



www.a2m.co.kr

Your e-BUSINESS PARTNER



AtwoM Advanced with Manpower & Motivation

AtwoM will lead e-Business based on three(3) core competencies of :
effective marketing communication strategy / User-oriented design / advanced technology
AtwoM leads ICT convergence industry with business mind toward change and
creation in the rapidly changing 4th industrial revolution times.

Advanced
Manpower
Motivation

AtwoM

About
US



It's Possible

Your Strong e-Business Partner

AtwoM is a specialized company in software, solution, and system integration consisting of skilled experts who have participated in various projects based on accurate analysis power, structured information architecture and development, and sensible communication design.

Company | AtwoM CO., LTD.

CEO | KIM JUNGWOO

Business Areas | SW and Solution Development, System Integration

Address | 8th fl., Well-Being Town, 13, Banseok-ro,
Yuseong-gu, Daejeon Metropolitan City, ROK

Tel. +82 42. 864. 4238~9 Fax. +82 42. 862. 6091

Founded in June 1998

Service Period June 1998 ~ Present

Number of Employees 100 persons

Vision & Mission

Effective Marketing Communication Strategy

We suggest Online Integration Service and new and strong Creative e-Business Models for the purpose of strengthening the customer's e-Biz competency and secures efficient communication-oriented customer service.

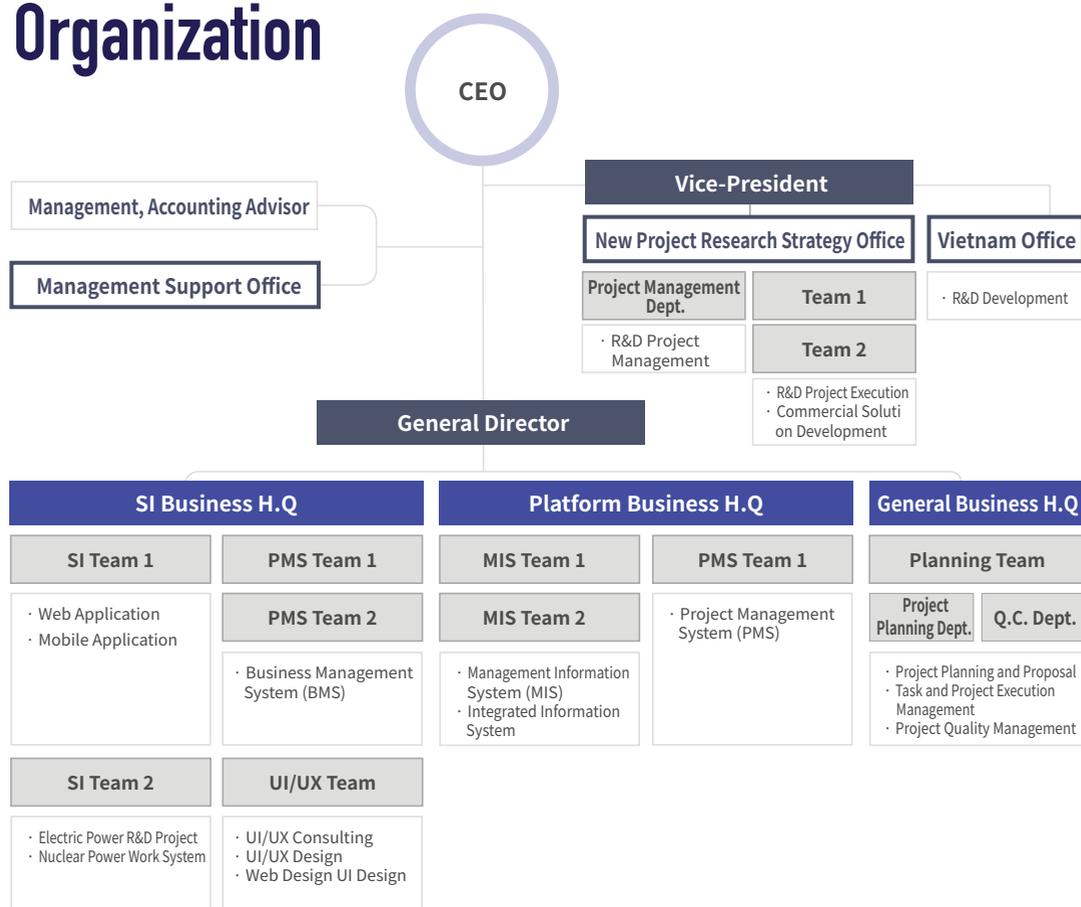
User-Oriented Design

We, as your e-Business partner, consider and study your Web Planning in earnest and provide you with the latest web trends and design based on user experiences.

Advanced Technology

We lead the trends and realize differentiated system to increase the brand value with sustainable technology development, stable quality control, and strategic promotion in line with changing 4th industry revolution.

