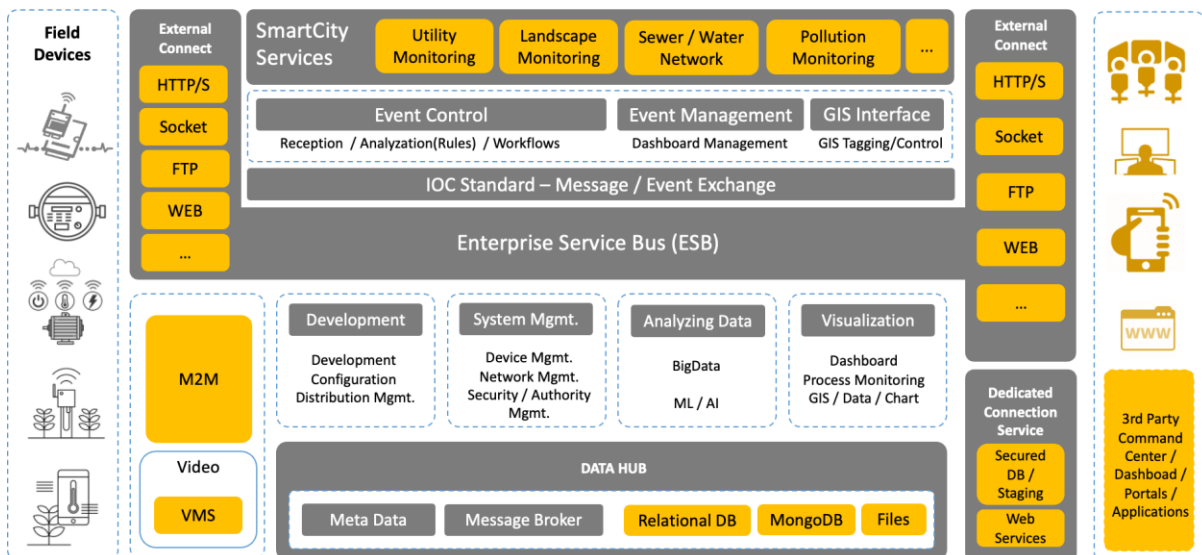
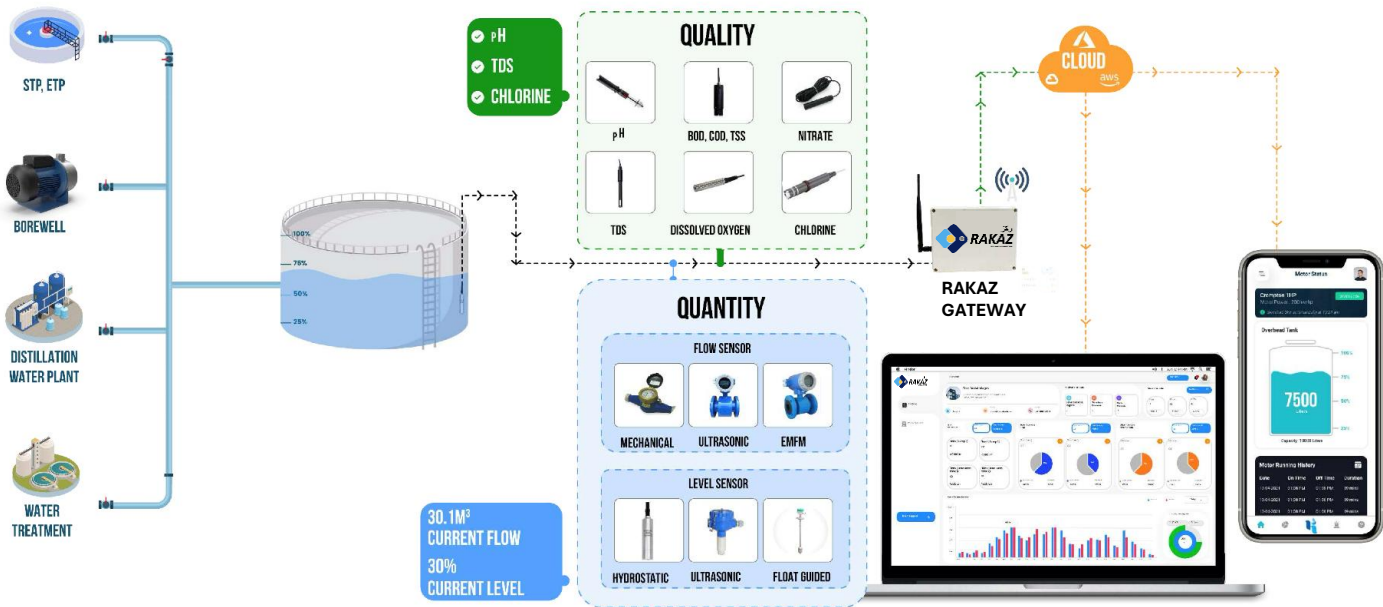
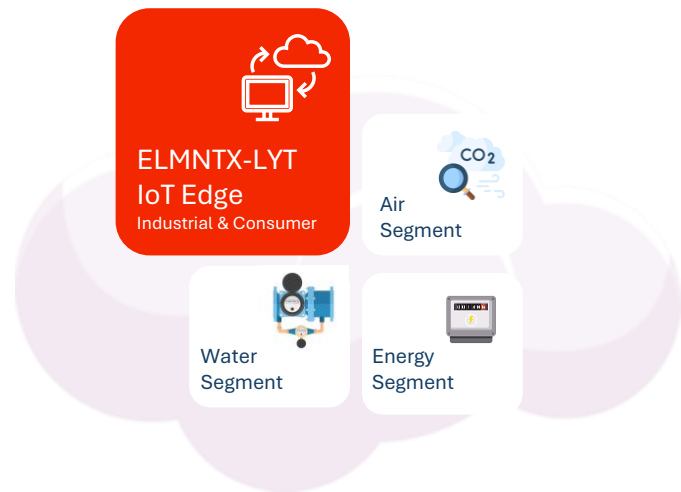




