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North America AI for Public Security and Safety Market Forecast to 2030 –Regional Analysis – By Application (Preventative Policing, Criminal Investigation, Combating Terrorism, Emergency Response and Disaster Management, and Others), End User (Law Enforcement Agencies, Federal Intelligence and Security, and Others), and Component (Solution and Services)

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Abstracts

The North America AI for public security and safety market is expected to grow from US$ 4,476.81 million in 2023 to US$ 26,704.24 million by 2030. It is estimated to grow at a CAGR of 29.1% from 2023 to 2030.
Growing Number of Smart Cities and Developments in Road Traffic Management Drives North America AI for Public Security and Safety Market
City corporations and authorities are modifying their processes, technological capabilities, and approaches to serve citizens efficiently and meet the ever-changing needs of societies. Artificial intelligence (AI) can improve the processes defined to detect security risks and effectively respond to them. Advancements in video surveillance technology can also yield productive results. In smart cities, AI-integrated technologies are often employed to perform tasks that humans would otherwise find difficult. Besides, a smart city is a fast-growing concept in urban setups, combining technology and innovation to improve citizens' quality of life and promote sustainability. The US has the highest number of smart cities, with 50 cities that have adopted smart city technologies, followed by China and India with 45 and 25 smart cities, respectively. According to Optics Mag, the US surveillance camera market value is expected to reach US$ 21 billion in 2023. A study by Comparitech states that Delhi (India) has over 1,800

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surveillance cameras per square mile. AI-powered video analytics aid in the intelligent and accurate classification of objects (people, cars, etc.) and navigation on roads. When machines tag data in live and recorded video, responders and investigators can identify the people, objects, or movements more quickly and easily, saving hours of trawling through surveillance footage. Such data insights can save the lives of first responders and civilians during emergencies. Public safety is much more than law enforcement and emergency responses, and it also includes proactive measures taken by cities to prevent different incidents and mishaps. For instance, the University of Tennessee in Chattanooga conducted research to better understand the reasons for road accidents and ways of preventing them. With the help of multiple sensors and historical data, the Center for Urban Informatics and Progress of this university developed an AI-based model that could be used to predict accidents and improve resource planning and deployment to manage crises and avoid accidents. The data was shared on a map-based collaboration platform where organizations across the city—from emergency service departments to the Department of Transportation—could access the model, view the results, and plan accordingly. Security systems help respond to incidents and enhance safety measures while providing information to the stipulated authorities to improve operations and overall experiences. The system architecture consists of AI modules with machine learning (ML) algorithms, IoT technology and sensors, smart drones, intelligent video surveillance, data analysis, and cybersecurity modules, which can efficiently protect citizens and their data from criminals while providing high speed and accuracy. Therefore, the growing number of smart cities, transit organizations, and public-facing businesses are expected to boost North America AI for public security and safety market.

North America AI for Public Security and Safety Market Overview

Various countries in North America are continuously deploying AI technologies to improve public safety and security. By 2030, a typical North American city is likely to rely significantly upon AI for public security and safety. The major AI-based technologies implemented in these cities include a camera for surveillance that can detect anomalies detecting possible crime, the use of drones, and predictive policing. There are legitimate concerns that policing incorporating AI can become overbearing or pervasive in some contexts; however, AI can enable policing to become more targeted when needed. AI can also help remove some of the biases inherent in human decision-making. Further, CompStat, the New York Police Department’s first tool focused on predictive policing, is used by many police departments across the country. In North America, AI is also used by the US Transportation Security Administration (TSA), Coast Guard, and many other security agencies to increase their reliance to enable significant efficiency and efficacy improvements. For instance, the TSA is working on a project to redo airport security in US airports. TSA uses DARMS, a system that is designed to improve the efficiency and

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efficacy of airport security by relying on personal information to assign security based on a person's risk categorization and the number of flights taken. The aim of this project is to construct a tunnel that checks people's security while they walk through it. Thus, the growing use of AI-based technology for airport security is fueling the growth of the market in North America.

North America AI for Public Security and Safety Market Revenue and Forecast to 2030 (US$ Million)

North America AI for Public Security and Safety Market Segmentation

The North America AI for public security and safety market is segmented into application, end user, component, and country.

Based on application, the North America AI for public security and safety market is segmented into preventative policing, criminal investigation, combating terrorism, emergency response and disaster management, and others. In 2023, the preventative policing segment registered a largest share in the North America AI for public security and safety market.

Based on component, the North America AI for public security and safety market is bifurcated into solution and services. In 2023, the solution segment registered a larger share in the North America AI for public security and safety market.

Based on end-use industry, the North America AI for public security and safety market is segmented into law enforcement agencies, federal intelligence and security, and others. In 2023, the law enforcement agencies segment registered a largest share in the North America AI for public security and safety market.

Based on country, the North America AI for public security and safety market is segmented into the US, Canada, Mexico. In 2023, the US segment registered a largest share in the North America AI for public security and safety market.

Hexagon AB, Atos SE, Motorola Solutions Inc, Honeywell International Inc, Hitachi Ltd, Veritone Inc, International Business Machines Corp, XenonStack Pvt Ltd, Voyager Labs Ltd, and Thales SA are the leading companies operating in the North America AI for public security and safety market.

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