Organization



History

About US

- | | | | |
|-------------|--|-------------|--|
| 1998 | + Founded Company | 2012 | + Registered as a worker dispatch service company in the Ministry of Employment and Labor
+ Selected as an emerging S&M company by Daejeon City
+ Selected as an excellent employment company by Daejeon City |
| 2003 | + Registered as Design-specialized company In the Korea Institute of Design Promotion | 2013 | + Acquired GS certification (Communication Control System via Social Media)
+ Applied a patent (Consumer Communication Control System via Social Media) |
| 2004 | + Incubated by Daejeon/Chungcheong Design Support Center(DCDC) | 2015 | + Awarded WEB AWARD KOREA [1st Prize for Governmental Agency]
+ Awarded INTERNET ECO AWARD [Grand Prize for Win-Win Innovation]
+ Signed an agreement with the Vietnamese Ministry of Science & Technology
+ Applied a patent (Self-directed Learning System using Communication with Parents)
+ Registered as a Work and Learning Dual System Company |
| 2008 | + Acquired ISO 9001 Certification
+ Certified the affiliated Research Institute
+ Certified Technical Innovation S&M Enterprise (INNO-BIZ) | 2016 | + Established AtwoM Vietnam Branch
+ Selected as an employment creation company by Daejeon City
+ Registered a patent (Vehicle Antenna)
+ Awarded WEB AWARD KOREA [1st Prize for Governmental Agency]
+ Awarded WEB AWARD KOREA [1st Prize for Research Institute] |
| 2009 | + Acquired ISO 14001 Certification
+ Designated as a company on behalf of military service by the Military Manpower Administration ('09-present) | 2017 | + Awarded WEB AWARD [Grand Prize for Public Service] |
| 2010 | + Selected as a company participating in Local Industry
+ Promotion Project by the Ministry of Knowledge Economy Selected as a company participating in Technical Innovation Project by the Ministry of Knowledge Economy ('10-'14) | 2018 | + Developed File Transmission Solution (NERO)
+ Selected 'a task to develop exclusive smart O&M platform for wind turbine' as a project of the Korea Energy Technology Evaluation and Planning
+ 'Overseas Proofs of EMS development for Micro Grid of Industrial Complex and Real-time Electricity Market Operation Service' |
| 2011 | + Certified Technical Innovation S&M Enterprise (INNO-BIZ)
+ Selected as a company participating in Smart Grid Integration Project by the Korea Electric Power Knowledge Data Network ('11-'14) | 2019 | + Selected as a strong S&M enterprise by the Ministry of Employment and Labor
+ Developed e-Approval Solution (I'MWARE)
+ Developed Messenger Solution (M BOX) |
| | | 2020 | + Applied a patent (a platform system for general management of wind power generation)
+ Applied a patent (Maintenance System of preemptive prediction-based power plant using data analysis index and the Maintenance Method)
+ Applied a patent (Web-based blade management system of wind power generation) |



Certification

- + Checked the compatibility between content management system and e-Government Standard Frame
- + Acquired CS certification for SW quality of social CRM and upload component solution
- + Selected as an excellent employment company by Daejeon City
- + Selected as 2019 strong S&M enterprise by the Ministry of Employment and Labor
- + Certified as a management innovation S&M enterprise (Main-Biz)
- + Certified as a technical innovation S&M enterprise (Inno-Biz)
- + Acquired International Standard for Quality Management (ISO 9001 certification)
- + Certified the affiliated Research Institute
- + Certified the quality of web accessibility
- + Awarded Web Award Korea and Internet Eco Award



Certificate for Compatibility with e-Gov Standard Framework



GS Certificate for SW Quality (File Transmission Solution)



GS Certificate for SW Quality (Social CRM)



Certificate for Quality Management (ISO 9001)



Management Innovation S&M Enterprise (MAIN-Biz)



Technical Innovation S&M Enterprise (INNO-Biz)



Awarded 1st Prize and Grand Prize of Web Award Korea



WA Certificate for Quality of Web Accessibility



Certificate for Venture Company



Certificate for Registration of Industrial Design



Grand Prize for Employment Creation by Daejeon City



Certificate for Strong S&M Enterprise selected by the Ministry of Employment and Labor

Professional Technologies

About US

Programs Registered



e-Approval (G/W)
System



File Transmission
Solution



Messenger



Management Information
System



Assessment Management
System



Technical Value
Assessment System



Content Management
System



Social CRM



Intranet



Smart Office
(Web & Mobile)

Patents Registered



Platform System for
General Management of
Wind Power Generation



Maintenance System of
Preemptive Prediction-based
Power Plant Using
Data Analysis Index



Web-based Blade
Management System of
Wind Power Generation



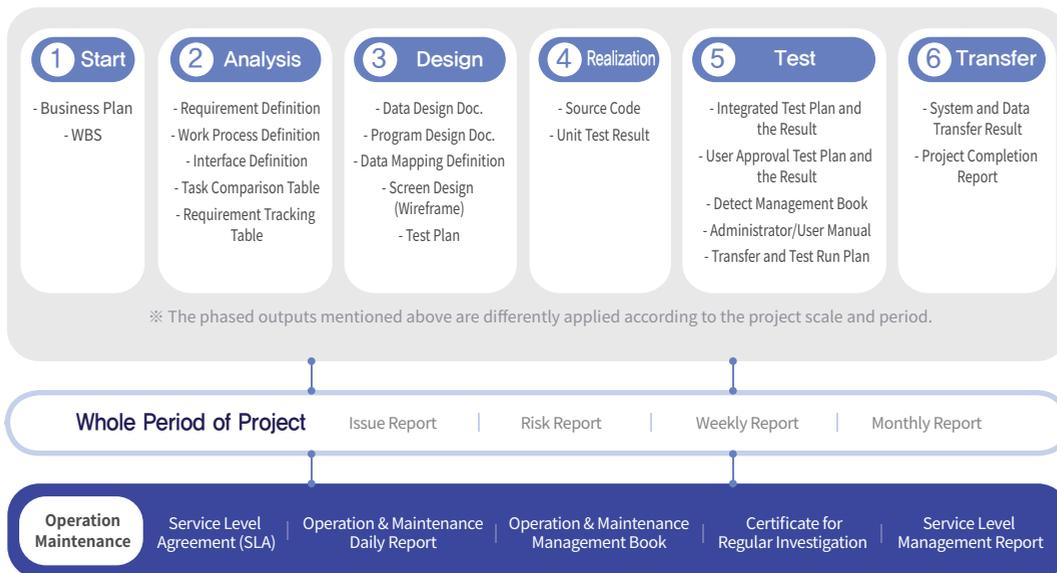
Self-directed Learning
System using Communication
with Parents



