



# IoT TURN-KEY SERVICE PLATFORM

SUSTAINABILITY

THE COALITION OF PARTNERS LED BY HORIZON IoT

# TRANSFORMING IoT INTO TURN-KEY SERVICES



Horizon IoT leverages cutting-edge IoT and AI technology to provide comprehensive sustainability solutions tailored for government agencies and enterprise clients. This document offers a detailed overview of Horizon IoT's capabilities, highlighting key features, applications across industries, and use cases and case studies that demonstrate the positive impact of these solutions on urban and rural infrastructure and business operations.

**Driving Sustainability through Efficiency-** Our IoT Turn-Key Service Platform is engineered to monitor, manage, and optimize government and enterprise operations in real time, enhancing operational efficiency, reducing costs, ensuring regulatory compliance, and boosting safety—making it a powerful tool for city governments and any organizations. Real-time monitoring, control, and analytics for resource efficiency and sustainability are achieved using cutting-edge IoT and AI technologies. Horizon IoT's end-to-end solution includes everything from cloud services and network connectivity to 4G/5G, SaaS, cybersecurity, edge device integration, and AI, creating a fully integrated, robust platform.

Our solutions are fully customizable, enabling clients to adapt them to meet specific needs, while streamlined operations provide a single point of billing and support for easy management and scalability. This cost-effective approach delivers a low one-time customization fee, fast deployment, and a low Total Cost of Ownership (TCO), maximizing both immediate and long-term value.

# HORIZON IoT - SUSTAINABILITY SOLUTIONS

## Temperature Monitoring

An all-in-one solution to reduce waste of refrigerated items and ensure they stay high quality until consumed.



## Gas Monitoring

Our IoT-enabled solution tracks the use of gases like LPG and O2. It ensures safety and availability with real-time monitoring and alerts.



## Energy Monitoring

Our IoT solution monitors usage in real-time across facilities and equipment, providing AI-powered insights for efficient and responsible operations.



## Water Monitoring

A complete solution for tracking and monitoring quality with our IoT sensors and AI insights, promoting safe and sustainable water use.



## Supply Chain Traceability

A powerful platform that helps customers improve supply chain efficiency with real-time tracking, dynamic route mapping, proof of delivery, and analytics.



## Compliance and Ticketing

An integrated platform that simplifies compliance management and streamlines processes and SOP adherence for customers.



## Farm Monitoring

A tech-powered sustainability solution that helps farmers make informed decisions, improve crop productivity, save costs, and use resources responsibly.



## HVAC Optimization

An AI-driven solution that improves indoor spaces by maintaining optimal temperature and air quality, ensuring occupant comfort.



# HORIZON IoT – FOCUS MARKETS

Real Estate



Retail



Cold Chain



Hospitality



Manufacturing



Energy/Utilities



Café/Restaurant



Healthcare



Shipping/Logistics



Agriculture



Meat Processor



Government





# HORIZON IOT CASE STUDIES

## USE CASE: Enhancing Water Management - Real-Time Transparency for High-Rise Communities

### Benefits

- Assured quality and safety of water
- Automated audit logs
- Sustainable water consumption
- Early detection and prevention of pilferages
- Conscious usage due to transparency
- Improved accountability

### Key Highlights:

- 41% reduction in pilferages
- 30% water saved
- 37% reduction in water consumption per person per day
- 50% improvement in collections



# HORIZON IOT CASE STUDIES



## USE CASE: Implementing Energy Efficiency Solutions for IT Corporation(s)

### Benefits:

- Reduced energy bills
- Improved device performance
- Planned energy utilization
- Reduced overrun hours
- Real-time data monitoring
- Automated audit logs

### Key Highlights:

- 15% savings on monthly energy bills
- 20% improvement in HVAC equipment utilization
- 20% reduction in equipment breakdowns
- 25% improvement in occupant comfort



