

Road Safety Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Road Safety Market Summary

Introduction

Road safety solutions encompass comprehensive technology systems designed to monitor, manage, and improve traffic safety through automated enforcement, incident detection, and intelligent transportation management. These integrated platforms include red light and speed enforcement systems, incident detection and response capabilities, automatic number/license plate recognition (ANPR/ALPR) technology, and various other safety monitoring solutions. Modern road safety systems serve as critical infrastructure for reducing traffic fatalities, managing traffic flow, and supporting law enforcement objectives in urban and highway environments. The market is driven by alarming global road safety statistics, with approximately 1.35 million people dying in road traffic crashes annually according to the World Health Organization, and an additional 50 million suffering non-fatal injuries. The economic impact of road traffic injuries costs most countries approximately 3% of their gross domestic product, creating strong incentives for government investment in safety technologies. Additionally, increasing vehicle volumes, urbanization pressures, and the integration of smart city initiatives accelerate demand for intelligent road safety solutions.

Market Size and Growth Forecast

The global road safety market is projected to reach between USD 3.0 billion and USD 6.0 billion in 2025, with a compound annual growth rate (CAGR) of 14% to 19% through 2030. This robust growth reflects increasing government investments in traffic safety

infrastructure and the critical importance of reducing road fatalities and injuries through technology solutions.

Regional Analysis

North America: The United States leads with extensive highway safety programs and urban traffic management systems, while Canada focuses on winter road safety and rural highway monitoring solutions.

Europe: Germany, France, and the United Kingdom dominate the market, driven by stringent safety regulations, comprehensive speed enforcement programs, and advanced traffic management systems supporting Vision Zero initiatives.

Asia Pacific: China experiences rapid expansion due to massive urbanization and vehicle growth requiring extensive traffic safety infrastructure, while India implements large-scale road safety improvement programs. Japan emphasizes precision traffic monitoring and autonomous vehicle preparation.

Rest of the World: Brazil enhances highway safety systems for major transportation corridors, while Middle Eastern countries, particularly the UAE and Saudi Arabia, invest in smart traffic management as part of broader smart city initiatives.

Service Analysis

Professional Services: Expected growth of 15-20%, driven by system design, integration, and consulting requirements for complex traffic management implementations. Trends focus on AI-powered analytics, predictive maintenance, and performance optimization services.

Managed Services: Projected growth of 13-18%, linked to outsourced operations, monitoring, and maintenance of road safety systems. Developments emphasize remote monitoring capabilities, automated incident response, and outcome-based service agreements.

Type Analysis

Red Light & Speed Enforcement: Expected growth of 14-19%, valued for automated violation detection and traffic calming effects. Trends focus on AI-enhanced detection accuracy, mobile enforcement systems, and integration with smart city platforms.

Incident Detection & Response: Projected growth of 16-21%, key for rapid emergency response and traffic flow management. Advances highlight computer vision analytics, automated emergency alerts, and predictive incident modeling.

Automatic Number/License Plate Recognition (ANPR/ALPR): Anticipated growth of 15-20%, including vehicle tracking, stolen vehicle detection, and access control applications. Developments prioritize edge computing integration, real-time processing, and privacy-compliant implementations.

Others: Expected growth of 12-17%, encompassing weather monitoring, pedestrian detection, and vehicle classification systems. Trends focus on IoT sensor integration, environmental monitoring, and multi-modal safety applications.

Key Market Players

Leading firms include Conduent, providing comprehensive traffic management and enforcement solutions; Verra Mobility, specializing in speed and red light enforcement systems; Cubic Corporation, offering intelligent transportation systems and traffic management platforms; FLIR Systems (now Teledyne FLIR), advancing thermal imaging and vehicle detection technologies; IDEMIA, providing identity and security solutions including ANPR systems; Dahua Technology, offering video surveillance and traffic monitoring solutions; Kapsch TrafficCom, specializing in intelligent transportation systems and tolling solutions; Jenoptik, focusing on traffic enforcement and monitoring technologies; Motorola Solutions, advancing public safety communications and video analytics; Siemens, providing comprehensive traffic management and smart city solutions; Swarco, offering traffic technology and road marking solutions; Redflex Holdings, specializing in traffic enforcement cameras and systems; Sensys Gatso Group, providing speed and red light enforcement solutions; Teledyne FLIR, advancing thermal and visible imaging technologies; and Vitronic, focusing on traffic enforcement and vehicle inspection systems. These companies drive market evolution through AI integration, edge computing, cloud-based analytics, and smart city integration capabilities.

