

The New Dream We Will Create  
and the 'A' of the World

## Make the Future with DT Technology

MAKE TOMORROW BETTER THAN TODAY



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# Make Tomorrow Better Than Today

## Beyond IT moving forward to the DT (Data Transformation) era

For a better world, we create trustworthy services with tireless passion for a better world, endless challenges and incessant technological innovation.

### Business Area

#### Big Data Analysis and AI Platform

- Establishment public/private big data platforms
- Development of visualization solutions based on big data analysis
- Establishment AI platforms for textile materials manufacturing

#### Integrated Smart City Platform

- Integrated management platform for industrial complex based on digital twin
- 3D GIS urban disaster prediction solution
- Integrated management system for disaster and infectious diseases

#### AI-Based MEGA Smart Factory

- Inspection automation in Production-line and quality control solution
- AI framework for the collaborative intelligence of the manufacturing
- Data doctor solution in smart factory

#### Multi-Sensor and Edge Device built with IoT service

- Intelligent sensor-based smart IT convergence platform
- IoT-based AI manufacturing innovation solution
- Edge solution-based drone service with autonomous driving

### History and Vision 2025



2025

- Leap to a global big data and AI solution company
- Technological innovation for superintelligence (AI), superspace (6G), super performance (quantum), and Hyper-connected Trust (security)
- Infinite expansion of big data convergence services in the digital big bang
- Advancement of ICT technology and establishment of digital green projects (Green of ICT)
- Achieving the best player in the domestic big-data field (Korea)

2020~

- Awarded from the Minister of SMEs and Startups
- Certified as a fast-growing company for 2 consecutive years in technology evaluation by Credit Rating Agency
- Selected as a global ICT promising company for 2 consecutive years
- Certified as a technology innovative SME (Inno-Biz)
- Awarded as Ulsan Startup Festa TOP 10
- Achieved the best company in the region in the field of AI and big data
- Selected and implemented for Ulsan Genome Industry Special Regulatory Free Zone (Participating company)
- [Ministry of SMEs and Startups] Selected for big data-based service development R&D project
- [Ministry of SMEs and Startups] Selected for a cloud-based appliance service development project
- [Ministry of Science and ICT] Selected as the best for Ulsan transportation big data innovation service development

2019

- Awarded from the Mayor of Ulsan for contributing to regional economic development
- Selected as a frontier venture company by the Korea Technology Guarantee Fund
- Certified as an excellent company in technology evaluation by Credit Rating Agency
- Established the Big Data and AI Research Center
- Established Daegu Branch of A-Tech Co., Ltd.

2018

- Converted to A-Tech Co., Ltd.
- [BIPA] Selected as the best smart venture company in the domestic market
- Selected as a promising start-up venture company run by the Korean government
- Selected as a promising company of the year by the regional Broadcasting

2017

- Establishment of A-Tech
- Specialized in big data analysis as Ulsan consulting firm

# AI Manufacturing Inspection Solution

It is the automated inspection solution that uses machine learning-based AI technology for any user to identify process omissions and defects and can detect and classify multiple defect types beyond simple abnormality detection.

**AS-IS**

The inspection process to make a decision relying on the human eye



- Frequent quality issue with defect and omissions
- production speed decline
- Different job performance based on work experience period or skill
- Increase of the cost of remanufacturing