Product Architecture

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

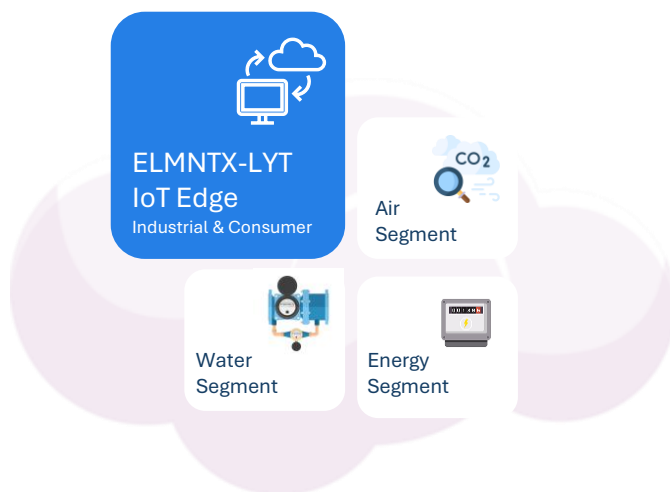


ELMNTX delivers a **comprehensive 360° view** of water supply, wastewater distribution, and residential water management, enabling smarter decisions for all stakeholders.

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.

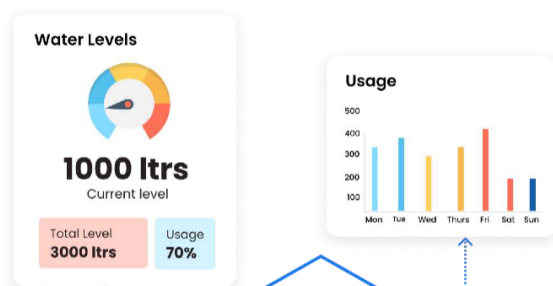
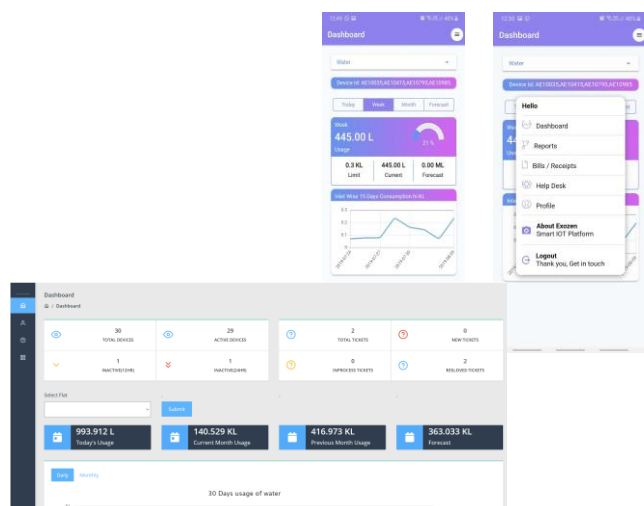
Residential Communities: Track water usage, detect leaks early, and promote sustainable consumption with smart metering and alerts.



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



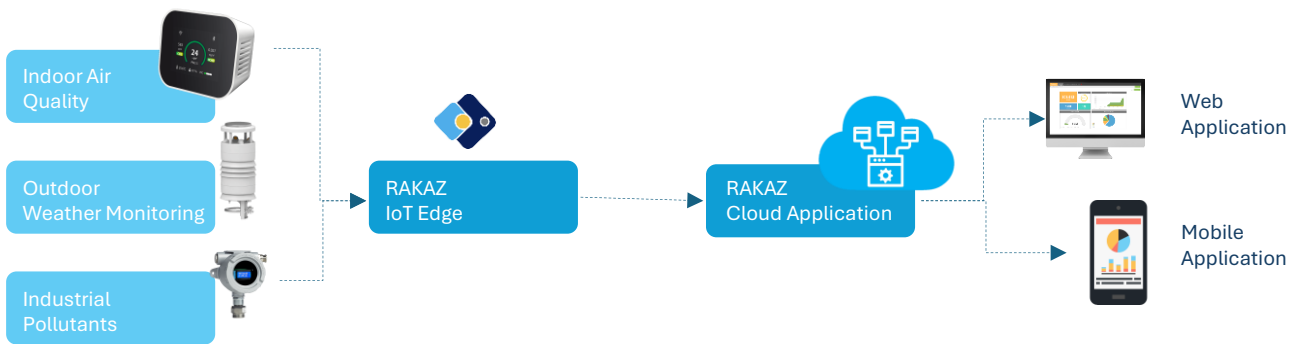
ELMNTX

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).