Porter's Five Forces Analysis

Threat of New Entrants: Moderate, as technology advancement enables new players to enter with innovative solutions, though government procurement processes and certification requirements favor established vendors.

Threat of Substitutes: Low, as automated road safety systems have no direct substitutes for large-scale traffic monitoring and enforcement, though manual enforcement and alternative traffic management approaches exist.

Bargaining Power of Buyers: High, with government agencies having significant negotiating power due to public procurement processes, budget constraints, and long-term contract requirements.

Bargaining Power of Suppliers: Low to Moderate, due to multiple technology vendors and competitive camera and sensor markets, though specialized AI and analytics capabilities can increase supplier power.

Competitive Rivalry: High, with intense competition on accuracy, reliability, cost-effectiveness, and integration capabilities driving continuous innovation and competitive pricing.

Market Opportunities and Challenges

Opportunities: Global initiatives to reduce road fatalities, including the UN Decade of Action for Road Safety 2021-2030, create sustained government investment in safety technologies and infrastructure improvements. Smart city development and digital transformation initiatives provide integration opportunities for comprehensive traffic management and public safety systems. The emergence of connected and autonomous vehicles creates new opportunities for vehicle-to-infrastructure communication and cooperative safety systems. Artificial intelligence and machine learning advancement enable more sophisticated violation detection, predictive analytics, and automated incident response capabilities. Climate change adaptation and extreme weather monitoring create demand for environmental sensing and weather-related safety systems.

Challenges: Limited government budgets and competing infrastructure priorities create constraints on road safety technology investments, particularly in developing regions. Privacy concerns and civil liberties considerations create regulatory challenges and public resistance to comprehensive monitoring systems. Technical challenges in achieving high accuracy rates while minimizing false positives require continuous technology improvement and calibration. Maintenance and operational costs of distributed sensor networks and camera systems create ongoing budget pressures. Integration complexity with existing traffic management systems and law enforcement

processes can extend implementation timelines and increase costs. Political and policy changes can impact enforcement priorities and technology investment strategies, creating market uncertainty.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

3.1 Research Scope

3.2 Research Sources

3.2.1 Data Sources

3.2.2 Assumptions

3.3 Research Method

Chapter Four Market Landscape

4.1 Market Overview

4.2 Classification/Types

4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

5.1 Introduction

5.2 Drivers

5.3 Restraints

5.4 Opportunities

5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

6.1 Upstream/Suppliers Analysis

6.2 Road Safety Analysis

6.2.1 Technology Analysis

6.2.2 Cost Analysis

6.2.3 Market Channel Analysis

6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

7.1 Latest News

7.2 Merger and Acquisition

- 7.3 Planned/Future Project
- 7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST ROAD SAFETY MARKET IN NORTH AMERICA (2020-2030)

- 8.1 Road Safety Market Size
- 8.2 Road Safety Market by End Use
- 8.3 Competition by Players/Suppliers
- 8.4 Road Safety Market Size by Type
- 8.5 Key Countries Analysis
 - 8.5.1 United States
 - 8.5.2 Canada
 - 8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST ROAD SAFETY MARKET IN SOUTH AMERICA (2020-2030)

- 9.1 Road Safety Market Size
- 9.2 Road Safety Market by End Use
- 9.3 Competition by Players/Suppliers
- 9.4 Road Safety Market Size by Type
- 9.5 Key Countries Analysis
 - 9.5.1 Brazil
 - 9.5.2 Argentina
 - 9.5.3 Chile
 - 9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST ROAD SAFETY MARKET IN ASIA & PACIFIC (2020-2030)

- 10.1 Road Safety Market Size
- 10.2 Road Safety Market by End Use
- 10.3 Competition by Players/Suppliers
- 10.4 Road Safety Market Size by Type
- 10.5 Key Countries Analysis
 - 10.5.1 China
 - 10.5.2 India
 - 10.5.3 Japan

- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST ROAD SAFETY MARKET IN EUROPE (2020-2030)

- 11.1 Road Safety Market Size
- 11.2 Road Safety Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Road Safety Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST ROAD SAFETY MARKET IN MEA (2020-2030)

- 12.1 Road Safety Market Size
- 12.2 Road Safety Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Road Safety Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL ROAD SAFETY MARKET (2020-2025)