Policy Decision Support
System using Integrated
Solution and
the Decision Method

Quality Management

Applied standardized process of 2nd grade SP(SW Process) certification and checked phased outputs



Utilization of Tools/Kits for Project Management and Quality Improvement

+ Project Management Tools/Kits



+ Performance and Security Vulnerability Inspection Tools/Kits



- ✓ Inspected 47 secure coding vulnerabilities of the Ministry of the Interior and Safety
- ✓ Inspected TOP 10 OWASP vulnerabilities
- ✓ Inspected TOP 25 CWE/SANS vulnerabilities
- ✓ Inspected JAVA Code Convention

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Business
Areas

Business Areas

New & Renewable Energy ICT

- + Smart O&M Platform
 - + Micro-Grid EMS
-

Information Service Platform

- + Integrated Information System
 - + Management Information System
 - + Research Management System
 - + Project Management System
 - + Enterprise Portal
-

Solutions

- + File Transmission Solution 'Nero'
 - + Social CRM Solution 'Gold Filter'
 - + e-Approval (G/W) Solution 'IMWARE'
 - + Messenger Solution 'M-box'
-

Web Applications

- + System Integration / Construction (SI)
 - + System Operation and Maintenance/Repair (SM)
 - + Mobile Service
-

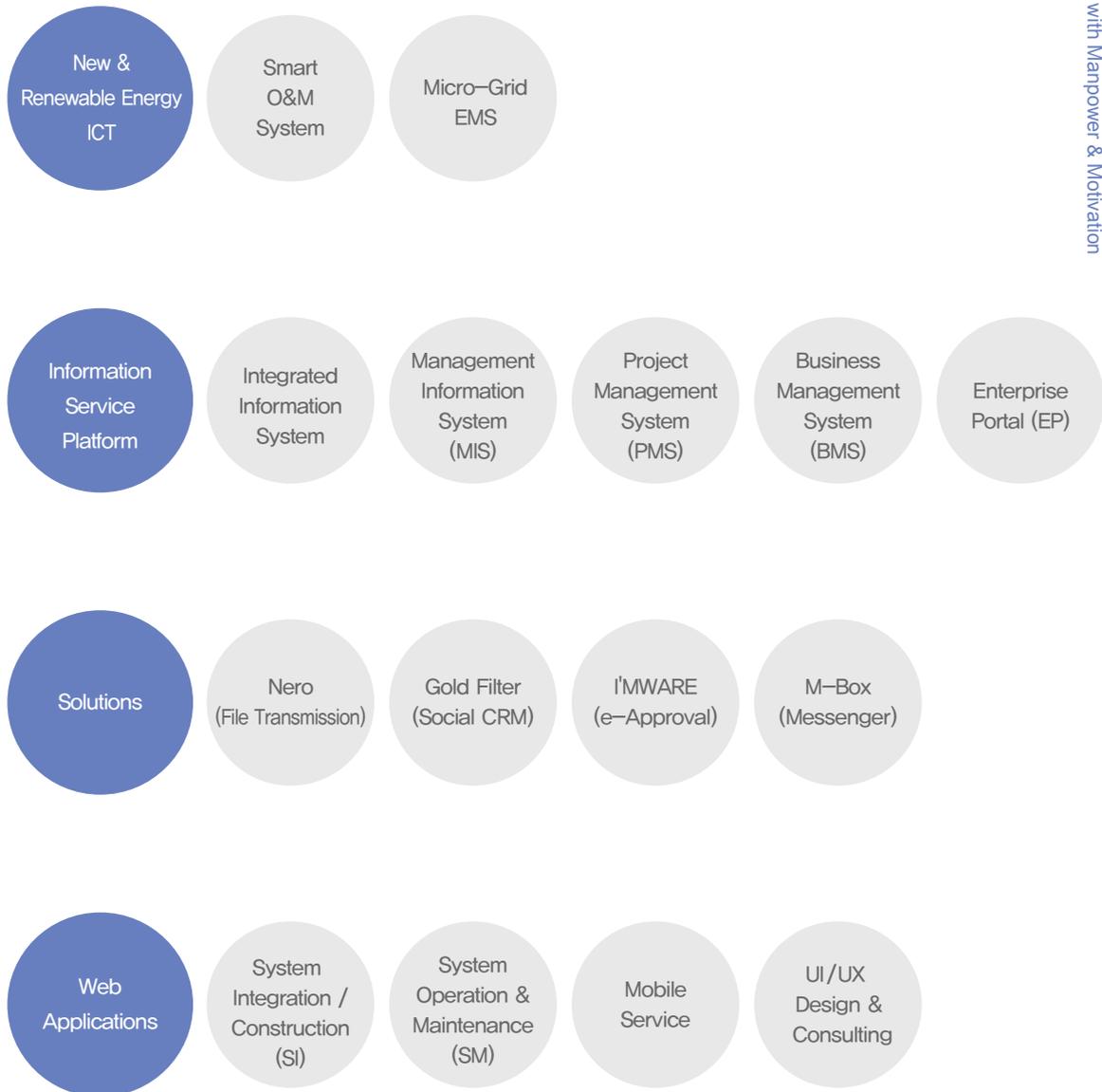
Consulting

- + e-Business Consulting
 - + Web-based SI Strategy Consulting
 - + New site construction / Functional improvement Consulting
 - + UI/UX Consulting
-

Business Contents



Advanced with Manpower & Motivation

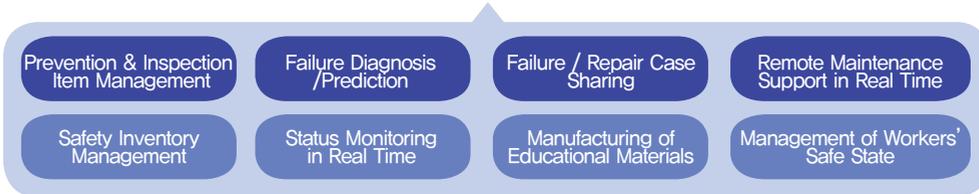


New & Renewable Energy ICT

Exclusive Smart O&M Platform Development Project for Wind Power Turbine

It is for operation and maintenance of new & renewable energy generation system to monitor power generation status in real-time and provide various information predicted such as calculation of power generation quantity, failure probability and maintenance cost, etc. based on database accumulated.

