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Global Industrial XR Tech Company COMPANY PROFILE



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We create safe and efficient industrial sites based on augmented reality and digital twin technology.

Global Industrial XR Tech Company

MIT INTRODUCE

CORE VALUES





MIT provides solutions to diverse contemporary problems in the industrial field using XR(eXtended Reality) technology. We dispense safer and more efficient solutions to various problems that occur in the industrial field with our cutting–edge, state–of–the–art technology. Our wide–ranging experience across multiple projects, from large enterprises to small and medium–sized enterprises, and our high level of understanding of various industries have proven that our unique and special XR technology developed inhouse guarantees satisfaction to all our customers



We are facing the wave of the 4th Industrial Revolution bringing sweeping and innovative changes throughout the economy and society even as productivity rapidly improves through the convergence of information and communication technologies (ICT) with products and services rendering them intelligent. We believe that these changes will come to and affect industries at a faster pace.

At MIT Co., Ltd., we are working with you to create a 3C world of Connect (hyperconnectivity), Cyber (virtualization), and Control (mutual control) so that our customers can quickly respond to various changes. We think from the customer's perspecitive with exclusive technology and an innovative mind to provide the information service that customers need and promise to do our best for the development of our customers. BUSINESS SITES



We provide safe and efficient solutions that support the growth of our customers and our performance is based on MIT's XR, DT (Extended Reality, Digital Twin) technology and our experiences with their implementation. Our system enables on-site safety, and quality, and optimizes factory operations across various industries.

Industrial Innovation for the Future

2018

- MIT Co., Ltd. established
 Research Institute established
- Venture Business Certification acquired
- Applied for a patent

Established Year

2018

mit

 Entered the Smart Factory Market

2019

Received Enterprise Smart Factory Supplier Pool Approval from the Korea Technology and Information Promotion Agency for SMEs

- Signed an MOU Agreement with EGG SG Pte Ltd
- Won the 2019 Korea Leader
 Awards (Smart Factory Division)
 Won the 2019 Korea Sports
 Seoul Innovation Power Korea
 Award

Number of Employee

222

2020 • Released Enterprise Software

- Developed and released the MIT
- MES Platform
- Registered 5 copyrights.
 Signed an MOU contract with
 Schneider Electric
- Registered as a partner of Hyundai Electric
- KBS 1 TV Treasure House

 <Your Dream> aired
- Applied for a national patent
- Awarded the Ulsan Startup Festival TOP10 Ulsan Small and Medium Business Administration Award - Awarded the Ulsan Metropolitan City Mayor Award for Business Merit on the 14th Shipbuilding and Marine Day
- (...) Received the Ulsan Metropolitan City Mayor's Award for Startup Merit

A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER OWNE

C. Received an appreciation plaque for building a smart factory

• Entered the XR/DT market

- (Extended Reality / Digital Twin)
- Development and release of the MIT XR Platform
- Development and demonstration
 of XR convergence content
- Registered 5 copyrights.
 Signed an MOU contract with
- PTC • Registered as a partner of
- Hyundai Heavy Industries
- Participated in 4 exhibitions
- Awarded for 2021 Korea Future Management in Smart Factory Category
- Received the Ulsan Metropolitan City Mayor Awards for Global ICT company

Certification and Awards



Sales growth for 5 consecutive years (Sales were up 15times since the company was founded)

- Registered 4 copyrights.
 Signed an MOU contract with
- Teamviewer
- Registered as a partner of Hyundai Mipo Dockyard

2022

- Registered as a partner of SK Energy
- Registered as a partner of SeAH
 Besteel
- Participated in 4 exhibitions
- Successfully held 35 overseas export buyer meetings
- Awarded the 2022 Software Industry Development Award by the Minister of Science and Technology Information and Communication
- (.) Won the Grand Prize of the Shipbuilding & Marine ICT Convergence Small and Medium Forum Research Group.
- (.) Received the Ulsan Metropolitan City Mayor Awards

