



# Hong Kong International Airport – A High Performance Transportation Hub By Design

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# Mega Transportation Network around HKIA

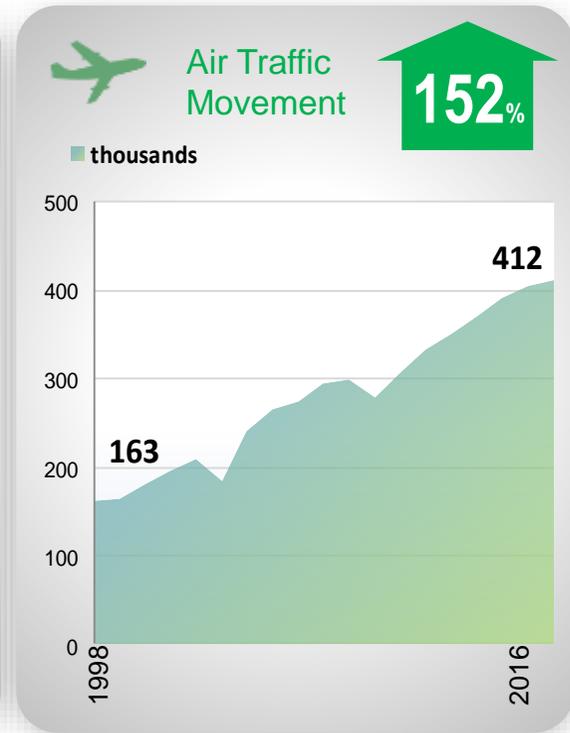
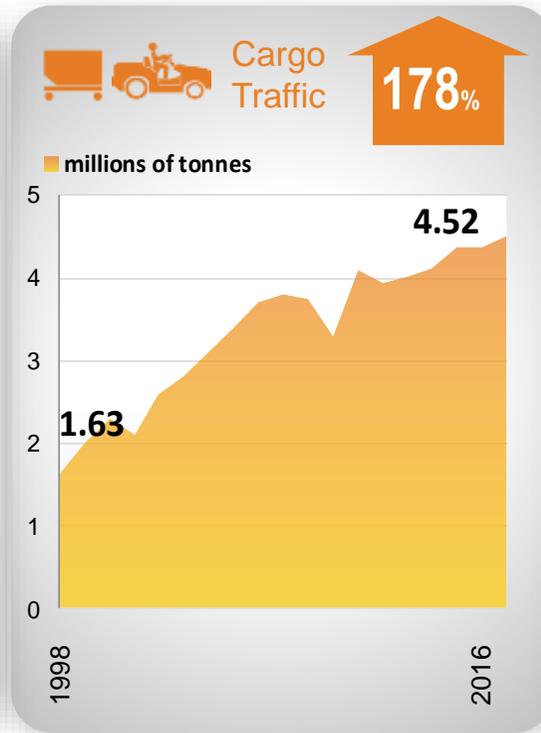
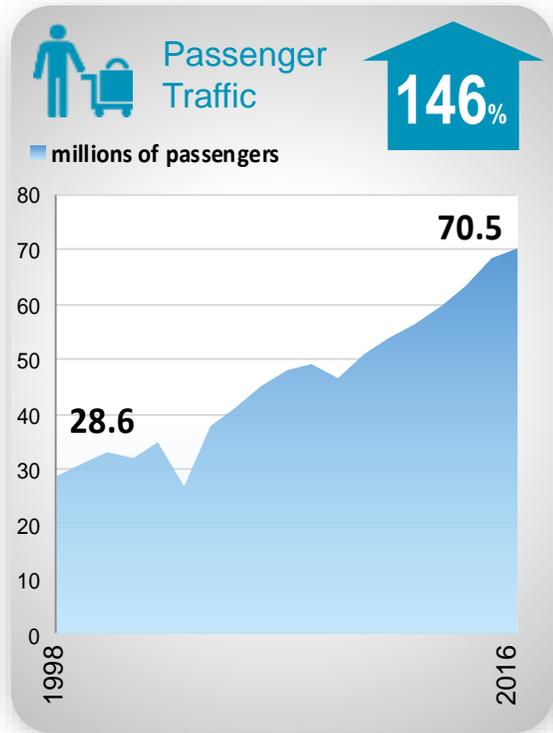


