



SYSTEM INTEGRATION

Empowering Future-Ready Infrastructure

Connecting intelligent technologies to drive sustainable business growth. Through a comprehensive smart infrastructure ecosystem that integrates digital systems, physical infrastructure, and operational platforms into a single unified solution — enabling seamless and scalable growth.



Smart ICT

Establishing a high-performance communication backbone network to ensure stable connectivity and fast data transmission across the entire project area.



Smart Security & AI Intelligence

Enhancing security with AI-powered surveillance systems capable of real-time monitoring and incident analysis 24/7.



Intelligent Power & Automation

Equipped with advanced electrical systems and SCADA-based automation technology to enable precise and secure energy management.



Smart Water & Predictive Analytics

Managing water systems through IoT and AI technologies to enable predictive monitoring, reduce risks, and optimize resource utilization.



Full-Service Operation & Maintenance (O&M)

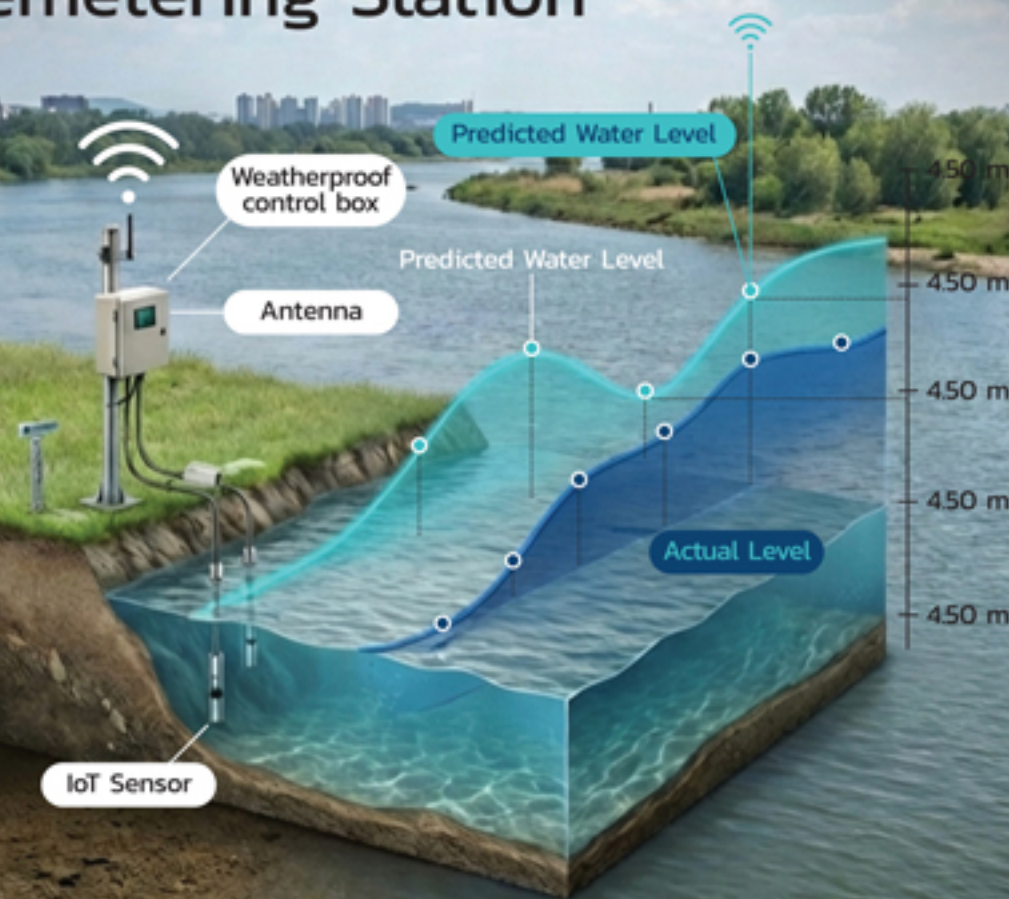
Ensuring 100% system efficiency with expert engineering support and predictive maintenance throughout the system lifecycle.

Smart Water & Predictive Analytics

Intelligent Water Management with Accurate Forecasting for Safer Cities

We transform conventional water management into an intelligent system capable of sensing, predicting, and responding in advance, helping cities mitigate flood risks while improving public health and environmental sustainability.

Telemetering Station



Telemetering & IoT Sensors Real-Time Water Level Monitoring

Advanced water level and rainfall monitoring systems equipped with IoT sensors continuously collect environmental data and transmit it to a central control system in real time. This enables authorities to monitor water level changes and identify potential risk areas before critical situations occur.

SCADA for Water Management Automated Pump & Gate Control

A centralized SCADA system enables operators to remotely control water pumps, drainage gates, and reservoir infrastructure. This ensures efficient water distribution, improves operational responsiveness, and enhances safety during flood management operations.

