



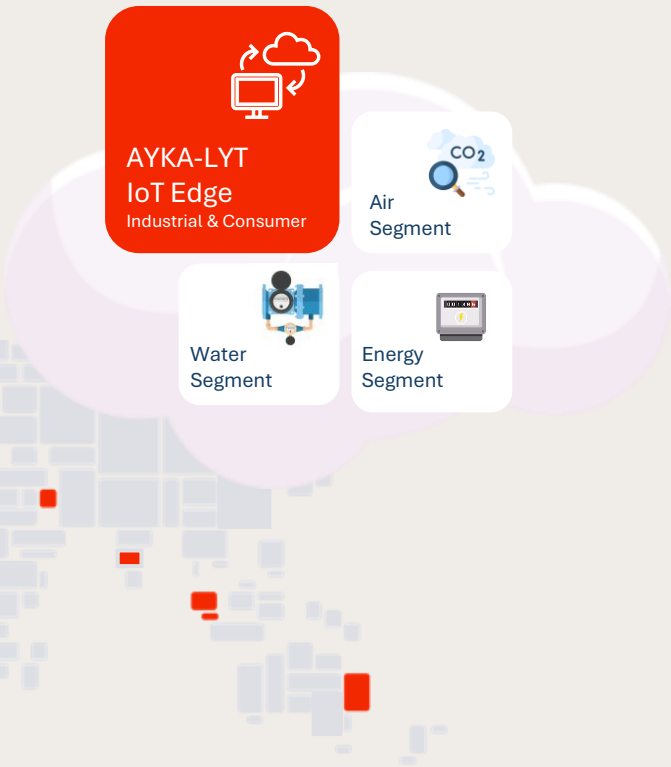
Transforming Businesses
SMART > SECURED > SUSTAINABLE

About AYKA

Established **2013** Over **50+** projects delivered globally

Experts in highly customized solutions **10+** Solutions

Collective experience of **20+** Years



Our Clients

5+
Countries

20+
Industries

120+
Subject Matter Experts



AYKA

Water Management



AYKA delivers a **comprehensive 360° view** of water supply, wastewater distribution, and residential water management, enabling smarter decisions for all stakeholders.

Government Officials: Ensure optimal water distribution (LPCD) and quality compliance with real-time monitoring and predictive analytics.

Industries: Maximize efficiency, reduce downtime, and maintain seamless operations with automated insights.

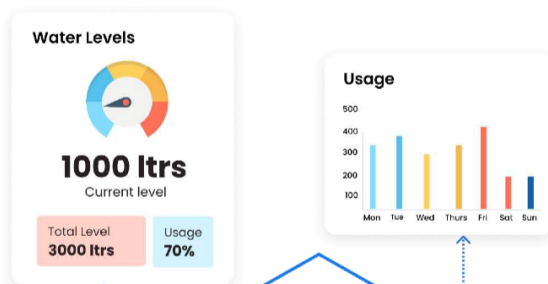
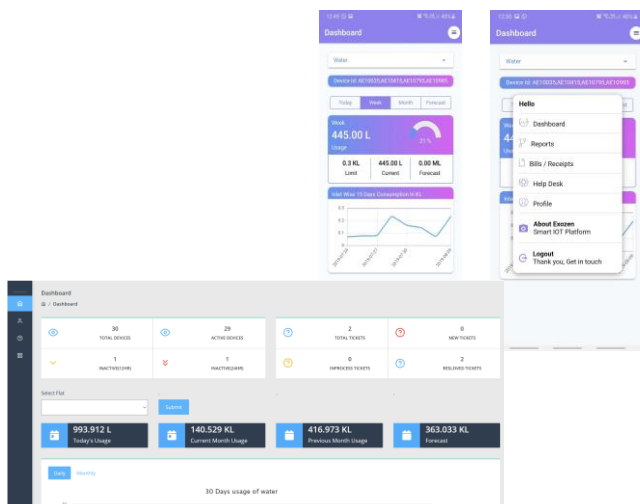
Residential Communities: Track water usage, detect leaks early, and promote sustainable consumption with smart metering and alerts.



Features:

- ✓ **Automated Data Collection** – No manual readings, ensuring accuracy and reliability.
- ✓ **AI-Powered Reporting & Alerts** – Instant insights and proactive notifications for leaks, wastage, or anomalies.
- ✓ **Remote Monitoring & Control** – Manage water systems from anywhere for uninterrupted service.
- ✓ **Residential Water Management** – Real-time usage tracking, consumption analytics, and automated billing integration.