# HORIZON IoT CASE STUDIES

## USE CASE: Energy Efficiency Solutions for Shopping Mall(s)

### Benefits:

- Reduced energy bills
- Improved device performance
- Enhanced energy management
- Real-time data monitoring

### Key Highlights:

- 15% savings on monthly energy bills
- 20% improvement in HVAC equipment utilization
- 20% reduction in equipment breakdowns
- 25% improvement in customer comfort



# HORIZON IOT CASE STUDIES

## USE CASE: Innovative Solutions for Real-Time Transparency in LPG, Water, and Energy Consumption for South Asia's Leading Cloud Kitchen

### Solutions:

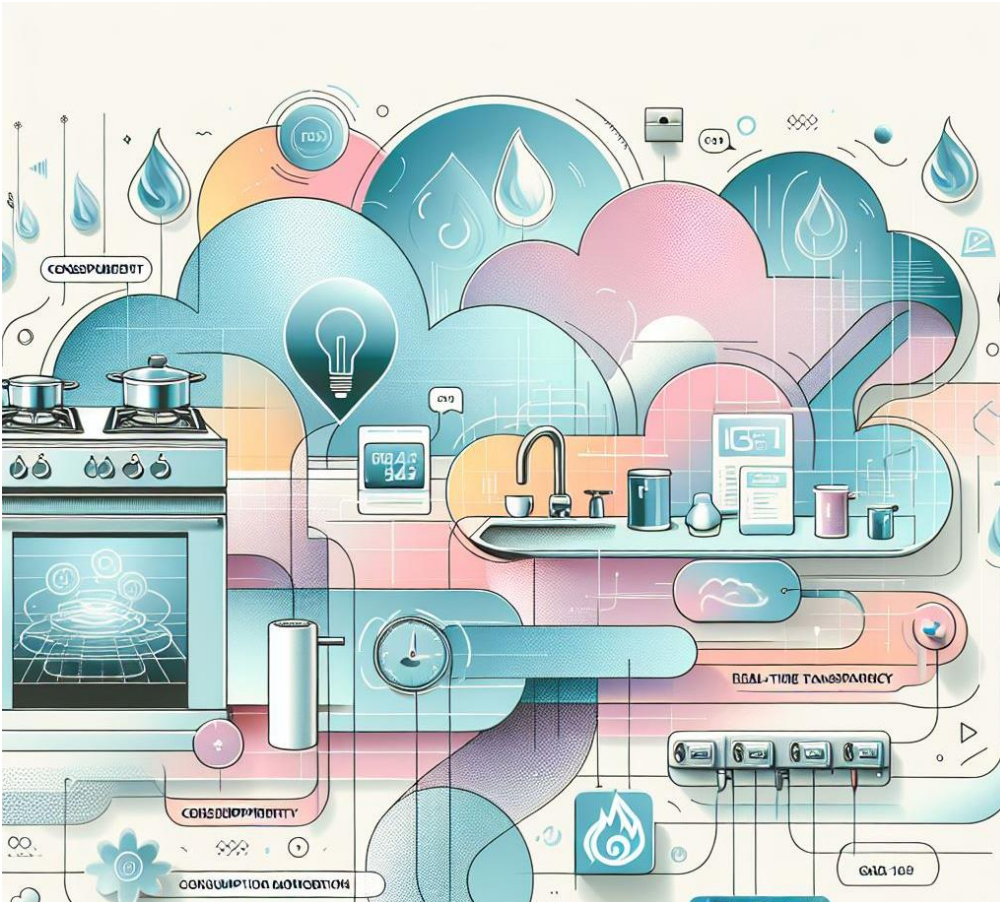
- Temperature Monitoring: Ensures food safety
- Energy and Water Monitoring
- Integrated Compliance Platform: Includes Maintenance and Ticketing Solution
- LPG Monitoring

### Benefits:

- Insights on refrigeration availability
- 100% quality compliance
- Improved maintenance efficiency
- Automated audit logs and reporting