# A Leading International Aviation Hub



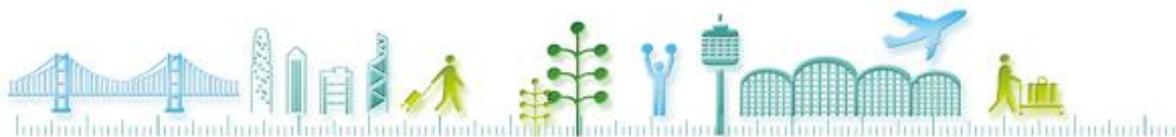
Over **100 airlines** operate around 1,100 daily flights to over **190 destinations** worldwide, including 42 in Mainland China.

# Fast Growth of Air Traffic



# 2RS Infrastructure development

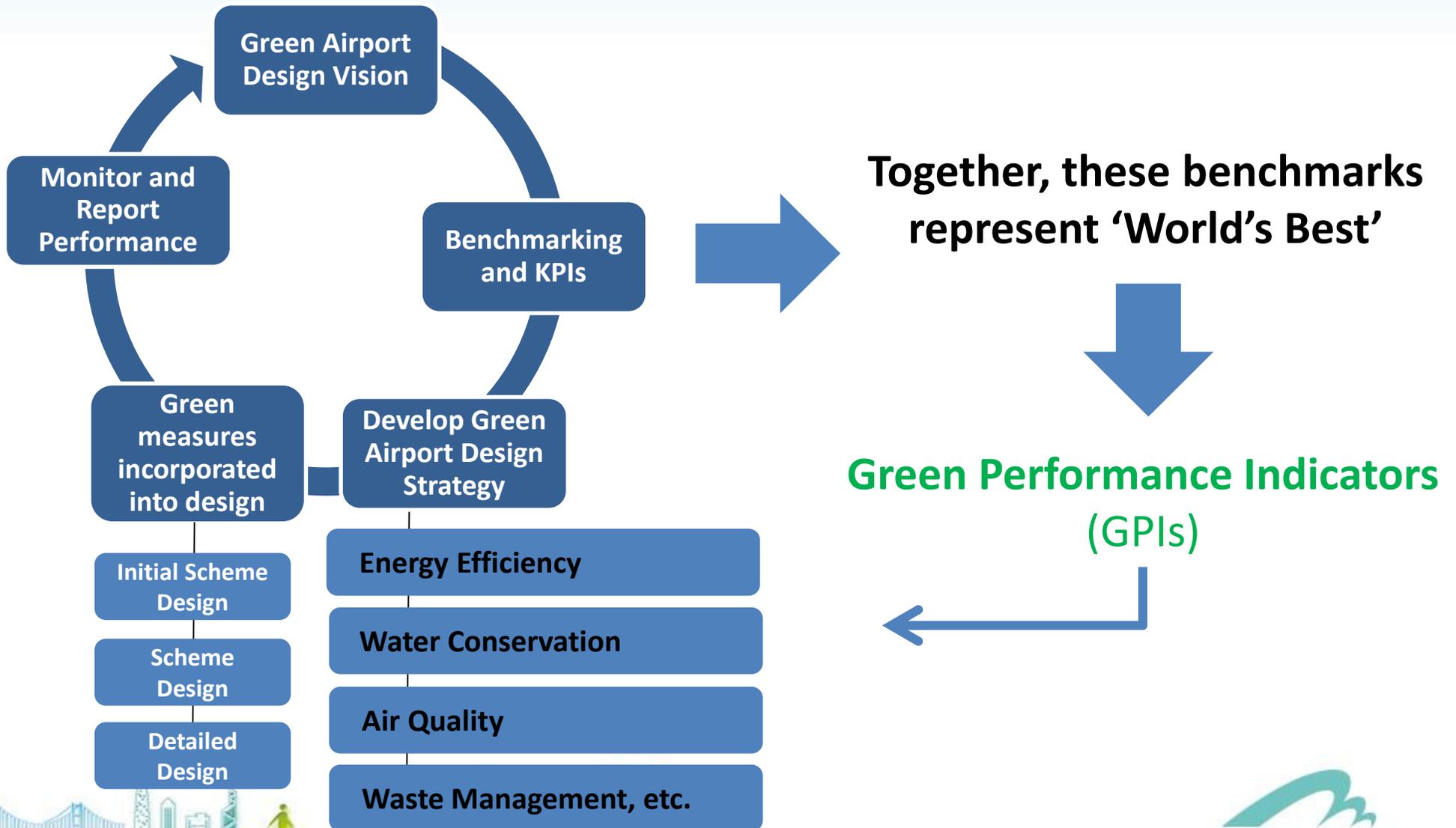
- **Midfield Concourse** (GFA: 105,000m<sup>2</sup>) opened December 2015
  - No. of aircraft parking positions at Midfield Concourse = 20
  - Access by extended Automated People Mover from T1
  - Building Awards & Recognition:
    - BEAM Plus V1.1 **Final Gold** (2017)
    - **Grand Award** in New Buildings – Completed Project Category at Green Building Awards 2016
    - Winner of Engineering News Record **Global Best Projects Awards** (2016)
    - **Gold Award** in HK Awards for Environmental Excellence (2013)







