

# GompaTech PdM

## Industry 4.0 Predictive Maintenance for Airport Operations

Smarter Operations, Seamless Journeys: Predictive Maintenance for Airports

Prepared for:

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**GOMPA**  
Technologies

# About GompaTech

**Our Mission:** To empower industrial operations with cutting-edge AI and IoT solutions, transforming reactive processes into predictive, efficient, and intelligent systems.

- **Who We Are:** GompaTech is an Industry 4.0 company specializing in Manufacturing Intelligence, Digital Twins, and AI-powered solutions.
- **Our Expertise:** We bring a unique blend of experience from Silicon Valley's tech leaders and deep-domain knowledge of industrial manufacturing and operations.
- **Our Founder:** Led by Siddharth Solanki, a seasoned professional who brings expertise from world class leading projects like gChips, Siddharth is well trained in Production Plants and Big Tech alike.



# Challenge: Unplanned Downtime in Airport Operations



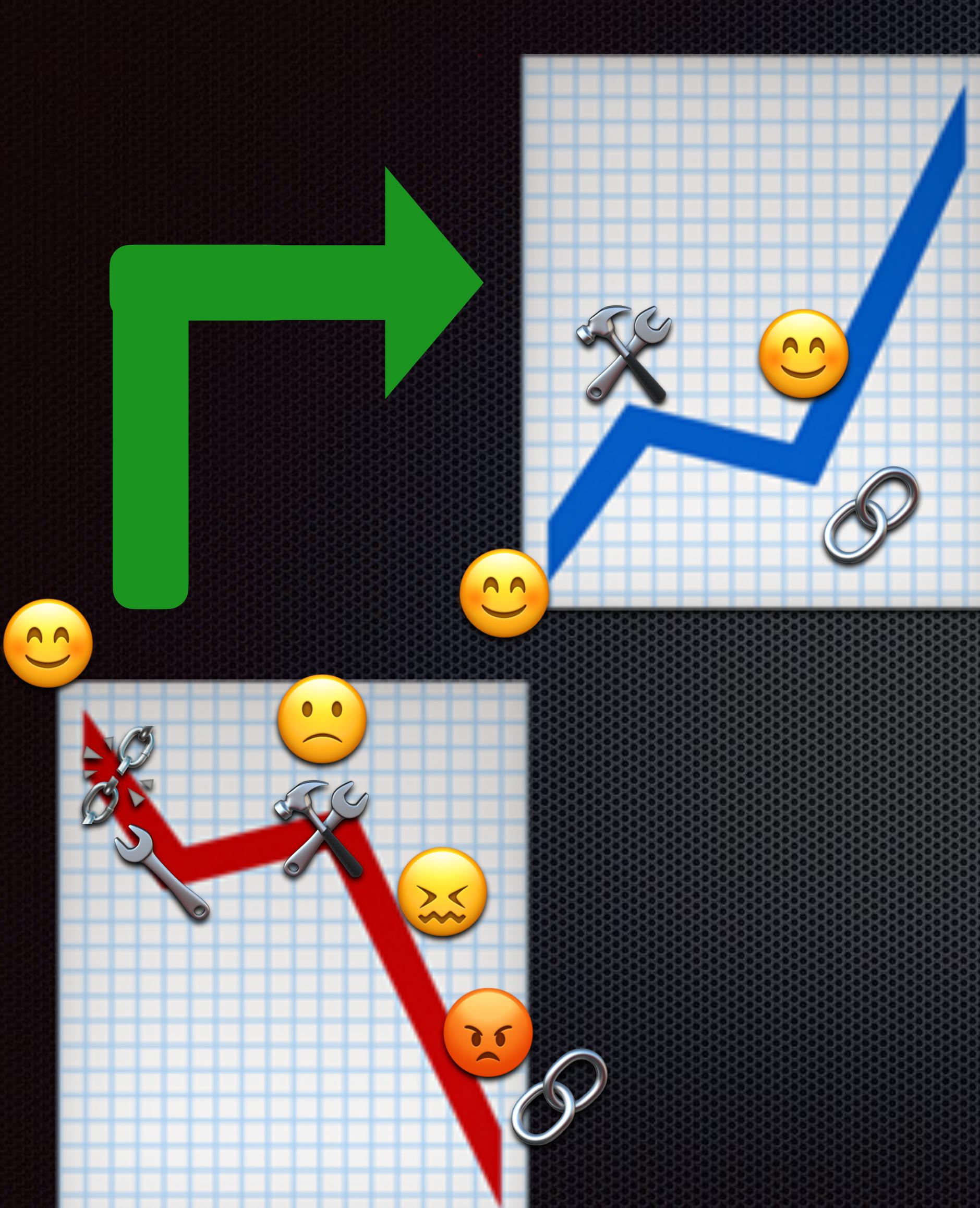
## The High Cost of Reactive Maintenance