### Key Highlights:

- 20% reduction in food wastage through temperature monitoring
- 10% reduction in water consumption
- 15% savings in energy consumption
- 20% reduction in LPG wastage





# HORIZON IOT CASE STUDIES

## USE CASE: Achieving Sustainable Freshness in Quick Commerce

### Solutions:

- Temperature Monitoring: Ensures food safety
- Energy and Water Monitoring: Supports sustainability
- Integrated Compliance: Includes Maintenance Ticketing Solution

### Benefits:

- Insights on refrigeration availability
- 100% quality compliance
- Improved maintenance efficiency
- Automated audit logs and reporting

### Key Highlights:

- 20% Reduction in food wastage by temperature monitoring
- 10% Reduction in water consumption
- 15% Savings in energy consumption



# HORIZON IOT CASE STUDIES

## Use Case: Ensuring Optimal Quality Compliance for Grocery Retail Chain(s)

### Solutions:

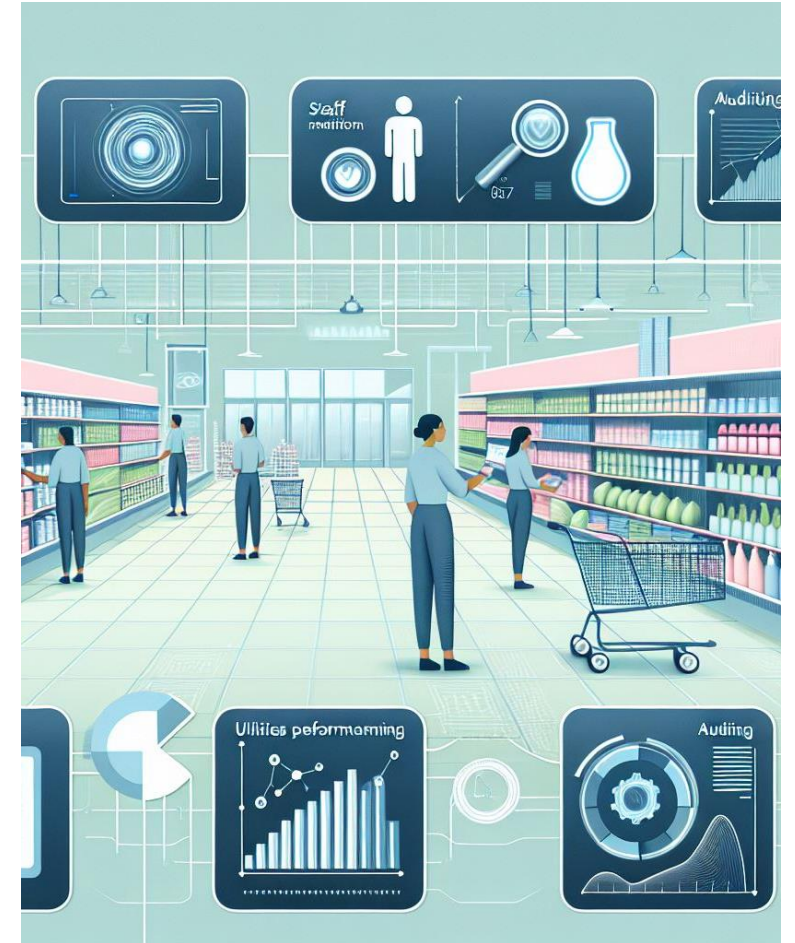
- Utilities Monitoring
- Procurement Planning and Management
- Staff Performance Tracking and Audits