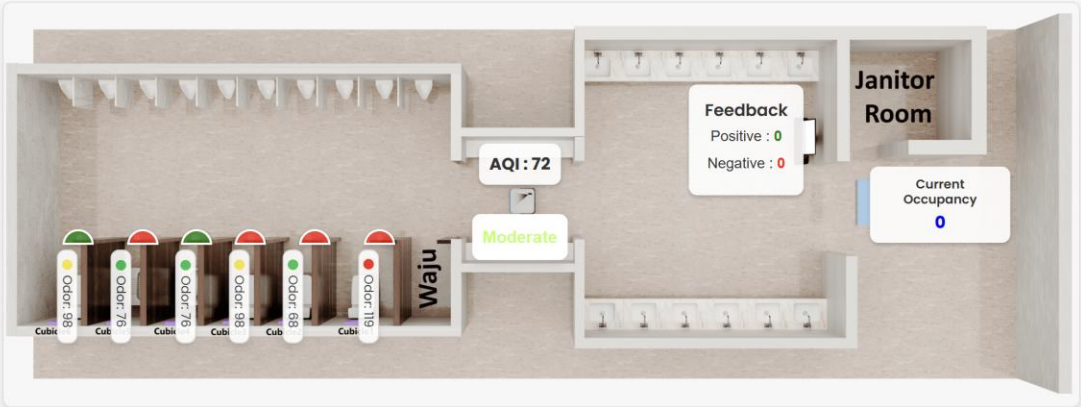


Dashboard Overview

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	Odor	AQI
Not Occupied	Good (0-95 ppm)	Good (0-50)
Occupied	Moderate (96-110 ppm)	Moderate (51-100)
	Bad (> 110 ppm)	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

ELMNTX

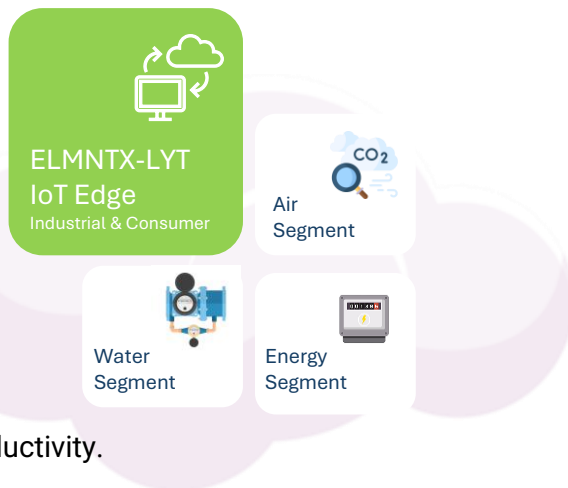
SMART IRRIGATION



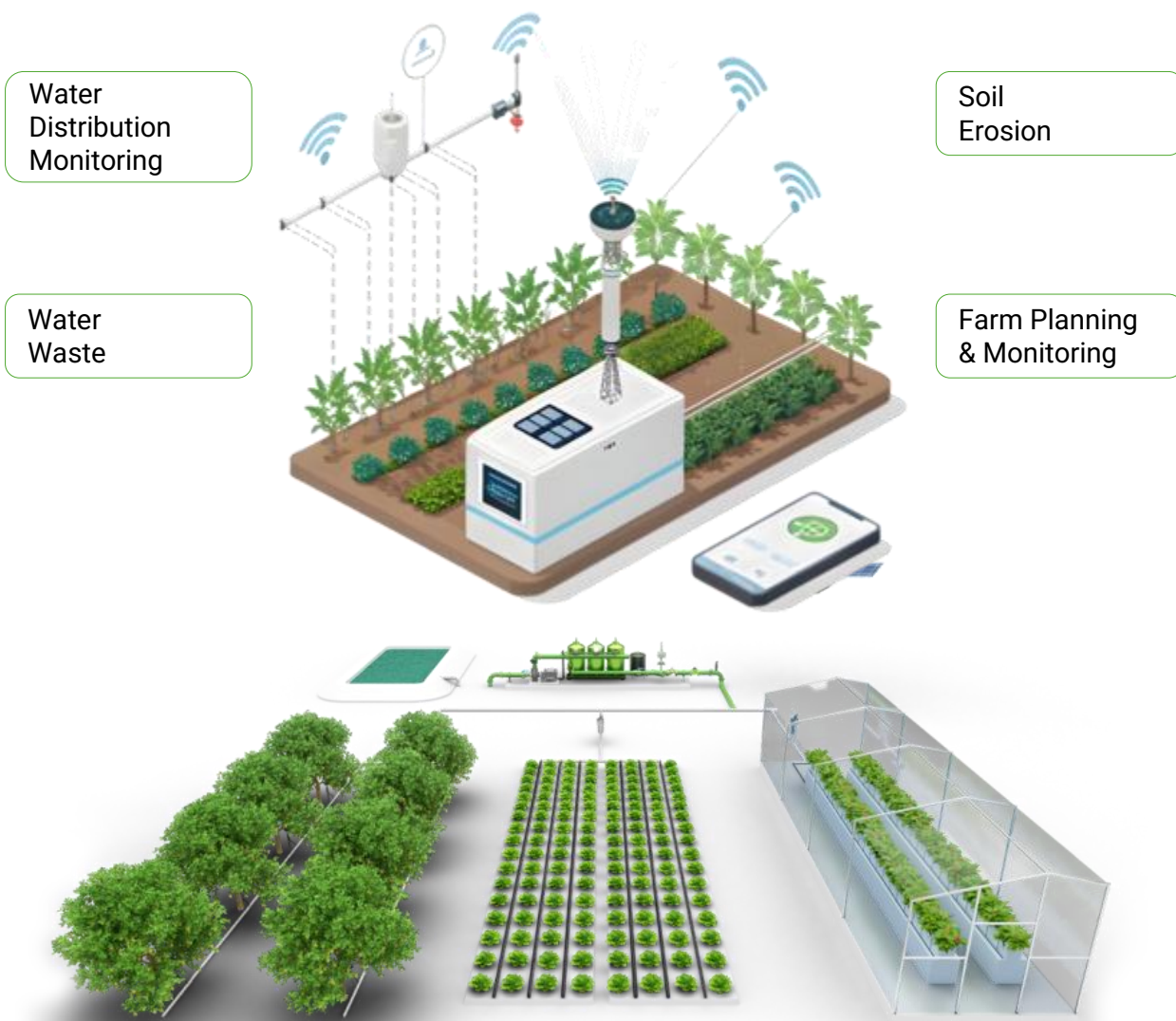
ELMNTX's IoT based Landscape / Irrigation Management Solutions

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.



