

# **Intelligent Infrastructure Monitoring Market Size, Share & Trends Analysis Report By Component (Hardware, Software, Services), By Deployment, By Industry Vertical, By Application, By Region, And Segment Forecasts, 2025 - 2030**

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## **Abstracts**

This report can be delivered to the clients within 3 Business days

### **Market Size & Trends**

The global intelligent infrastructure monitoring market size was estimated at USD 4.29 billion in 2024 and is expected to grow at a CAGR of 15.3% from 2025 to 2030. The growth of this market is driven by the rising demand for real-time monitoring and predictive maintenance across industries such as transportation, energy, and smart cities. Increasing concerns over infrastructure safety, operational efficiency, and asset longevity are accelerating the adoption of smart monitoring solutions. Governments and enterprises are investing heavily in IoT-enabled sensors, AI-driven analytics, and cloud computing to enhance system reliability and minimize downtime. Furthermore, the integration of 5G networks with edge computing has improved data collection and processing capabilities, enabling faster and more accurate decision-making, thereby further propelling the adoption of smart monitoring solutions.

A key trend in the market is the rapid adoption of AI and machine learning in infrastructure monitoring. AI-powered predictive analytics enables organizations to detect potential failures in advance, optimizing maintenance schedules and reducing operational costs. Digital twins, which create virtual replicas of physical assets, are also gaining traction, facilitating real-time simulations to enhance infrastructure resilience. Additionally, the expansion of smart cities is driving demand for

intelligent monitoring solutions across traffic management, energy distribution, and public safety, accelerating urban planning and sustainability initiatives worldwide.

The growing shift toward cloud-based solutions is further propelling the intelligent infrastructure monitoring industry. Cloud computing enables centralized data storage, remote monitoring, and seamless IoT integration, making it the preferred choice for industries seeking scalable and cost-effective solutions. Advancements in cybersecurity are also addressing data privacy and security concerns, encouraging greater adoption of cloud-based monitoring platforms. As industries embrace digitalization, the convergence of AI, IoT, and cloud technologies is reshaping infrastructure management practices.

Leading market players are expanding their product portfolios and forging strategic partnerships to strengthen their market presence. Companies such as Siemens, Hitachi, and Schneider Electric are investing in AI-driven monitoring solutions to enhance predictive maintenance capabilities. Cisco and IBM are integrating edge computing and cybersecurity features to improve real-time data processing and threat detection. Huawei and Microsoft are leveraging cloud platforms to deliver scalable, intelligent monitoring solutions. Mergers, acquisitions, and R&D investments continue to shape the competitive landscape, driving innovation and technological advancements in the intelligent infrastructure monitoring industry.

## Global Intelligent Infrastructure Monitoring Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global intelligent infrastructure monitoring market report based on the component, deployment, industry vertical, application, and region:

### Component Outlook (Revenue, USD Million, 2018 - 2030)

Hardware

Software

Services

### Deployment Outlook (Revenue, USD Million, 2018 - 2030)

On-premises

Cloud

Industry Vertical Outlook (Revenue, USD Million, 2018 - 2030)

IT & Telecommunications

Manufacturing & Industrial Automation

Healthcare & Smart Hospitals

Transportation & Logistics

Energy & Utilities

Government & Smart Cities

Aerospace & Defense

Others

Application Outlook (Revenue, USD Million, 2018 - 2030)

Predictive Maintenance

Analytics & Insights

Smart Security & Surveillance

Automated Incident Detection & Response

Others

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Asia Pacific

China

Japan

India

South Korea

Australia

Latin America

Brazil

Middle East & Africa (MEA)

Saudi Arabia

UAE

South Africa

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