- Scaled the business significantly and attracted investment
- Registered as an SK geocentric partner
- Registered as an Seabesteel

2023

- Expended and moved to MIT Ulsan Center
- Establised the MIT Seoul Center
- Participated in domestic exhibitions (5 Exhibitions)
- Attending CES which is the largest international trade show



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Intellectual Property Rights

No the second second

As of the end of December 2022"

COMPANY PARTNERS

MIT solves customers' problems based on the technology principles of Connect, Cyber, and Control. We are leading change as a participant spearheading the 4th Industrial Revolution across several industries, from shipbuilding/heavy industry to energy, petrochemicals, and steel.

The customers of MIT are listed below:



Steel/Machinery

MIT's core solution is used as an essential

24/7 process companies

tool for improving safety and productivity in

MIT's XR solution improves customer

become safer and more efficient.

satisfaction by enabling an industrial site to

COMPANY BUSINESS AREA

Check out the endless practical applications of XR solutions that can solve various Problem areas across your business.

Get acquainted with cases of practical application that can be used in many different types of businesses.



BEST IT PARTNER MIT

virtualization technology called XR.

MIT COMPANY PROFILE

MIT enables the creation of an optimal and smart industrial site by implementing the management method

We create a safer and more efficient industrial site with advanced

of 4M (Man, Machine, Material, Mthod) to determine the safety and quality of industrial sites using the

- 6 -

MIT XR SOLUTION

- MIT VIEWER (
- MIT SAFETY
- MIT MANUAL
- MIT ASSIST
- MIT GIS
- MIT QUALIT

MIT DIGITAL TWIN

- MIT CRANE ANTI-COLLISION
- MIT SMART FARM
- MIT OFFSHORE WIND POWER

MIT XR FACTORY

- MIT XR SMART FACTORY
- MIT DT SMART FACTORY

Create MIT is committed to creating a digital future to support customers with safer and more efficient industrial sites

Digital Future

MIT provides the best value service to customers through products that give the highest level of satisfaction.

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Co., Ltd. Solution

MAR SOLUTION

MIT Viewer

2 | MIT Safety

3 | MIT Manual

MIT Assist 5 MIT GIS

4

6 | MIT Quality

- 8 -

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Code

XR contents





CONTENTS

MIT Viewer reproduces the industrial site as a virtual model and monitors its operating status by linking facility data in real time through PLC and sensors to improve productivity







* This screen is the Augmented Reality Viewer system screen of MIT Co., Ltd. applied to the industry.

Efficient operations management of the workplace

Facility IoT information visualization

Minimize work errors

Support for various Smart devices

FUNCTION -



• 3D Space Building Technology Extracts spatial information data through the 3D camera scan method to create accurate content



• IoT Data Visualization Visualize the data collected from IoT sensors in real time to understand the current situation

MIT Viewer visualizes complex equipment operations, inspection of items, and maintenance processes as easy-to-understand XR contents for efficient operation and management of the workplace thus increasing the convenience of grasping the current status of the workplace.

By augmenting the IoT data of the facility using XR at the actual facility, real-time facility data can be checked along with the actual status of the facility to reduce work time and efficiently operate field work

Through facility and data XR visualization, work information is intuitively augmented from the field facilities to minimize work errors, optimize the reporting process through real-time reporting on site, increase the process management efficiency, and visualize and respond to alarmbased information such as the location of problems and types of abnormalities. This process improves the speed of facility operations.

Work can be performed with smart devices optimized for the specific field, such as smartphones, tablets, and industrial smart goggles.

 Visualize a broad target audience It visualizes content through various target recognition methodologies such as Area

Target, Image Target, Mark Target, and QR

• Real-time data linkage

Tag-based real-time PLC data is collected,

configured as a user screen, and linked to



• Quick Content Creation Response speed is improved by visualizing alarm information such as equipment abnormality, problem location, and abnormality type



Device Support

Supports various devices such as smart phones, smart tablets, and smart glasses

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things and take action.





