



# Building a Scalable **DIGITAL FOUNDATION**

From Infrastructure to Measurable AIoT Outcomes

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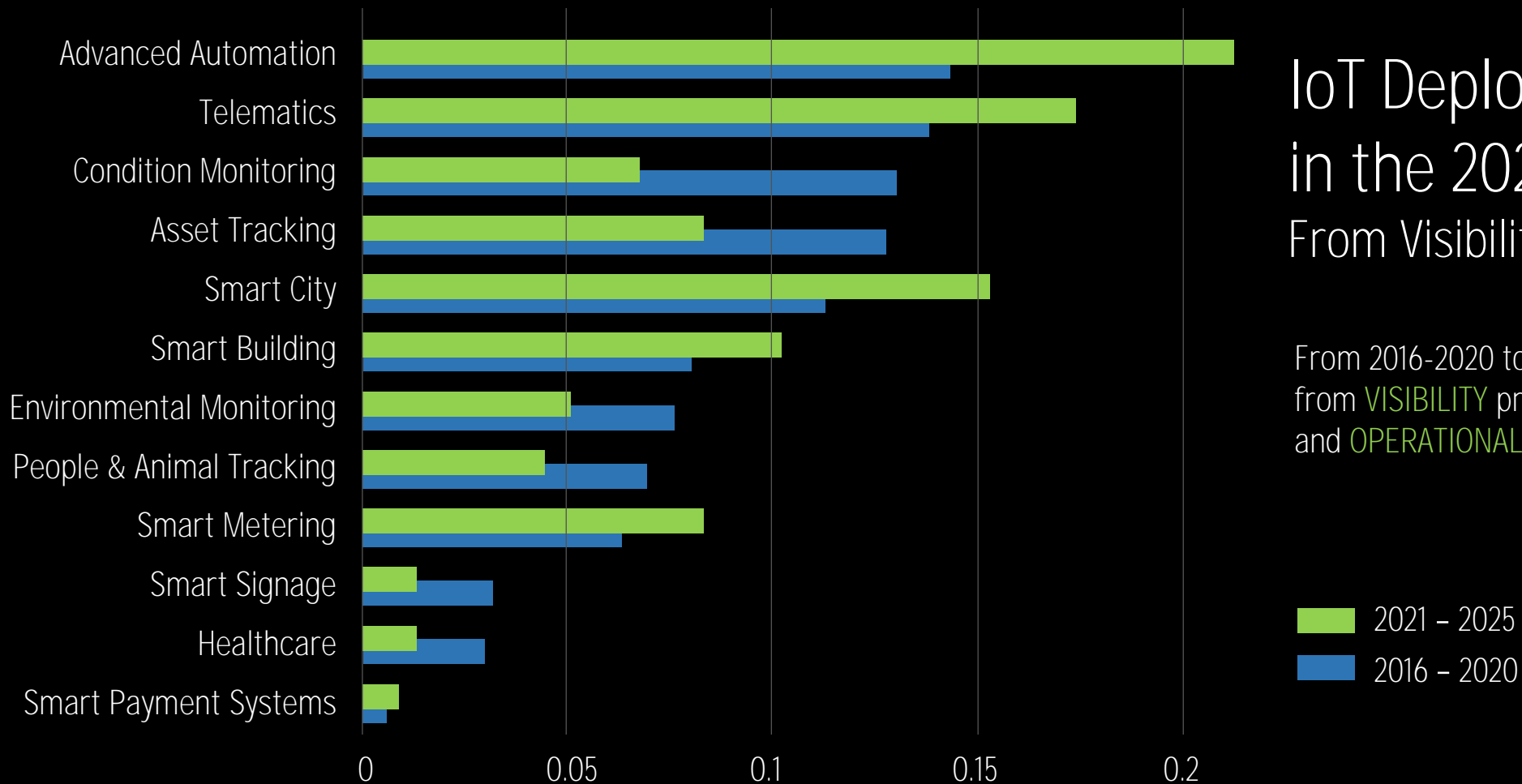
Applied **INTELLIGENCE**  
for **RESILIENCE** and  
**SUSTAINABLE GROWTH**

ทุกคนกรู้ ว่าต้องมุ่งไปสู่ Intelligence

# IoT Deployment Trends in the 2020s

## From Visibility to Operations

From 2016-2020 to 2021-2025, deployments shift from **VISIBILITY** projects toward **AUTOMATION** and **OPERATIONAL CONTROL**.





