The Smart Airport of the Future

The Growth of Commercial Aviation

Over 50% Aviation Growth in Asia Pacific

Largest Aviation Market by 2024

2017

$743 BN

3.8 BN

2035

$1486 BN

7.2 BN

China

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

ENHANCED PASSENGER EXPERIENCE

CHECK-IN

LUGGAGE DROP

DEPARTURE

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

BIOMETRIC GATE
✓ Fast-tracked immigration
✓ Fully automated, efficient & safe
✓ Seamless travel for low-risk passengers
THE SMART AIRPORT OF THE FUTURE

PROBLEM: INEFFECTIVE SECURITY CHECKPOINTS

- Security concerns
- Outdated technology
- Increased passengers

SAFETY AND SECURITY

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

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- Outdated analogue communications and radars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

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

AIR TRAFFIC CONTROL

DELAYED
ON TIME

• Outdated analogue communications and radars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

ON TIME
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DELAYED
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