ELMNTX

Pumpstation Monitoring

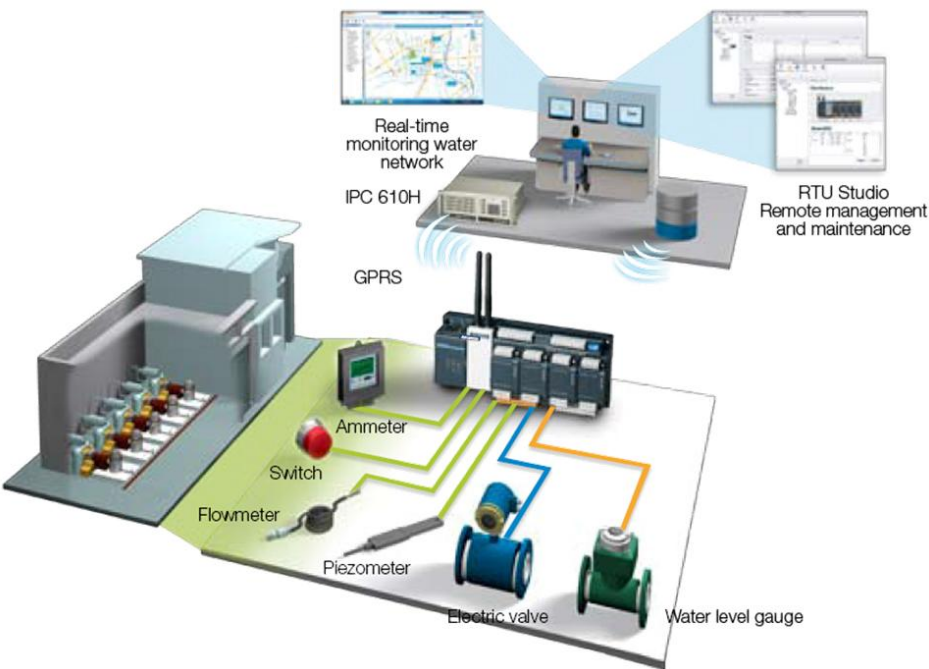
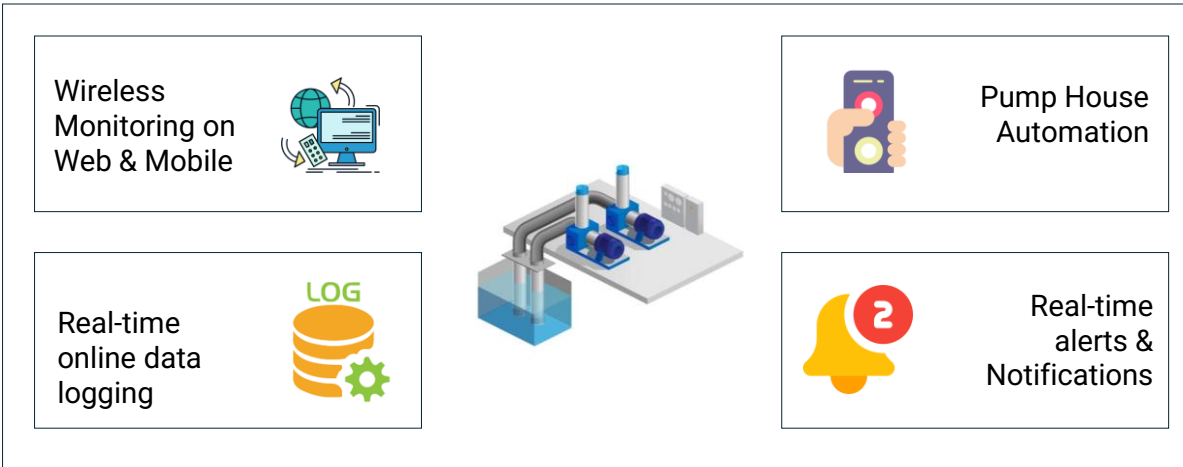


ELMNTX's IoT based Smart Water grid / Pump station Remote Monitoring Solutions

The open system architecture of the ELMNTX 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



