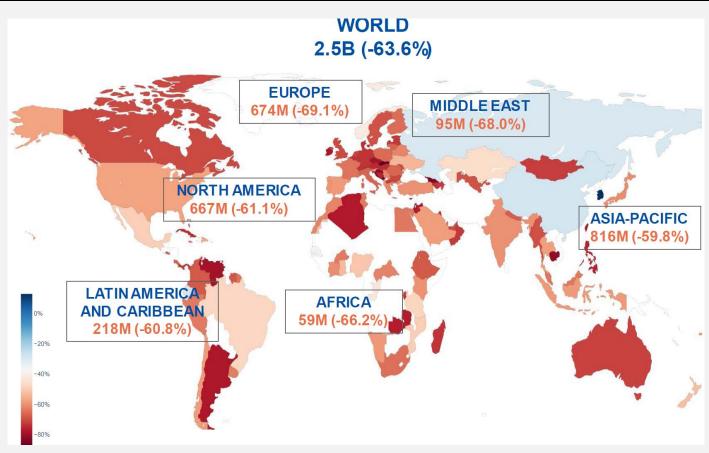
# **Smart Airports**



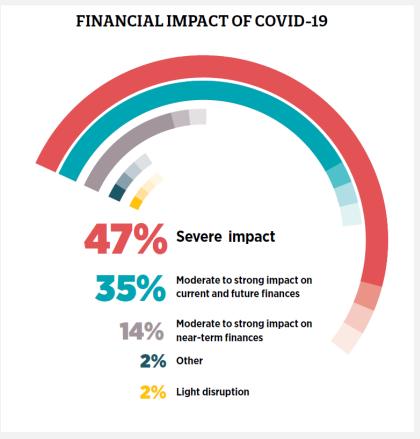
Landrum & Brown | March 2021



# **Covid Impact**

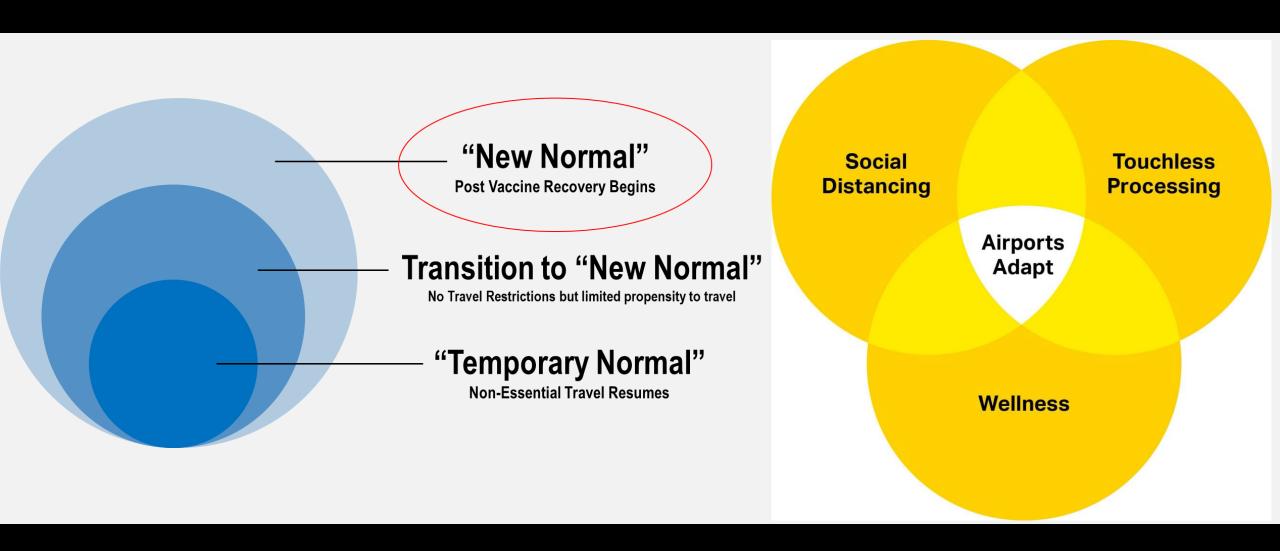


Source: ACI, data till November 2020

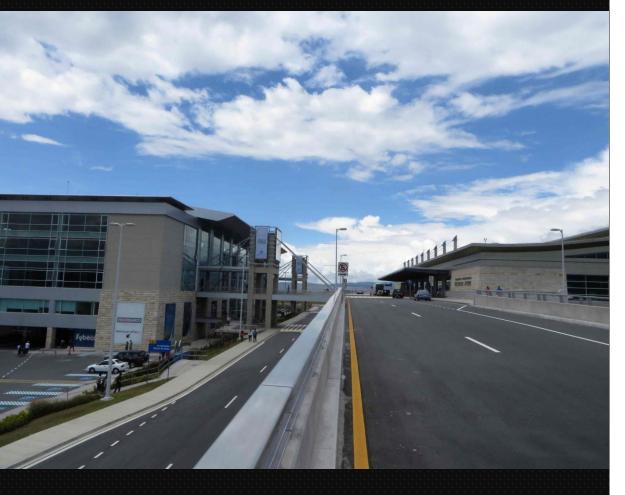


Source: Airports International Magazine

# Adapt to the "New Normal"



## **Near-Term Objectives**



- Restore public confidence that airports and air travel are safe
  - Relies upon State and National health safety guidelines and best practices
  - Relies on the coordinated responses of airports, airlines, government agencies and private businesses
- Manage the airport's response in concert with evolving health-safety guidance
  - Effect on the return of demand
  - Effect on facility capacity
  - Effect on operating costs and revenues
- Refocus the airport business plan
  - Refocus the short-term Capital Programme towards efforts that support the recovery of aviation
  - Maximize the efficiency of operations within health-safety guidance

