

Global Structural Health Monitoring Market Size study, by Technology (Wired, Wireless), by Offering (Hardware, Software & Services), by Vertical, by Implementation Method, by Application and by Regional Forecasts 2018-2025

<https://marketpublishers.com/r/G302DE32106EN.html>

Date: September 2018

Pages: 120

Price: US\$ 3,150.00 (Single User License)

ID: G302DE32106EN

Abstracts

Global Structural Health Monitoring Market to reach USD 5.5 billion by 2025.

Global Structural Health Monitoring Market valued approximately USD 1.21 billion in 2016 is anticipated to grow with a healthy growth rate of more than 18.35% over the forecast period 2017-2025. Worldwide infrastructural development, rising government regulations for structural safety, and availability of the inexpensive sensors that reduce the overall cost of structural health monitoring system are the major factors which are driving the growth in the Global Structural Health Monitoring Market. On the other hand, a lack of technical expertise and complications associated with the installation of structural health monitoring systems for large structures are the factors that hamper the growth of the market. Structural Health Monitoring (SHM) technology deals with the implementation of systems and techniques which includes inspection, monitoring, and other processes for damage detection of structures. Its main function is to diagnose the condition of the materials of different parts of structures like rails, buildings, bridges, dams, power plants and so on. Structural health monitoring systems reduce the repairs and maintenance cost during a structure's life cycle. Structural health monitoring is used in numerous industries such as railways, civil engineering, energy, and utilities. This technology encompasses various types of devices including measuring amplifiers, actuators, sensors, analyzing tools, data acquisition system, and transmission software. Structural health monitoring helps to detect damage and improve the structure safety, which results in time and cost saving.

The regional analysis of Global Structural Health Monitoring Market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America and Rest of the World. North America is the leading/significant region across the world in terms of market share. Whereas, owing to the countries such as China, Japan, and India, Asia Pacific region is anticipated to exhibit higher growth rate / CAGR over the forecast period 2018-2025.

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology:

Wired Structural Health Monitoring

Wireless Structural Health Monitoring

By Offering:

Hardware

Software & Services

By Vertical:

Civil Infrastructure

Aerospace & Defence

Energy

Mining

Others

By Implementation Methods:

New Construction

Retrofitting

By Application:

Structural Health Monitoring and Nondestructive Testing

Damage Detection

Crack Detection

Impact Monitoring

Corrosion Monitoring

Strain Monitoring

Hotspot Monitoring

State Sensing

Multimodal Sensing

By Regions:

North America

U.S.

Canada

Europe

UK

Germany

Asia Pacific

China

India

Japan

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2015, 2016

Base year – 2017

Forecast period – 2018 to 2025

The industry is seeming to be fairly competitive. Some of the leading market players include Nova Metrix, Geokon, Campbell Scientific, Cowi, Geocomp, Acellent, Sixense, Pure Technologies, Structural Monitoring Systems, Digitexx, First Sensor, Bridge Diagnostics, Sisgeo, Rst Instruments, Avt Reliability (Aesseal), Geomotion Singapore, Straininstall UK (James Fisher & Sons PLC), Hottinger Baldwin Messtechnik, Kinematics

and so on. Acquisitions and effective mergers are some of the strategies adopted by the key manufacturers. New product launches and continuous technological innovations are the key strategies adopted by the major players.

Target Audience of the Global Structural Health Monitoring Market in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Contents

CHAPTER 1. GLOBAL STRUCTURAL HEALTH MONITORING MARKET DEFINITION AND SCOPE

- 1.1. Research Objective
- 1.2. Market Definition
- 1.3. Scope of The Study
- 1.4. Years Considered for The Study
- 1.5. Currency Conversion Rates
- 1.6. Report Limitation

CHAPTER 2. RESEARCH METHODOLOGY

- 2.1. Research Process
 - 2.1.1. Data Mining
 - 2.1.2. Analysis
 - 2.1.3. Market Estimation
 - 2.1.4. Validation
 - 2.1.5. Publishing
- 2.2. Research Assumption

CHAPTER 3. EXECUTIVE SUMMARY

- 3.1. Global & Segmental Market Estimates & Forecasts, 2015-2025 (USD Billion)
- 3.2. Key Trends

CHAPTER 4. GLOBAL STRUCTURAL HEALTH MONITORING MARKET DYNAMICS

- 4.1. Growth Prospects
 - 4.1.1. Drivers
 - 4.1.2. Restraints
 - 4.1.3. Opportunities
- 4.2. Industry Analysis
 - 4.2.1. Porter's 5 Force Model
 - 4.2.2. PEST Analysis
 - 4.2.3. Value Chain Analysis
- 4.3. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL STRUCTURAL HEALTH MONITORING MARKET, BY TECHNOLOGY