* It consists of Condition Monitoring System (CMS) using IoT + Integrated Resource Planning (IRP) + Blade/Tower Life Areas Cycle Management System + BigData/ML Model + Maintenance Remote Support Tool/Kit + API.



H/W + S/W Integration Development Environment

1 O&M Platform Development

- Construction of open source Cloud Foundry (Container virtualization-based Pass technology)-based Platform (GCP)
- Provision of binding service that can use major services (Enabler) to a new application
- Utilization of International Standard IEC61400-25 for wind power generation
- Provision of flexible management with reference to API call via API Gateway and safe user authentication/authorization

2 Integrated Resource Planning (IRP) & Machine Learning

- Provision of inventory management functions such as registration of required parts and components, history management, purchase of safety equipment, etc.
- Provision of maintenance functions such as detection and notification of abnormal symptoms, maintenance schedule management, site report, history management, etc.
- Provision of ML-based prediction function of power generation quantity and maintenance

3 Vibration & Load Data-based Aging Detection

- Provision of function to monitor accumulated fatigue of tower/blade through vibration and load analysis

4 Condition Monitoring System (CMS) using IoT

- Application of Edge Cloud-based low cost and real time condition collecting system
- Application of algorithm to extract specialties of data collected
- Provision of decision making service for maintenance

5 Development of Work Tools/Kits/Educational Contents

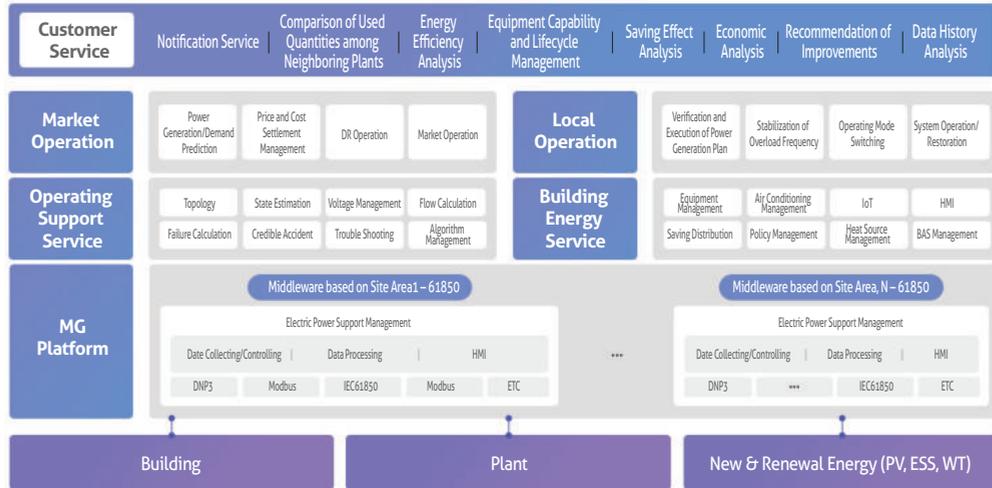
- Provision of expert advice by sending and receiving maintenance status in real time
- Provision of video reporting data and educational contents

MG EMS Development and Overseas Proof Development Project

It is an integrated energy management system for the purpose of visualization and optimization of energy flow and usage as well as measurement and real-time monitoring of energy usage and power generation quantity.

* MG: Micro Grid

* EMS: Energy Management System



1 General Energy Management Monitoring

- Monitoring of energy saving quantity, emission reduction of green-house gas, daily power generation state and ESS
- Integration and provision of major events

2 Total System Monitoring

- Monitoring of Grid-independent/connected MG system real-time composition, power generation and load state, and heat usage
- Monitoring of energy usage in a factory

3 Engineering Tool

- Power/ non-power plant-related tools (distributed resource, solar heat, plant equipment, etc.)

4 Distributed Resource Monitoring and Control

- Monitoring of operating status of Photovoltaic power generation (current output, daily power generation, accumulated power Generation, etc.) operating status of ESS (SOC, charging/discharging state, charging/discharging quantity, etc.)
- ESS charging/discharging control

5 System Operation & Quality Control

- Operating schedule set-up by MGs - provision of system quality and improvement methods
- ESS operating mode set-up and schedule management - provision of comprehensive system analysis functions

6 ESS Operation & Management Screen

- Prediction of power demand/generation - provision of predictive demand information by power plants
- Prediction of solar radiation quantity and weather information system - provision of predictive information of power generation quantity by PV resources

