SMART RAILWAYS MARKET


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1 INTRODUCTION

1.1 KEY TAKE-AWAYS

• To provide an analysis of smart railways market with emphasis on high growth technologies, solutions and systems, types, and regional verticals

• Impact analysis of market dynamics that describes factors currently driving as well as restraining growth of the market, along with their impact analysis

• To deliver competitive intelligence from market analysis and devise revenue growth strategies from the market size and forecast statistics

• Analyze the opportunities for the stakeholders through study of the competitive landscape in the smart railways market

• To forecast the revenues of the global market and its various sub-markets with respect to five main geographical regions of North America (NA), Europe, Asia-Pacific (APAC), Latin America (LA) and Middle East and Africa (MEA)

• To strategically analyze each sub-market of the global smart railways market with respect to individual growth trends and contribution to the overall market

• To analyze market opportunities for stakeholders by identifying high-growth segments, potential regional markets, industry trends, future growth prospects of the global smart railways market

• To strategically profile the key players of rail technology ecosystem, and to comprehensively analyze their products and core competencies in each segment

• To track and analyze the market scenario on the basis of technological developments, product launches, and mergers & acquisitions

• To understand the intelligent infrastructure system and its potential to transform rail management by enabling a greater understanding of the interconnectivity of systems and the implications of events, resulting in improved reliability, safety and efficiency
1.2 REPORT DESCRIPTION

The demand for safe, fast and reliable rail services continues to be the reason for concern for all the countries across the globe. Lack of operational efficiency and reliability, safety and security issues, aging railway systems and practices are haunting various countries to bring about a change in their existing rail infrastructure. The global rail industry struggles to meet increasing demand for freight and passenger transportation due to lack of optimized use of rail network and inefficient use of rail assets. This is expected to induce rail executives to build rail systems that are smarter. The smart railways research report consists of the future market trends in the railway transportation technologies. The report provides a comprehensive examination of market drivers for railways as a smart transportation infrastructure investment, including an assessment of the various approaches being taken in key countries around the globe. It also presents detailed analysis, market sizing and forecasting of emerging rail technology sub-markets.

The smart railways research report also provides an in-depth analysis of proposed and on-going projects by various countries on technologies and IT-solutions for setting up smart railways infrastructure. The report is segmented into various smart tech rail solutions, applications, and devices and components. This smart railways research report analyzes global adoption trends, future growth potential, key drivers, competitive outlook, restraints, opportunities, rail transportation ecosystem, and best practices in this market.

This report speaks about the expected market revenue for the various software solutions and components involved in rail infrastructure system. It also highlights the revenue potential of the various professional services, integration services and cloud services offered by railway solution vendors. The report consists of the opportunity analysis of various types of smart railway solutions such as passenger and freight information system, rail traffic management system, rail operations management system, advance security monitoring system, rail communication and networking system, smart ticketing system and rail analytics system.

The report brings out the railway solutions business potential across different regions such as North America, Asia-Pacific (APAC), Europe, Latin America and Middle East and Africa (MEA). It further segments each regional market by solutions types and industry verticals, and forecasts

1.3 MARKETS COVERED

FIGURE 1

SMART RAILWAYS MARKET: SEGMENTATION, BY TYPES

Source: MarketsandMarkets Analysis
SMART RAILWAYS: MARKET SIZE, ANALYSIS AND FORECAST BY SOLUTIONS

2.1 INTRODUCTION

With increased challenges in terms of intermodal operations, regulatory compliance, safety, demand issues in transportation sector, railway transportation would evolve as preferred transportation modes globally. Acute challenges lie ahead for the rail industry in terms of meeting forecast growth in demand, ensuring cost control and value for money, maintaining safety and security in the face of increased external pressures, achieving environmental sustainability targets and meeting evolving customer expectations and needs.

The figure given above highlights the smart railways solution market revenue and Y-o-Y growth rate on the basis of solution types, from 2013 to 2018. The smart railways solution market is expected to exhibit Y-o-Y growth rate from XX% to XX% for the period 2013 to 2018.