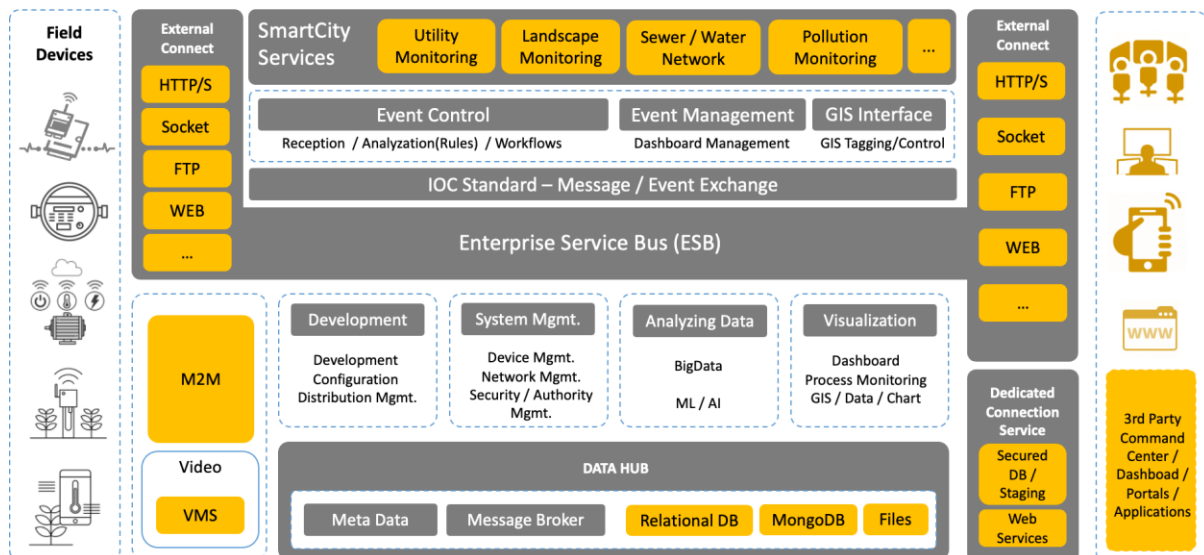
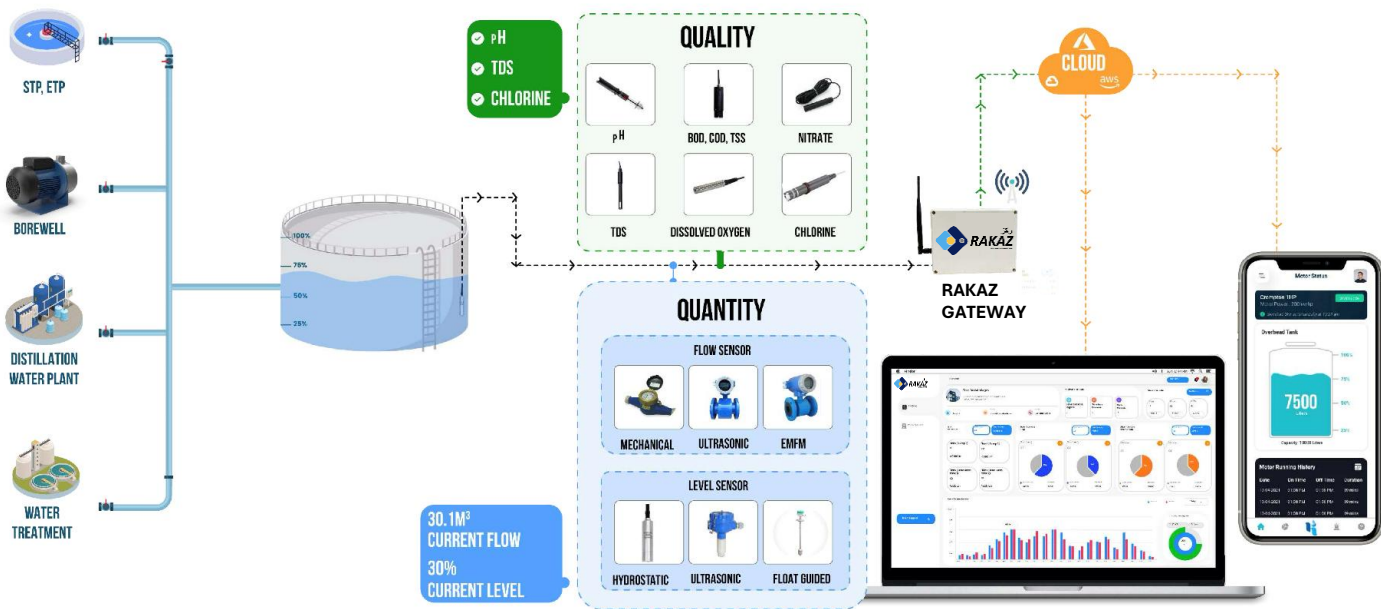
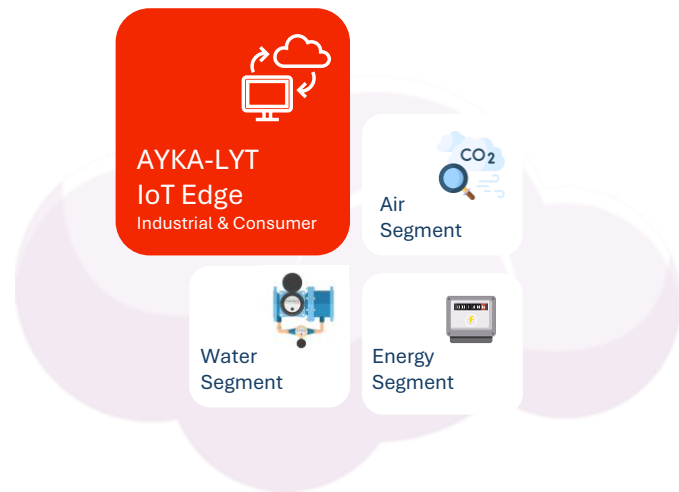
With **AYKA**, optimize water sustainability, enhance operational efficiency, and empower smarter water management—all in one intelligent platform.





