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Europe Vehicle-to-Infrastructure (V2I) Communication Market Size study, By Component (Hardware, Software, Services), By Application (Dedicated Short-Range Communications, Cellular, Wi-Fi, WiMAX, Bluetooth) and Country Forecasts 2022-2032

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Abstracts

Europe Vehicle-to-Infrastructure (V2I) Communication Market is valued approximately USD 120 million in 2023 and is anticipated to grow with a healthy growth rate of more than 39.30% over the forecast period 2024-2032. Vehicle-to-Infrastructure (V2I) Communication is a technology enabling vehicles to exchange data with nearby infrastructure elements such as traffic signals, road signs, and other vehicles. The key objectives of V2I communication include improving road safety, reducing traffic congestion, promoting environmental sustainability, and enhancing the overall driving experience. The rising focus on sustainable transportation is gaining attention in the Europe Vehicle-to-Infrastructure (V2I) Communication Market. European countries are committed to reducing carbon emissions and promoting sustainable transportation. V2I communication contributes to these goals by optimizing traffic flow, reducing idle times, and lowering fuel consumption. These environmental benefits support the Europe's stringent emissions regulations and sustainability targets.

The Europe Vehicle-to-Infrastructure (V2I) Communication Market is driven by the rising number of smart city initiatives and supportive government initiatives toward the improvement of traffic efficiency across the region. European cities are increasingly adopting smart city initiatives that integrate V2I communication to improve urban mobility. These initiatives involve the deployment of smart traffic management systems, connected street lighting, and intelligent transportation networks to reduce congestion, enhance safety, and improve the overall efficiency of urban transportation. In addition, European governments and the European Union are actively supporting the deployment

of V2I technologies through various regulations and funding programs. Policies such as the European Cooperative Intelligent Transport Systems (C-ITS) directive are driving the implementation of V2I communication infrastructure, aiming to enhance road safety and traffic efficiency. However, the high pricing of vehicle-to-infrastructure (v2i) communication and limited availability of V2I-enabled infrastructure is going to impede the overall demand for the market during the forecast period 2024-2032.

The key countries considered for the Europe Vehicle-to-Infrastructure (V2I) Communication market study include the UK, Germany, France, Italy, Spain, and the Rest of Europe. In 2023, Germany was the largest regional market in terms of revenue owing to factors such as increasing demand of automotive safety features across the region. The German government is actively investing in smart infrastructure and transportation systems. Initiatives such as the National Platform for Electric Mobility and the Digital Auto Roadmap are promoting the deployment of V2I technologies to enhance road safety and traffic efficiency. These government-backed programs provide funding and support for developing and deploying V2I communication systems, benefiting the entire European market. Furthermore, the market in UK is expected to develop at the fastest rate over the forecast period 2024-2032.

Major market players included in this report are:
NXP Semiconductors N.V.
Phinia Inc
Infineon Technologies AG
Company 4
Company 5
Company 6
Company 7
Company 8
Company 9
Company 10
The detailed segments and sub-segment of the market are explained below:

By Component
Hardware
Software
Services

By Application
Dedicated Short-Range Communications

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Cellular
Wi-Fi
WiMAX
Bluetooth

By Region:
Europe
UK
Germany
France
Spain
Italy
ROE

Years considered for the study are as follows:
Historical year – 2022
Base year – 2023
Forecast period – 2024 to 2032

Key Takeaways:
Market Estimates & Forecast for 10 years from 2022 to 2032.
Annualized revenues and Country level analysis for each market segment.
Detailed analysis of geographical landscape with Country level analysis.
Competitive landscape with information on major players in the market.
Analysis of key business strategies and recommendations on future market approach.
Analysis of competitive structure of the market.
Demand side and supply side analysis of the market.

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