DASHBOARD



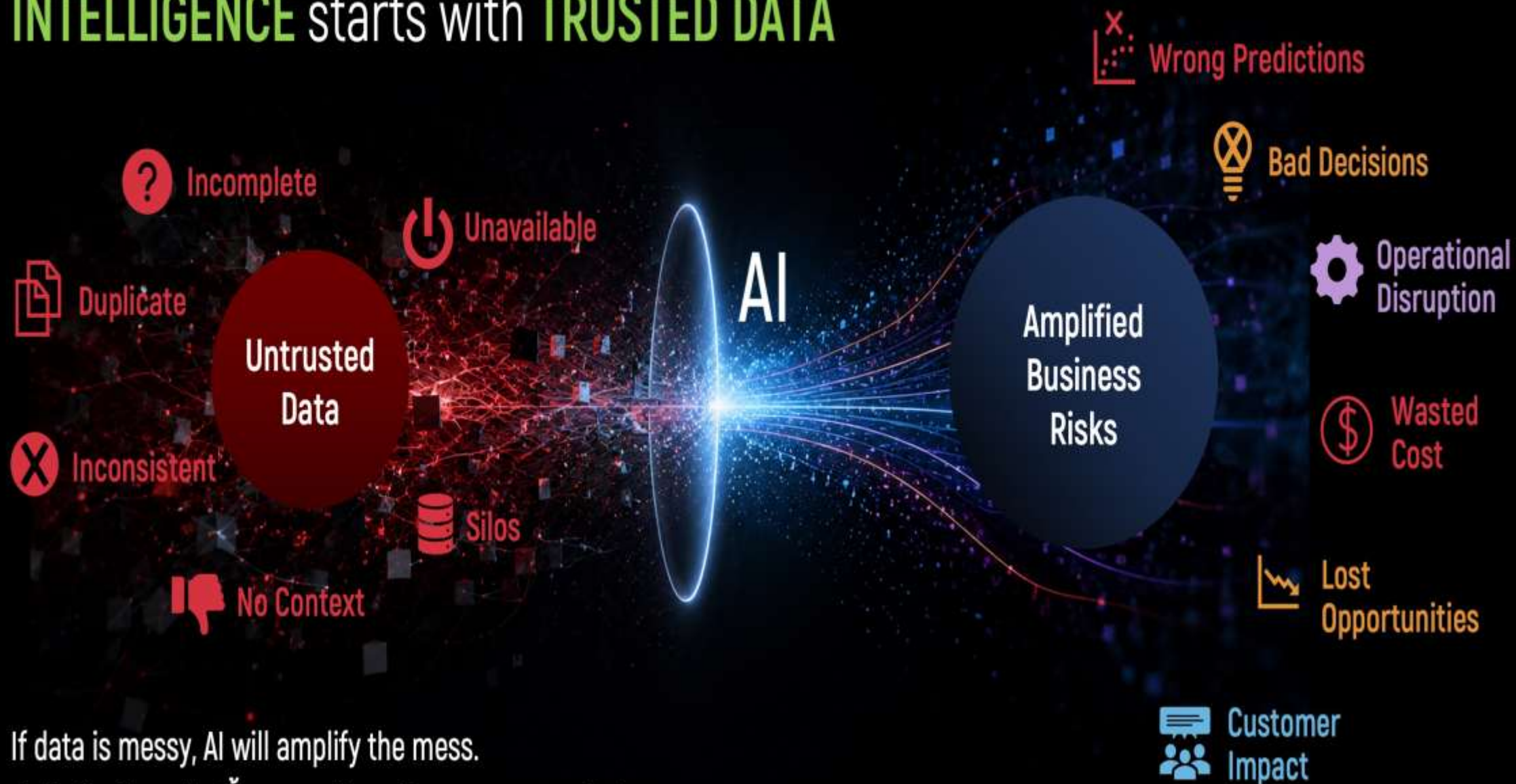
AUTONOMOUS



The background is a dark green field filled with abstract digital elements. Numerous thin, bright green lines radiate from a central point, creating a starburst or tunnel effect. Interspersed among these lines are clusters of small, glowing green dots, resembling data points or particles. The overall aesthetic is futuristic and high-tech, typical of a presentation on artificial intelligence or data science.

The Journey to **INTELLIGENCE**  
Starts with **DATA ARCHITECTURE**

# INTELLIGENCE starts with TRUSTED DATA



If data is messy, AI will amplify the mess.