Product Architecture

AYKA delivers tailored solutions designed to address sector-specific challenges, powered by **customizable dashboards** that adapt to each user's unique operational needs.



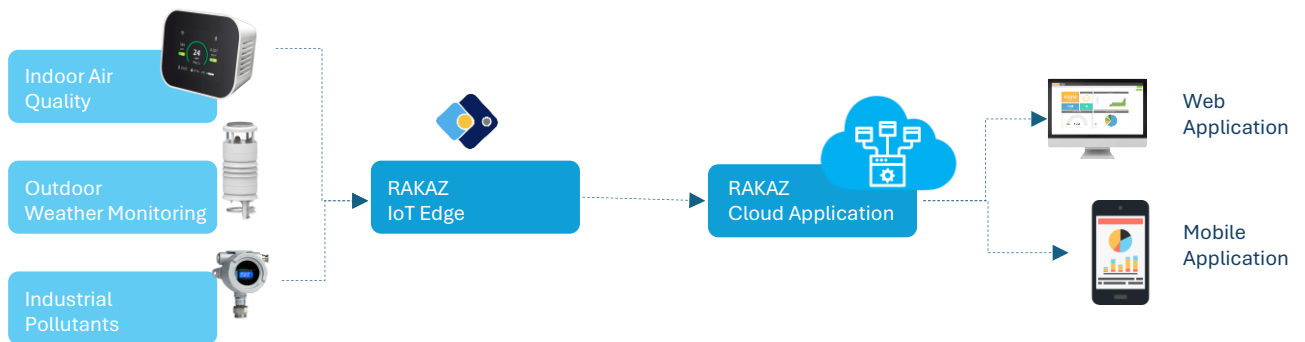
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Air Quality Monitoring



We are an industry leader in IoT enabled air quality and weather intelligence solutions tested around the world for accurate observations and proven performance.

A fully integrated station that can provide integrated air quality metrics like Air Quality Index (AQI) and Air Quality Health Index (AQHI), and monitor multiple pollutants and parameters simultaneously, including air quality sensors such as **NO, NO2, CO, O3, SO2, CO2, VOCs, H2S, PM (PM10, PM2.5, PM1)**, as well as temperature, relative humidity, and barometric pressure (with optional environmental sensors to capture data on wind speed and direction, ambient light and noise, and rainfall).



Dashboard Overview

Location: Male Washroom Arrival side Mumbai T2

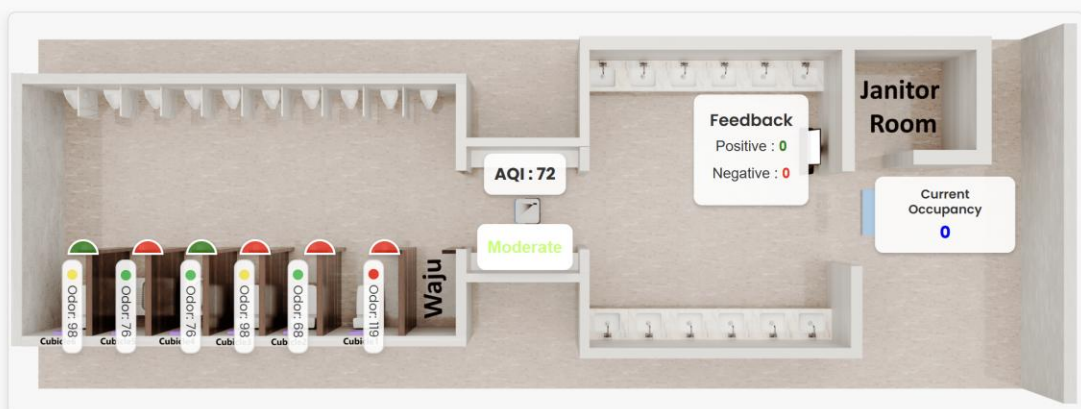
Refresh Rate: 1 min

28.35°C Cloudy

Location: Mumbai International Airport, Vile Parle, Mumbai

Source: Open Weather

Last Updated: 12/07/2025, 08:10:38 am



Cubicle Occupancy

Not Occupied
Occupied

Odor

Good (0-95 ppm)
Moderate (96-110 ppm)
Bad (> 110 ppm)

AQI

Good (0-50)
Moderate (51-100)
Unhealthy if Sensitive (101-150)
Unhealthy (151-200)
Very Unhealthy (201-300)
Hazardous (301-500)

Last Data Updated: 12/07/2025, 06:40:40 am

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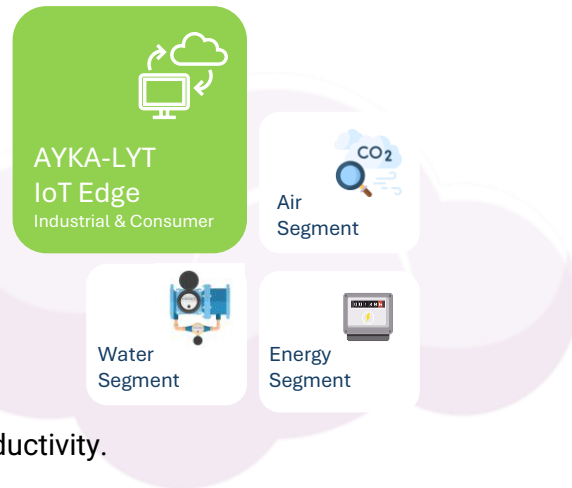
SMART IRRIGATION