- 13.1 Road Safety Market Size
- 13.2 Road Safety Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Road Safety Market Size by Type

CHAPTER 14 GLOBAL ROAD SAFETY MARKET FORECAST (2025-2030)

- 14.1 Road Safety Market Size Forecast
- 14.2 Road Safety Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Road Safety Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

- 15.1 Conduent
 - 15.1.1 Company Profile
 - 15.1.2 Main Business and Road Safety Information
 - 15.1.3 SWOT Analysis of Conduent
 - 15.1.4 Conduent Road Safety Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 Verra Mobility
 - 15.2.1 Company Profile
 - 15.2.2 Main Business and Road Safety Information
 - 15.2.3 SWOT Analysis of Verra Mobility
 - 15.2.4 Verra Mobility Road Safety Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 Cubic Corporation
 - 15.3.1 Company Profile
 - 15.3.2 Main Business and Road Safety Information
 - 15.3.3 SWOT Analysis of Cubic Corporation
 - 15.3.4 Cubic Corporation Road Safety Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 FLIR Services
 - 15.4.1 Company Profile
 - 15.4.2 Main Business and Road Safety Information
 - 15.4.3 SWOT Analysis of FLIR Services
 - 15.4.4 FLIR Services Road Safety Revenue, Gross Margin and Market Share (2020-2025)
- 15.5 IDEMIA
 - 15.5.1 Company Profile

- 15.5.2 Main Business and Road Safety Information
 - 15.5.3 SWOT Analysis of IDEMIA
 - 15.5.4 IDEMIA Road Safety Revenue, Gross Margin and Market Share (2020-2025)
 - 15.6 Dahua Technology
 - 15.6.1 Company Profile
 - 15.6.2 Main Business and Road Safety Information
 - 15.6.3 SWOT Analysis of Dahua Technology
 - 15.6.4 Dahua Technology Road Safety Revenue, Gross Margin and Market Share (2020-2025)
 - 15.7 Kapsch TrafficCom
 - 15.7.1 Company Profile
 - 15.7.2 Main Business and Road Safety Information
 - 15.7.3 SWOT Analysis of Kapsch TrafficCom
 - 15.7.4 Kapsch TrafficCom Road Safety Revenue, Gross Margin and Market Share (2020-2025)
 - 15.8 Jenoptik
 - 15.8.1 Company Profile
 - 15.8.2 Main Business and Road Safety Information
 - 15.8.3 SWOT Analysis of Jenoptik
 - 15.8.4 Jenoptik Road Safety Revenue, Gross Margin and Market Share (2020-2025)
 - 15.9 Motorola Solutions
 - 15.9.1 Company Profile
 - 15.9.2 Main Business and Road Safety Information
 - 15.9.3 SWOT Analysis of Motorola Solutions
 - 15.9.4 Motorola Solutions Road Safety Revenue, Gross Margin and Market Share (2020-2025)
 - 15.10 Siemens
 - 15.10.1 Company Profile
 - 15.10.2 Main Business and Road Safety Information
 - 15.10.3 SWOT Analysis of Siemens
 - 15.10.4 Siemens Road Safety Revenue, Gross Margin and Market Share (2020-2025)
- Please ask for sample pages for full companies list

Tables & Figures

TABLES AND FIGURES

Table Abbreviation and Acronyms
Table Research Scope of Road Safety Report
Table Data Sources of Road Safety Report
Table Major Assumptions of Road Safety Report
Figure Market Size Estimated Method
Figure Major Forecasting Factors
Figure Road Safety Picture
Table Road Safety Classification
Table Road Safety Applications
Table Drivers of Road Safety Market
Table Restraints of Road Safety Market
Table Opportunities of Road Safety Market
Table Threats of Road Safety Market
Table Covid-19 Impact For Road Safety Market
Table Raw Materials Suppliers
Table Different Production Methods of Road Safety
Table Cost Structure Analysis of Road Safety
Table Key End Users
Table Latest News of Road Safety Market
Table Merger and Acquisition
Table Planned/Future Project of Road Safety Market
Table Policy of Road Safety Market
Table 2020-2030 North America Road Safety Market Size
Figure 2020-2030 North America Road Safety Market Size and CAGR
Table 2020-2030 North America Road Safety Market Size by Application
Table 2020-2025 North America Road Safety Key Players Revenue
Table 2020-2025 North America Road Safety Key Players Market Share
Table 2020-2030 North America Road Safety Market Size by Type
Table 2020-2030 United States Road Safety Market Size
Table 2020-2030 Canada Road Safety Market Size
Table 2020-2030 Mexico Road Safety Market Size
Table 2020-2030 South America Road Safety Market Size
Figure 2020-2030 South America Road Safety Market Size and CAGR
Table 2020-2030 South America Road Safety Market Size by Application
Table 2020-2025 South America Road Safety Key Players Revenue

