BoxTech

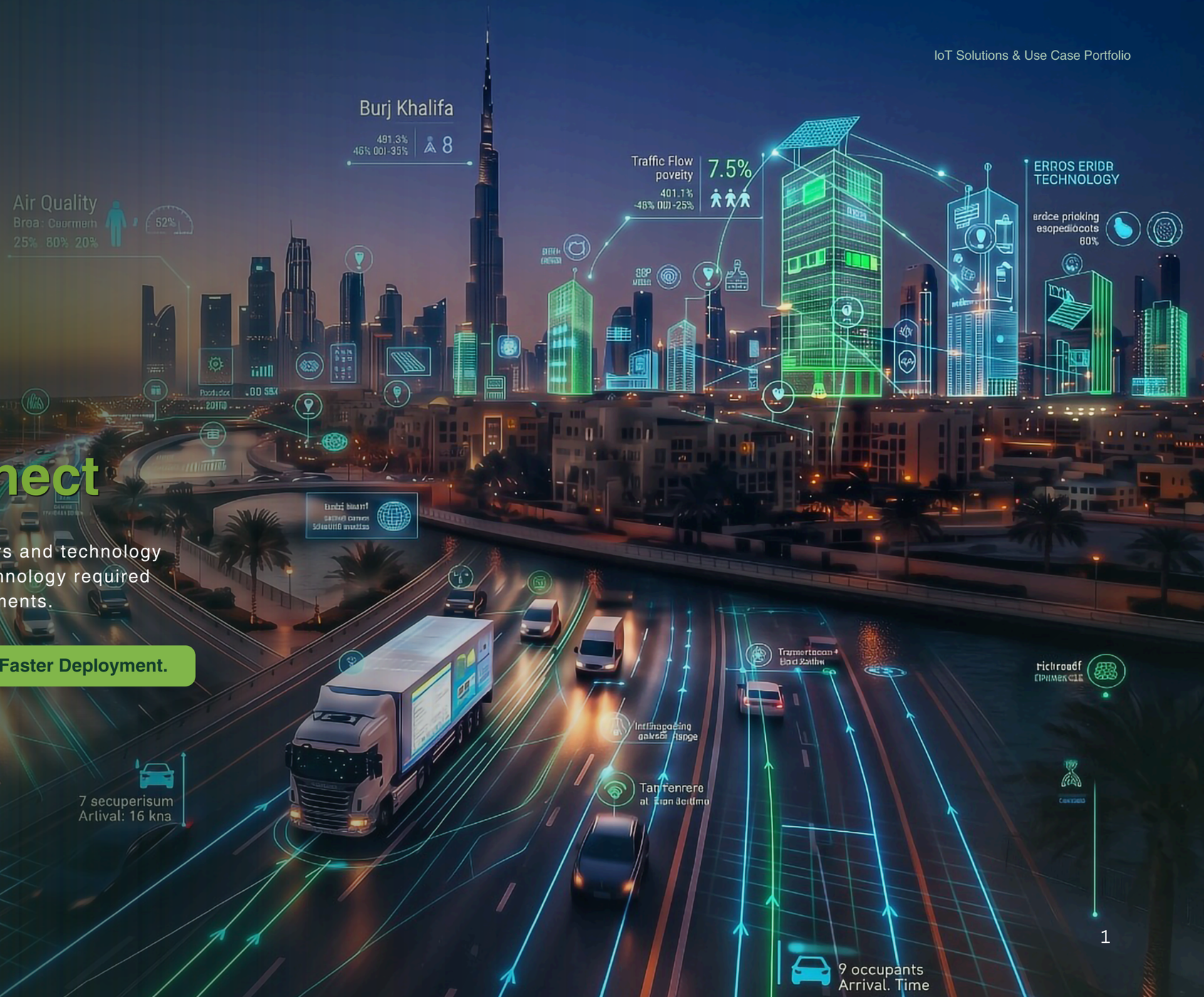
IOT SOLUTIONS PORTFOLIO

Monitor Measure
Track Control Connect

BoxTech helps solution providers, system integrators and technology partners identify, integrate and validate the IoT technology required to turn real-world requirements into reliable deployments.