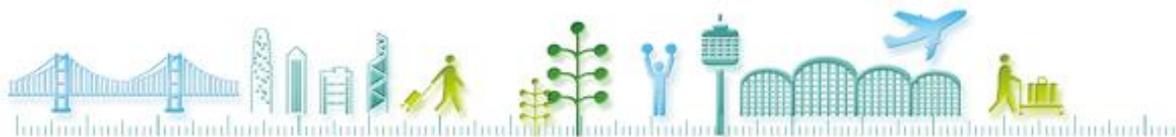
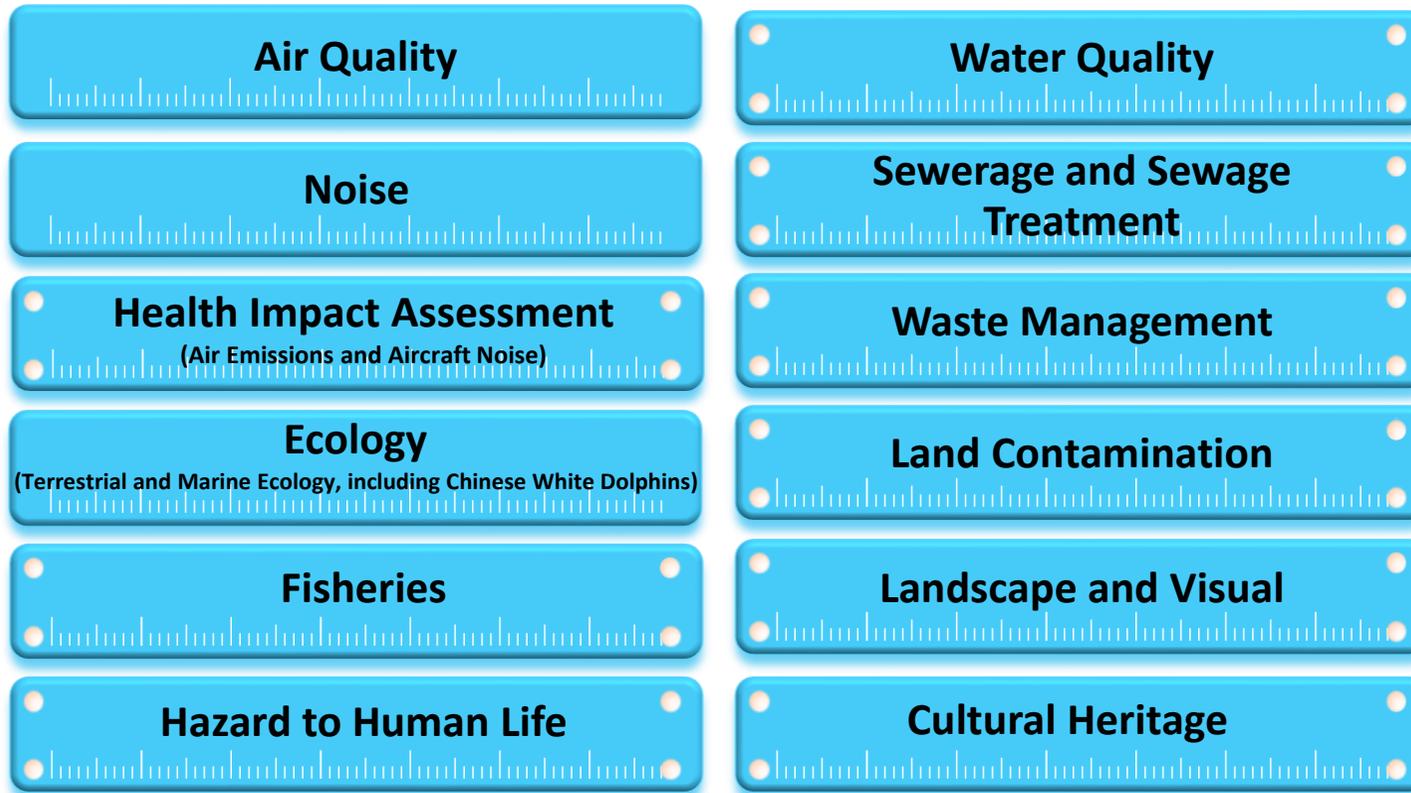
# HKIA Projects - Green Design Strategy