กับटक้านโครงสร้างพื้นฐานและข้อมูล ทัศนวิสัยการขยายตัวสู่ AI

## Things / Devices

## Connectivity

## Data Storage / Computing

## Applications / Outcomes

### AIoT

requires a different  
**DIGITAL FOUNDATION**



#### Collect Small, Periodic Data

Sensors and devices capture limited data at intervals

#### Low Bandwidth, Intermittent

Data is transmitted occasionally using low bandwidth networks

#### Centralized & Lightweight

Data is stored locally or in the cloud and processed with basic compute

#### Visibility & Alerts

Dashboards provide visibility, alert, and historical reports

### TRADITIONAL IoT

Visibility-Oriented

### INTELLIGENCE IoT

Intelligence-Oriented



#### Generate Large, Continuous Data

Devices produce high-volume, real-time data continuously

#### High Bandwidth, Always-On

Data streams in real-time over high bandwidth, low latency, reliable networks

#### Edge + Cloud, High Performance

Processing happens at the edge and cloud with high-performance compute for AI/ML

#### Intelligence & Automation

AI/ML delivers predictions, automation, and autonomous decisions in real time



# Real-Time Intelligence Requires Real-Time Infrastructure

5G Autonomous Drone





Real-Time Intelligence  
Requires Real-Time Infrastructure

5G Autonomous Drone

**AI and DIGITAL  
INFRASTRUCTURE**  
are powering  
**Intelligent**  
**IoT at Scale**



**CONNECT**

Reliable, High Bandwidth,  
Low-Latency Connectivity

**COMPUTE**

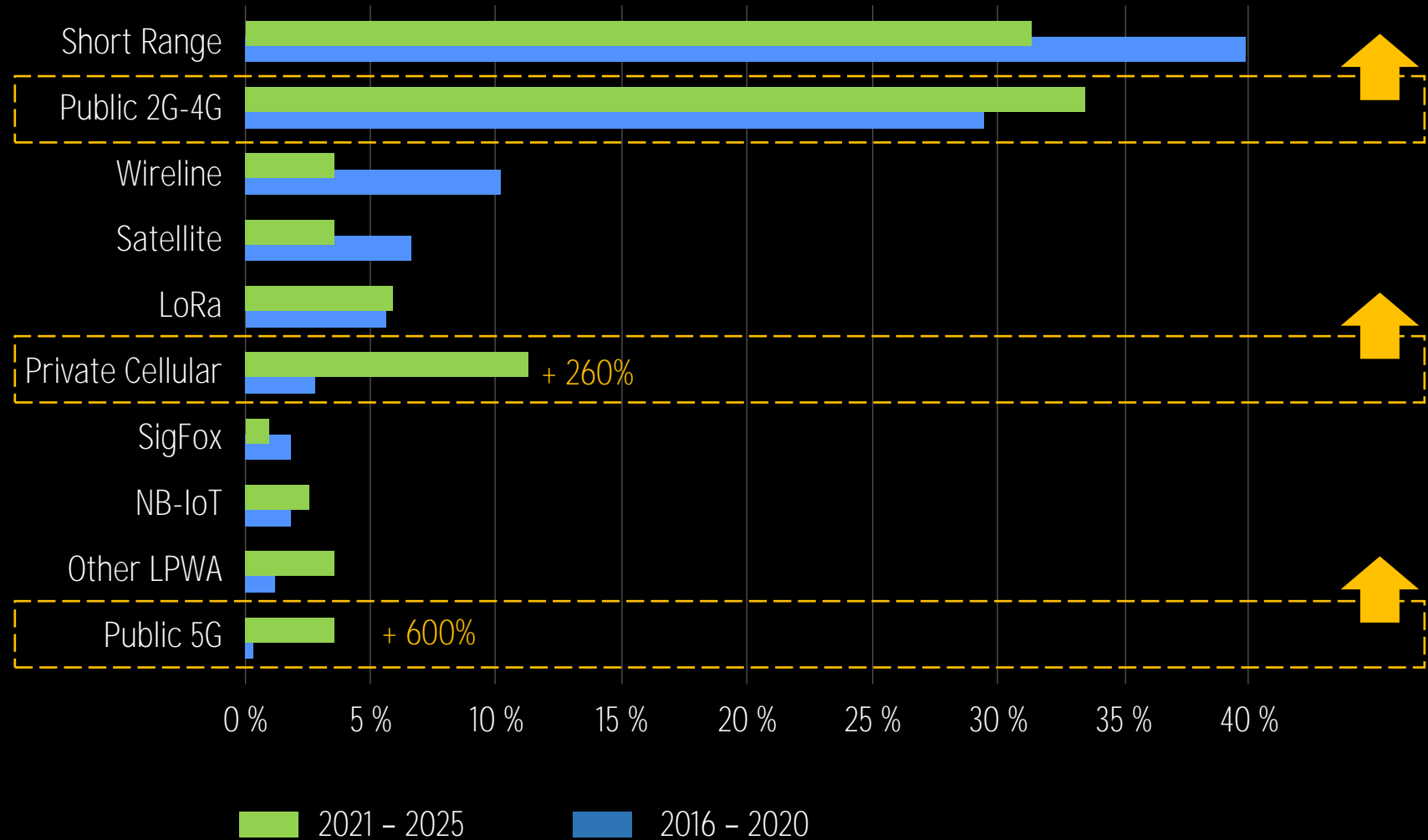
Real-time Processing  
& AI Inference

**GOVERN**

Security, Data  
Sovereignty & Control



AIoT is Accelerating  
the Shift Toward  
**CELLULAR**  
**CONNECTIVITY**



# AIS 5G Private Network

## Privacy

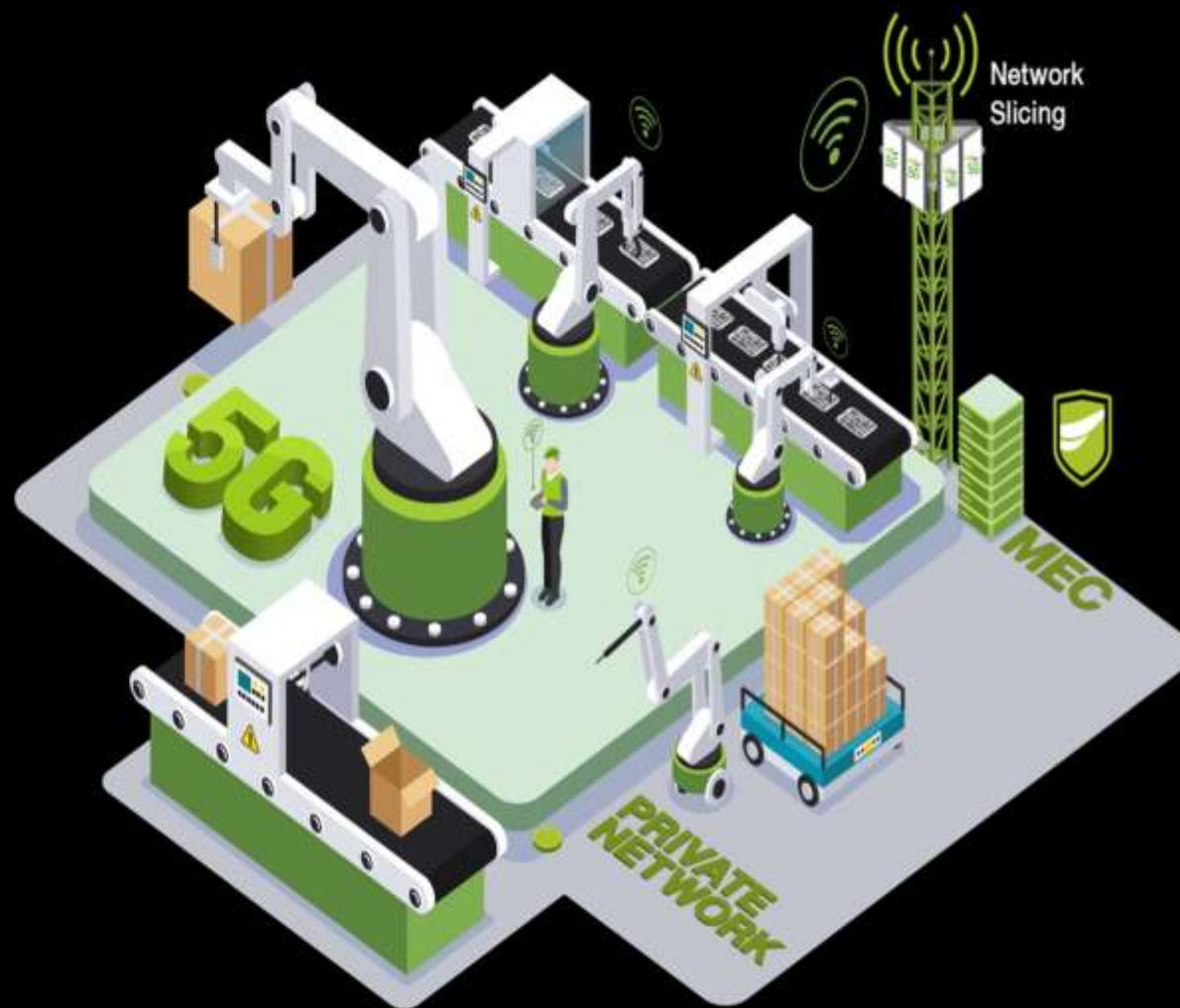
Local network, private resources, independently managed

## Security

Cellular grade security, sensitive data stays on-premise

## Optimized

Tailored performance for enterprise specific applications, e.g., low latency, QoS, network slicing