CONTENTS

MIT Safety increases safety management efficiency of industrial sites and processes by reducing the risk of safety accidents and improving response speed by visualizing alarm information which identifies issues like the location of problems and abnormal types of problems,







* This screen is the Augmented Reality Safety system screen of MIT Co., Ltd. applied to the industry.

Prevent access to Hazardous areas

Emergency Response

Hazard notification

Encourage wearing Of safety gear

FUNCTION

This monitors the facility status in real time to check dangerous situations and when a dangerous situation occurs, it notifies workers and guides them in taking action or evacuating them to get out of dangerous situations.

If and when a worker approaches a dangerous area, the worker gets a notification and a virtual fence is triggered to prevent accidents that may

occur when approaching the dangerous area. In addition, when

In the event of an emergency, safety facilities (fire hydrants, emergency exits, etc.) may be obscured by facilities or difficult to locate. Safety

facilities are expressed as XR content and workers can quickly check

approaching a dangerous area, an alarm is generated to block access.

Before work, guidance is provided on the safety equipment necessary for the process and workers are encouraged to wear the gear to prevent accidents caused by not wearing safety equipment in advance.



• Real-time anomaly detection

mproves response speed by visualizing alarm information such as the location of the problem and the type of anomaly

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• Data analysis Predictice through

Prediction through data pattern analysis and support for forecasting service and maintenance



• Location-based geographic System Provides detailed information on the location of the facility where the failure occurred through the navigation function



Hazardous zone Warning

Notification is provided relating to dangerous situations by voice notifications and displays through wearable devices and smart tablets



• Prevent safety accidents

In the event of an emergency, an emergency stop is possible through the PLC control signal with administrator authority



• Visual Safety Fearures

Supports safety fences that prohibit access to worker danger zones that support precise location recognition with visual functions

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MIT Manual visualizes the delivery of equipment work manuals with XR contents, quickly guides work and process changes in the field, and supports immediate application in the field.







* This screen is the Augmented Reality Manual system screen of MIT Co., Ltd. applied to the industry.

Easy knowledge distribution

Accelerate work in the field by providing clear information

XR-based immersive Training manual Training using XR-based immersive manuals is possible for complex and difficult-to-experience training in the field. It helps unskilled workers to perform their work safely and accurately even when entering the site and helps unskilled workers solve problems on their own when problems arise.

By simplifying content production based on 3D model animation, field workers

can learn the work process intuitively and easily to achieve a good learning

effect. Further, simulation supports better job training and improves the work

MIT Manual is an XR-based immersive manual that helps field workers intuitively

understand the work process by digitizing the knowhow of experts as AR

MIT Manual provides information by visualizing complex facility construction,

inspection items, and maintenance processes using easy-to-understand XR

contents for efficient operations and management of the workplace so that the

content that even unskilled workers can easily understand.

field workers can perform their tasks guickly and accurately.

Intuitve XR-based Educational simulation

FUNCTION -



• easy-to understand manual Based on 3D model animation, it supports simple maintenance sequences and methodical guidance



• Location-based work Order Supports expert work processes and GPS functions



speed of even unskilled persons.

• Easily create educational content Edit and distribute manuals using a simple editing tool which supports version management



• Simplify Knowledge transfers Simplifies content creation and allows field workers to intuitively nderstand the work process



• Create Fast Content 90% reduction in time and cost compared to before



• Easy Knowledge distribution All created content can be used on various devices (PC, Mobile devices, AR Glasses, Documents)

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CONTENTS

MIT Assist allows you to respond to the failure situation in real time through remote experts and smart devices when external experts are needed (in the domestic and overseas branches, etc.) in case of complicated facility failures. MIT Assist can drastically reduce the number of unnecessary business trips





* This screen is the Augmented Reality Assist system screen of MIT Co., Ltd. applied to the industry.

