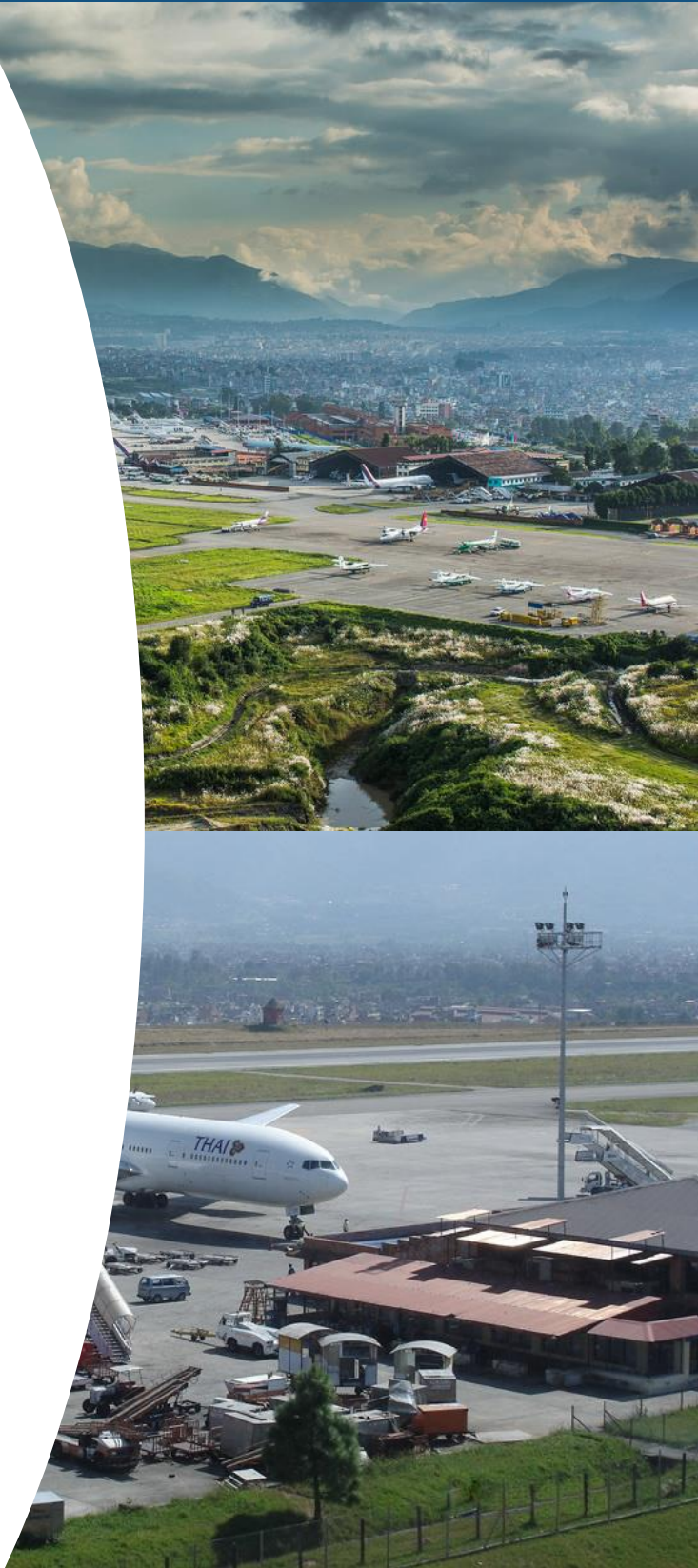# CymbIoT
Smart Airport
Case Study

Tribhuvan Int'l Airport

CymbIoT
Making IoT Smarter

SURVEILLANCE

Seamless surveillance across multiple cameras and locations.

ANALYTICS

Face recognition, abnormality alerts, headcount, and more.

PROCEDURES

Automatic procedures for event management & real-time response

ACCESS CONTROL

Automatic access control to different zones by permissions.

LPR

License Plate Recognition for car access & movement control.

Tribhuvan International Airport, Nepal

C&C

Command & Control for data fusion and integration of all airport systems.

OVERVIEW

CymbIoT provided Tribhuvan International Airport in Nepal with an end-to-end Command & Control solution based on a distributed architecture that allowed the customer to integrate all existing legacy systems, while preparing for future expansions. The solution has been fully operational for 4 years, managing all **Security**, **Operational**, & **Loss Prevention** aspects of the airport, and undergoing upscales every year.

MAIN OPERATIONAL DELIVERY

- Access Control according to permissions to all zones
- Seamless visual monitoring of employees, travelers, and luggage
- Integration of all airport operational systems: doors, lights, A/C, lifts…
- Headcount: airport entry/exit, zone entry/exist
- Monitoring of activity in No Entry/Staff Only areas
- Tracking & identification of all cars in airport area
- Identification of abnormal activities for Customs Agents

SUCCESS STORY

2015 EARTHQUAKE – During the 2015 earthquake in Nepal, the CymbIoT C&C system delivered 100% Disaster Recovery capabilities, operating seamlessly throughout the event, and helping first responders to identify locations of trapped personnel & travelers, provide warning in unsafe areas, and more.

CYMBIOT COMMAND & CONTROL

CymbIoT Command & Control integrates data from all cameras and operational systems, providing operators of all types with actionable information and real-time response capabilities.

CymbIoT C&C ensures smooth "handover" between monitoring elements (tracking an object across multiple sensors), and between operational systems (door closing triggers light switch).

The C&C receives, integrates, analyzes, and releases information to users across the airport organization, according to predefined procedures and permissions.

MOVING OBJECT TRACKING

- Absolute surveillance across multiple cameras.
- Operational connectivity of all cameras for complete Field of vision & Line of Sight.
- "Back to the future " - track a moving object at X16.

OPERATIONAL INTEGRATION

- Headcount of personnel & travelers
- Environmental Control
- Lighting Control
- Access Control
- Vehicle Access Management

ANALYTICS

- Headcount comparison
- Alert for unexpected presence
- Alert for abandoned luggage
- Configuration of No Entry zones

CymbIoT's mission is to design, implement and deliver advanced Internet of Things (IoT), Video Management Solution (VMS), and Command & Control (C&C) platforms. We empower end users to configure and manage integrated networks of all types and scales - from Smart and Safe Cities, through Transportation Hub security, to Smart Buildings and Enterprise management.

With millions of sensors across numerous verticals using our products to deliver actionable intelligence and real-time response capabilities to customers worldwide - we have the experience, know-how and technology to deliver real world solutions that work.

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Making IoT Smarter

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