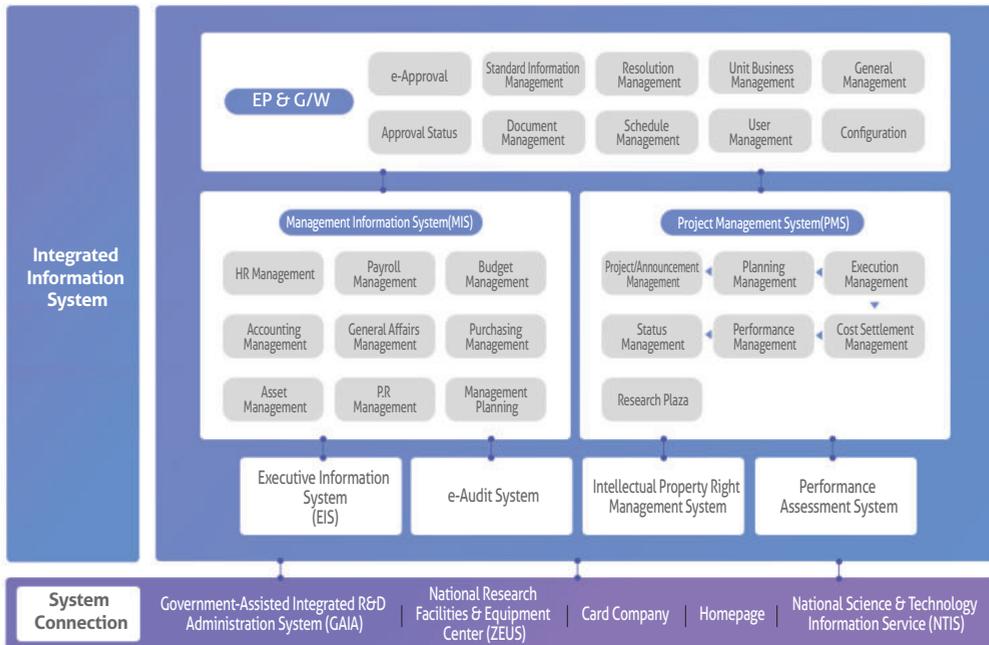
7 Market Operation Dashboard

- General monitoring of market operating status - transaction cost-benefit analysis service
- Monitoring of electric power purchasing/selling status by power plants

 Information Service Platform

Integrated Information System

It is an integrated system supporting efficient operation of organizations with automation of administrative works due to organic business cooperation between unit systems and smooth connection with external support systems by integrating detailed several systems such as a groupware, etc. including management information system (MIS), research management system (RMS), e-Approval (G/W).



+ Features of IIS

- Increase of the efficiency of system maintenance with Web environment, SVN version management, MVC model programming
- Independent development for the system installation environment with Java framework-based solutions
- Application of the AtwoM Standard Framework optimized by combining the latest library based on e-Government and AtwoM's technical power.
- Provision of UI libraries and strong data sources, templates, themes based on HTML5, CSS3 and JavaScript standards

Management Information System (MIS)

+ MIS: Management Information System

It is a system that uses the whole operating information of public agencies to strengthen the efficiency of works such as human resource affairs, payroll, budget, accounting, general affairs, purchasing, assets, etc. and raise reliability of decision making through computerization and systematization of administrative affairs of public agencies and mutual connection of business processes for business management.



+ Features of MIS

- Increase of efficiency of system maintenance with Web environment, SVN version management, and MVC model programming
- Independent development for the system installation environment with Java framework-based solutions
- Provision of payroll management system to flexibly cope with the change of payroll system
- Possible to systemically manage assets by connecting between purchase management system and asset management system
- Possible to understand real-time budget execution with accurate budget planning, control, and change management
- Provision of smooth connection with external systems such as the Government-Assisted Integrated R&D Administration System (GAIA), the National Tax Service (NTS), etc. required for accounting management
- Provision of functions to manage time and attendance that is smoothly possible to operate various working systems such as the Flexible Working System, etc.
- Provision of functions to connect with e-Approval (G/W) to approve promptly by the organization's reporting and approval system
- Provision of modeling structure to smoothly cope with changes in organization such as reorganization, etc.



 Information Service Platform

Project Management System (PMS)

+ PMS : Project Management System

It is a system that maximizes work convenience by systemically managing the whole period of project management process from announcement of research tasks to application, receipt, selection, signing an agreement, execution, expense settlement, and performance management and that provides smooth connection with internal and external systems for the purpose of settlement of research costs and equipment management, etc.



+ Features of PMS

• **Process Design for Management of Whole Period of Project Management Works**

Systematic and optimized design of whole period from the planning phase of research project to the post research phase by reflecting the features of research project management works

• **Portlet-based Solution**

Provision of process administration rights, user's work list, portal screen, etc. via Portlet

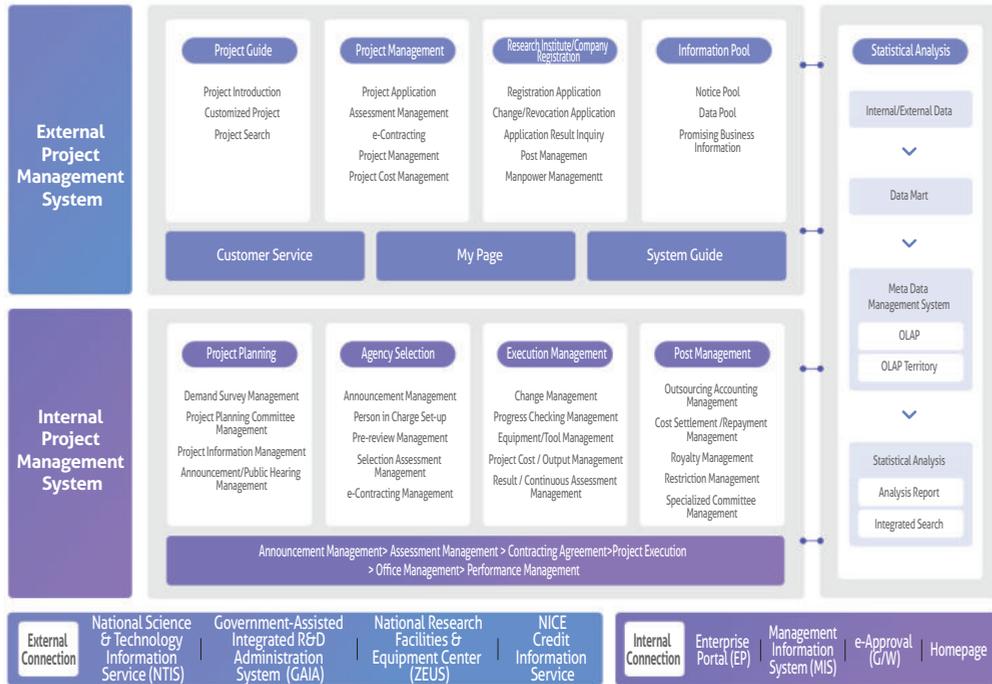
• **Easy Connection with Internal and External Systems**