Unscheduled downtime of critical airport assets leads to:

- **Flight Delays & Cancellations:** Disrupting schedules and impacting passenger satisfaction.
- **Increased Operational Costs:** Emergency repairs, overtime labor, and sourcing last-minute parts are expensive.
- **Safety & Compliance Risks:** Equipment failure can compromise safety standards and lead to regulatory penalties.
- **Negative Passenger Experience:** Long queues, lost baggage, and a chaotic airport environment damage your reputation.

How are these challenges currently managed at your Airport?

# The Solution: Introducing GompaTech PdM

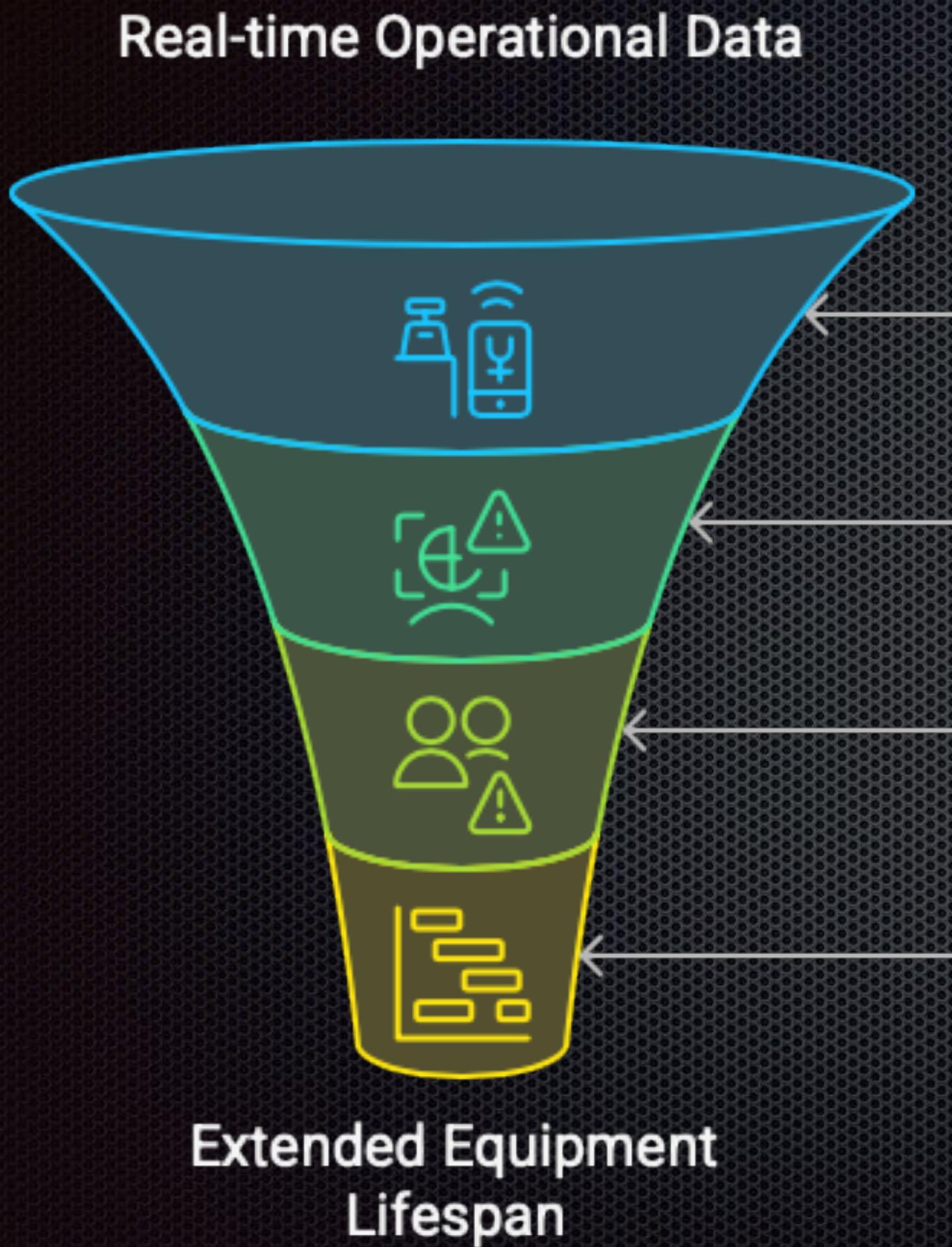


## GompaTech PdM: Your Proactive Partner in Airport Operations

GompaTech PdM is a comprehensive predictive maintenance solution that leverages the power of:

- **IoT & Smart Sensors:** To collect real-time data from your critical assets.
- **Artificial Intelligence (AI) & Machine Learning (ML):** To analyze data, identify patterns, and predict potential failures before they happen.
- **Digital Twins:** To create virtual replicas of your assets for simulation, analysis, and optimized maintenance planning.

# How GompaTech PdM Works



**Collect:** Non-invasive sensors are attached to your critical assets (baggage handling systems, jet bridges, HVAC, etc.) to gather real-time operational data.

**Analyze:** Our AI-powered platform analyzes the data, detecting subtle anomalies and patterns that precede equipment failure.

**Predict & Alert:** The system generates predictive alerts, notifying your team of potential issues well in advance, with clear explanations and recommended actions.

**Optimize:** Utilize the insights and digital twin simulations to schedule maintenance proactively, optimize asset performance, and extend equipment lifespan.

**The Goal:** Shift from reacting to failures or fixed schedules, to performing targeted maintenance exactly when needed.

# Key Features & Benefits

## Feature

## Benefit

### Predictive Failure Alerts

Proactively schedule maintenance, minimize unplanned downtime, and reduce emergency repair costs.