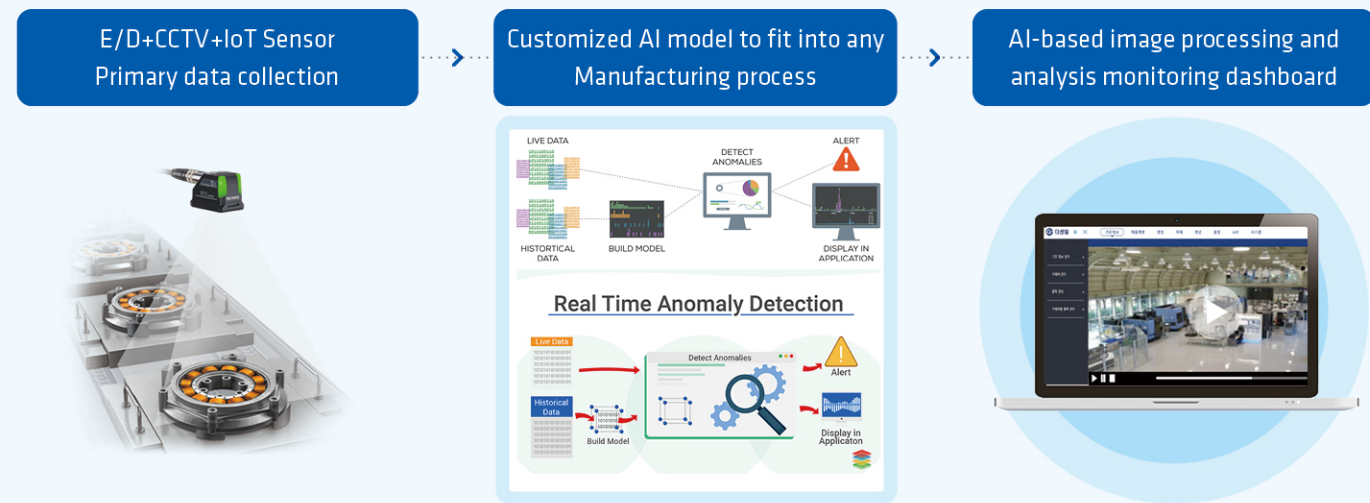
**TO-BE**

AI-based quality verification along with automated inspection (improving productivity and reducing defect rate)

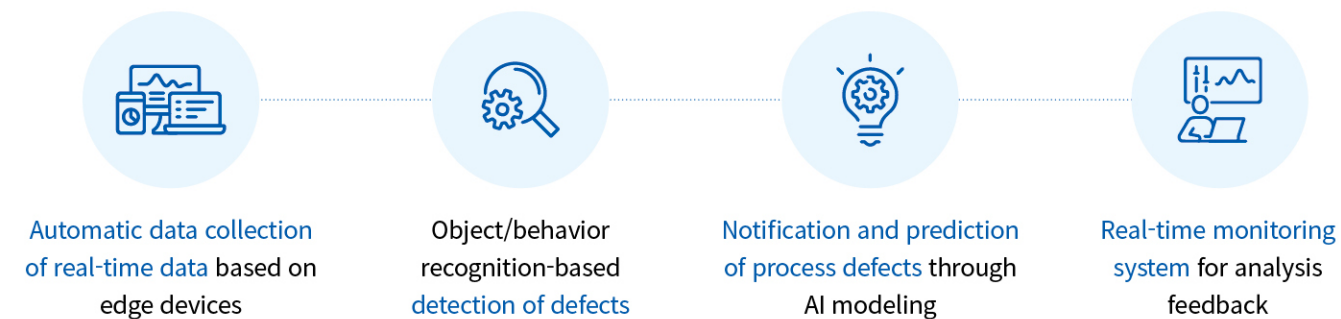


- Product quality improvement
- productivity maximization
- Efficiency of the quality inspection process
- Enhancement of factory facility operating

## Process



## Main Features




# Urban Disaster Solution

We support to prevent disaster by performing damage prediction simulations for each disaster, such as earthquake and flooding, using AI algorithms and predicting the disaster situation and damage size in advance with digital twin technology.