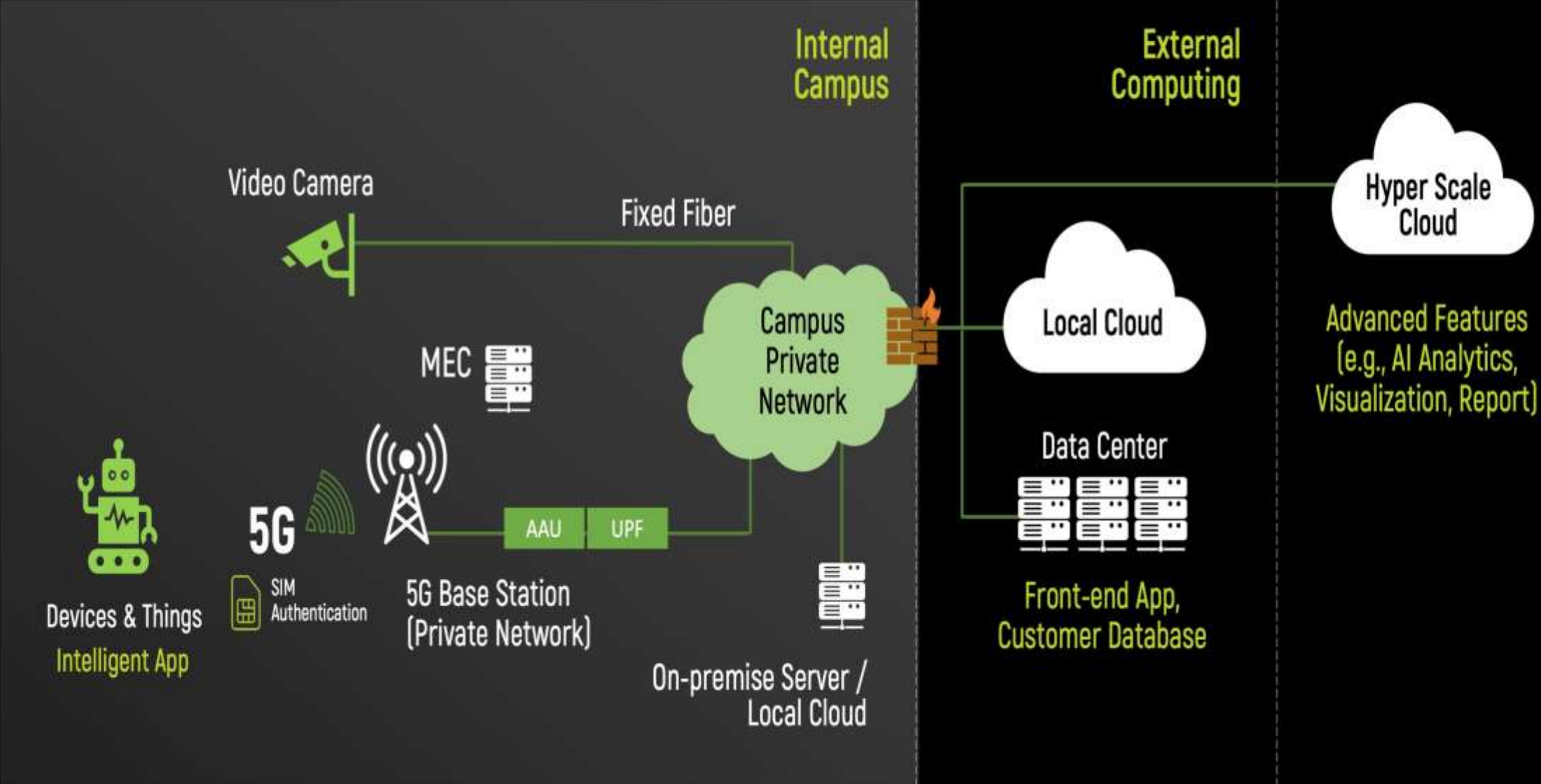
Coverage, Capacity & Mobility

Reliability & Seamless Integration

Effective Data Processing

Security & Compliance

# Digital Infrastructure for Secure and Intelligent Applications



# Empowering Your Business Growth through Complete AIS Cloud Solutions

## CLOUD SECURITY & MANAGED SERVICE

Ensure your cloud environment is **Secure, Efficient** and **Always Available** with our professional technical operation service

### PRIVATE CLOUD

The instant on-premise cloud

For the installation of IaaS  
Locally or at the Data Center

### EDGE CLOUD

The computing for low latency app

For the installation of IaaS  
locally or at the data center

### THAI HYPERSCALE CLOUD



Powered by Oracle Cloud Infrastructure

For data residency protection,  
domestic under Thai laws

### HYBRID/MULTI CLOUD

The Hybrid / Multi-cloud Ecosystem

For flexible & resilience,  
DR site, business continuity



### GLOBAL CLOUD

Connected to the World's Trusted Clouds

For cross-platform collaboration  
and open innovation

## CLOUD CONNECTIVITY

Direct, Secure and Scalable Connections to AIS Cloud and Beyond



# The Best Choice for Data Sovereignty



## All Data Stored in Thailand

Your data is physically and logically stored within Country.



## No Data Leaves the Country

Complete in-country data residency. No system logs, usage data, or customer data is sent overseas.



## Governed by Thai Law and Jurisdiction

All operations are under Thai legal framework, with data access and service contracts governed by local courts.



## Built for Thailand's Policy, Standards and Compliance

Operated in full alignment with Thailand's digital sovereignty framework and national regulations.



The background is a dark green to black gradient, featuring several glowing, wavy lines of light green and white dots that create a sense of motion and data flow. The lines are most prominent in the upper right and lower right areas, curving across the frame.