Global IoT Hardware | **Local Expertise** | **Faster Deployment.**

Dubai • Riyadh • Australia



20 CORE IOT USE CASES

Solutions for every Requirement

Broad solution categories that can be adapted across industries, environments, sensor types and customer requirements.



1.
Asset & Equipment Tracking

Locate tools, machinery, pallets, containers, medical equipment and other movable assets.



2.
Indoor Tracking & RTLS

Real-time indoor location, zone visibility, movement history and location-based alerts.



3.
Personnel Location & Safety

Worker, visitor and contractor location, SOS, geofencing and lone worker safety.



4.
Water Quality Monitoring

pH, conductivity, turbidity, salinity and dissolved-oxygen monitoring.



5.
Temperature & Cold Chain

Continuous temperature and humidity monitoring for food, pharma, cold rooms and storage.



6.
Indoor Air Quality

CO2, VOC, PM2.5/PM10, temperature and humidity for healthier occupied spaces.



7.
Occupancy & People Counting

Footfall, room occupancy, desk usage, visitor flow and space-utilization analytics.



8.
Gas & Industrial Safety

Gas leaks, hazardous gases, exposure conditions and site-safety alerts.



9.
Smart Parking & Vehicle Detection

Parking occupancy, vehicle presence, space availability and utilization analytics.



10.
Waste & Fill Level Monitoring

Bins, compactors and recycling container levels with optimized collection alerts.



11
Remote Site & Infrastructure Monitoring

Power, cabinet, door, temperature, generator and alarm monitoring for unmanned sites.



12
Water Level, Leak & Flow

Leak detection, tank levels, flow rates, consumption and abnormal-use monitoring.



13
Smart Agriculture & Irrigation

Soil moisture, irrigation, weather and greenhouse conditions for data-driven farming.



14
Structural & Infrastructure Monitoring

Tilt, vibration, strain, cracks, settlement and movement monitoring for infrastructure.



15
Restroom & Facility Monitoring

Usage, odor, cleaning demand, consumables, leaks and service alerts for public facilities.



16
Tank & Silo Monitoring

Remote level and condition monitoring for water, fuel, chemicals, grain and bulk storage.



17
Environmental Monitoring

Air quality, noise, dust, weather and flood-level monitoring for distributed sites.



18.
Smart Building & HVAC

HVAC, room comfort, ventilation, lighting, water and energy monitoring for facilities.



19.
Door, Access & Intrusion Monitoring

Door status, unauthorized opening, motion and restricted-area monitoring.



10.
Machine Condition & Predictive Maintenance

Vibration, temperature, current and runtime to identify abnormal equipment behavior.

OUR SOLUTION

From Requirement to Working POC

We start with the application: what needs to be monitored, measured, tracked or controlled. From there, we define the device, connectivity, integration and validation path.

What We Bring to the Table

- Sensors Gateways
- Dashboards
- Integration
- POC Validation
- Deployment Support
- Alerts & APIs
- Tracking

07 CONNECTED STEPS



Customer Requirement → Sensor/ Device → Gateway → Connectivity → Platform / API → Dashboard & Alerts → POC Validation

One technology partner.Multiple possibilities.

Hardware, connectivity, technical expertise, integration resources, POC support and regional execution, brought together to reduce deployment complexity.

BUILT ACROSS INDUSTRIES

One Architecture

Many Sectors

Common IoT building blocks can be reused across sectors, allowing customers to start with a focused pilot and scale with a consistent architecture.

- Smart Buildings & Facilities
- Manufacturing & Industry 4.0
- Logistics & Warehousing
- Healthcare & Life Sciences
- Retail & Hospitality
- Oil, Gas & Petrochemicals
- Energy & Utilities
- Telecom & Remote Infrastructure
- Agriculture
- Government & Smart Cities
- Construction & Infrastructure
- Data Centers & IT Facilities

Connectivity & Infrastructure

Connectivity is selected according to range, battery life, bandwidth, indoor-positioning needs, installed infrastructure and platform requirements.