Provision of functions to internally connect with the Management Information System (MIS), the Executive Information System (EIS), e-Approval (G/W) system and to externally connect with the Government-Assisted Integrated R&D Administration System (GAIA), the National Science & Technology Information Service (NTIS), and the National Research Facilities & Equipment Center (ZEUS)

Business Management System (BMS)

+ BMS : Business Management System

It is a system that constructs online business management system for whole period from project announcement by the organization in charge of the project to post management by analyzing the BMS in progress according to the characteristics of the organization and supports the works based on business management by providing connected service such as project cost management, equipment management, etc. and standardizing documents forms.



+ Features of BMS

- Expansion of expandability and accessibility with Java framework-based solution
- Designing the optimized work process for the purpose of managing the whole period from project announcement by the organization in charge of the project to post management
- For the purpose of work efficiency, provision of functions to internally connect with the Management Information System (MIS), the Executive Information System (EIS), e-Approval (G/W) system and to externally connect with the Government-Assisted Integrated R&D Administration System (GAIA), the National Science & Technology Information Service (NTIS), and the National Research Facilities & Equipment Center (ZEUS)
- Provision of differentiated service according to classification of users in order to prevent work delay by phases
- Provision of foundation of data collection and analysis for utilization of bigdata with reference to business execution

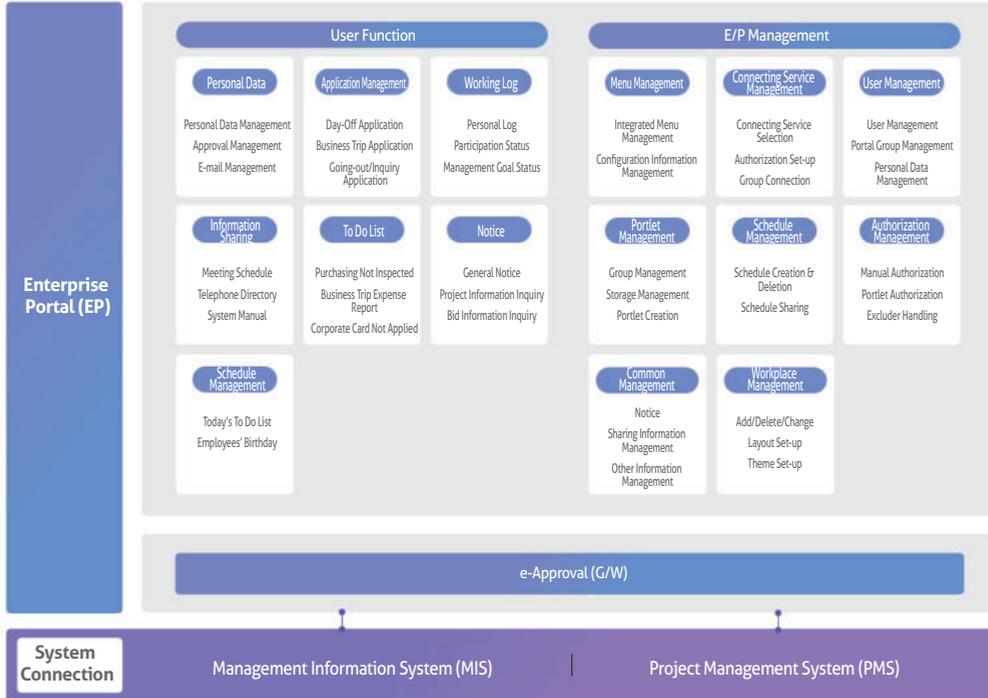


 Information Service Platform

Enterprise Portal (EP)

+ EP : Enterprise Portal

It is an user-oriented portal system, for the purpose of convenient business support, that shares the progress of business such as all kinds of application works, the progress status, schedule management, etc., provides services to manage status in progress, and is possible for flexible application of user environments such as portlet management, authorization administration, menu administration, etc. for user convenience.



+ Features of EP

• **Personalized Service Support**

Provision of process administration authorization, user worklist, portal screen, etc. via portlet
 Provision of a screen that is able to grasp the current progress of business at once via integrated management functions such as addition and registration of portlet, data setting, etc.