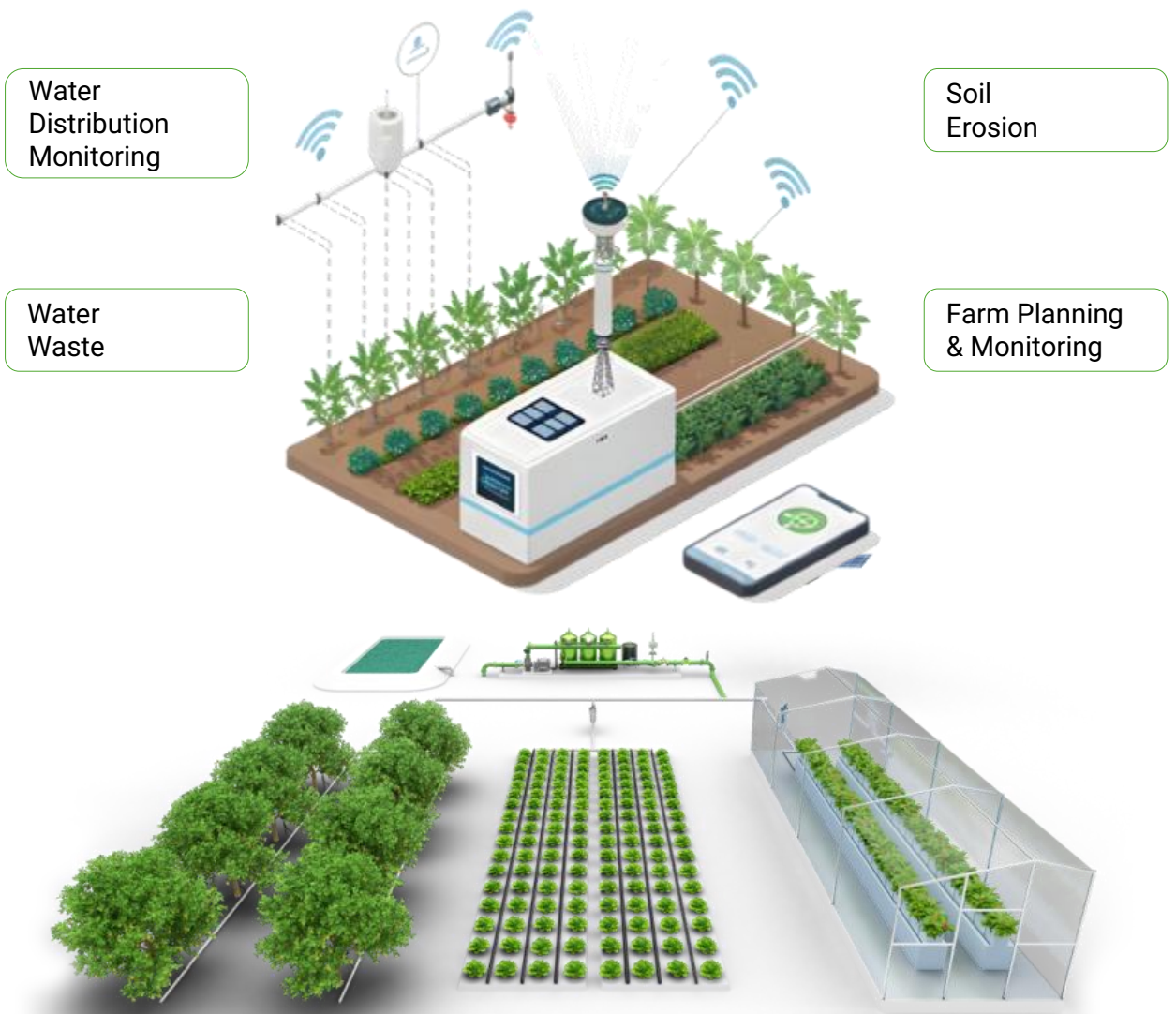
AYKA's IoT based Landscape / Irrigation Management Solutions

IoT enabled smart Landscape and Agriculture systems to irrigate, and it executes the irrigation decision without human intervention.

We understand the importance of reducing water usage in a time where it's no longer economically, legally, or socially sustainable to waste.



- ✓ **Higher Crop Yields** – Optimized irrigation boosts productivity.
- ✓ **Lower Costs** – Saves water, energy, and labor expenses.
- ✓ **Eco-Friendly** – Reduces waste and supports sustainable farming.
- ✓ **Hassle-Free Automation** – Smart, self-regulating system with minimal maintenance.