Water Quality Monitoring Ensuring Safe and Sustainable Water Resources

Smart sensors continuously analyze water quality parameters and detect potential contaminants. The system immediately alerts operators when abnormal conditions are detected, ensuring safe and reliable water resources for communities.

Flood Forecasting & AI Analytics Predictive Flood Risk Intelligence

Using AI-powered analytics and historical data, the system forecasts flood trends and potential risk levels in advance. This allows authorities to prepare evacuation plans and implement preventive measures before disasters occur.

Smart Wastewater Treatment Automated Wastewater Processing Systems

Intelligent wastewater treatment solutions integrate automation and advanced monitoring technologies to ensure efficient processing before discharge. The system optimizes performance while ensuring compliance with environmental standards.

Smart ICT

A Strong Digital Foundation for Reliable Connectivity Across Every Dimension

Because communication infrastructure is the backbone of modern cities, AMR Asia focuses on delivering fully integrated communication systems that enhance urban environments and improve citizens' access to information. This ensures readiness for future transformation through the following solutions.

Backbone Network Infrastructure



Intelligent Data Highway

Deploying high-speed fiber optic backbone networks to connect key operational centers and strategic locations. This ensures fast, stable, and secure data transmission—supporting the expansion of digital services and future smart city infrastructure.

Radio & Wireless Systems



Mission-Critical Communication Systems

Advanced radio communication networks and wireless infrastructure designed for field operations and public safety. These systems support real-time coordination, rapid incident response, and reliable communication across nationwide coverage.

Public Information System



Smart Public Communication Platform

Enhancing communication between authorities and citizens through digital signage and public information platforms. Providing real-time announcements, public alerts, and essential information to support efficient and transparent public services.

Comprehensive Conference System



Smart Collaboration & Meeting Environment

Advanced meeting and collaboration solutions that enable seamless communication between teams and organizations. Designed to enhance decision-making, improve productivity, and support effective cross-functional collaboration.

AIoT Platform & Analytics



Integrated Data Intelligence Center

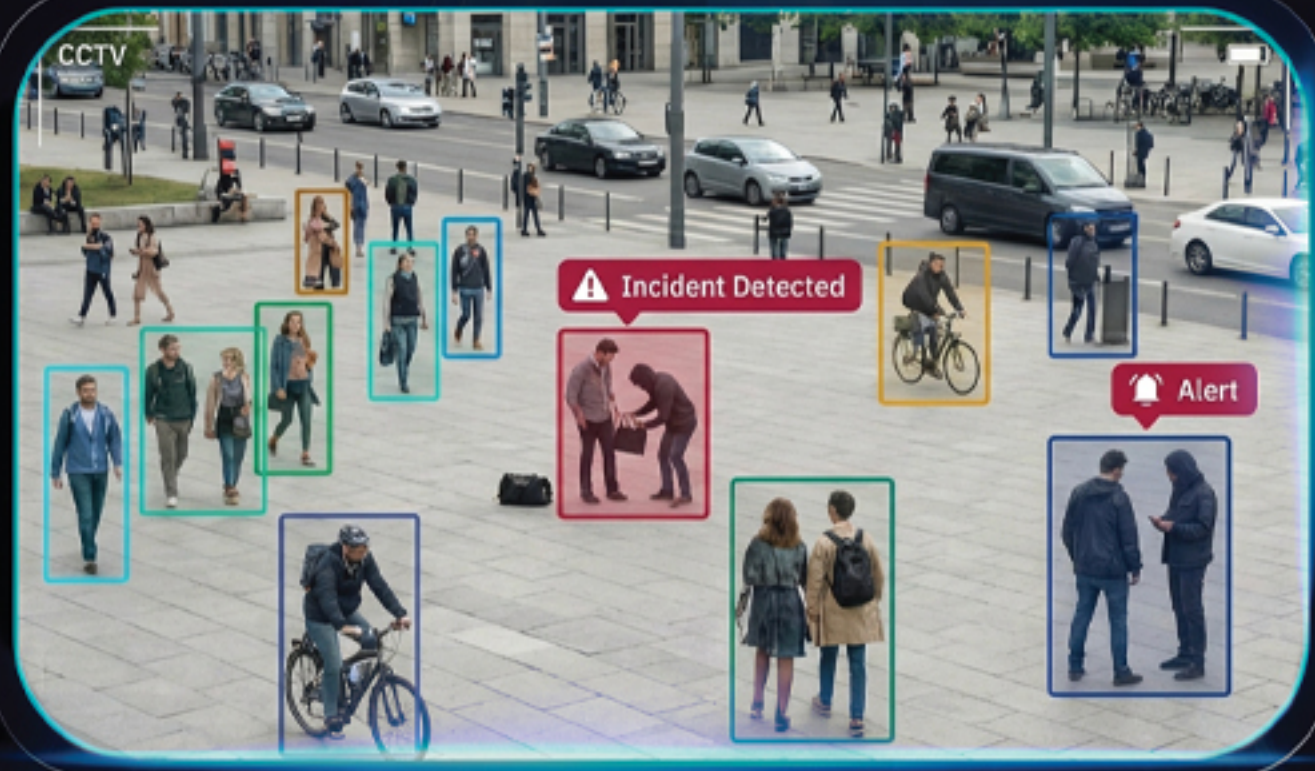
A centralized platform integrating Artificial Intelligence (AI) and Internet of Things (IoT) technologies. It collects and analyzes real-time data from multiple systems—enabling predictive insights, smarter decision-making, and proactive city management.