• **Smooth Connection with Internal Systems**

Provision of functions to connect with various systems such as the Management Information System (MIS), the Project Management System (PMS), etc.
 Minimization of work delay by connecting with all kinds of notification services

Class 1



File Transmission Solution “NERO”

- Simultaneous transmission of several big files without limit
- Secured stable transmission without slow down
- HTML5-based Complete support of various browsers
- Stable transmission via checking loss of files, forgery and/or falsification thereof



Social CRM Solution “Gold Filter” Integrated

- operation and management of several SNSs
- Possible to propose, make a question, and classify and transfer civil affairs
- Analyzing the real-time trend of public opinions and risk management via social monitoring
- Possible for increasing social capitals (followers, fans) and social CRM
- Provision of quick participation of customers via social survey
- Provision competencies in P,R and assessment of management innovation



e-Approval (G/W) Solution “I'MWARE”

- Provision of efficient work process for prompt decision-making
- Secured transparency and stability in the process of approval
- Provision of functions to manage documents for editing and producing freestyle approval forms
- Provision of expandability that enable to connect with various systems (HR system, Group Ware, etc.)
- Provision of mobile applications



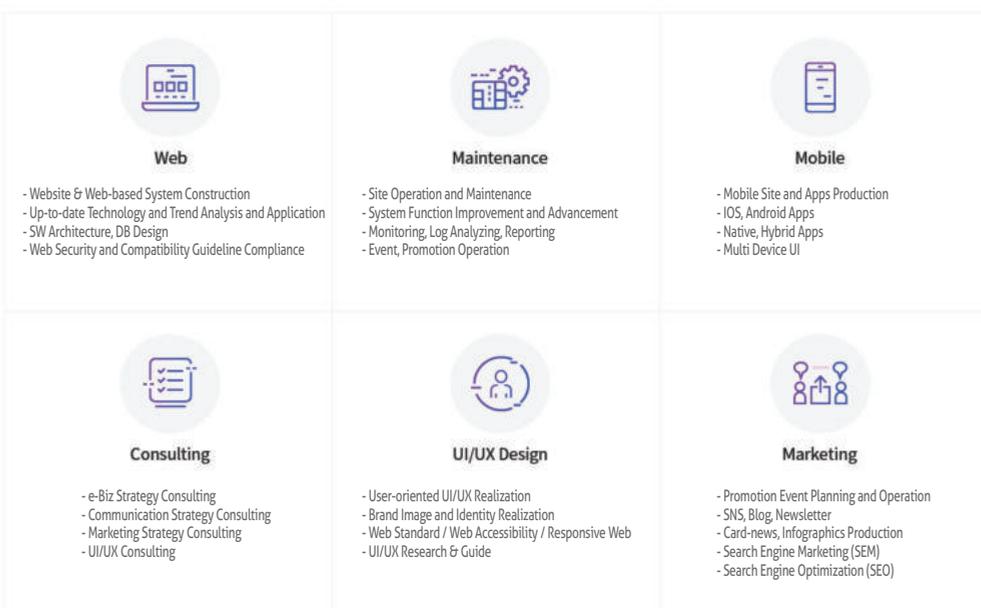
Messenger Solution “M-Box”

- Mobile application service based on the company’s internal contacts
- Provision of various functions to transmit files and messages in real time
- Provision of functions to create a group chat room and invite and manage users
- Provision of personalized setting functions (automatic Log-in, notification method, and selection of theme, etc.)

Business Areas

Web Applications

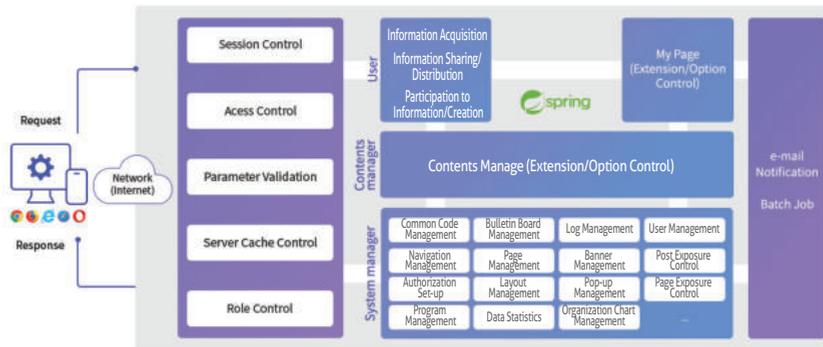
It provides the methodology optimized and satisfied services for customer's web-based system integration by understanding customer's business strategies and establishing applicable technologies and strategic action plans through rational analysis based on abundant experiences accumulated and professional manpower in whole areas of IT.



Contents Management System (CMS)



Certified compatibility with e-Government Standard Framework from the National Information Society Agency (NIA)



- Support of the environment to quickly apply users' requirements to the web site
- Provision of functions for menu structuring, definition of posts, provision, and control and management of various information
- Provision of functions to integrate and manage contents via a user-friendly interface

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Business
Performance



Business Achievements

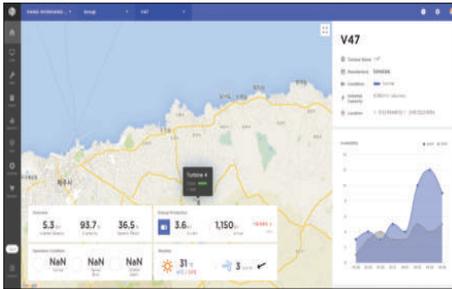
Creative Thinking

AtwoM is young.

We will always do our best to provide you with solid technical foundation and customer satisfaction based on new technologies and professional manpower.

Business Performance

New & Renewable Energy ICT Business



Ordered by Ministry of Trade, Industry and Energy
System Exclusive Smart O&M Platform for Wind Power Turbine



Ordered by Ministry of Trade, Industry and Energy
System Micro-Grid EMS



Ordered by Korea Electric Power Knowledge Data Network Co., Ltd.
System SG General Operation System



Ordered by KEPCO Korea Electric Power Research Institute
System SG General Operation CI System



Ordered by KEPCO Korea Electric Power Research Institute
System Smart Grid (SG) General Operation System for Jeju Regional Headquarter



Ordered by KEPCO Korea Electric Power Research Institute
System Offshore wind power -Fisheries Co-existence Complex Environmental Information Service System



Information Service Platform Business

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Ordered by Korea Research Institute of Chemical Technology
System Integrated Information System
 Management Information System (MIS)
 Project Management System (PMS)
 Balanced Score Card (BSC)
 Executive Information System(EIS)