Virtual Remote Support from anywhere

Minimize Downtime and Increase Productivity

Time and cost savings

FUNCTION



 Remote Video Call Collaborative support between field workers and remote experts using video



• Provide recording function This facilitates a knowledge transfer system through remote support recording

A breakdown or plant downtime, or production downtime will result in high costs that can occur in a fraction of the time. When this happens, service operations become a particularly time-consuming issue. The MIT Assist solution can solve these problems through its interactive capabilities

Reducing travel costs while minimizing downtime provides a fast return on investment, Remote support helps transfer knowledge to any location without missing vital information. It has the effect of narrowing the knowledge gap within the company and reducing decision-making delays among employees

When an on-site problem occurs, remote technical experts and on-site staff can

share the situation virtually in real-time to solve the problem in real-time without

having to travel to the site. It improves the facility operation rate and productivity

by reducing the equipment maintenance time and general maintenance time.



MIT Assist enables communications while showing field information to remote experts in real time. In addition, since it is possible to check the site remotely along with the head-office engineers and related companies, real-time decision-making

is possible by conducting multi-party meetings remotely without business trips for difficult and complex processes. Additionally, corporates can minimize unnecessary travel expenses and costs associated with repeat visits.



 Multilateral Collaborative Guarantees a high call success rate and HD-level picture quality even with multi-user access



• Reduce unnecessary business trips Using multi-party meetings, real-time remote decision-making is possible without travel even in complex processes.



• AR drawing and AR pointing support Reducing communication errors and improving work accuracy by directly marking where it is necessary through AR drawing and pointing

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• DIY Workflow Editing

Reduce costs and time by producing edits of workflows in a fast and efficient AR workflow format

5/MIT GIS

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CONTENTS

This is the XR space that reduces time and costs by converging the global navigation system (GPS), geographic information system (GIS), facility management system, IoT, and 5G technologies to manage facilities in factories and cities and guickly respond to safety accidents. It is an information platform.







Effective visualization of data

Accident **Prevention Support**

Confirm information using XR

Data Integration Maintenance

FUNCTION



• Higher accuracy Higher accuracy in measurements is possible through the high-performance software



 Improves work efficiency Integrated management is possible through the MIT-GIS system without having to go through cumbersome construction work every time.



• Building a safe work environment Supports the establishment of a social safety net through integrated management of facilities, one of the areas of safety vulnerability



• Applied to various fields This process of visualization can be applied to various facilities

MIT GIS is a geographic information system used to collect, monitor and provide more accurate information in real time in various fields, including utility companies and statistical surveys, such as electric power and city gas.

A system that detects gas leaks caused by damage and supports accident prevention by measuring the internal and external locations and abnormalities of the complex gas pipeline network with sensors, saving both costs and time.

By converging the major ground and underground facility drawings and the XR spatial information platform with a focus on gas piping, it supports checking the realistic gas facility pipe network information linked to the surrounding topography and features at once anywhere in the city gas supply area.

It provides a comprehensive, customised system that inputs and stores the collected geographic information data in the server, analyzes it and aggregates it in various ways, and provides them to the users.

• Safety accident prevention Supports accident prevention by detecting gas leaks caused by pipe and facility damage



• 3D space construction technology Produces accurate content by extracting spatial information data through the 3D camera scan method





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This is an XR-based quality control platform that reduces defect rates through threedimensional product inspection, shortens the inspection process and delivery time, respectively, and it can be applied to 3D vision inspection machines, bending machines, automatic welding machines, and multi-joint robots.

Applied to articulated robots

CONTENTS



Application of automatic welding machine



Applied to 3D vision inspection machine



Applied to the banding machine



XR quality management platform

Highest accuracy

Easy and convenient inspection

In the process of checking quality, there are many cases where both hands are used by the workers to perform duties. MIT Quality allows you to check issues right in front of your eyes with AR by leaving

MIT Quality augments the 3D model on top of the actual equipment

The intuitive MIT Quality guality management system is a solution

that can improve quality and accuracy by taking immediate action

to effectively check and predict the quality after production.