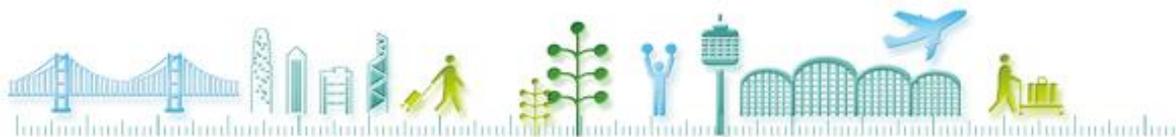
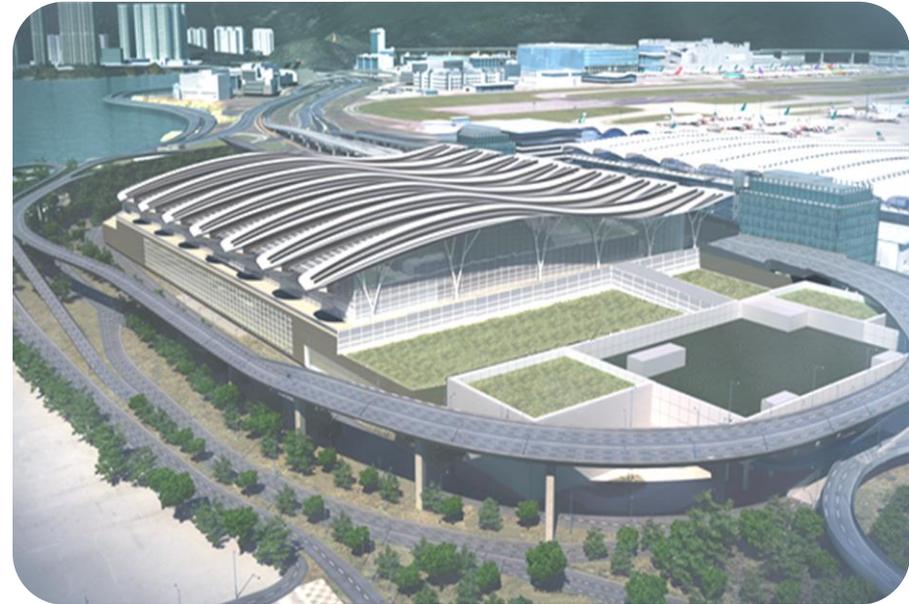


