

Infrastructure Monitoring Market by Technology (Wired and Wireless), Offering (Hardware: Sensors, Data Acquisition Systems; Software & Services), Vertical (Civil infrastructure, Energy), Application, and Geography - Global Forecast to 2023

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Abstracts

“Infrastructure monitoring market expected to grow at a CAGR of 17.93% between 2018 and 2023”

The infrastructure market is estimated to grow from USD 1.48 billion in 2018 to USD 3.38 billion by 2023, at a CAGR of 17.93% between 2018 and 2023. The major factors driving the growth of the infrastructure monitoring market include catastrophic failure of the infrastructure that results in loss of lives and incurs higher costs, stringent environmental regulations pertaining to the sustainability of structures, and aging infrastructure and the superior benefits of infrastructure monitoring. However, high installation and monitoring costs, inaccurate results due to errors in readings, slow growth of developing countries are the major restraining factors for the growth of the infrastructure monitoring market.

“Wired infrastructure monitoring technology expected to hold a larger market share by 2023”

Considering today’s scenario, wired infrastructure monitoring systems are widely adopted for different types of structures as they offer reliable connectivity, and there is no limitation on long-distance data transfer. Additionally, wired monitoring systems are already being used for the overall assessment of numerous structures in various countries such as bridges, buildings, and dams.

“Infrastructure monitoring market in APAC expected to grow at the highest rate between 2018 and 2023”

This growth can be due to the rapid infrastructure building activities being undertaken in APAC, mainly China, India, and Japan where infrastructure monitoring paves the way for the modernization of infrastructure. Further, investments from the government sector are also increasing to enhance the infrastructure facility in the country.

In the process of determining and verifying the market size for several segments gathered through secondary research, extensive primary interviews have been conducted with the key industry people. The breakup of the profile of primary participants has been given below:

By Company Type: Tier 1 = 20%, Tier 2 = 45%, and Tier 3 = 35%

By Designation: C-Level Executives = 35%, Directors = 25%, Others=40%

By Region: Americas = 45%, Europe = 25%, APAC = 20%, and RoW = 10%

The report profiles the top players in the infrastructure monitoring market, along with providing their respective market ranking. Prominent players in the market include COWI (Denmark), Pure Technologies (Canada), Structural Monitoring Systems (Australia), Acellent (US), Geocomp (US), Campbell Scientific (US), Nova Metrix (US), Geokon (US), SIXENSE (France), Digitexx (US), Bridge Diagnostics (US), Sisgeo (Italy), RST Instruments (Canada), AVT Reliability (UK), and Geomotion Singapore (Singapore).

Research Coverage:

The infrastructure monitoring market based on technology has been segmented into wired and wireless.

The infrastructure monitoring market based on offering covers hardware, and software and services.

The infrastructure monitoring market based on vertical comprises civil infrastructure, aerospace & defense, energy, mining, and others (including industrial machinery, automotive, transportation, and marine structures).

The geographic analysis has been done with regard to the Americas, Europe, APAC, and RoW.

Reasons to Buy This Report:

From an insight perspective, this research report has focused on various levels of analysis—market ranking of top players, value chain analysis, company profiles that provide the basic views on the competitive landscape, emerging and high-growth segments of the infrastructure monitoring market, high-growth regions, and market dynamics—such as drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

Market development: Comprehensive information about lucrative emerging markets and analysis of the infrastructure monitoring market across regions

Market diversification: Exhaustive information about new products, untapped geographic regions, and recent developments in the overall infrastructure monitoring market

Competitive assessment: In-depth assessment of ranking, strategies, products of the leading players in the infrastructure monitoring market

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About

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Some of the major players in the infrastructure monitoring market are

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Geokon (US)

SIXENSE (France)

Digitexx (US)

Bridge Diagnostics (US)

Sisgeo (Italy)

RST Instruments (Canada)

AVT Reliability (UK)

Geomotion Singapore (Singapore)

The civil infrastructure segment expected to hold the largest share of the infrastructure monitoring market by 2023

The civil infrastructure facilities include numerous critical structures such as bridges, dams, tunnels, highways, and buildings. All these structures are directly related to the overall demographic and economic growth of any country. Therefore, many governments are taking initiatives to monitor the overall health of the structure. Also, at present, major countries in different regions such as the US, the UK, Germany, Japan, China, India, Qatar, and Saudi Arabia are heavily investing in building new infrastructural facilities, thereby ultimately growing the economy of the country. For such increasing infrastructure facilities, there would be growing opportunities for the infrastructure monitoring market players.

The market for software and services expected to grow at a higher rate between 2018 and 2023

With the increasing importance of large civil projects and frequent occurrences of structural failure, infrastructure monitoring systems are becoming more and more crucial. The basic approach of any infrastructure monitoring system is to continuously collect the data (over the longer period of time) about the overall condition of the structure from various installed sensors. This sensory data includes loading, stress, strain, acceleration, temperature, and video signal, among others. Furthermore, it is challenging for structural engineers to obtain, process, store, and analyze such a huge volume of data. To resolve this challenge, the software platform, customized software application, and software algorithm are being adopted. For example, software such as MATLAB and SCADA play a crucial role in early damage detection; they determine the damages at an early stage and facilitate necessary repair to maintain a high level of safety.

Americas expected to hold the largest share of the infrastructure monitoring market by 2023

The increased use of monitoring systems in the US is a key factor behind the market growth in the Americas. The governments of the South and North American countries are taking initiatives for the adoption of monitoring systems for different applications. Aging infrastructure in the US and fast-growing infrastructure facilities in Brazil and Canada are driving the market in this region.

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