## **Post COVID-19 Operating Context**



#### **DOWNS**

**UPS** 

**Air Traffic** 

**Facility Utilization** 

Revenues

**CAPEX and OPEX (?)** 

Health & Safety Requirements

**Facilities Capacity (?)** 

**CAPEX and OPEX (?)** 

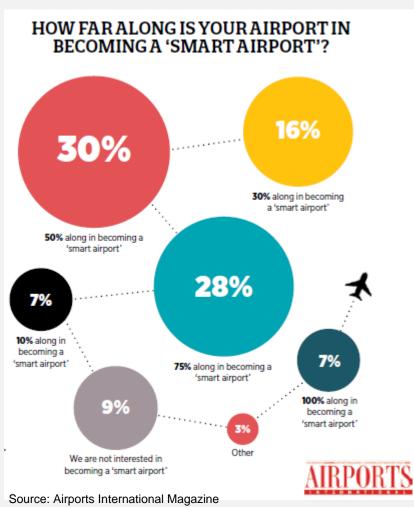
# Five years' innovation in five months



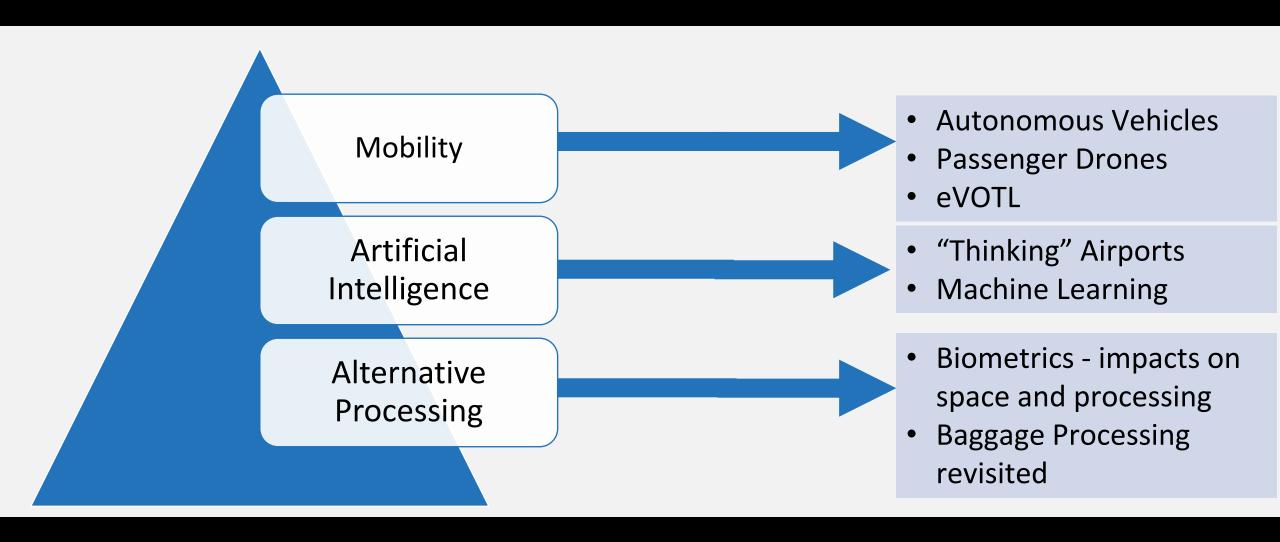
## **Smart Airport?**

- Tech is transforming the passenger experience. What tech to choose?
- Smart airports focus on their own priorities and evaluate the local context before deciding whether to invest
  - Focus on the customer experience and health
  - Utilise data to manage assets, resources and services efficiently
  - Prioritise long term sustainability in terms of energy/emissions