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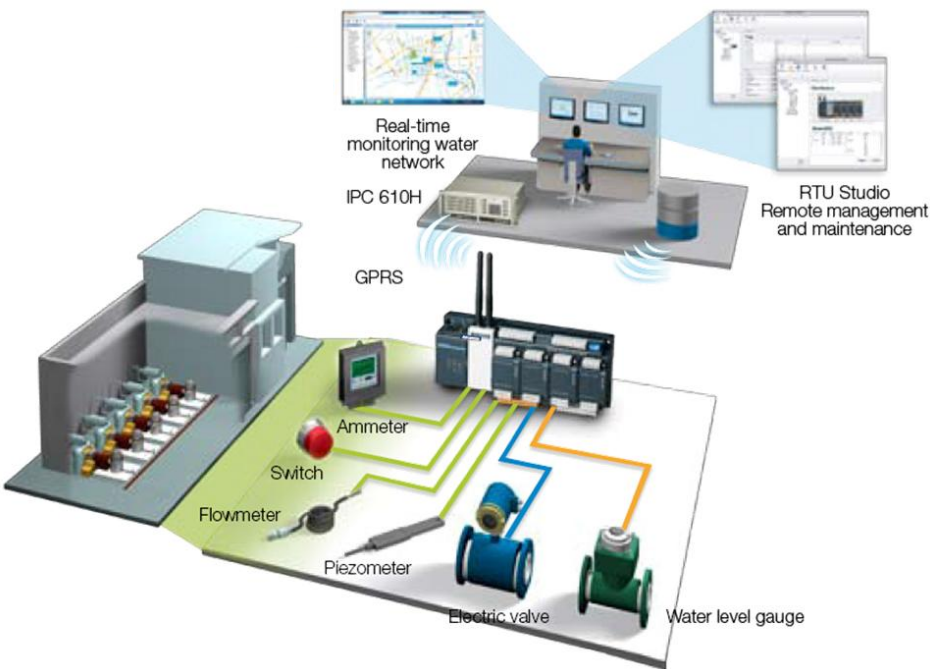
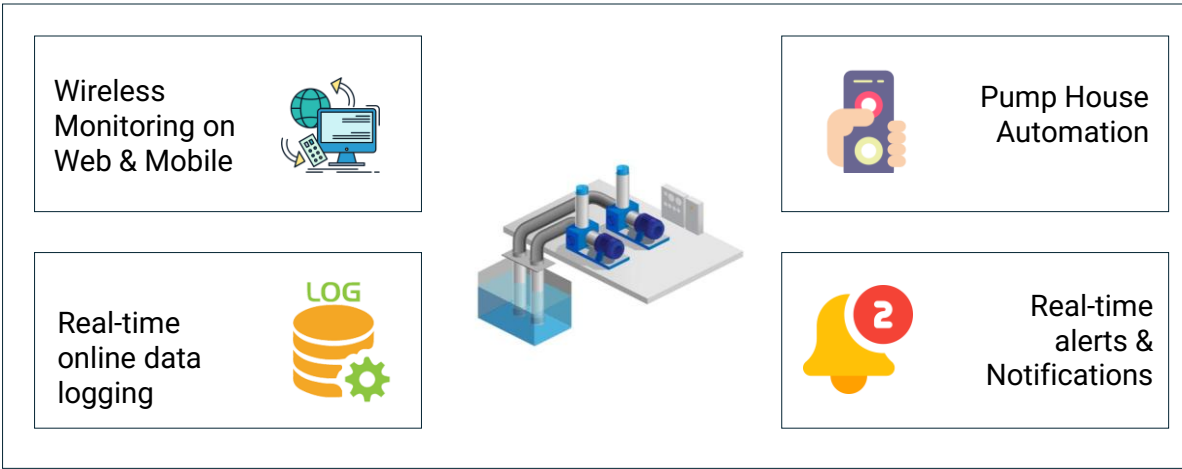
Pumpstation Monitoring

AYKA's IoT based Smart Water grid / Pump station Remote Monitoring Solutions

The open system architecture of the AYKA remote communication system, the integrated I/O can be used to monitor the current, voltage & frequency and start/stop state of the pump, pressure and flow of inlet and outlet, water level, outlet water quality and inlet valve.



