reaching around \$10 billion by 2034. This represents a Compound Annual Growth Rate (CAGR) of 12% during the forecast period from 2025 to 2034.

<https://exactitudeconsultancy.com/reports/45686/smart-street-lights-market>

Infrared Led Market: Infrared Led Market valued at approximately \$1.5 billion in 2024 estimated value of \$2.8 billion by the end of 2034 (CAGR) of 7.2%.

<https://exactitudeconsultancy.com/reports/45760/Infrared-Led-Market>

larvicides Market: In 2024, the global larvicides market is valued at approximately USD 0.95 billion. Projections indicate that by 2034, the market will reach around USD 1.8 billion, reflecting a Compound Annual Growth Rate (CAGR) of about 6.5% over the

<https://exactitudeconsultancy.com/reports/45772/global-larvicides-market>

Retail Ready Packaging Market: Retail Ready Packaging Market size is expected to be worth around \$70 billion by 2034, from \$40 billion in 2024, growing at a CAGR of 5.8% (2025-2034)

<https://exactitudeconsultancy.com/reports/45902/retail-ready-packaging-market>

Passive Temperature Packaging Market: Passive Temperature Packaging Market is projected to reach a value of approximately \$6.3 billion in 2024 an anticipated market value of around \$12.4 billion by 2034 at a (CAGR) 7.0%.

<https://exactitudeconsultancy.com/reports/46001/passive-temperature-packaging-market>

Feed Palatability Enhancers and Modifiers Market: As of 2024, the global feed palatability enhancers and modifiers market is valued at approximately USD 3.5 billion. The market is projected to grow at a compound annual growth rate (CAGR) of around 5.0% fro

<https://exactitudeconsultancy.com/reports/45637/feed-palatability-enhancers-and-modifiers-market>

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