**AS-IS**

Lack of timely response when a disaster occurs



- Got Assistance only after a disaster
- Increased in recovery cost for disaster damage
- Difficulty in understanding disaster situation
- Lack of manual for each stage of disaster situation

**TO-BE**

Simulation-based disaster control tower (real-time disaster control and response)

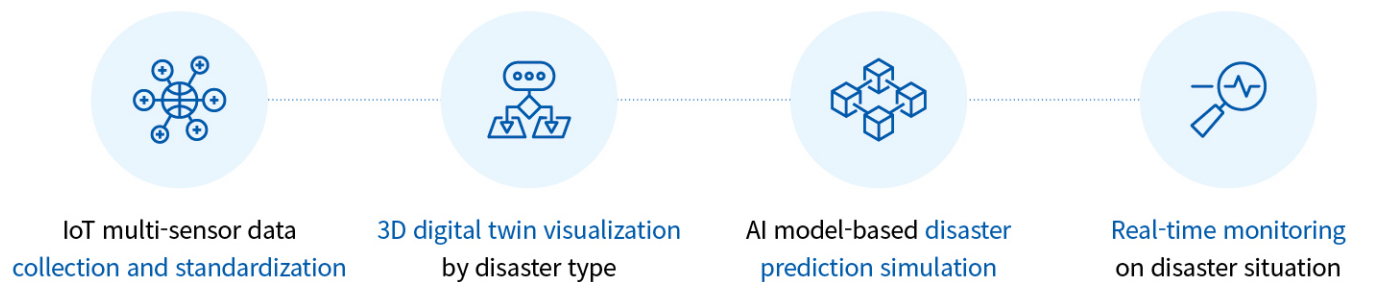


- Proactive management of the areas where a disaster is predicted to occur
- Reduction of human/material disaster damage
- Rapid recognition of situations and timely response
- Securing the optimal evacuation route

## Process



## Main Features



# Smart Doctor System

Assisting the capability to take the action prior to any risk for data analysis circulating in manufacturing site assessing the KPI indicators in the dashboard after analyzing data and predicting the future accordingly.

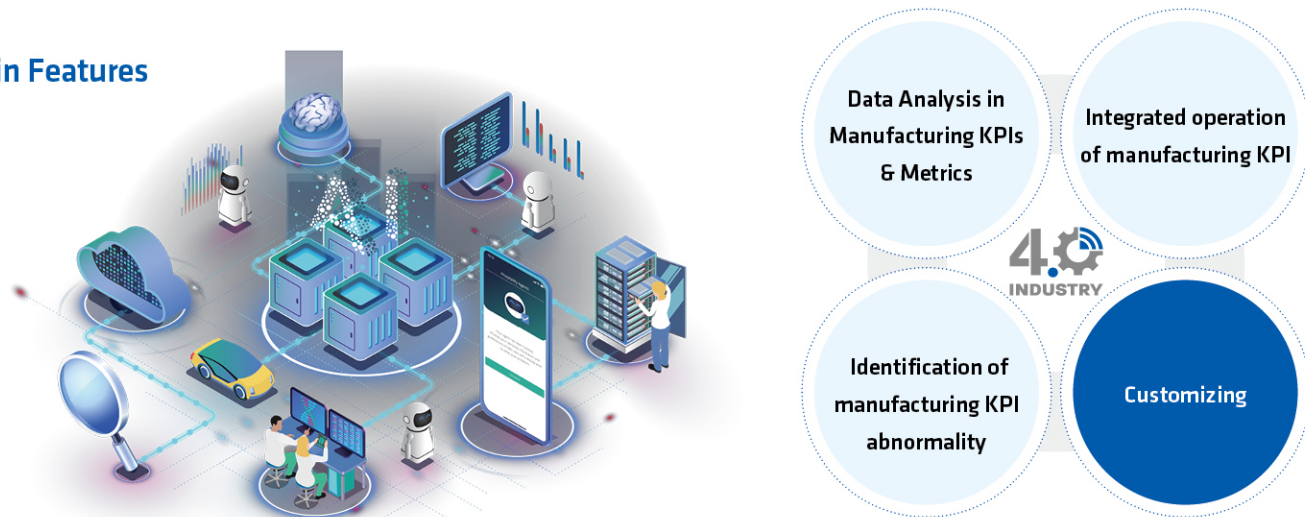
## Introduction Effect



## Main UI

날짜	생산량	생산비율	생산효율	생산속도	생산품질
2022-10-26	1000	100%	100%	100%	100%
2022-10-27	1100	110%	110%	110%	110%
2022-10-28	1200	120%	120%	120%	120%
2022-10-29	1300	130%	130%	130%	130%
2022-10-30	1400	140%	140%	140%	140%
2022-10-31	1500	150%	150%	150%	150%