Solution features



AYKA

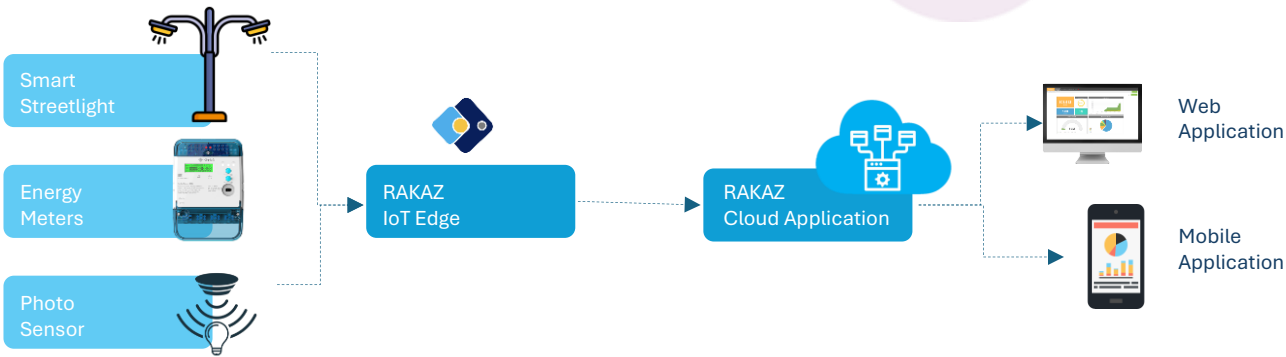
STREET LIGHTING



AYKA's IoT based Streetlight Automation Solutions

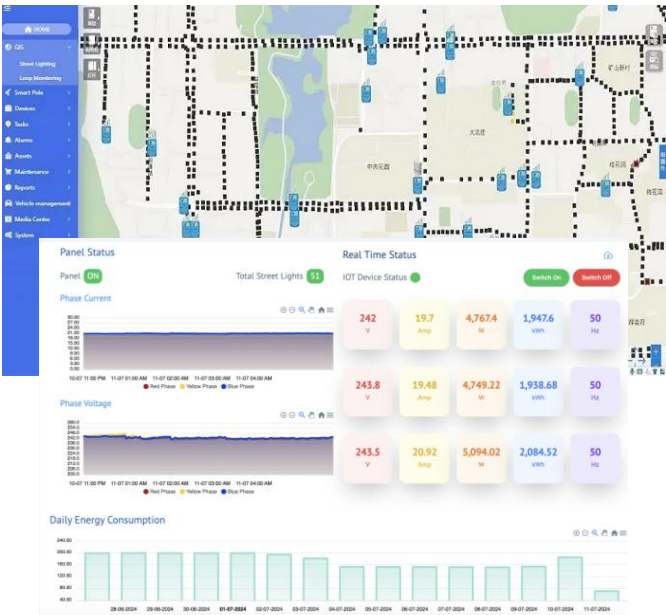
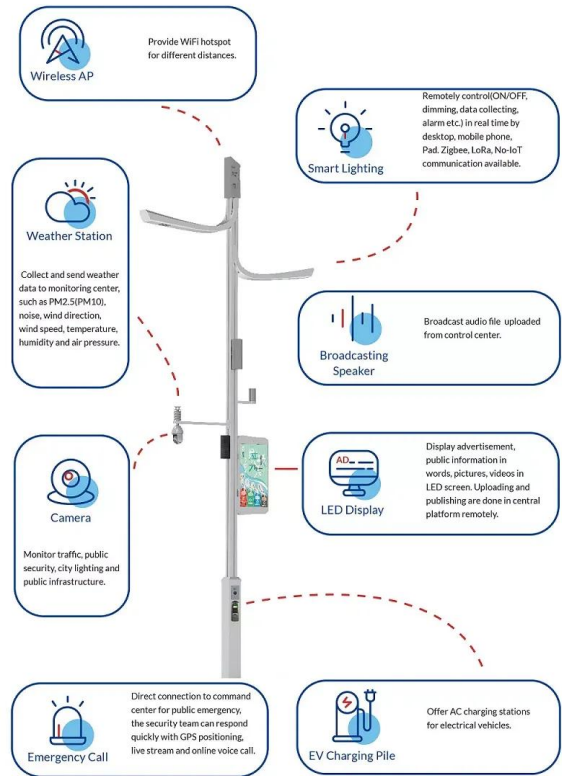
Smart street lighting, we work with city managers and lighting operators, and manufacturers

In a world where lighting accounts for more than 19% of the global power consumption, smart street lighting reduces energy consumption and CO2 emissions by up to 40%, saving millions for communities everywhere.



Advantages:

- Automatic switching of streetlights
- Maintenance cost reduction
- Reduction in CO₂ emission
- Reduction of light pollution
- Wireless communication
- Energy saving
- Reduction of manpower