ELMNTX

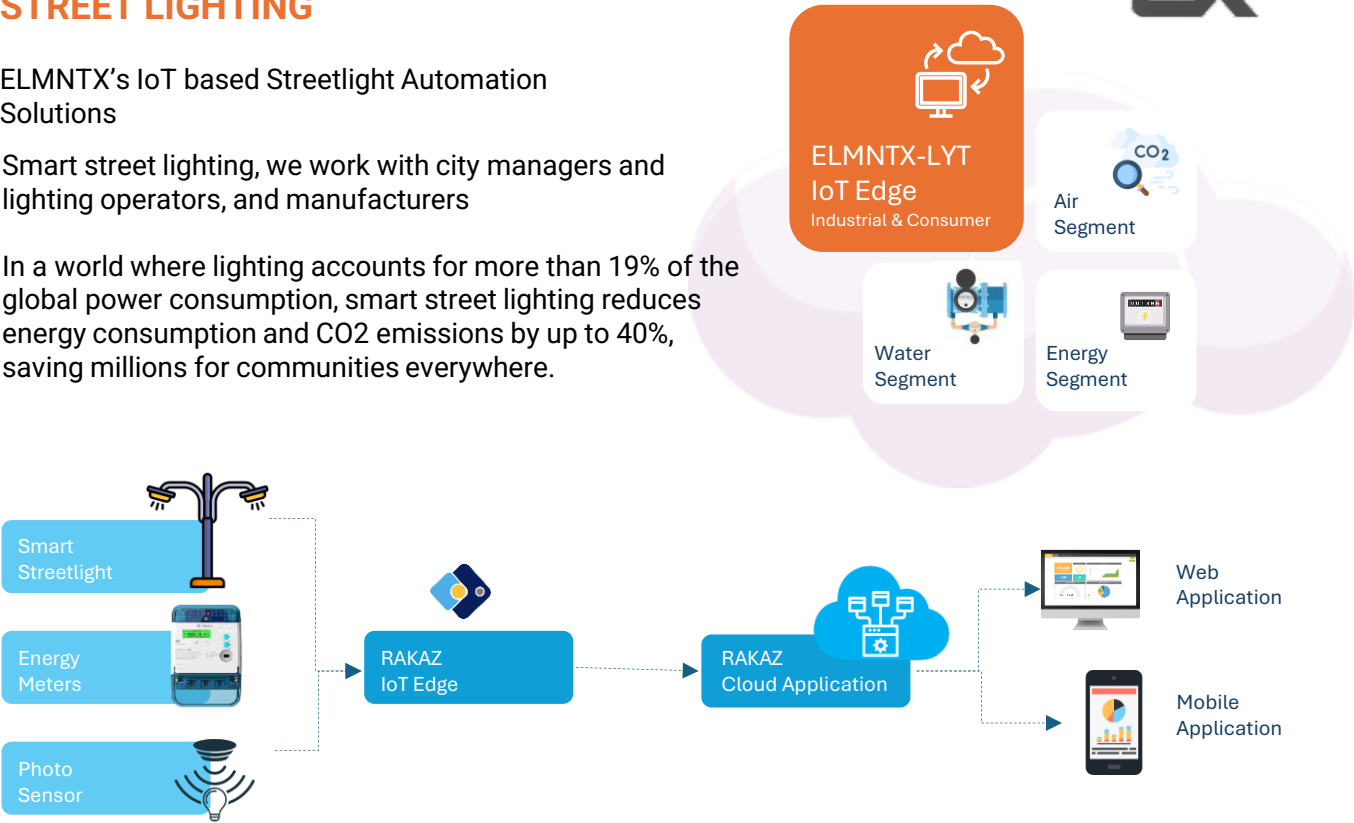
STREET LIGHTING



ELMNTX's IoT based Streetlight Automation Solutions

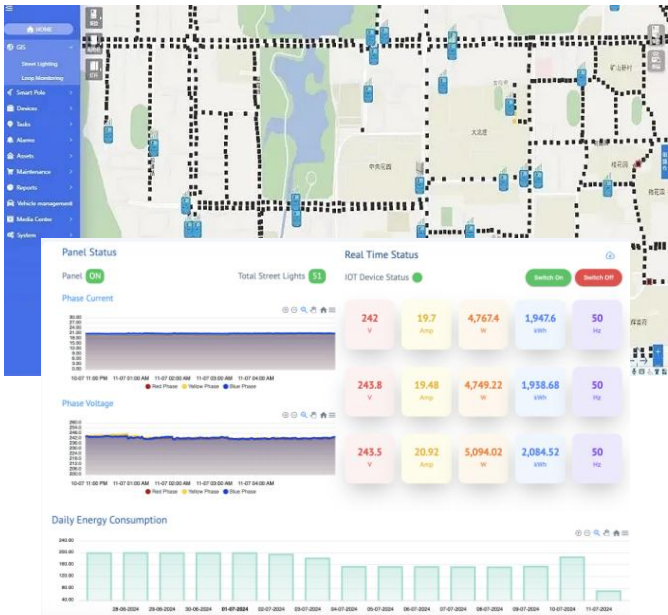
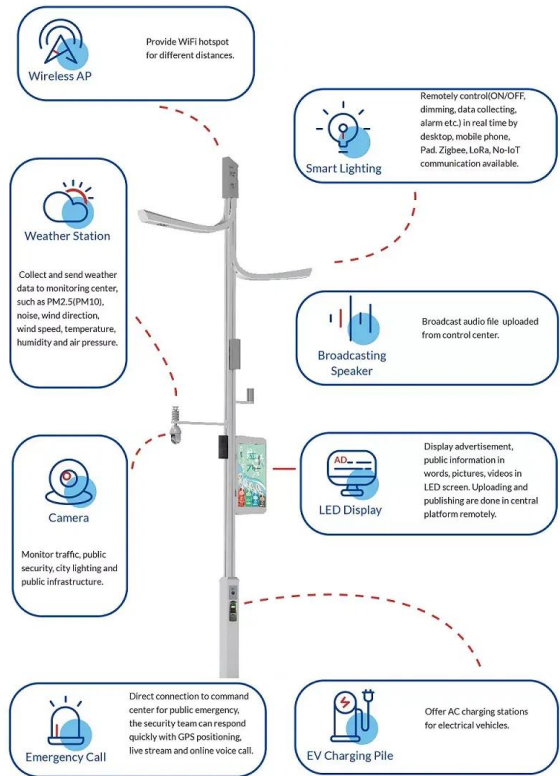
Smart street lighting, we work with city managers and lighting operators, and manufacturers