Inspection Report

FUNCTION



• Inspection process innovation Visualizes inspection information by linking with the MES by measuring with the 3D vision inspection machine



 Smart production facility Explosion-proof temperature and catalyst control system controls



and issued.

 Inspection of three-dimensional workpieces

Perform three-dimensional workpiece inspection by accelerating image processing

through real-time defect analysis.



• Sharing inspection information Maximize the efficiency of inspection information management of customers and second and third-tier suppliers



• Welding inspection automation Automatic linkage of inspection information by welding using an automatic welding machine



• Inspection report The inspection report written by hand is automatically issued by the system



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| MIT Crane Anti-Collision

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2 | MIT Smart Farm

- 15 -

3 | MIT Offshore Wind Power



The Crane Anti-Collision System is a solution that prevents accidents by warning workers of the risk of collision between cranes in advance using IoT sensors.

CONTENTS



Accurate crane movement detection through IoT sensors

Collision Risk Stepby-Step Warning

Site safety management and crane work efficiency improvement

Remote monitoring facilitates maintenance and on-site management

FUNCTION



It detects the shortest distance between cranes, sets risk levels for each proximity distance and provides tep-by-step warnings according to risk levels to prevent collisions.



errors and unconfirmed blind spots. Accurate crane movement detection through IoT sensors reduces accidents due to unconfirmed blind spots via stepby-step notification of the risk of collision and safely manages the site to prevent work incapacity due to accidents while increasing crane work efficiency.

By providing a monitoring system for safety managers, you can check the crane status in real time and monitor the work status and crane collision situation in real time.





CONTENTS

MIT Smart Farm provides differentiated value by performing real-time monitoring, analysis, simulation, remote control, etc.



Cultivation company entrace



Plant growth

Integrated Control Room

Digitization of cultivation sites

Application of ICT convergence to cultivation technology

AI-based integrated (management

12

The data collected from the IoT smart sensor is analyzed for the optimal growth environment and uses AI to control the environment for each stage of growth.

Collect real-time data through IoT sensors to control temperature,

humidity, etc., in the grow house utilizing PLC-based automated control

IoT smart sensors are installed in the cultivation house and connected for communication and to collect cultivation big data, apply it to AI, and

and standardize the cultivation environment data for each crop.

Digital twin realtime monitoring Remote real-time monitoring and control by establishing a digital twin environment for growth information.

FUNCTION -

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• Integrated control system Management of growers in terms of temperature and humidity through an integrated control system



• Provides Differentiated Value Provides differentiated value by performing real-time monitoring, analysis, simulation, remote control, etc.

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obtain the optimal growth environment.

• Utilize machine learning Provides an automatic prediction system based on collected data



• Predictive maintenance through data analysis

Capable of monitoring and simulating current and future information in space.

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• **Big data-based information collection** Collects environment and growth data of real-physical objects using sensors in the cultivation house



• Verify products swiftly The products are verified swiftly to reduce costs and time by conducting effective product verification at low cost



CONTENTS

The offshore wind power generation monitoring system installs IoT sensors to remotely monitor the status of offshore wind power generators in real time thereby reducing maintenance costs and wasteful downtime of potentially dangerous offshore wind power generators.





Real-time remote monitoring

Real-time data using IoT sensors

Predictive maintenance using Al

Diagnose Remote Status

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FUNCTION



• Support for various devices Support for multiple devices such as smartphones, smart tablets, and smart glasses is available



 Provide differentiated value Provides differentiated value by performing real-time monitoring, analysis, simulation, remote control, etc.

Offshore wind power generator facilities can be remotely monitored and controlled using IoT sensor data. It also enables remote monitoring of the condition of offshore wind turbines, reducing the number of personnel required to inspect potentially hazardous offshore wind turbines.

