

Connected Worker Market worth \$24.81 billion by 2030, growing at a CAGR of 18.98% - Exclusive Report by 360iResearch

The Global Connected Worker Market to grow from USD 6.17 billion in 2022 to USD 24.81 billion by 2030, at a CAGR of 18.98%.

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EINPresswire.com/ -- The "[Connected Worker Market](#) by Component (Hardware, Services, Software), Technology (Bluetooth, Cellular, Low-Power Wide-Area Network), Deployment, End User - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.



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The connected worker includes technologies that enable seamless integration and communication between workers across industries, including manufacturing, construction, oil & gas, retail, and healthcare. The connected worker solution empowers employees with real-time access to information, resources, and expert support while working on the job site or remotely. Additionally, connected worker solutions enhance productivity, safety, efficiency, and decision-making capabilities by leveraging advanced devices such as wearables, AR/VR headsets, IoT sensors & beacons, and artificial intelligence (AI) & machine learning (ML) algorithms. Increasing demand for industrial Internet of Things (IIoT) across industries to streamline processes and improve efficiency is increasing the demand for connected worker solutions. Growing government initiatives to improve worker safety are increasing the demand for connected

worker solutions that provide real-time monitoring of employee health parameters and offer immediate alerts in case of emergencies. Data security & privacy concerns with the usage of connected worker solutions hamper market growth. The growing development of novel connected worker solutions with improved data security measures and ensuring compliance with global regulations is expected to create opportunities for market growth.

Technology: Rising preference for Bluetooth technology in connected worker systems for providing workers real-time access to data

Bluetooth is a widely adopted short-range wireless technology that enables communication between devices within a radius of up to 10 meters. It is commonly used for hands-free communication headsets, asset-tracking tags, and wearable devices like smartwatches. Bluetooth technology benefits indoor localization and proximity-based services, providing workers with real-time access to vital information while fostering collaboration. Cellular networks enable long-range wireless connectivity for connected worker devices through standards like 4G LTE and the emerging 5G technology. Cellular networks allow workers to access essential information on their mobile devices, even from remote locations or within extensive industrial facilities. Low-Power Wide-Area Network (LPWAN) offers extensive coverage with minimal power consumption. It connects low-power IoT devices such as asset trackers, environmental sensors, and smart meters. RFID location triangulation technology uses radio-frequency identification (RFID) tags to determine the position of assets or workers within an area. This technology assists in asset management, worker safety, and operational efficiency by providing accurate location information for assets and personnel in complex industrial environments. Wi-Fi offers high-speed internet connectivity over short to medium ranges, facilitating seamless data transfer between these devices and fostering collaboration among workers through video conferencing and file sharing. Wireless Field Area Networks (WFAN) provide robust connectivity over large geographical regions with minimal downtime or interference. Implementation of WFANs using technologies like cellular or LPWAN enables secure data transmission and remote monitoring for critical infrastructure while ensuring worker safety. Zigbee is a low-power mesh networking protocol primarily used for IoT applications requiring short-to-medium range communication between devices, facilitating secure data transfer amongst numerous connected devices while maintaining low energy consumption.

Component: Increasing usage of software in connected worker systems for data analytics

Hardware forms the foundation of connected worker systems by enabling seamless communication between workers and their environment. Key subcategories within hardware include wearable devices such as smart glasses, smart watches, headsets, temperature sensors, humidity sensors, and communication equipment such as smartphones and radios. Wearable devices empower workers with hands-free access to information while sensors ensure real-time data collection in hazardous areas. The services component encompasses implementation support, including training and integration, consulting services, and managed services such as maintenance and troubleshooting. Depending on an organization's specific requirements or expertise levels, service providers offer tailored solutions to streamline adoption processes while optimizing technology usage. The software is the backbone of connected worker systems,

integrating hardware data with advanced analytics. Key subcategories include device asset tracking management, data analytics, and collaboration tools. These software solutions allow organizations to leverage captured data effectively, improving decision-making processes while enhancing overall productivity. Organizations operating in hazardous industries prioritize hardware investments for employee safety through wearable devices or sensors. In contrast, businesses with limited internal expertise lean towards service providers offering comprehensive implementation support. Lastly, companies seeking to maximize data-driven insights from connected worker solutions focus on robust software platforms that integrate analytics and collaboration tools.

End-User: Growing application of connected worker solutions in the oil & gas industry to improve on-site efficiency

In the construction industry, connected worker solutions are essential for improving on-site safety, communication, and efficiency. Key applications for this sector include wearable devices, IoT-enabled equipment monitoring, and location-tracking systems to help prevent accidents and streamline operations. The need-based preferences in this segment focus on ensuring worker safety and reducing downtime caused by miscommunications or equipment issues. The manufacturing sector benefits from connected worker technology through more effective management of production facilities and increased worker productivity. Key applications in this segment are mobile communication platforms that facilitate real-time collaboration between employees on the factory floor, maintenance technicians using augmented reality (AR) tools for troubleshooting equipment issues, and predictive analytics for optimizing both human resources and machinery performance. Connected worker technology is vital within the mining industry due to the hazardous nature of underground operations. In this context, the main applications involve remote monitoring systems that track worker location and vital signs, as well as IoT-enabled sensors for monitoring environmental conditions within mines. For the oil & gas industry, connected worker solutions play a critical role in improving on-site efficiency and ensuring compliance with strict regulations. Key applications include remote asset monitoring for identifying maintenance needs, wearable devices that provide real-time data on workers' locations and vital signs in hazardous environments, and mobile collaboration platforms for streamlining communications between onshore teams and offshore platforms.