Source: MarketsandMarkets Analysis
3  SMART RAILWAYS: MARKET SIZE, ANALYSIS AND FORECAST BY DEVICES AND COMPONENTS

3.1  INTRODUCTION

Rail operators are facing many challenges. Passengers are demanding to be connected, safe, entertained and informed. They want access to information and entertainment at the station and on the trains. Smart railways solutions such as PIS, freight information system, rail traffic management system, rail operations management system, advance security monitoring system, rail communication and networking system, smart ticketing system, and rail analytics system, which enhance the operational efficiency, safety and passenger comfort; requires integration of smart railways components and devices. Smart railways devices and components segment is classified into fivesub segments, namely, video surveillance, rail sensors, networking and connectivity devices, smart cards and multimedia displays.

![Figure 3: Smart Railways Market: Segmentation, by Devices and Components](source: MarketsandMarkets Analysis)
The table given above highlights the expected revenues from the smart railways devices and components market on the basis of product types, from 2013 to 2018. The multimedia display market is estimated to grow from $XX million in 2013 to $XX million in 2018, at a CAGR of XX% from 2013 to 2018. The video surveillance market is estimated to grow from $XX million in 2013 to $XX million in 2018, at a CAGR of XX% from 2013 to 2018.
4 SMART RAILWAYS: MARKET SIZE, ANALYSIS AND FORECAST BY SERVICES

4.1 INTRODUCTION

At present, railway transportation carries billions of tons of freight and tens of billions of passengers each year, and rail companies fully rely on efficient and reliable asset operations, rail infrastructure to successfully meet the growing demand. Information and commutation technology has played a major role in providing asset and operations management services for rail companies. In order to build smarter railway system infrastructure, railway experts are demanding smart railway operation management services. With the need for the automation of the surveillance systems, PIS, rail traffic management system, freight information system, advance security monitoring system, rail communication and networking system, smart ticketing system and rail analytics system, the need for unique support services is on the rise. The services segment is divided into three sub segments, namely, professional services, integration services and cloud services.

Source: MarketsandMarkets Analysis
The figure given above highlights the smart railways services market revenue and Y-o-Y growth rate on the basis of service types, from 2013 to 2018. The smart railways services market is expected to exhibit Y-o-Y growth rate from XX% to XX% for the period 2013 to 2018.

**TABLE 2**

**SMART RAILWAYS MARKET, BY SERVICES, 2013 – 2018, Y-O-Y (%)**

<table>
<thead>
<tr>
<th>Types</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
<th>2017</th>
<th>2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional Services</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
</tr>
<tr>
<td>Integration Services</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
</tr>
<tr>
<td>Cloud Services</td>
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<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
</tr>
</tbody>
</table>

Source: MarketsandMarkets Analysis

The table given above highlights the Y-o-Y growth of the smart railways services market revenue on the basis of types, from 2013 to 2018. The cloud services market is expected to exhibit Y-o-Y growth rate from XX% to XX% for the period 2013 to 2018.
5 SMART RAILWAYS: MARKET SIZE, ANALYSIS AND FORECAST BY REGIONS

5.1 INTRODUCTION

Geographical analysis of the smart railways market delves into the distribution of solutions, devices and components, and services across the five major regional segments, namely, North America, APAC, Europe, Latin America and MEA. The major growth factors that would be driving smart railways market includes focus of improving and upgrading the overall railway infrastructure network, huge investments both in the urban and inter-urban segments, regulation to adopt safety measures, and growing demand for smart transportation by all regions. The region specific market analysis, industry trends, market potentials and forecasts on the basis of solutions, devices and components, and services are discussed below.

FIGURE 5

SMART RAILWAYS MARKET: SEGMENTATION, BY REGIONS

Source: MarketsandMarkets Analysis
### TABLE 3

**SMART RAILWAYS MARKET REVENUE, BY REGIONS, 2013 – 2018 ($BILLION)**

<table>
<thead>
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<th></th>
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</tr>
</thead>
<tbody>
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<td>XX</td>
<td>XX</td>
<td>XX</td>
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<td>APAC</td>
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</tr>
<tr>
<td>Latin America</td>
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<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
</tr>
<tr>
<td>MEA</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
</tr>
<tr>
<td>Total</td>
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<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
<td>XX</td>
</tr>
</tbody>
</table>

Source: MarketsandMarkets Analysis

The table given above highlights the expected revenues from the smart railways market revenue on the basis of regions, from 2013 to 2018. The MEA market is estimated to grow from $XX billion in 2013 to $XX billion in 2018, at a CAGR of XX% from 2013 to 2018.
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