### Real-time Asset Health Monitoring

Gain complete visibility into the condition of your critical assets from a centralized dashboard.

### Digital Twin Simulation

Test maintenance strategies in a virtual environment, optimize performance, and train staff without disrupting live operations.

### Actionable Insights & Reporting

Make data-driven decisions to improve maintenance schedules, manage resources effectively, and track performance.

### Seamless Integration

We are happy to work with you to integrate with your existing systems where possible.

# Solution in Action: Mockup



## An Intuitive Dashboard for Data-Driven Decisions

Our user-friendly interface provides:

**Dashboard : At-a-glance view** of all monitored assets and their health status.

**Reports:** Detailed analytics on asset performance, utilization, and potential failure modes.

**Asset History: Asset Card** records at one place with their real-time, as well as, historical records

# Why GompaTech?

- **Proven Expertise:** Deep experience in industrial AI, IoT, and predictive analytics.
- **Tailored Solutions:** We understand that every airport is unique. We customize our solutions to meet your specific needs.
- **Focus on ROI:** Our primary goal is to deliver a tangible return on your investment through reduced costs, increased efficiency, and enhanced operational resilience.
- **Collaborative Partnership:** We work closely with your team to ensure successful implementation, adoption, and ongoing success.



# Let's Build the Future of Airport Operations, Together



**Take the first step towards a more predictive, efficient, and reliable airport.**

- Schedule a Personalized Demo: Let us show you how gSmartAirport can transform your operations.
- Contact Us for a Consultation: Discuss your specific challenges with our team of experts.

## Contact Information:

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**Website:** [gompatech.com/gsmartairport.html](http://gompatech.com/gsmartairport.html)

# Thank You

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We look forward to supporting your team.

Siddharth Solanki  
**CEO, Gompa Technologies**

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