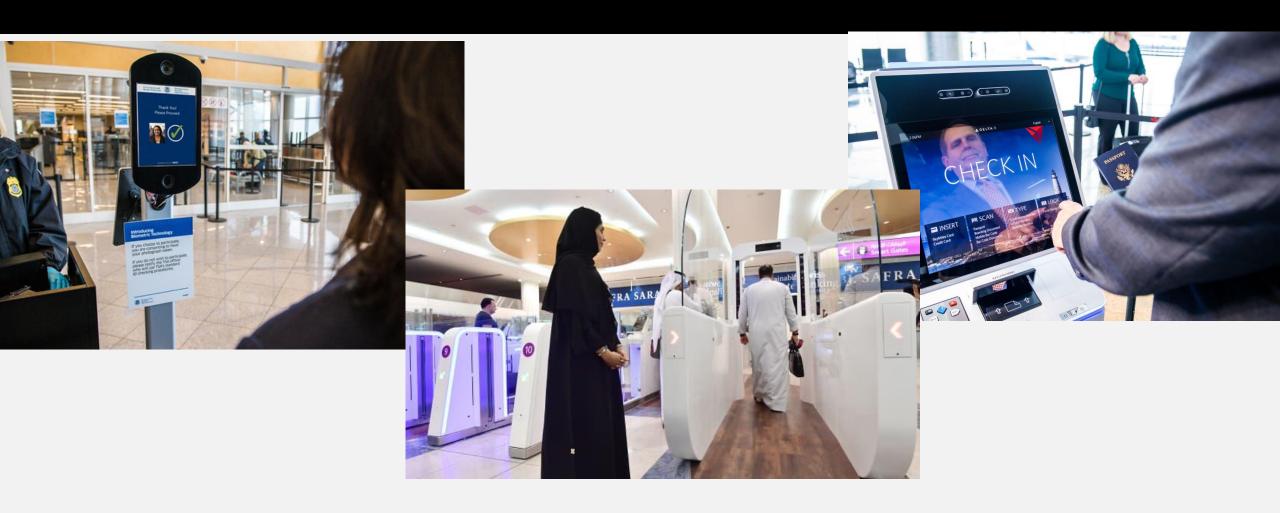




### **Broad Themes**



# **Alternative Processing**



## Al Applications in Airports



- Retail optimization
- Finance and Back of office functions
- Automation
- Recruiting
- Security Screening
- Passenger Profiling
- Baggage Handling System Monitoring
- Trolley Monitoring
- Robotics
- Customer Service / Chat bots
- Human resource and infrastructure utilisation

# Mobility

#### **Personal Transport**

#### **eVOTL**



**Delivery Drone** 



#### **Ground Transport**

#### **Automated Vehicles**



Hyperloop



- eVOTL
- Passenger Drones
- Autonomous Cars on Airside and Landside
- Sustainable zero emissions transportation

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