From **DATA** to **INTELLIGENCE**

# From DATA to INSIGHTS

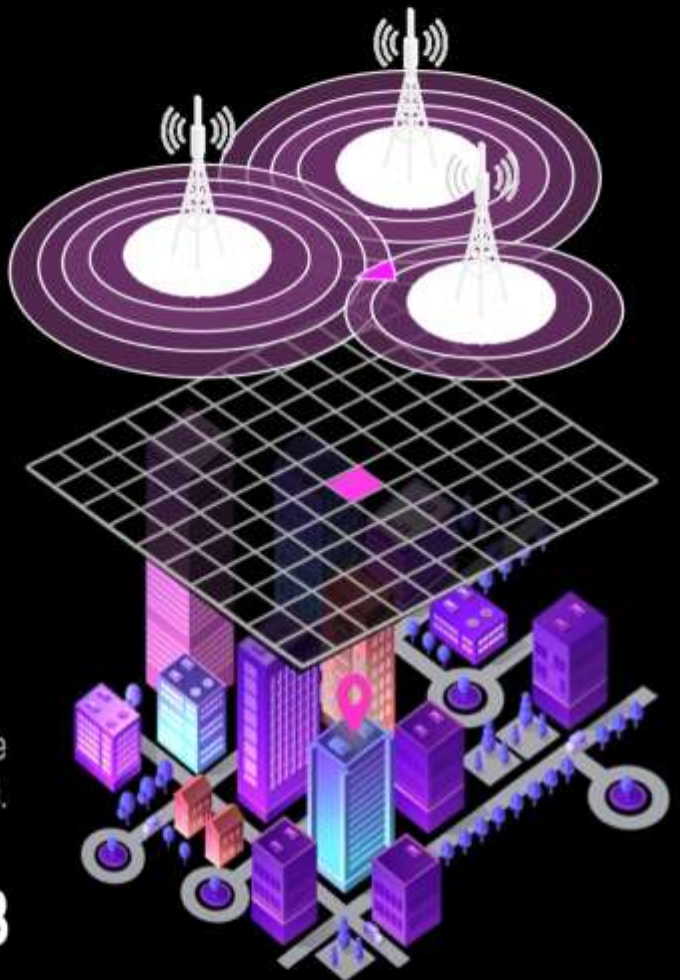


Triangulation calculated mobile location based on signal strength

50m x 50m square grid covering Thailand

GIS data include administrative boundary, roads, POIs, etc.