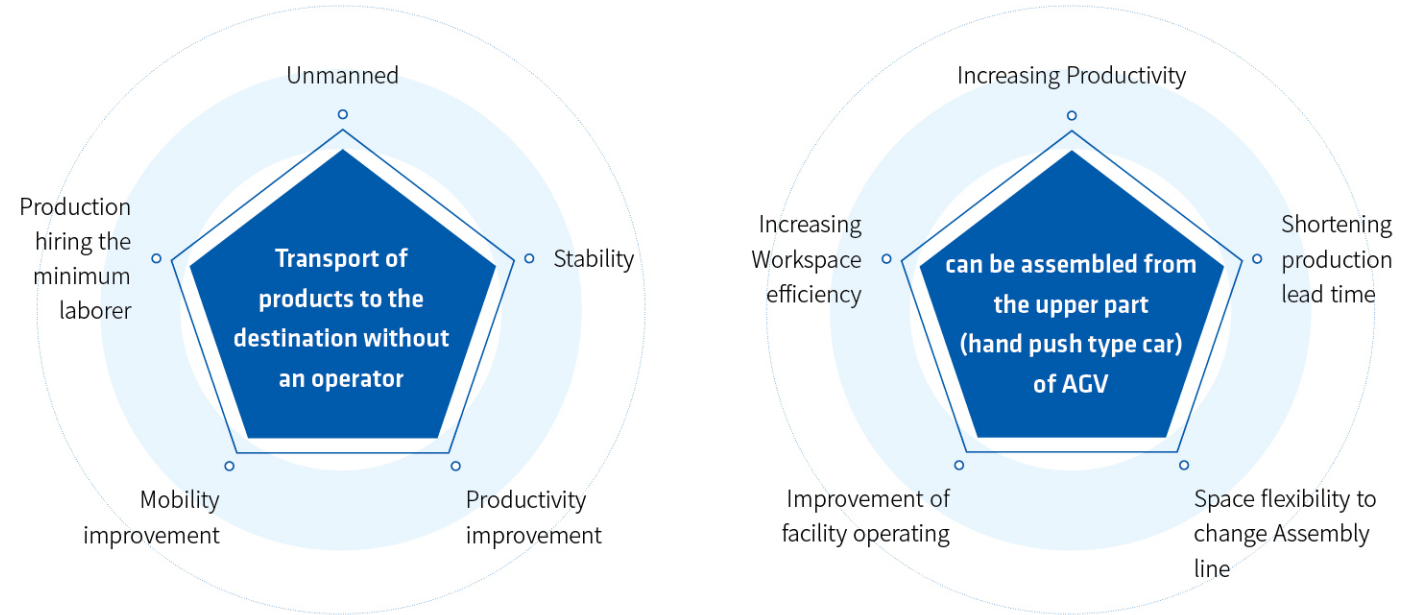
## Main Features



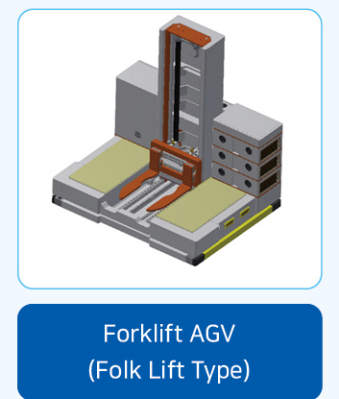
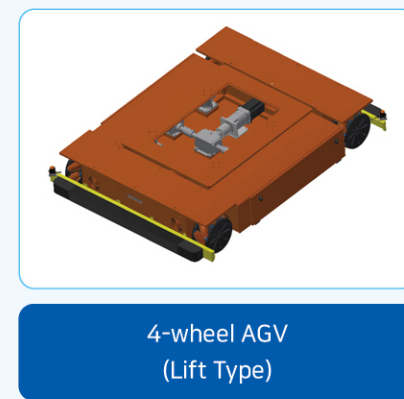
# Automatic Guided Vehicle

