

GompaTech PdM

Industry 4.0 Predictive Maintenance for Airport Operations

Smarter Operations, Seamless Journeys: Predictive Maintenance for Airports



GOMPA
Technologies

Siddharth Solanki,
Gompa Technologies
July 5, 2025

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



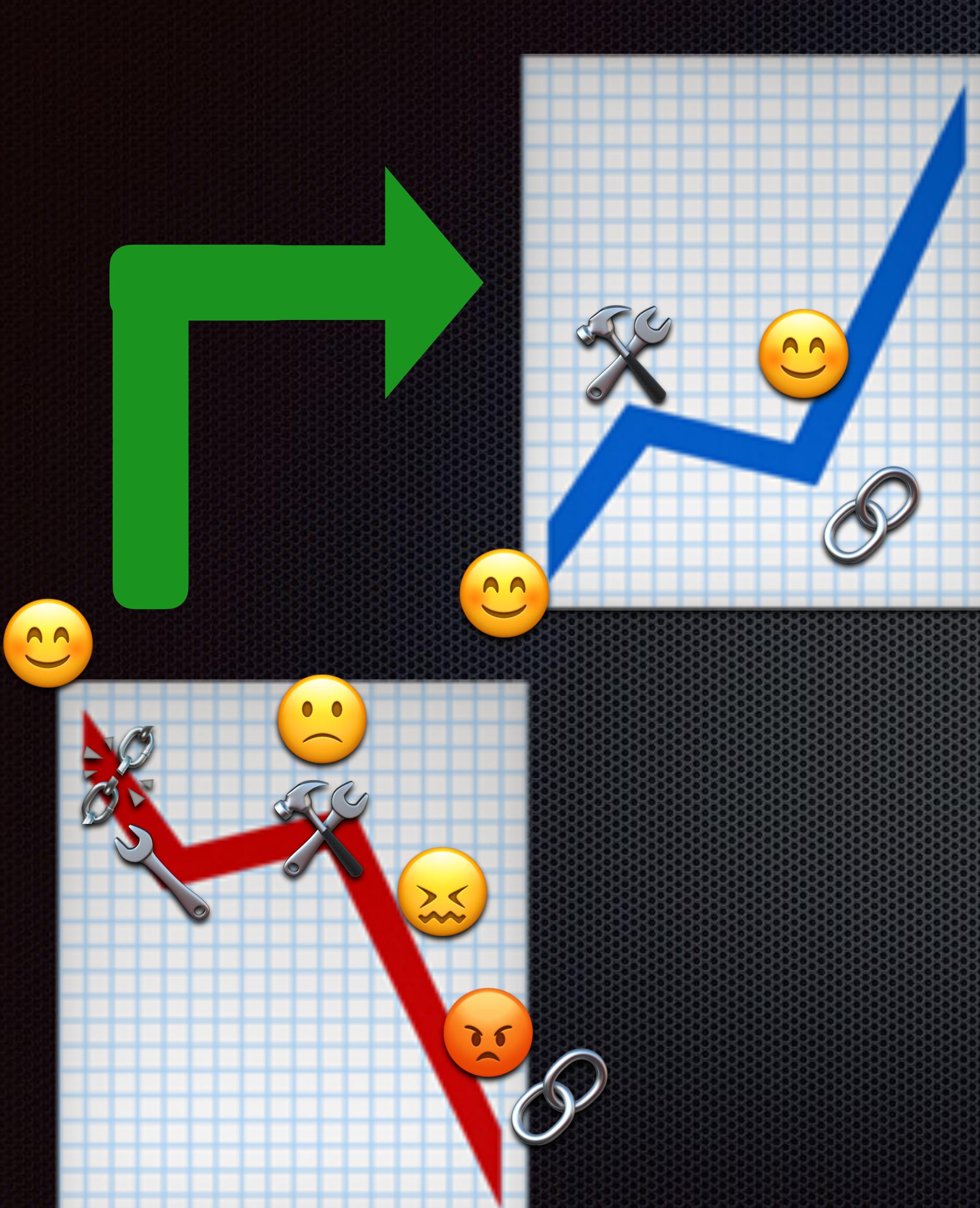
The High Cost of Reactive Maintenance

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

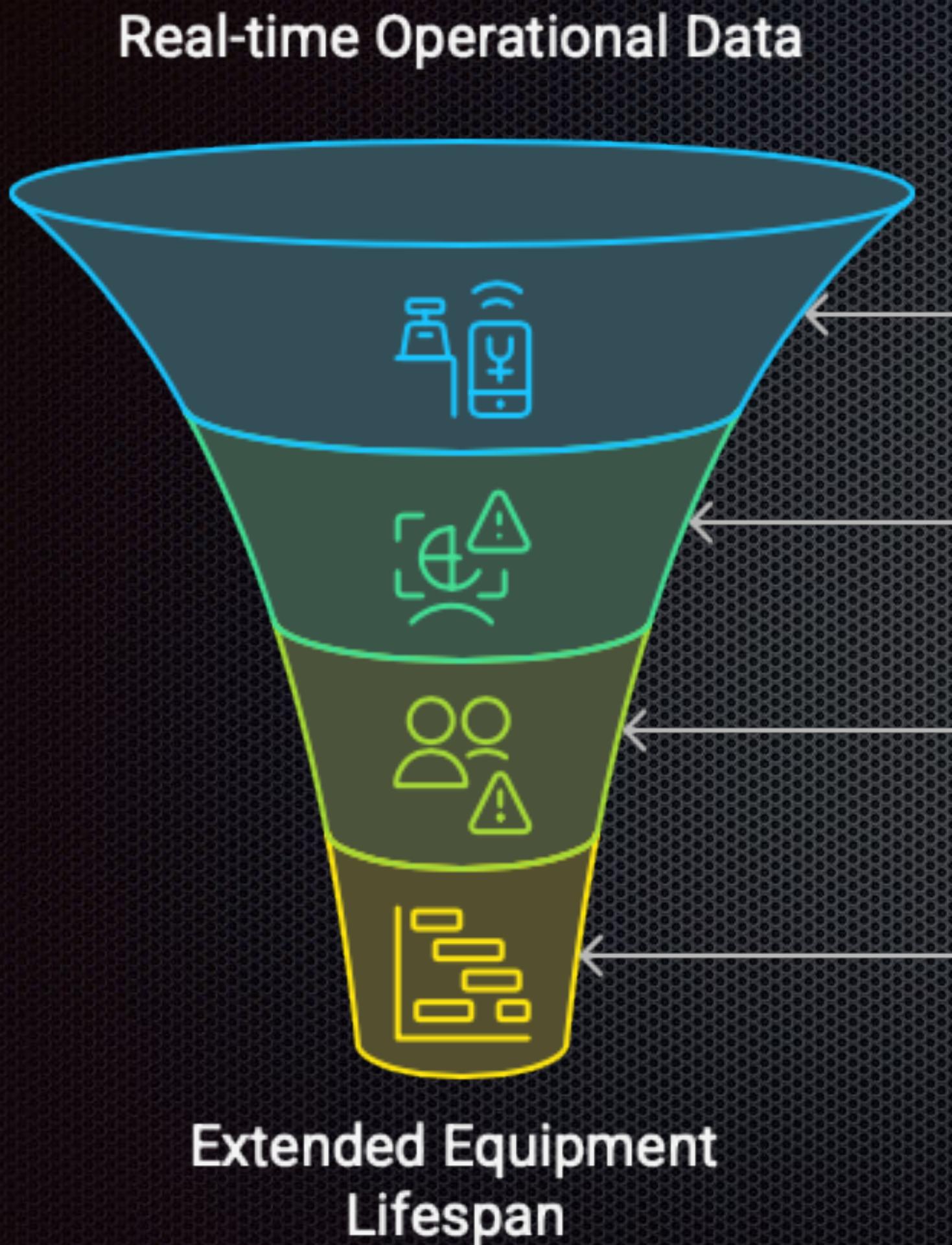


GompaTech PdM: Your Proactive Partner in Airport Operations

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:

Email: contact@gompatech.com

Phone: +1-650-450-8263 | +91-9131163733

Website: gompatech.com/gsmartairport.html

Thank You



GOMPA
Technologies

We look forward to supporting your team.

Siddharth Solanki
CEO, Gompa Technologies

team@gompatech.com

+91.913.113.6733.

<https://www.gompatech.com/gsmartairport.html>