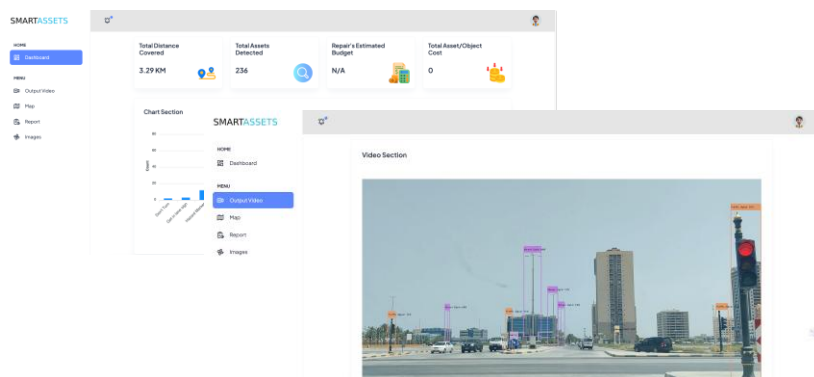
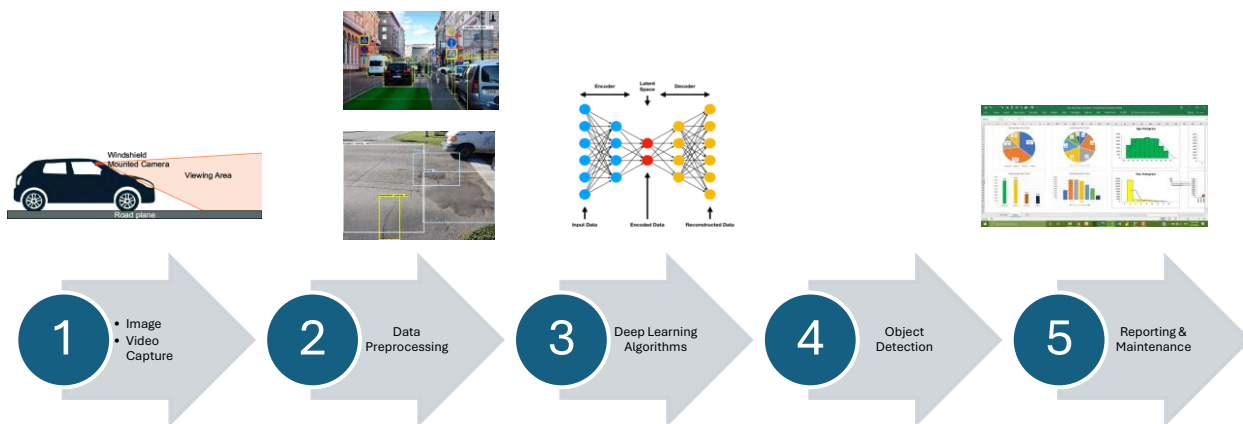
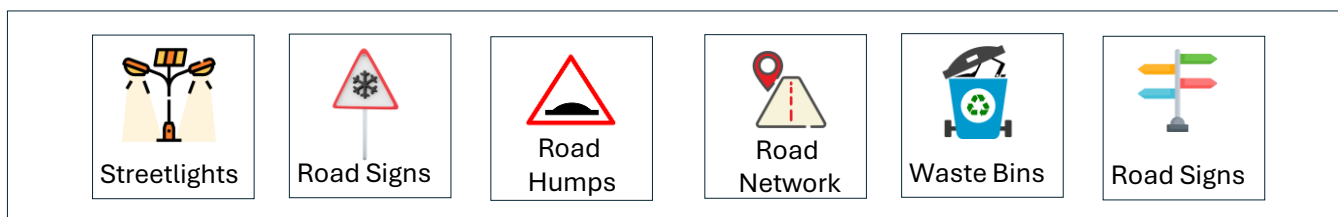
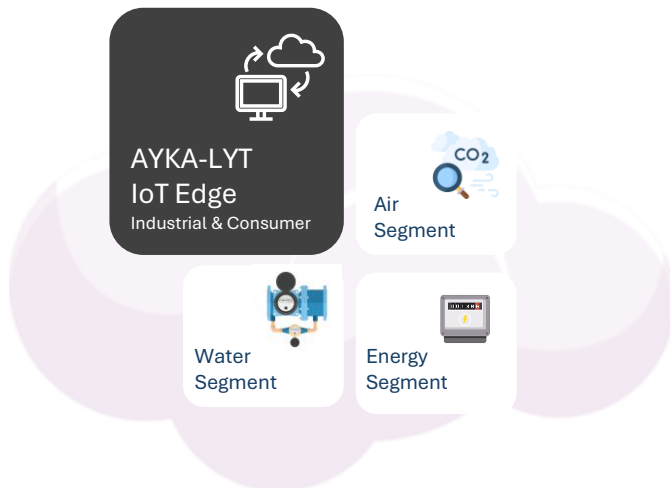
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Road Condition Assessment & Asset Tagging



A fully integrated platform for the Road Condition Assessment, Asset classification, Geo Tagging, and analytics.

- Linear Detections
 - Signboards.
 - Gantry Signboards.
 - Roadside assets
- Non-Linear Detections
 - Identification of Potholes
 - Identification of Cracks.



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Video Surveillance and Analytics



In the world of security, video analytics turns surveillance into more than just recorded data. These top-end video analytics can provide valuable insight on your property – like consumer behaviour's, people counting, and daily scorecards – just to name a few.

Generative AI and Deep learning models can be trained with a high video footage capacity to identify, classify, tag automatically, and label specific objects.



License Plate Recognition (ANPR)



Face Recognition System



Crowd Behaviour Analytical System



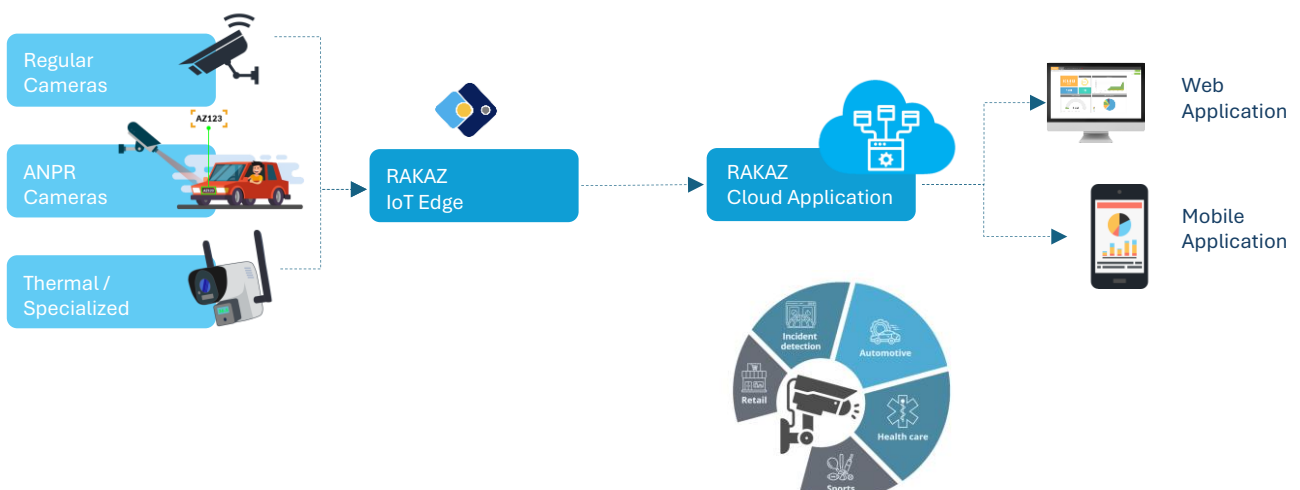
Outdoor Vehicle / People Tracking Counting