Real-time monitoring of offshore wind turbine status using IoT sensors.



The status of offshore wind power generators can be collected from smart IoT sensors and turned into big data and the collected big data can be analyzed using AI to cut down on maintenance costs and downtime by predicting replacement time in advance

Due to the nature of offshore wind operations, all maintenance work is done at sea. Because it is easy to be exposed to safety accidents caused by waves and wind when berthing for maintenance, it supports worker safety by reducing the number of berthings by recognizing failures in advance through remote status monitoring.

📚 🛛 Fixed Offshore Wind Power Floating Offshore Wind Power

• Creating the content list Create a content list to support the production and distribution of various content



Predictive maintenance through data analysis

Capable of monitoring and simulating current and future information in space.



 3D space building technology Create a digital twin by extracting spatial information data through the 3D camera scan method



• Validate products quickly Reduce cost and time by conducting effective product verification at a low

cost

MIC XR FACTORY

1 | MIT XR Smart Factory

2 | MIT DT Smart Factory

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Visualization of facility sites

Real-time data using IoT sensors

Systematic plant operations

After linking real-time facility data with the MES system, a predictive maintenance system is established through data analysis and real-time monitoring enables systematic factory operations.

It enhances the convenience of grasping the current status by

visualizing complex equipment operations, inspection items, and

By augmenting the equipment IoT data with XR, you can check real-

time equipment status and data together to reduce working time and

maintenance processes as XR content for easy understanding.

Increase work efficiency

FUNCTION

Improves process management efficiency and response speed by visualizing alarm information such as the location of a problem and type of abnormality.

MIT XR Smart Factory is an advanced solution that can monitor and control the facility status in real time by applying XR to industries where smart factories are built.

CONTENTS



Application of press automation process



* This screen is confirmed through augmented reality devices such as Hololens and Tablet.

• IoT convergence Real-time information linkage through PLC facilities and sensors



• On-site monitoring Information monitoring synchronized with HMI, office, and control center is possible



operate field work efficiently.

• Application of Augmented Reality Real-time visualization of data collected from IoT sensors.



• Rapid Decision Making Quick decision-making about field conditions in conjunction with MES



• Systematic plant operation Efficient facility management shortens the product release period and drastically reduces production costs



Mutual Control

Reciprocal control between the computer and the factory enables a rapid response to emergencies





CONTENTS

MIT DT Smart Factory applies the digital twin to businesses that have built smart factories. synchronizing virtual factories and physical factories to enable mutual control so that real problems can be overcome with ICT technology.





Virtual Convergence of Industrial Area

Real-time data analysis and processing using IoT sensors

Diagnose remote status

Digital transformation

FUNCTION

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WEITER



• Transformation with digital twins 3D virtualization of buildings, facilities, equipment, facilities, etc., and real-time linkage of legacy and IoT data



 Provide Differentiated Value Provides differentiated value by performing real-time monitoring, analysis, simulation, remote control, etc.



 Production CPS-based integrated monitoring Real-time visualization of data collected from IoT sensors



• Data analysis, predictive maintenance Predictive maintenance by monitoring and simulating information from the present to the future of the workspace

Instead of manufacturing real products, you can create and simulate products and production plants in the virtual space of the digital twin and thus reduce the costs and time for building large facilities and associated facilities.

Real-time data analysis using spatial information and actual data through real-time monitoring, analysis, simulation, and remote control using IoT sensor data for core facilities or associated facilities provide differentiated value.



The digital twin monitors information relating to the present and future of the factory and enables remote predictive maintenance through simulation while progressing from the previous process to the next process, predicting quality problems and discovering defects in advance.

Intelligent factory operation is made possible by analyzing various types of information collected from the real world which is simulated in the virtual world to derive an optimized plan based on this to be optimized in the real world.



• 3D space construction technology Produce the digital twin by extracting spatial information data through the 3D camera scan method



• Validate products quickly Reduce costs and time by conducting effective product verification at a low cost



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