- 5.1. Market Snapshot
- 5.2. Market Performance - Potential Model
- 5.3. Global Structural Health Monitoring Market, Sub Segment Analysis
 - 5.3.1. Wired Structural Health Monitoring
 - 5.3.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 5.3.1.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 5.3.2. Wireless Structural Health Monitoring
 - 5.3.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 5.3.2.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)

CHAPTER 6. GLOBAL STRUCTURAL HEALTH MONITORING MARKET, BY OFFERING

- 6.1. Market Snapshot
- 6.2. Market Performance - Potential Model
- 6.3. Global Structural Health Monitoring Market, Sub Segment Analysis
 - 6.3.1. Hardware
 - 6.3.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 6.3.1.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 6.3.1.3. Sub Segment breakdown estimates & forecasts, 2015-2025 (USD Million)
 - 5.3.1.3.1 Sensors
 - 5.3.1.3.2 Data Acquisition Systems (DAS) and Communication Systems
 - 5.3.1.3.3 Others
 - 6.3.2. Software & Services
 - 6.3.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 6.3.2.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 6.3.2.3. Sub Segment breakdown estimates & forecasts, 2015-2025 (USD Million)
 - 5.3.1.3.4 Software
 - 5.3.1.3.5 Services

CHAPTER 7. GLOBAL STRUCTURAL HEALTH MONITORING MARKET, BY VERTICAL

- 7.1. Market Snapshot
- 7.2. Market Performance - Potential Model
- 7.3. Global Structural Health Monitoring Market, Sub Segment Analysis

7.3.1. Civil Infrastructure

7.3.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)

7.3.1.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)

7.3.1.3. Sub Segment breakdown estimates & forecasts, 2015-2025 (USD Million)

5.3.1.3.6 Dams

5.3.1.3.7 Bridges

5.3.1.3.8 Stadiums

5.3.1.3.9 Buildings

5.3.1.3.10 Tunnels

5.3.1.3.11 Others

7.3.2. Aerospace & Defence

7.3.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)

7.3.2.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)

7.3.2.3. Sub Segment breakdown estimates & forecasts, 2015-2025 (USD Million)

5.3.1.3.12 Aerospace

5.3.1.3.13 Defence

7.3.3. Energy

7.3.3.1. Market estimates & forecasts, 2015-2025 (USD Billion)

7.3.3.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)

7.3.4. Mining

7.3.4.1. Market estimates & forecasts, 2015-2025 (USD Billion)

7.3.4.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)

7.3.5. Others

7.3.5.1. Market estimates & forecasts, 2015-2025 (USD Billion)

7.3.5.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)

CHAPTER 8. GLOBAL STRUCTURAL HEALTH MONITORING MARKET, BY IMPLEMENTATION METHODS

8.1. Market Snapshot

8.2. Market Performance - Potential Model

8.3. Global Structural Health Monitoring Market, Sub Segment Analysis

8.3.1. New Construction

8.3.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)

8.3.1.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)

8.3.2. Retrofitting

8.3.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)

8.3.2.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)

CHAPTER 9. GLOBAL STRUCTURAL HEALTH MONITORING MARKET, BY APPLICATION

- 9.1. Market Snapshot
- 9.2. Market Performance - Potential Model
- 9.3. Global Structural Health Monitoring Market, Sub Segment Analysis
 - 9.3.1. Structural Health Monitoring and Nondestructive Testing
 - 9.3.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.1.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.2. Damage Detection
 - 9.3.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.2.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.3. Crack Detection
 - 9.3.3.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.3.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.4. Impact Monitoring
 - 9.3.4.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.4.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.5. Corrosion Monitoring
 - 9.3.5.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.5.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.6. Strain Monitoring
 - 9.3.6.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.6.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.7. Hotspot Monitoring
 - 9.3.7.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.7.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.8. State Sensing
 - 9.3.8.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.8.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.9. Multimodal Sensing
 - 9.3.9.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 9.3.9.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)

CHAPTER 10. GLOBAL STRUCTURAL HEALTH MONITORING MARKET, BY REGIONAL ANALYSIS

- 10.1. Structural Health Monitoring Market, Regional Market Snapshot (2015-2025)
- 10.2. North America Structural Health Monitoring Market Snapshot

10.2.1. U.S.

10.2.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)

10.2.1.2. Technology breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.2.1.3. Offering breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.2.1.4. Vertical breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.2.1.5. Implementation Method breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.2.1.6. Application breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.2.2. Canada

10.2.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)

10.2.2.2. Technology breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.2.2.3. Offering breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.2.2.4. Vertical breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.2.2.5. Implementation Method breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.2.2.6. Application breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3. Europe Structural Health Monitoring Market Snapshot

10.3.1. U.K.

10.3.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)