It is a vehicle that automatically transports products to a designated place without an operator, and supports the automation of production process by navigating a work site to transport necessary products or equipment.

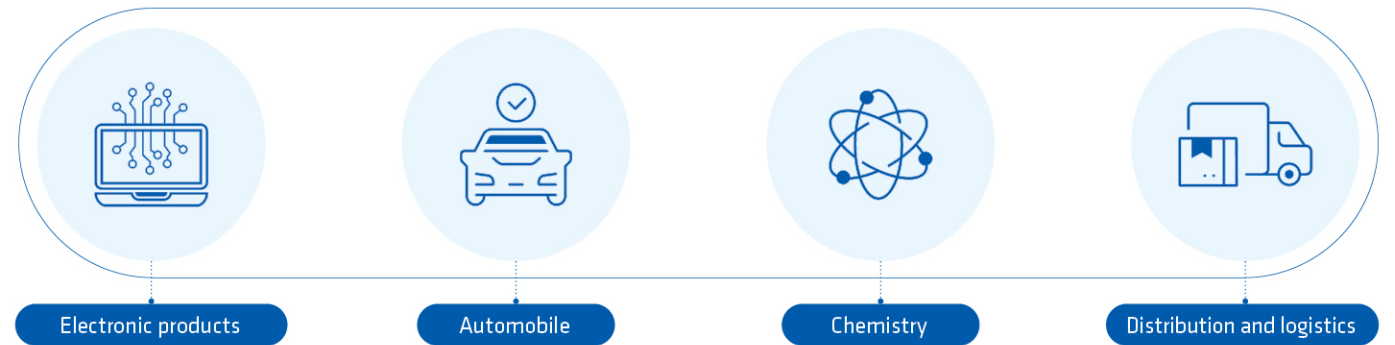
## Introduction Effect



## Process



## Application



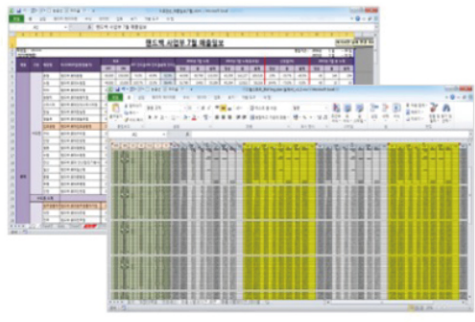
# A-Tech Visualization Solution

It is the solution that anyone can easily visualize big data without relying on experts, and supports rational decision-making based on data by obtaining accurate insights from complicated big-data.

