## THE SMART AIRPORT OF THE FUTURE



## THE GROWTH OF COMMERCIAL



### **OVER 50%** AVIATION GROWTH IN ASIA PACIFIC



### LARGEST AVIATION MARKET **BY 2024**

SOURCE: IATA







### THE SMART AIRPORT OF THE FUTURE **PROBLEM:** TIME CONSUMING TRAVEL

**Travellers want:** 

- Shorter, faster queues
- Streamlined screening
- Trackable luggage & queues
- Notifications for airport queue density

### **SOLUTION:** ADVANCED ICT SOLUTIONS FOR A SELF-SERVICE, AUTOMATED PROCESS

**CROWD DENSITY QUANTIFICATION** 

Real-time crowd density levels ✓ Waiting time information Increased efficiency

#### **PASSENGER NOTIFICATIONS**

Real-time flight information Increased efficiency with self-service Tagging & tracking of luggage

## ENHANCED PASSENGER EXPERIENCE



#### **BIOMETRIC GATE**

 Fast-tracked immigration Fully automated, efficient & safe Seamless travel for low-risk passengers



## THE SMART AIRPORT OF THE FUTURE **PROBLEM:** INEFFICIENT SECURITY CHECKPOINTS

- Security concerns
- Outdated technology
- Increased passengers



### **SOLUTION:** TECHNOLOGIES FOR SAFETY, COMFORT AND EFFICIENCY





#### **AUTOMATED BORDER CONTROL**

 Efficient immigration control Cheaper operation costs for airports Safety & efficiency prioritised

#### **AIRPORT SURVEILLANCE**

- Detection of suspicious behaviour
- Direct reporting of risks to operation centre
- Detection of uneasiness & anxiety with emotion detection
- Search for missing children/passengers

# SAFETY AND SECURITY



#### BOARDING

- ✓ Self-boarding
- Passportless & ticketless
  - boarding process
- Enhanced security at boarding



### THE SMART AIRPORT OF THE FUTURE **PROBLEM:** AIR TRAFFIC CONGESTION

- Outdated analogue communications and radars
- Growing demands for air travel
- Increased security concerns

## **AIR TRAFFIC** CONTROL

### **SOLUTION:** INTEGRATED AIR TRAFFIC MANAGEMENT



#### **AUTOMATIC DEPENDENT** SURVEILLANCE

Highly accurate ✓ Cost effective Constantly updated



#### **AUTOMATED RADAR TERMINAL SYSTEM**

Traffic management Traffic approach & density information State-of-the-art technology

### **AIRPORT SURVEILLANCE** RADAR

Digital technologies

Ground & weather clutter suppression

Interference-free output

