

Successful R&I in Europe 2024 11th European Networking Event

Industry 4.0 and Customized IoT Data Analysis Platform

BEWELL TECHNOLOGY

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1. Bewell Technology

Our Works

- AI & Image Processing
- IoT
- Digital Twin
- Optimization
- Digitalization
- Asset Tracking Solution
- Smart Agriculture Application
- Smart City Application
- Health Application
- Digital Transformation Services



- We have developed our own gateway named 'Bewell Gateway,' providing us with comprehensive capabilities.
- With this gateway, we can receive data from sensors and edge devices, and through the gateway, we can transfer this data to the cloud environment.
- The versatility of our system extends to various protocols such as Bluetooth, LoRa, NB-IoT, MQTT, and more, enabling versatile and adaptable data transmission.
- With our gateway integrated with a 5G module, data transfer can be conducted using 5G infrastructure.

2. Project Idea

Industry 4.0 and Customized IoT Data Analysis Platform

- In this project, the aim is to create an IoT data analysis platform in factories using advanced technologies that have not been previously utilized.
- The objective is to create a sophisticated IoT data analysis platform tailored to the specific needs of factory environments, utilizing the data collected within these facilities.
- This platform will provide a specially designed data analysis infrastructure to optimize production processes, improve product development, and understand customer needs.



3. Project Objectives

- **Create a Customized Data Analysis Infrastructure:** Develop a customized data analysis infrastructure to process data collected in factories. This infrastructure will be designed to solve unique challenges and meet high-level data processing requirements. For instance, it may include big data analytics, graphical data visualization, and rapid data processing capabilities.
- **Utilize Complex Machine Learning and Analytics:** Utilize advanced machine learning and analytical techniques to better understand and solve complex issues in production processes. This will offer opportunities to further optimize factory operations. For example, custom solutions can be developed to predict equipment failures, enhance quality control, or increase production efficiency.
- **Push the Boundaries of Industry 4.0:** The project aims to advance the concept of Industry 4.0 by providing unprecedented levels of automation and data integration in factories. This will make factories smarter and more connected, potentially increasing productivity.

4. Project Benefits

The customized data analysis infrastructure and advanced analytical techniques will help solve complex issues in factories more quickly and effectively. This can lead to improved product quality and increased production efficiency.

By encouraging data-driven decision-making in factories, the project will lead to more strategic and optimized business processes, resulting in cost savings and increased productivity. Efficient resource utilization can also be achieved through data analysis.

The use of more advanced technologies will differentiate project owners from competitors, enabling them to respond more quickly to customer needs and gain an advantage in the market.

The use of advanced technologies can contribute to sustainability goals, such as energy efficiency and reduced resource consumption. More efficient production processes can reduce environmental impacts.

By focusing on advanced data analysis and IoT technologies, the project will enhance the capacity to respond to future industry demands, supporting long-term growth.

Looking for;

- Companies from Various Sectors such as Automotive, Packaging, Chemical, Textiles, Etc.
- Technology Providers
- Industry 4.0 Experts
 - ✓ Partner Type: Industry, SME, Research Institute, Universities
 - ✓ Countries: All European countries

Calls

- Related calls
 - ✓ Digital, Industry and Space

Thank You

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