## Introduction Effect

**AS-IS**


Big data analysis results expressed by numbers



Difficult to understand at a glance

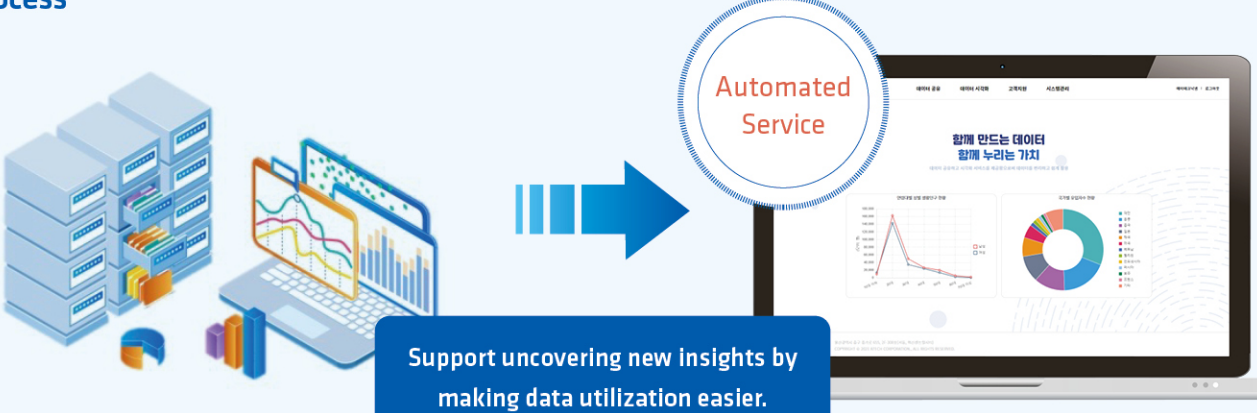
**TO-BE**

Big data analysis results expressed by charts



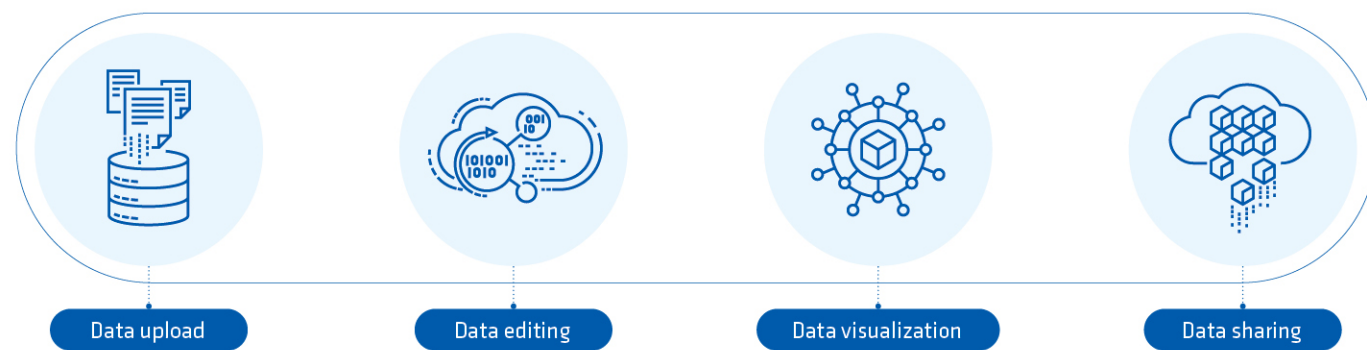
Easy to understand analysis results visually

## Process



Support uncovering new insights by making data utilization easier.