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



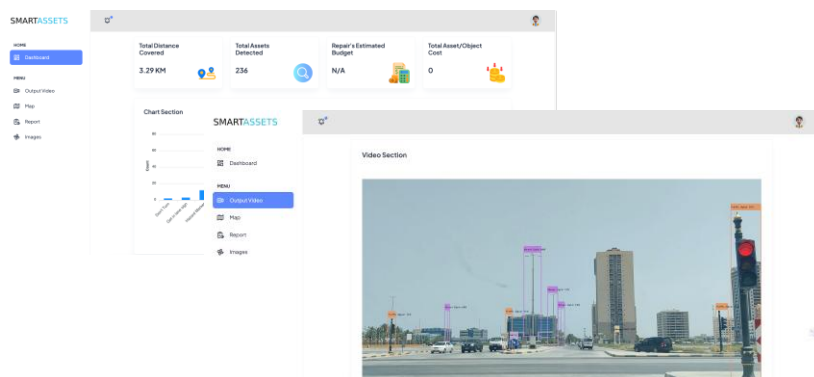
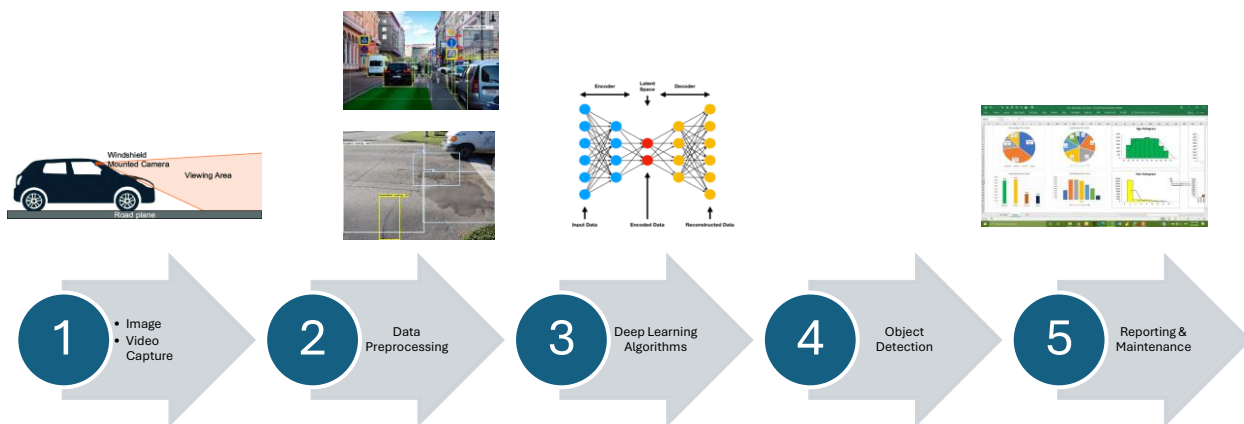
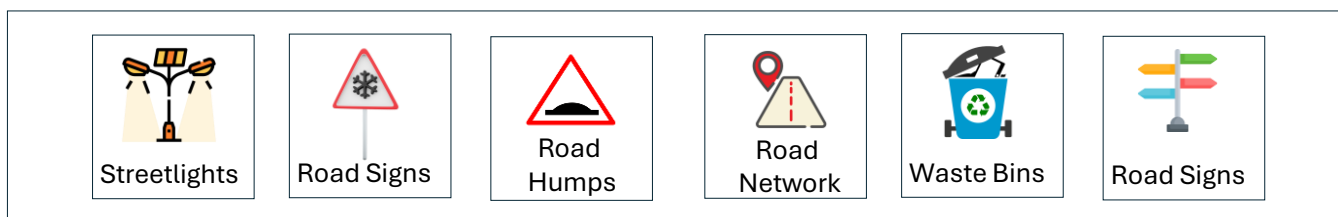
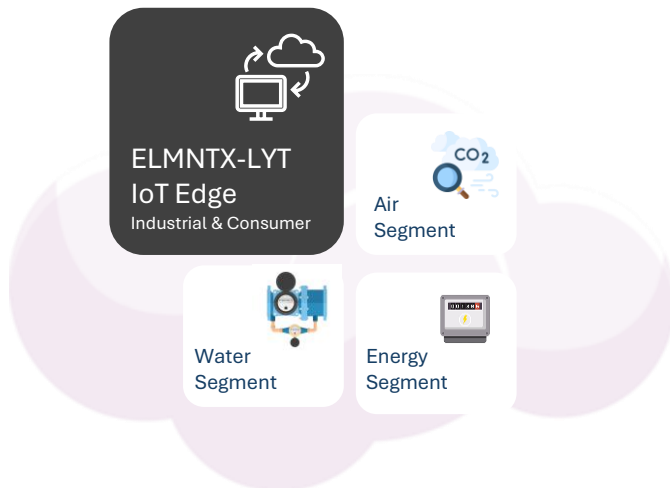
ELMNTX

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.