Table 2020-2025 South America Road Safety Key Players Market Share

Table 2020-2030 South America Road Safety Market Size by Type

Table 2020-2030 Brazil Road Safety Market Size

Table 2020-2030 Argentina Road Safety Market Size

Table 2020-2030 Chile Road Safety Market Size

Table 2020-2030 Peru Road Safety Market Size

Table 2020-2030 Asia & Pacific Road Safety Market Size

Figure 2020-2030 Asia & Pacific Road Safety Market Size and CAGR

Table 2020-2030 Asia & Pacific Road Safety Market Size by Application

Table 2020-2025 Asia & Pacific Road Safety Key Players Revenue

Table 2020-2025 Asia & Pacific Road Safety Key Players Market Share

Table 2020-2030 Asia & Pacific Road Safety Market Size by Type

Table 2020-2030 China Road Safety Market Size

Table 2020-2030 India Road Safety Market Size

Table 2020-2030 Japan Road Safety Market Size

Table 2020-2030 South Korea Road Safety Market Size

Table 2020-2030 Southeast Asia Road Safety Market Size

Table 2020-2030 Australia Road Safety Market Size

Table 2020-2030 Europe Road Safety Market Size

Figure 2020-2030 Europe Road Safety Market Size and CAGR

Table 2020-2030 Europe Road Safety Market Size by Application

Table 2020-2025 Europe Road Safety Key Players Revenue

Table 2020-2025 Europe Road Safety Key Players Market Share

Table 2020-2030 Europe Road Safety Market Size by Type

Table 2020-2030 Germany Road Safety Market Size

Table 2020-2030 France Road Safety Market Size

Table 2020-2030 United Kingdom Road Safety Market Size

Table 2020-2030 Italy Road Safety Market Size

Table 2020-2030 Spain Road Safety Market Size

Table 2020-2030 Belgium Road Safety Market Size

Table 2020-2030 Netherlands Road Safety Market Size

Table 2020-2030 Austria Road Safety Market Size

Table 2020-2030 Poland Road Safety Market Size

Table 2020-2030 Russia Road Safety Market Size

Table 2020-2030 MEA Road Safety Market Size

Figure 2020-2030 MEA Road Safety Market Size and CAGR

Table 2020-2030 MEA Road Safety Market Size by Application

Table 2020-2025 MEA Road Safety Key Players Revenue

Table 2020-2025 MEA Road Safety Key Players Market Share

Table 2020-2030 MEA Road Safety Market Size by Type
Table 2020-2030 Egypt Road Safety Market Size
Table 2020-2030 Israel Road Safety Market Size
Table 2020-2030 South Africa Road Safety Market Size
Table 2020-2030 Gulf Cooperation Council Countries Road Safety Market Size
Table 2020-2030 Turkey Road Safety Market Size
Table 2020-2025 Global Road Safety Market Size by Region
Table 2020-2025 Global Road Safety Market Size Share by Region
Table 2020-2025 Global Road Safety Market Size by Application
Table 2020-2025 Global Road Safety Market Share by Application
Table 2020-2025 Global Road Safety Key Vendors Revenue
Figure 2020-2025 Global Road Safety Market Size and Growth Rate
Table 2020-2025 Global Road Safety Key Vendors Market Share
Table 2020-2025 Global Road Safety Market Size by Type
Table 2020-2025 Global Road Safety Market Share by Type
Table 2025-2030 Global Road Safety Market Size by Region
Table 2025-2030 Global Road Safety Market Size Share by Region
Table 2025-2030 Global Road Safety Market Size by Application
Table 2025-2030 Global Road Safety Market Share by Application
Table 2025-2030 Global Road Safety Key Vendors Revenue
Figure 2025-2030 Global Road Safety Market Size and Growth Rate
Table 2025-2030 Global Road Safety Key Vendors Market Share
Table 2025-2030 Global Road Safety Market Size by Type
Table 2025-2030 Road Safety Global Market Share by Type

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