## Main Features

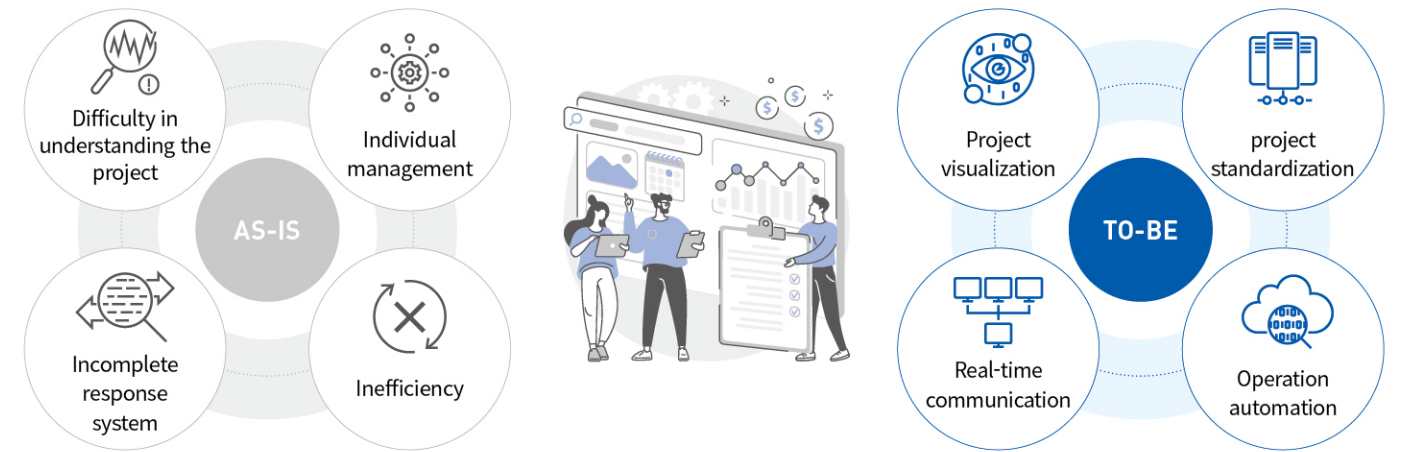


# Biz Atech Solution

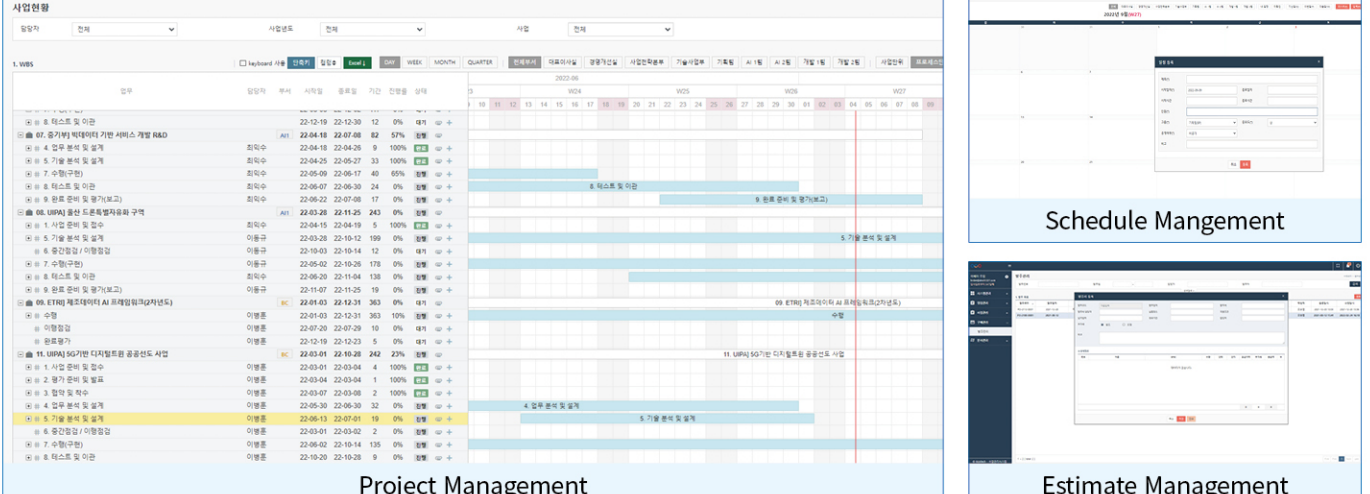
Business Management Systems

It is an All-in-One solution that supports cloud-based integrated project management and collaboration, and provides optimized project management services for each company by customizing features based on requirements.