### Benefits:

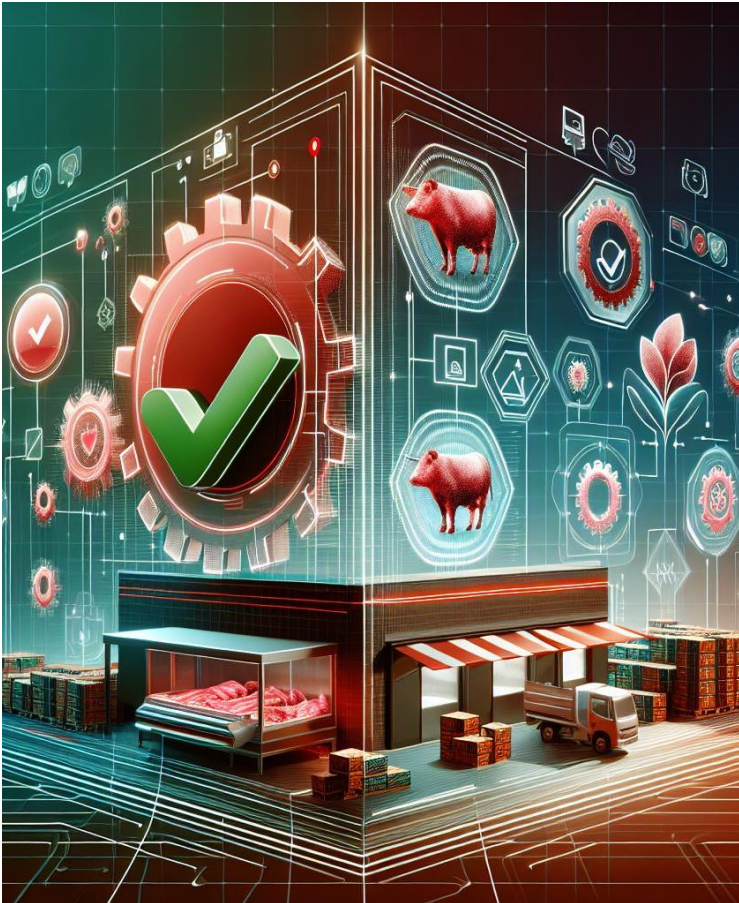
- Predictive asset maintenance
- Alignment with sustainability goals
- Elimination of redundant inspections
- Downloadable consumption reports

### Key Highlights:

- 18% reduction in energy consumption across various stores
- 12% reduction in operational costs
- 15% reduction in asset downtime



# HORIZON IOT CASE STUDIES



**Use Case: Meeting Safety Standards, Optimizing End-to-End Operations for Meat Retailer(s)**

## **Solutions:**

- Temperature Monitoring
- Centralized Dashboard: Provides real-time insights
- Integrated Compliance: Automated ticketing solution

## **Benefits:**

- Energy optimization
- Asset health monitoring
- Inventory shelf-life management
- Improved audit accuracy and easy reporting

## **Key Highlights:**

- 18% reduction in energy consumption
- 25% reduction in dumping
- 40% improvement in compliance
- 15% reduction in asset downtime



# HORIZON IoT CASE STUDIES

## Use Case: Pioneering Innovation in Fuel Consumption and Safety Standards for LPG Cylinders

### Key Features:

- Intelligent Smart Trolley: Detects LPG leaks and measures weight for 14kg, 19kg, and 47kg cylinders.
- Integrated Dashboard: Provides real-time insights.
- User-Friendly Mobile Application
- Pre-Integration with LPG Helpline
- Tracking and Tracing: Monitors LPG cylinders across the value chain.



# HORIZON IOT CASE STUDIES

## Case Study: Digital Agriculture - Traceability, Precision, and Resource Efficiency in Farming

### Features:

- Soil Analysis: Up to 8 parameters analyzed at 3 different soil strata
  - Drone Technology: Administered bio-nutrient spraying
  - Water Management: Monitoring water quality and utilization
  - Weather Insights: Solar radiation and weather data-based insights
  - Vegetation & Terrain Analysis: Drone-based assessment of vegetation stress and terrain morphology
  - Integrated Tools: Dashboard and mobile application for comprehensive monitoring
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- **Key Outcomes:**
  - 50% reduction in water utilization
  - 29% yield improvement
  - 59% overall cost reduction



# THANK YOU



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