Deployment: Expanding adoption of cloud-based connected worker system to support seamless integration

Cloud-based connected worker systems leverage remote servers to store and manage data while providing access to tools and applications through the internet. Cloud solutions allow organizations to easily scale their connected worker programs, accommodating fluctuations in workforce size or expanding operations without significant investments in additional hardware or software. Cloud platforms often support seamless integration with other enterprise systems such as ERP, CRM, HRM, etc., enabling streamlined data sharing across functions. On-premise connected worker solutions involve deploying and managing the required hardware, software, and infrastructure within the organization's data center or facility. On-premise deployment ensures full control over data storage and access for organizations with stringent data security

requirements or regulatory compliance concerns. On-premise systems provide greater flexibility for tailoring connected worker solutions to specific organizational needs and processes. Cloud-based systems offer scalability, cost efficiency, and ease of integration, while on-premise solutions ensure data security, customization capabilities, and network performance.

Regional Insights:

America represents a highly developing landscape for a connected worker market due to significant investments in IoT technologies and the growing need for remote monitoring and collaboration within industries. The European Union has been proactive in encouraging digital innovation through funding programs, including Horizon 2020. With numerous industrial sectors across EU member countries, from manufacturing and construction to energy, there is a substantial opportunity for connected worker applications. Countries in Europe are taking significant steps by investing in Industry 4.0 initiatives that promote smart factories where connected worker technologies play a pivotal role. In the MEA region, countries such as Saudi Arabia and the United Arab Emirates (UAE) are rapidly embracing digital transformation, thereby creating a platform for the connected worker market. Initiatives, including Saudi Arabia's Vision 2030 and UAE's National Industry 4.0 Strategy, aim to drive industrial development and boost economic diversification by adopting advanced technologies. Asia-Pacific's strong manufacturing base and increasing investments in IoT technologies are driving demand for connected worker solutions in Asia-Pacific.

FPNV Positioning Matrix:

The FPNV Positioning Matrix is essential for assessing the Connected Worker Market. It provides a comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Connected Worker Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

Key Company Profiles:

The report delves into recent significant developments in the Connected Worker Market, highlighting leading vendors and their innovative profiles. These include 3M Company, Accenture PLC, Augmentir, Inc., Autodesk, Inc., AVEVA Group Limited by Schneider Electric SE, Avnet, Inc.,

Connect Up Technologies, LLC, Dozuki, Inc., Fujitsu Limited, Guardhat Inc., Hexagon AB, Honeywell International Inc., Innovapptive Inc., Intellinium, Magellan X Pte. Ltd., Mobile Lean S.L., Oracle Corporation, Poka inc. by IFS AB, QAD Inc., SAP SE, Smart Track S.R.L., Smartflow Nederland BV, Tata Consultancy Services Limited, Trimble, Tulip Interfaces, Inc., Vandrigo Solutions Inc., Wipro Ltd., and Zebra Technologies Corp..

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Market Segmentation & Coverage:

This research report categorizes the Connected Worker Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Component, market is studied across Hardware, Services, and Software. The Hardware is further studied across Hearing Protection Devices, Mobile Devices, Protective Textiles, Smart Glasses, and Smart Headgear. The Services is further studied across Consulting and Training & Implementation. The Software is further studied across Mobile Learning, Workforce Analytics, and Workforce Task Management. The Hardware is projected to witness significant market share during forecast period.

Based on Technology, market is studied across Bluetooth, Cellular, Low-Power Wide-Area Network, RFID Location Triangulation, Wi-Fi, Wireless Field Area Network, and Zigbee. The Bluetooth is projected to witness significant market share during forecast period.

Based on Deployment, market is studied across Cloud and On-Premise. The On-Premise is projected to witness significant market share during forecast period.

Based on End User, market is studied across Construction, Manufacturing, Mining, and Oil & Gas. The Mining is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Americas commanded largest market share of 37.55% in 2022, followed by Europe, Middle East & Africa.

Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview
5. Market Insights
6. Connected Worker Market, by Component
7. Connected Worker Market, by Technology
8. Connected Worker Market, by Deployment
9. Connected Worker Market, by End User
10. Americas Connected Worker Market
11. Asia-Pacific Connected Worker Market
12. Europe, Middle East & Africa Connected Worker Market
13. Competitive Landscape
14. Competitive Portfolio
15. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the Connected Worker Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Connected Worker Market?
3. What is the competitive strategic window for opportunities in the Connected Worker Market?
4. What are the technology trends and regulatory frameworks in the Connected Worker Market?
5. What is the market share of the leading vendors in the Connected Worker Market?
6. What modes and strategic moves are considered suitable for entering the Connected Worker Market?

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