**41,000,000 GB**  
of data traffic per day

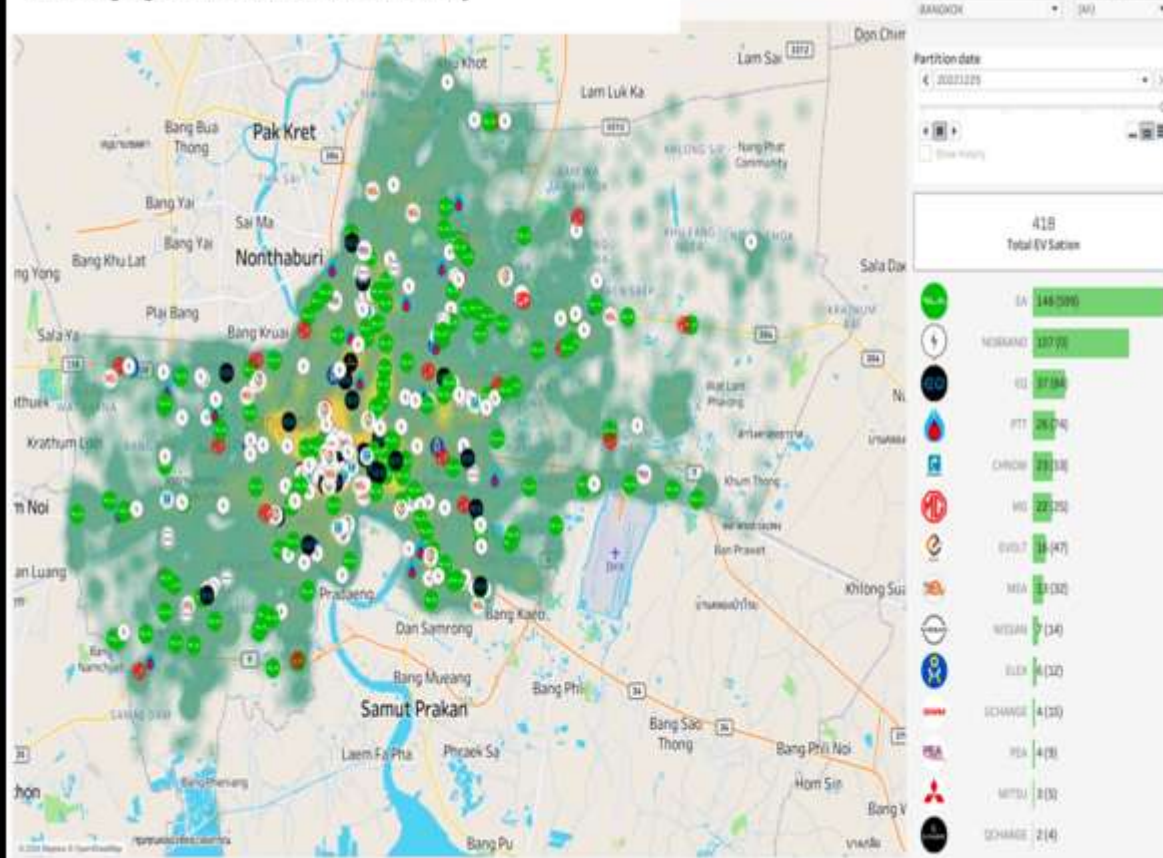


# Data-Driven EV Infrastructure Planning

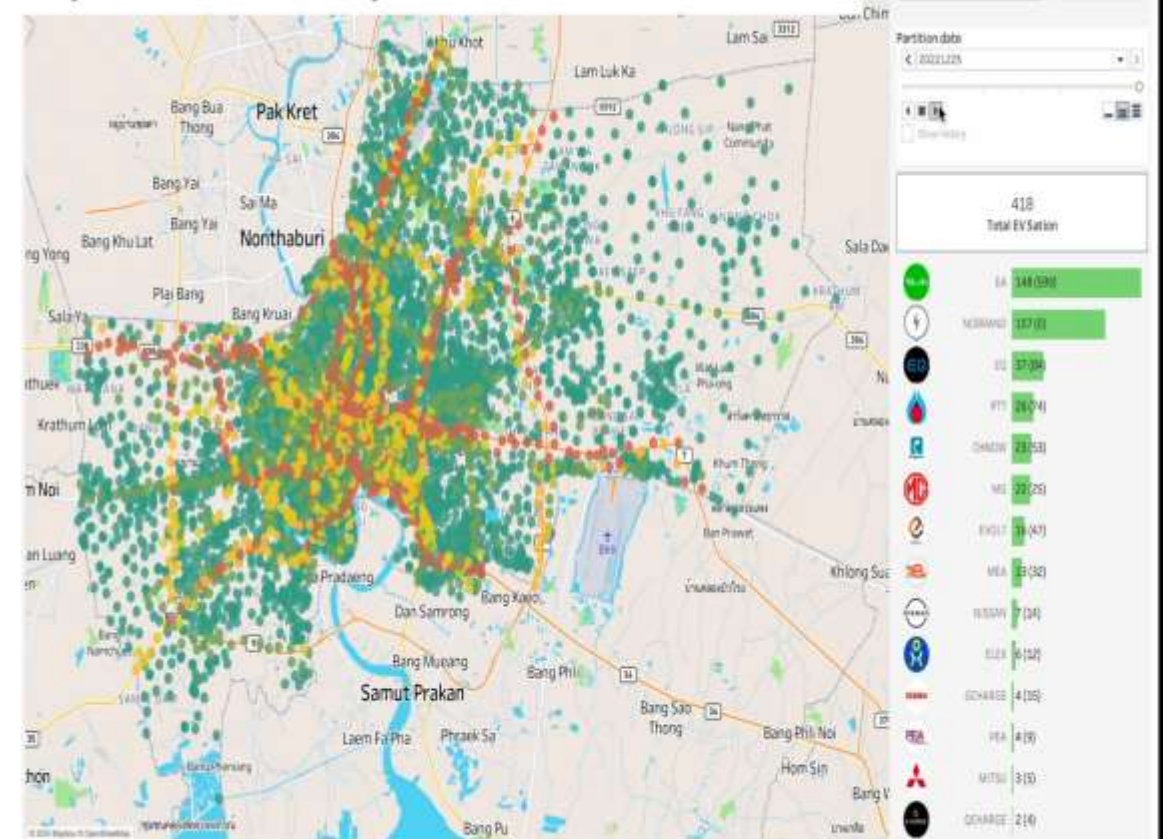
By detecting mobility trends associated with users of EV-related applications, combined with geolocation data, and mapping where EV users live, work, and travel regularly, business owners and city planners can pinpoint high-demand zones for new charging infrastructure, ensuring better service coverage and investment efficiency.