- LoRaWAN
- Wi-Fi / Ethernet
- Bluetooth / BLE
- Modbus / RS485
- NB-IoT / LTE-M
- UWB / Bluetooth AoA
- 4G / 5G
- Satellite / NTN

BUILT ACROSS INDUSTRIES

One Architecture, Many Sectors

Common IoT building blocks can be reused across sectors, allowing customers to start with a focused pilot and scale with a consistent architecture.

1-Understand	2- Select	3- Integrate	4- Demonstrate	5- Validate	6- Scale
Define the application, environment, measurements, constraints and expected outcome.	dentify suitable sensors, trackers, gateways and connectivity technologies.	Configure devices, protocols, APIs, payloads and connection to the target platform.	Show live readings, events, alarms, dashboards and practical operation.	Confirm hardware, coverage, data quality, alert behavior and use-case performance.	Move to documentation, pricing, stock planning, deployment and ongoing support

BoxTech Support

Support can cover the technology lifecycle from product selection through integration and commercial deployment.

- Hardware Selection
- Technical Evaluation
- POC & Testing
- Device Integration
- Certification Support
- Custom Sourcing
- Local Warehousing
- Manufacturer Coordination
- After-Sales Technical Support
- Partner Training & Enablement

WHY THIS APPROACH

Shorter evaluation

Easier scale-up

A partner-led approach helps shorten evaluation time and makes scale-up easier after a successful POC.

1-Faster Go-to-Market

Move from requirement to testing and commercial deployment faster.

2-Lower Technical Risk

Test technology before committing to large-scale deployment.

3-Scalable Deployment

Start with samples and POCs, then scale to commercial quantities.

4-Reduced Development Effort

Use integration resources, documentation and manufacturer support.

5-Regional Enablement

Access local technology knowledge, stock planning and technical support

Built for B2B Technology Partners

Support can cover the technology lifecycle from product selection through integration and commercial deployment.

- IoT Solution Providers
- System Integrators
- Software / SaaS Platforms
- Telecom Operators
- Industrial Automation Companies
- ELV / Security Integrators
- Technology Resellers
- Enterprise Project Partners

START WITH THE REQUIREMENT

Ten questions to define your IoT architecture

The fastest way to define the right IoT architecture is to begin with the operational need rather than a device model.

1-Application

What do you need to monitor, measure, track or control?

2- Environment

Indoor / outdoor, warehouse, office, industrial, remote site, vehicle or mixed environment?

3- Scale

How many assets, rooms, machines, tanks, sites or monitoring points are involved?

4- Parameters

Which values or events must be collected: location, temperature, CO2, level, vibration, energy, etc.?

5- Update Frequency

Real-time, every few seconds, minutes, hourly or event-based reporting?

6- Connectivity

Is LoRaWAN, BLE, cellular, Wi-Fi, Ethernet or an existing network available or preferred?

7- Power

Battery-powered, mains-powered, vehicle power, solar or long-life remote operation?

8- Platform

Existing software / API integration, customer cloud or a new dashboard requirement?

9- Alerts & Reports

Which thresholds, notifications, historical reports or workflows are required?

10- POC & Timeline

What is the target pilot location, expected validation criteria and deployment timeline?



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BoxTech

ENTERPRISE IoT PLATFORM

Monitor • Manage • Analyse • Build a Smarter World

Sign in to your account

Access your IoT platform to manage devices, data and insights.

demo@boxtech.ai

demouser

Sign in

Forgot Password?

Software : https://box-iot.com

BoxTech

Have an IoT Requirement?

Share the use case, site type and key parameters.

BoxTech can help identify the sensor, gateway, connectivity and integration approach and support the path from selection to a tested POC.

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