## Introduction Effect



## Main UI

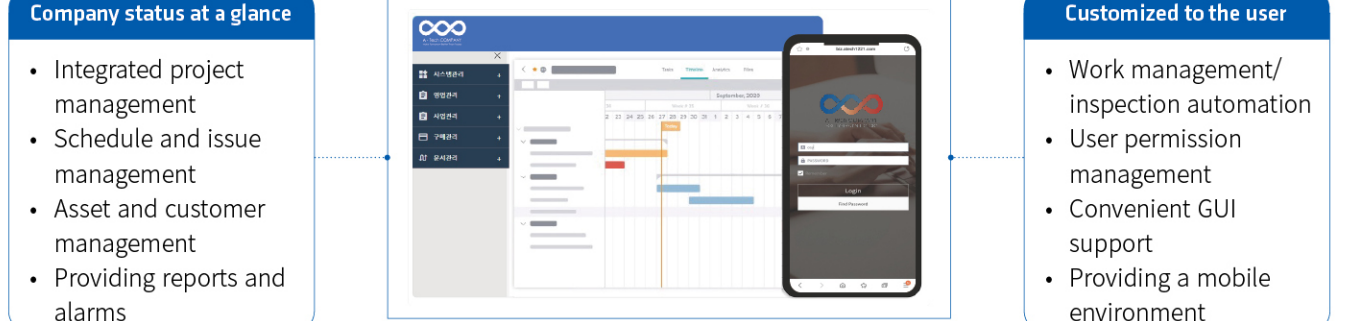


Project Management

Schedule Management

Estimate Management

## Main Features



- Company status at a glance**
  - Integrated project management
  - Schedule and issue management
  - Asset and customer management
  - Providing reports and alarms
- Customized to the user**
  - Work management/ inspection automation
  - User permission management
  - Convenient GUI support
  - Providing a mobile environment

# 96

## Performing more than 96 projects

- [Ministry of SMEs and Startups] Selected for a big data-based service development R&D project
- [Ministry of SMEs and Startups] Release of smart factory data factory doctor services
- [ETRI] Development of AI framework for collaborative intelligence in the manufacturing
- Selected as the best case of transportation big data innovation service development
- Ulsan Genome Industry Regulatory Free Zone Project
- Building data for AI learning of AI drones
- Ulsan smart city data hub system construction
- Gyeongsangnam-do economic status monitoring system construction
- Ulsan smart parking management system Establishment

# 11

## Acquisition of 11 Certificates

- Ulsan Mayor '2020/2021 Global ICT Promising Company'
- Confirmation of Inno-Biz
- Excellent company certification in technology evaluation
- Technology innovative SME certification
- Best smart venture company in the country

# 10

## 8 domestic patents and 2 overseas patents

- Big data material collection and analysis system using Hadoop
- Chatbot operating system for factory operation management
- Machine learning-based cost prediction system
- Startup information analysis system using big data
- Smart Inventory Management(Philippines,Vietnam)

# 20

## Selected as an excellent company 20 times

- 2021 Commendation of the Minister of SMEs and Startups
- 2020 Commendation in Ulsan Small and Medium Business Administration Ulsan Startup Festa
- 2019 Ulsan Big Data Forum member
- 2019 Ulsan Smart Factory member
- 2018 Ulsan Public Big Data Startup Contest

### Major Project Performance

Big data analysis and platform Establishment

# 38+

- Expansion of domestic and overseas business areas based on private and public data

IoT convergence AI solution

# 31+

- Advancement of customer tailored solutions through continuous R&D

AI convergence smart factory

# 27+

- Advancement of AI convergence smart factory through smart factory support projects

### Technology Certificates, Patents, and Awards

- Inno-Biz Certificate**: Inno-Biz Certificate
- Venture Company certificate**: Venture Company certificate
- Excellent company in technology evaluation**: Excellent company in technology evaluation
- Frontier venture certificate**: Frontier venture certificate
- National smart venture**: National smart venture
- AI/Data voucher implementation institution**: AI/Data voucher implementation institution
- Commendation of the Ministry of SMEs and Startups**: Commendation of the Ministry of SMEs and Startups
- Global ICT promising company**: Global ICT promising company
- Startup award Top10**: Startup award Top10
- Commendation of Ulsan Mayor**: Commendation of Ulsan Mayor
- Domestic patents (8 cases)**: Domestic patents (8 cases)
- Overseas patents (2 cases)**: Overseas patents (2 cases)

### Partners

# 50+

Private Business partners

# 40+

Public institution partners