10.3.1.2. Technology breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.1.3. Offering breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.1.4. Vertical breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.1.5. Implementation Method breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.1.6. Application breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.2. Germany

10.3.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)

10.3.2.2. Technology breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.2.3. Offering breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.2.4. Vertical breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.2.5. Implementation Method breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.2.6. Application breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.3. France

10.3.3.1. Market estimates & forecasts, 2015-2025 (USD Billion)

10.3.3.2. Technology breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.3.3. Offering breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.3.4. Vertical breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.3.5. Implementation Method breakdown estimates & forecasts, 2015-2025 (USD Billion)

Billion)

10.3.3.6. Application breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.4. Rest of Europe

10.3.4.1. Market estimates & forecasts, 2015-2025 (USD Billion)

10.3.4.2. Technology breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.4.3. Offering breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.4.4. Vertical breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.3.4.5. Implementation Method breakdown estimates & forecasts, 2015-2025 (USD

Billion)

10.3.4.6. Application breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.4. Asia Structural Health Monitoring Market Snapshot

10.4.1. China

10.4.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)

10.4.1.2. Technology breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.4.1.3. Offering breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.4.1.4. Vertical breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.4.1.5. Implementation Method breakdown estimates & forecasts, 2015-2025 (USD

Billion)

10.4.1.6. Application breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.4.2. India

10.4.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)

10.4.2.2. Technology breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.4.2.3. Offering breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.4.2.4. Vertical breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.4.2.5. Implementation Method breakdown estimates & forecasts, 2015-2025 (USD

Billion)

10.4.2.6. Application breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.4.3. Japan

10.4.3.1. Market estimates & forecasts, 2015-2025 (USD Billion)

10.4.3.2. Technology breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.4.3.3. Offering breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.4.3.4. Vertical breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.4.3.5. Implementation Method breakdown estimates & forecasts, 2015-2025 (USD

Billion)

10.4.3.6. Application breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.4.4. Rest of Asia Pacific

10.4.4.1. Market estimates & forecasts, 2015-2025 (USD Billion)

10.4.4.2. Technology breakdown estimates & forecasts, 2015-2025 (USD Billion)

10.4.4.3. Offering breakdown estimates & forecasts, 2015-2025 (USD Billion)

- 10.4.4.4. Vertical breakdown estimates & forecasts, 2015-2025 (USD Billion)
- 10.4.4.5. Implementation Method breakdown estimates & forecasts, 2015-2025 (USD Billion)
- 10.4.4.6. Application breakdown estimates & forecasts, 2015-2025 (USD Billion)
- 10.5. Latin America Structural Health Monitoring Market Snapshot
 - 10.5.1. Brazil
 - 10.5.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 10.5.1.2. Technology breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.5.1.3. Offering breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.5.1.4. Vertical breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.5.1.5. Implementation Method breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.5.1.6. Application breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.5.2. Mexico
 - 10.5.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 10.5.2.2. Technology breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.5.2.3. Offering breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.5.2.4. Vertical breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.5.2.5. Implementation Method breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.5.2.6. Application breakdown estimates & forecasts, 2015-2025 (USD Billion)
- 10.6. Rest of The World
 - 10.6.1. South America
 - 10.6.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 10.6.1.2. Technology breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.6.1.3. Offering breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.6.1.4. Vertical breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.6.1.5. Implementation Method breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.6.1.6. Application breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.6.2. Middle East and Africa
 - 10.6.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 10.6.2.2. Technology breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.6.2.3. Offering breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.6.2.4. Vertical breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.6.2.5. Implementation Method breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 10.6.2.6. Application breakdown estimates & forecasts, 2015-2025 (USD Billion)

CHAPTER 11. COMPETITIVE INTELLIGENCE

11.1. Company Market Share (Subject to Data Availability)

11.2. Top Market Strategies

11.3. Company Profiles

11.3.1. Nova Metrix

11.3.1.1. Overview

11.3.1.2. Financial (Subject to Data Availability)

11.3.1.3. Product Summary

11.3.1.4. Recent Developments

11.3.2. Geokon

11.3.3. Campbell Scientific

11.3.4. Cowi

11.3.5. Geocomp

11.3.6. Acellent

11.3.7. Sixense

11.3.8. Pure Technologies

11.3.9. Structural Monitoring Systems

11.3.10. Digitexx

11.3.11. First Sensor

11.3.12. Bridge Diagnostics

11.3.13. Sisgeo

11.3.14. Rst Instruments

11.3.15. Avt Reliability (Aesseal)

11.3.16. Geomotion Singapore

11.3.17. Straininstall UK (James Fisher & Sons PLC)

11.3.18. Hottinger Baldwin Messtechnik

11.3.19. Kinematics

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