Smart Security & AI Intelligence

Intelligent Security Systems for Safer Cities

We transform traditional security systems into intelligent platforms capable of real-time monitoring, advanced analytics, and automated alerting.

Designed to safeguard lives and property through 24/7 continuous surveillance across urban environments.



24/7 High-Resolution Surveillance : Real-Time Situational Monitoring

High-resolution cameras capture clear images both day and night, enabling long-range monitoring and rapid incident detection.

This supports authorities in maintaining safety across public areas and critical facilities at all times.

AI Behavior & Incident Detection : Intelligent Behavior Analysis

Powered by Artificial Intelligence (AI), the system automatically detects abnormal activities, suspicious behavior, and potential threats.

Instant alerts are sent to authorities, enabling rapid response and enhanced public safety.

Centralized Command Operations : Unified Monitoring & Control Center

A centralized platform integrates video feeds and security data from multiple locations into a single interface.

This enables faster decision-making, efficient incident management, and complete situational awareness.

Long-Distance Smart Connectivity : Reliable Data Transmission Network

A highly stable communication network ensures seamless data transmission, even from remote locations.

Video feeds and alert signals are delivered in real time—ensuring no critical events are missed.

Smart Access Control : Intelligent Entry & Exit Management

Digital access control systems manage and monitor entry to buildings and restricted areas.

All access activities are recorded to enhance security, traceability, and operational oversight.

Intelligent Power & Automation

Building the Foundation for Smart Energy

We deliver integrated electrical engineering systems designed to work seamlessly together, enabling automated, precise, and secure energy management across urban environments through the following solutions:

SUBSTATION AUTOMATION & UNDERGROUND CABLE SYSTEMS



Advanced Power Distribution Infrastructure

Development of digitally controlled substations combined with underground power cable systems to enhance safety, reduce visual pollution, and improve urban landscapes. The system ensures stable, efficient, and uninterrupted power distribution throughout the city.

SOLAR ENERGY & BATTERY STORAGE SOLUTIONS



Clean Energy Generation & Storage

Development of digitally controlled substations combined with underground power cable systems to enhance safety, reduce visual pollution, and improve urban landscapes. The system ensures stable, efficient, and uninterrupted power distribution throughout the city.

EV CHARGING INFRASTRUCTURE



Advanced Power Distribution Infrastructure

Renewable energy systems utilizing solar power generation and battery energy storage solutions to provide sustainable electricity supply. This helps reduce dependence on conventional energy sources and supports long-term environmental sustainability.

SMART METERING & ENERGY MONITORING SYSTEMS



Smart Electric Vehicle Infrastructure

Deployment of EV charging stations designed to support various charging standards and smart energy management. These stations provide safe, reliable, and convenient charging solutions to support the transition toward clean transportation and smart mobility.

GRID MONITORING & MANAGEMENT



Intelligent Energy Consumption Monitoring

Smart electricity meters capable of automatically collecting and transmitting energy usage data. This enables accurate billing, better consumption insights, and improved energy management efficiency.

Full-Service Operation & Maintenance (O&M)

Expert System Management for Maximum Performance Throughout the Lifecycle

We provide comprehensive operation and maintenance services to ensure that every smart infrastructure system operates at peak efficiency—delivering reliable, high-performance results 24/7 throughout its entire lifecycle.



Maintenance Service

Preventive maintenance to ensure optimal system performance and equipment reliability

Scheduled inspections to identify and mitigate potential issues in advance

Rapid on-site technical support for unexpected incidents

System optimization to enhance efficiency and extend equipment lifespan



Operational Service

Training programs for local staff and system operators

Dedicated technical specialists providing continuous professional support

Automated monitoring and reporting systems for performance tracking

24/7 service center for real-time monitoring, technical assistance, and incident response

Projects Reference



Bangkok Metro Fiber

Deployment of fiber optic network infrastructure covering 50 districts across Bangkok.



MEA/PEA Substation

Automation system upgrades for major electrical substations.



Water Management

Flood monitoring and water management systems deployed across key pumping stations in Bangkok.



Suvarnabhumi Airport

Implementation of RFID systems, communication networks, and intelligent access control at Thailand's international gateway.



Gpo Indoor Cannabis Cultivation

Advanced environmental control and automation systems for pharmaceutical-grade indoor cultivation facilities.