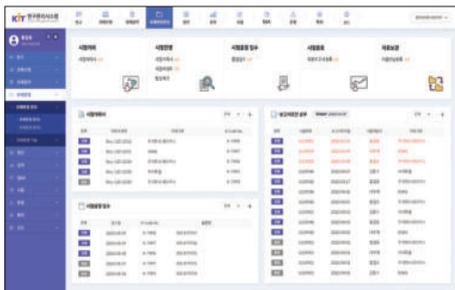
Ordered by Korea Astronomy and Space Science Institute
System Integrated Information System
 Management Information System (MIS)
 Project Management System (PMS)
 Executive Information System (EIS)
 e-Audit System



Ordered by National Fusion Research Institute
System Integrated Information System
 Management Information System (MIS)
 Project Management System (PMS)



Ordered by Korea Food Research Institute
System Integrated Information System
 Management Information System (MIS)
 Project Management System (PMS)



Ordered by Korea Institute of Toxicology
System Management Information System (MIS)
 Project Management System (PMS)



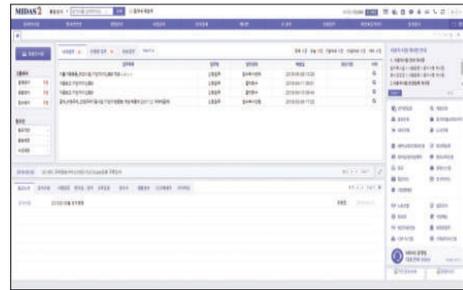
Ordered by INNOPOLIS Foundation
System Management Information System (MIS)
 Business Management System (BMS)



Information Service Platform Business



Ordered by National Institute for Korean Medicine Development
System Management Information System (MIS)



Ordered by Korea Institute of Nuclear Safety
System Management Information System (MIS)



Ordered by Korea Railroad Research Institute
System Next Generation Integrated Information System
Pre-function Design



Ordered by Institute for Information & Communication
Technology Planning & Evaluation
System Business Management System (BMS)



Ordered by National NanoFab Center
System Project Management System(PMS)
Management Information System (MIS)



Ordered by 5 Techno Parks in Korea
System Business Management System (BMS)



Information Service Platform Business



Ordered by Daejeon Business Agency
System Business Support Platform(BMS)



Ordered by Small Enterprise and Market Service
System Cooperated Business Management System(BMS)



Ordered by National Institute for Mathematical Sciences
System Management Information System (MIS)

</> Web Application Business



Korea Institute of Science and Technology Information's Homepage



Korea Astronomy and Space Science Institute's Homepage



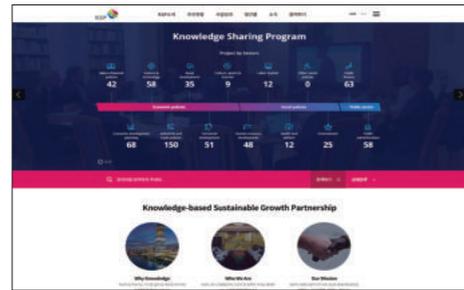
National Fusion Research Institute's Homepage



National Institute for Mathematical Sciences' Homepage



KEPCO Korea Electric Power Research Institute's Homepage



Korea Development Institute KSP's Homepage

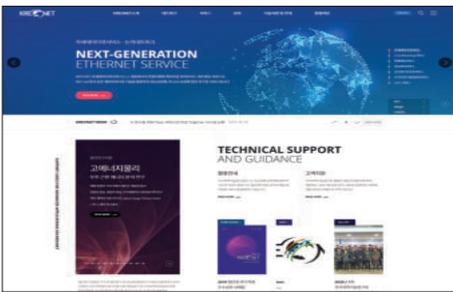
Web Application Business



Ordered by Ministry of Trade, Industry and Energy
System Nano Fusion Integrated Information System



Ordered by Korea Development Institute
System Economic Policy Time Series Service



Ordered by Korea Institute of Science and Technology Information
System KREONET(Korea Research Environment Open NETWORK)



Ordered by Korea Astronomy and Space Science Institute
System Astronomy and Space Knowledge Information



Ordered by National Institute for Mathematical Sciences
System Open Problem Solving Platform



Ordered by National Institute for Mathematical Sciences
System National Institute for Mathematical Sciences' Portal

Web Application Business



Ordered by Korea Research Institute of Bioscience and Biotechnology / National Research Safety Information Headquarters

System National Research Safety Information System



Ordered by Korea Research Institute of Bioscience and Biotechnology
System Biotech Information Portal (BioIN)

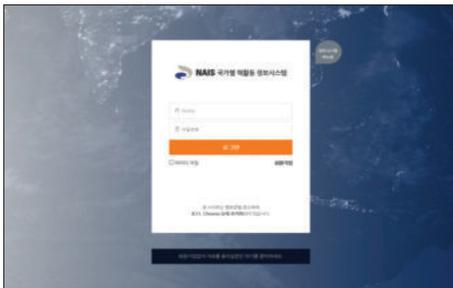


Ordered by Korea Association of University, Research Institute and Industry

System University, Research Institute and Industry Plus System



Ordered by Korea Institute of Nuclear Safety
System License Test Management System



Ordered by Korea Institute of Nuclear Nonproliferation and Control
System Nuclear Information Management System



Ordered by Small & Medium Business Administration
System Technology-connected Platform

MEMO

AtwoM Co., Ltd.

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Yuseong-gu, Daejeon Metropolitan City, ROK

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We will be with you for your
success with the best quality and
customer surprise.





BEST e-BUSINESS PARTNER

AtwoM, the e-Business leader, will be your best partner.