ELMNTX

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)

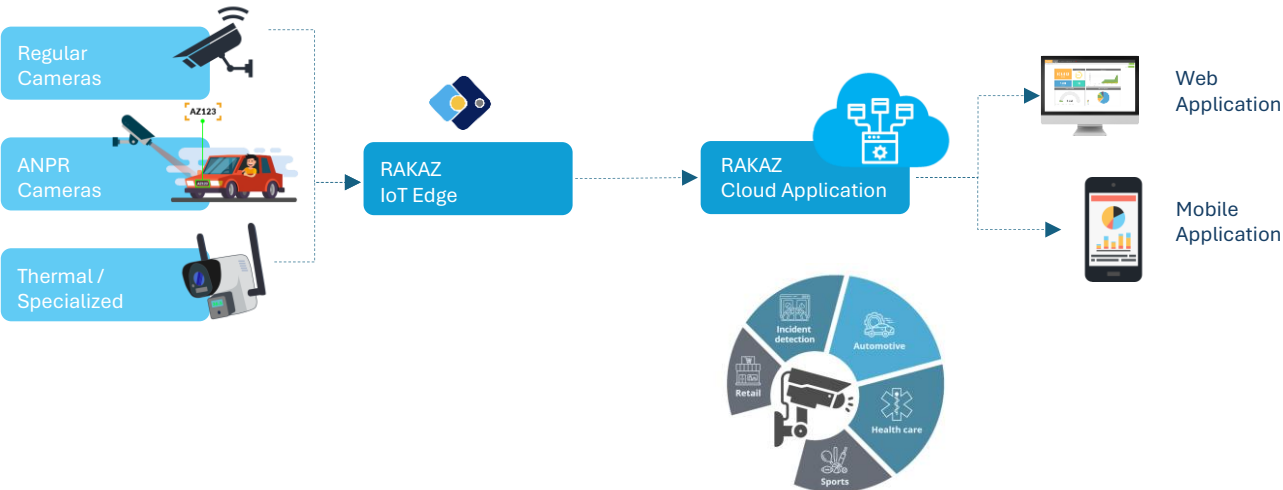
Face Recognition System

Crowd Behaviour Analytical System

Outdoor Vehicle / People Tracking Counting

Site Monitoring Asset – Motion detection analytics

Traffic / Toll Management System

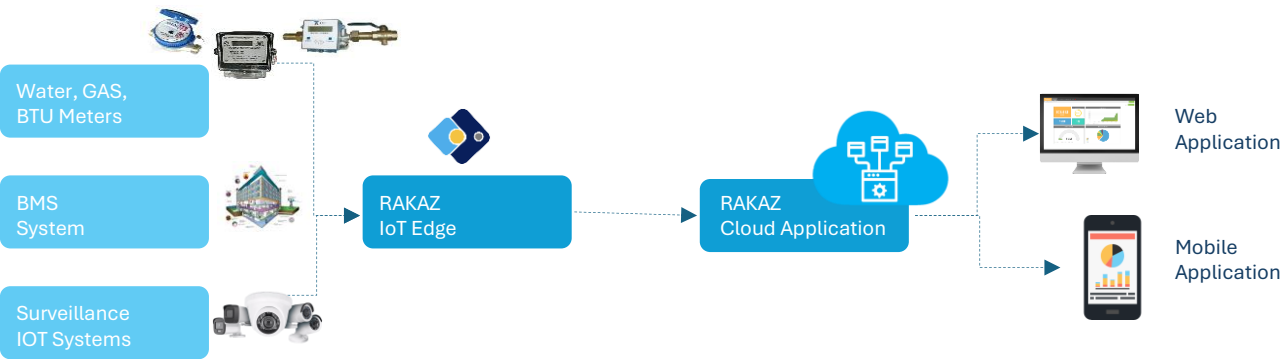


ELMNTX

Building Automation & CAFM

A fully web-based, IoT-enabled Facilities Management (FM) platform with 360° integration across core operational modules and real-time building systems monitoring. The solution digitizes FM operations while seamlessly connecting:

- **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.
- **Automated Compliance**
Streamline audits with digital records
- **Scalable Integration**
APIs for ERP, BIM, SCADA, and smart city systems.



Smart Asset & IoT Integration

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

Enhanced PPM with IoT Data

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

Integrated Help Desk & Automation

- **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**

Energy & Sustainability Management

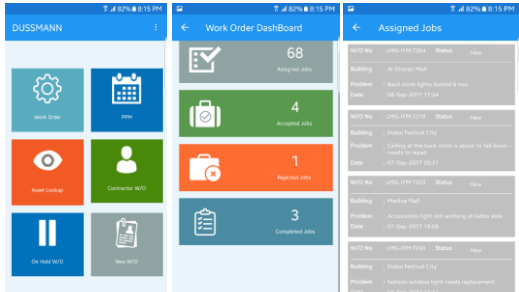
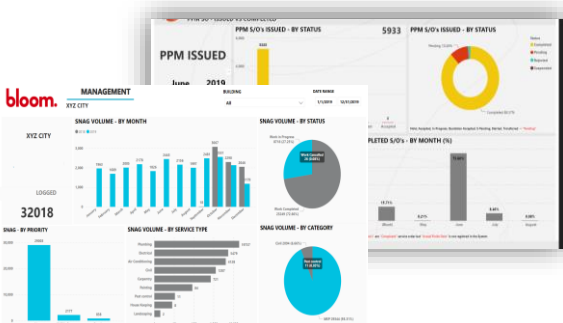
- **Real-time Energy Consumption Dashboards**
- **Automatic Demand Response** – e.g., Lighting based on occupancy
- **Leak & Anomaly Detection**
- **Renewable Energy Optimization**

Compliance & HSEQ Enhancements

- **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.

