



# ARNOWA for City Management

Smarter Cities. Safer Communities.  
Sustainable Growth.

# Empowering Smart Cities Through AIoT Intelligence

As urban populations grow, cities face mounting challenges in managing infrastructure, resources, and citizen well-being. Arnowa's **AIoT ecosystem** provides local governments with real-time, data-driven tools to transform how cities operate—across energy, water, mobility, environment, and governance.

## Core Capabilities

### Smart Infrastructure & Utilities



- Real-time monitoring of electricity, water, gas, waste, and wastewater systems.
- EV charger and tenant/facility energy management.
- AI-driven fault detection, predictive maintenance, and operational optimisation.

### Environmental & Sustainability Management



- Continuous monitoring of air, noise, temperature, and water quality.
- Predictive alerts for hazardous conditions and regulatory compliance.
- Supports city sustainability strategy and ESG reporting.

### Mobility & Public Safety



- Advanced video analytics for traffic, congestion, and incident detection.
- Video analytics for emergency response and crowd monitoring
- Enhances citizen safety across public spaces, transport hubs, and urban areas.

### Digital Twin & City Simulation



- Virtual city model for situational awareness, planning, and scenario simulations.
- Gen AI delivers actionable insights; predictive AI enables proactive management.
- Optimises infrastructure upgrades, resource allocation, and risk assessment.

### Smart Civic Services & Open Spaces



- Waste, parks, and public facility management.
- Sensor-based monitoring ensures service efficiency and sustainability.
- Improves citizen experience and operational transparency.

### Centralised AI-Enabled Control



- Unified dashboards for city-wide visibility and decision-making.
- Automates alerts, workflows, and reporting across departments.
- Integrates with SCADA, BMS, command centres, and existing city systems.

# A Few Use Cases



**Urban Local Bodies (ULBs)**



**Smart City Mission SPVs**



**State Urban Development Departments**



**Urban Planning & Sustainability Consultancies**



**Citizen-Centric Governance Platforms**



## Benefits at a Glance

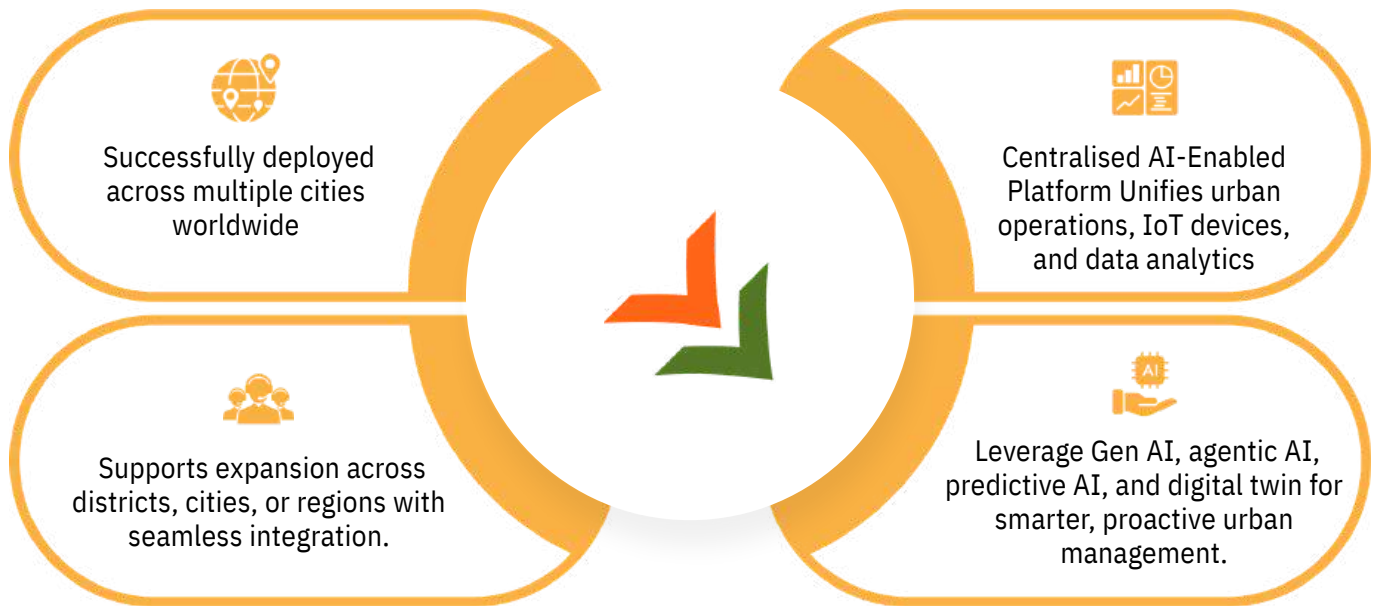
- **AI-Driven Operational Intelligence** - Real-time insights and predictive analytics optimise city infrastructure, energy, water, and waste systems.
- **Automated Safety & Emergency Response** - Advanced video analytics and agentic AI detect anomalies and trigger proactive alerts to enhance citizen safety.
- **Digital Twin & Scenario Simulation** - Virtual city models enable planning, risk assessment, and prescriptive actions for infrastructure and service optimisation.
- **Seamless System Integration** - Connects legacy city platforms, IoT devices, and third-party apps for unified management across districts.
- **Scalable Multi-Site Deployment** - Centralised dashboards manage operations across multiple zones, cities, or regions with ease.
- **Secure & Compliant Data Management** - Ensures protection of citizen and infrastructure data while supporting ESG and regulatory compliance.

## Tech Integration

- **Edge & Cloud AI** – Real-time processing, predictive insights, and agentic AI automation.
- **IoT & Sensor Network** – Monitors energy, water, waste, air quality, traffic, and public spaces.
- **Digital Twin** – Virtual city model for scenario planning and optimisation.
- **Unified Dashboard & APIs** – Centralised control, reporting, and seamless integration with legacy and third-party systems
- **Automation & Smart Alerts** – Automated responses for assets, safety, and environmental thresholds.
- **Connectivity** – LoRaWAN® and wireless networks for reliable remote data collection.



# Why Choose Arnowa?



## Digital Cities that Work Better—For Everyone.

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PREFERRED SUPPLIER



*With Arnowa, cities become smarter, safer, cleaner, and more responsive to citizen needs.*