Site Monitoring Asset – Motion detection analytics

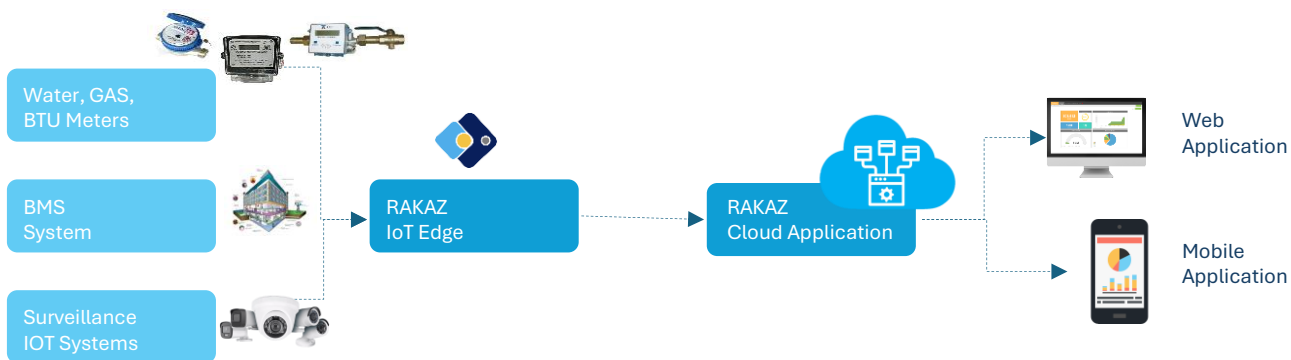


Traffic / Toll Management System



Building Automation & CAFM

- **Live Building Intelligence**
Unified view of BMS, IoT sensors, and meters.
- **Proactive Maintenance**
Fix issues before they cause downtime.
- **Energy & Cost Savings**
Optimize HVAC, lighting, and water use.



- **BMS (Building Automation System)**
- **IoT Gateway & Sensor Networks**
- **Energy & Utility Metering** – Automatic data collection from **BTU meters, water meters, and submeters**
- **Predictive Maintenance**

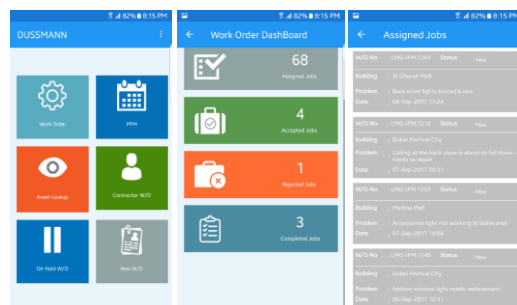
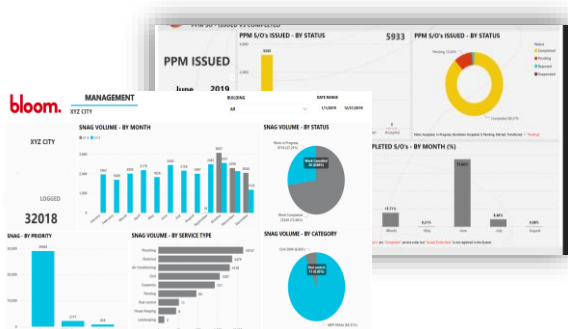
- **Corrective & Preventive Maintenance**
- **Condition-Based Maintenance**
- **Warranty & Lifecycle Tracking** – Automated alerts for expiring warranties.
- **Spare Parts Inventory Sync**

- **AI-Powered Alerts** – Auto-create tickets from BMS alarms or sensor thresholds.
- **Mobile Technician Dispatch** – Assign tasks with real-time equipment diagnostics.
- **Customer Self-Service Portal**

- **Real-time Energy Consumption Dashboards**
- **Automatic Demand Response** – e.g., Lighting based on occupancy
- **Leak & Anomaly Detection**
- **Renewable Energy Optimization**

- **Indoor Air Quality (IAQ) Monitoring**
- **Automated Safety Shutdowns** – Emergency protocols triggered by gas leaks or fire sensors.
- **Regulatory Reporting** – Auto-generate EPA, ISO 50001, or LEED compliance docs.

- **Utility Spend Analytics**
- **ROI Calculators** – Measure savings from efficiency upgrades (e.g., LED lighting).
- **Carbon Tax & ESG Reporting** – Track emissions for sustainability disclosures.



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