Budget & Cost Tracking with Smart Data

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





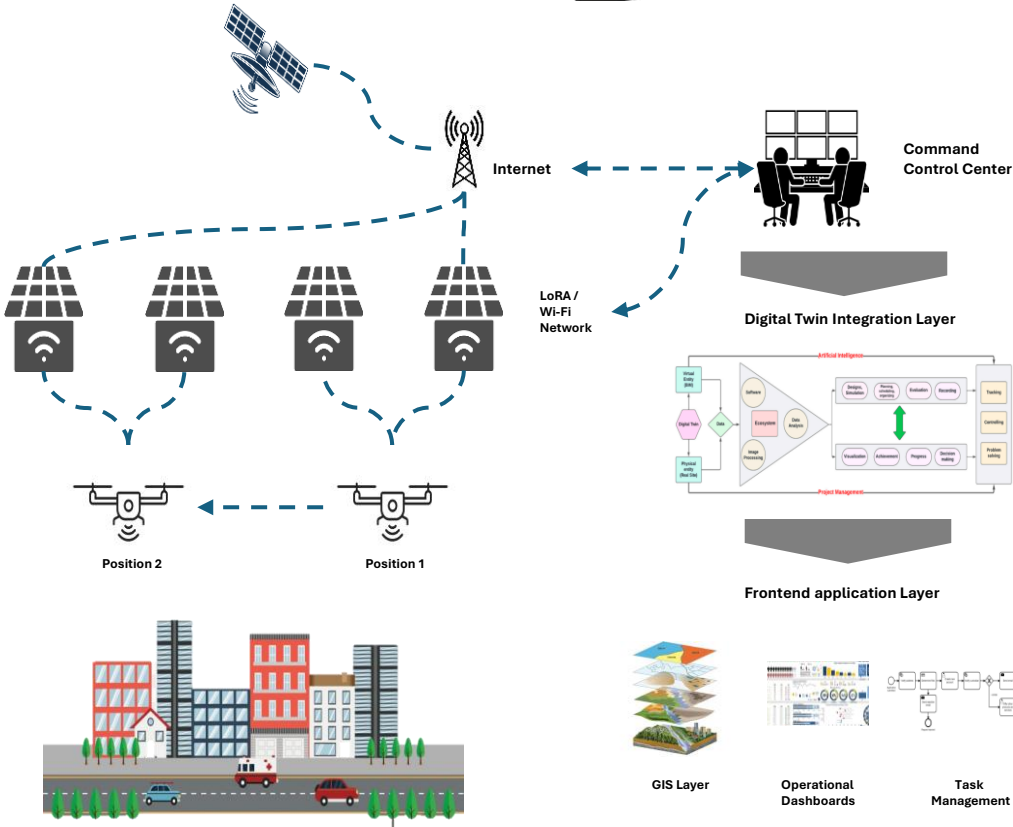
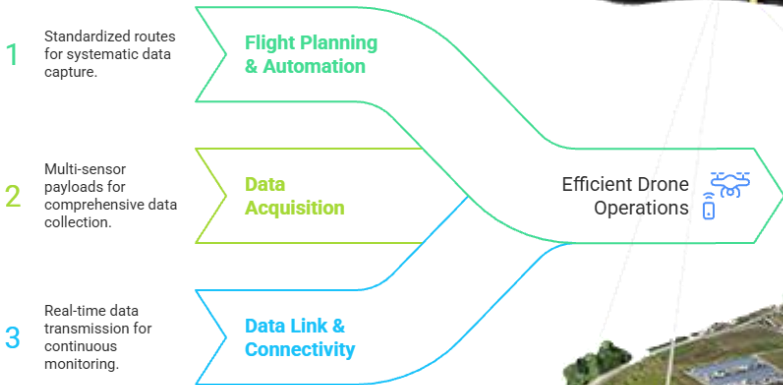
SMART AIRPORT SOLUTION PORTFOLIO

In today's rapidly evolving aviation industry, the need for smarter, more efficient airport operations has never been greater. Integrated IoT-Based Command Center, a comprehensive solution designed to revolutionize airport operations and management.



City Digital Twin & Drone-Based Operational Intelligence Platform

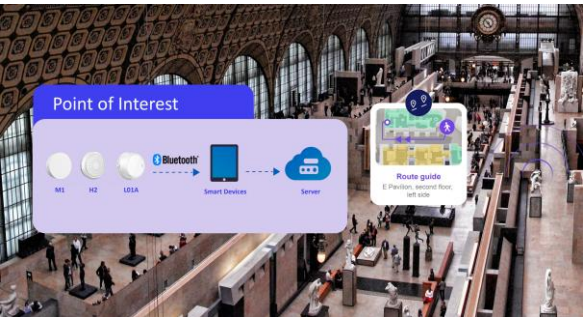
A standardized, automated drone operations protocol for consistent urban data collection, enabling high-frequency, high-resolution monitoring of city assets and terrain.



Facility Management

The integration of Internet of Things (IoT) technology is reshaping facility management. IoT offers real-time insights, predictive maintenance, and enhanced energy efficiency by connecting devices to gather data seamlessly. This transformation allows facility managers to monitor systems, streamline maintenance, and improve occupant experiences

- Asset Tracking
- Energy Management
- Room Occupancy & Environment Monitoring
- Usage Level Detection
- Parking Management (Smart Parking)



Behavior Analysis

Real-time facial recognition provides insights to improve customer service.



People Counting

Accurately tracks and analyzes the flow of individuals over a certain area.



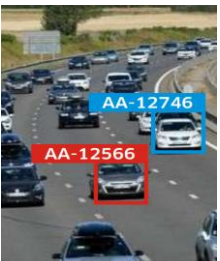
Face Recognition Attendance

Streamlined attendance recording with facial recognition, boosting efficiency.



Instant Intruder Alerts

Effective deterrent for unauthorized entries, ensuring robust security.



Number Plate Recognition

Swiftly identifies and records license plates, enhancing monitoring and enforcement efficiency