## EV Charging Station Demand Forecasting

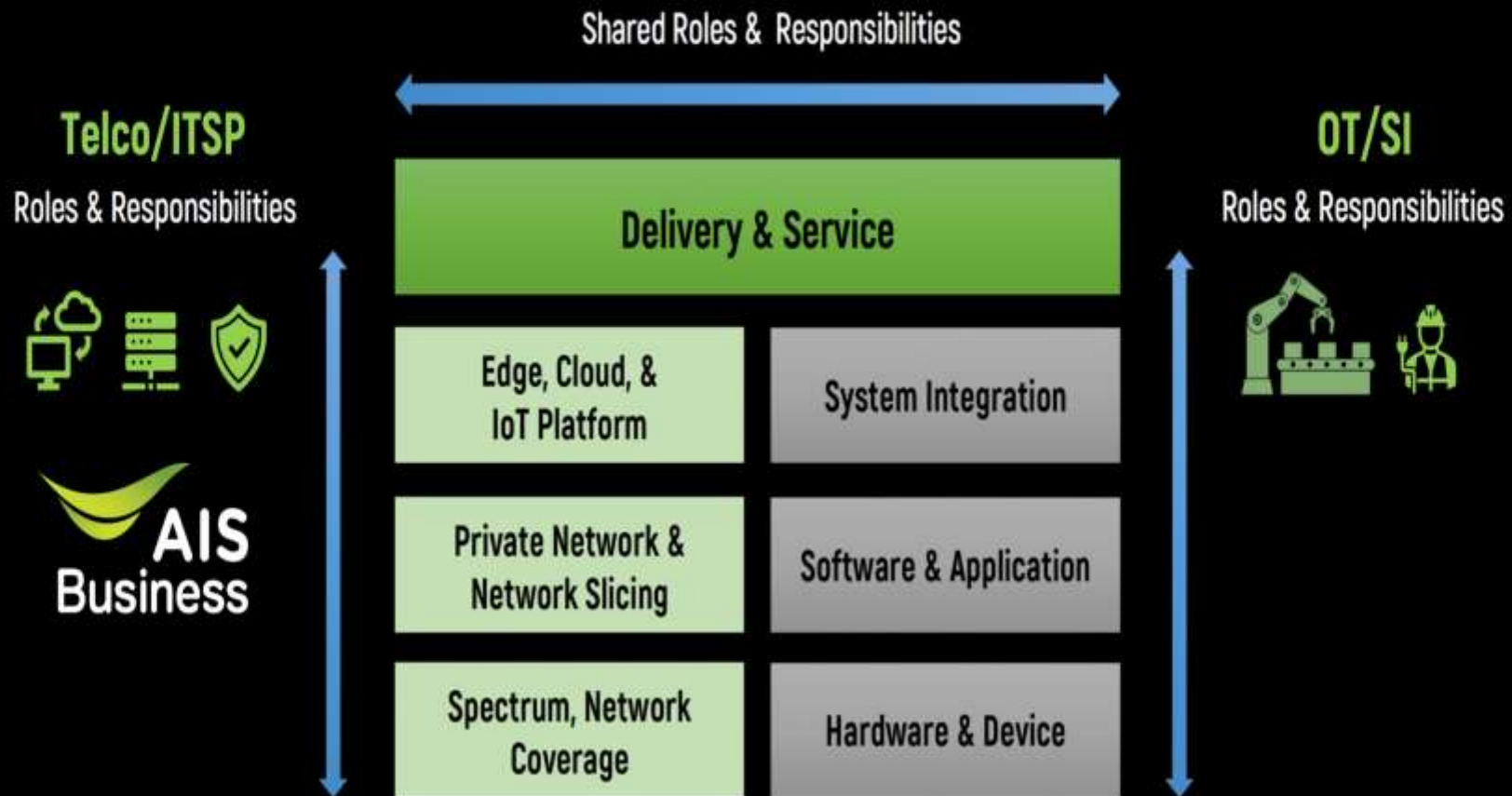
### EV Charging Station Location and Density

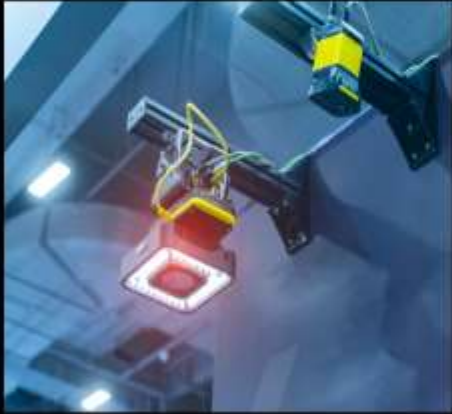


### Daily EV Consumer Density



# Cross-Industry Collaboration





## Key Takeaways

# The Future of **AIoT** Starts with the **Right Foundation**

### Intelligence is becoming the new standard

Organizations across industries are shifting from monitoring to autonomous operations

### Legacy infrastructure cannot scale **AIoT** alone

Traditional IoT architectures were not designed for real-time intelligence and continuous data streaming.

### **AIoT** requires a different digital foundation

Trusted data, reliable connectivity, edge computing, and governance are now critical infrastructure.

### The future will be built through ecosystems

**AIoT** success depends on collaboration across networks, cloud, AI, OT, and industry partners



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