# Comprehensive 3RS EIA Study undertaken covering 12 Environmental Aspects

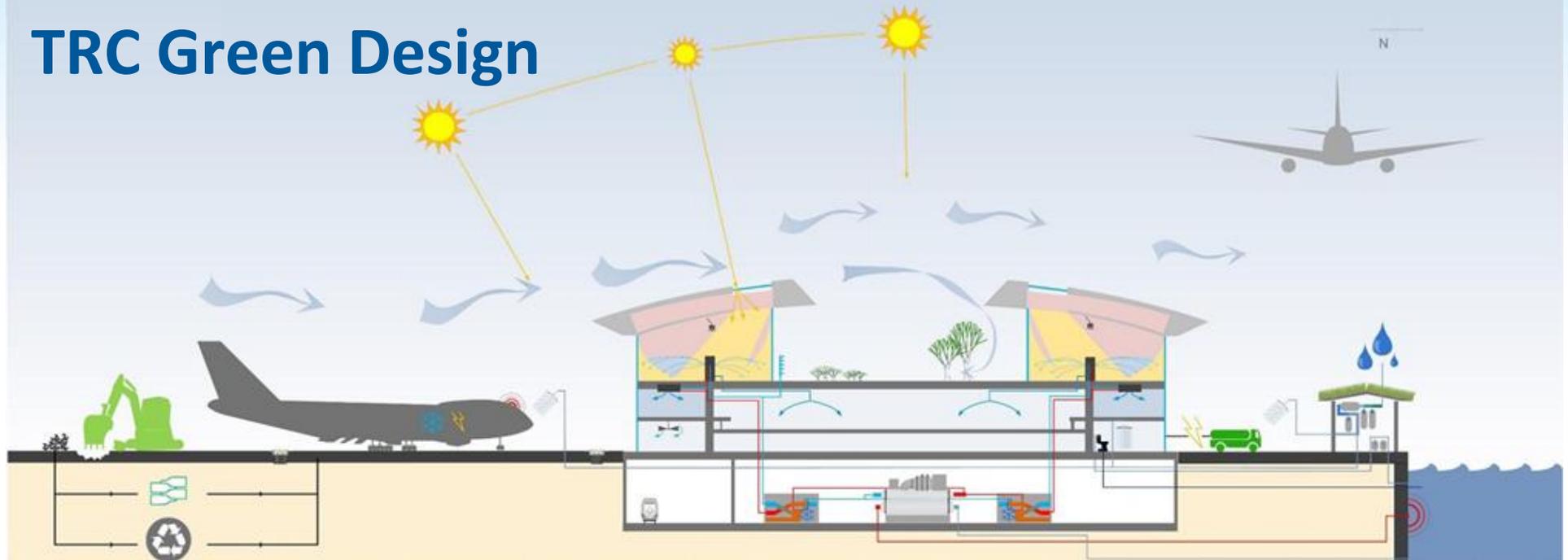


# 3RS Buildings - Green Airport Design

**Vision: HKIA as one of the World's Greenest Airports**



# TRC Green Design



## Energy Efficiency



Solar shading & insulation



High performance glazing



Roof materials specified with high Solar Reflectance Index



Photovoltaic panels energy generation



Highly efficient Lighting design



Local LED task lighting



Occupant load sensing for escalators and walkways

## Water Consumption



Sea water cooling



Sea water flushing



Low flow fittings



Grey water / rain water recycling for irrigation

## Air Quality



Excellent Class in Indoor Air Quality



Charging stations for low emission electric vehicles

## Waste Management



Green construction practices



Green Tenant Guidelines



Material specification and modular / prefabrication construction



Source separation enabling processing where appropriate



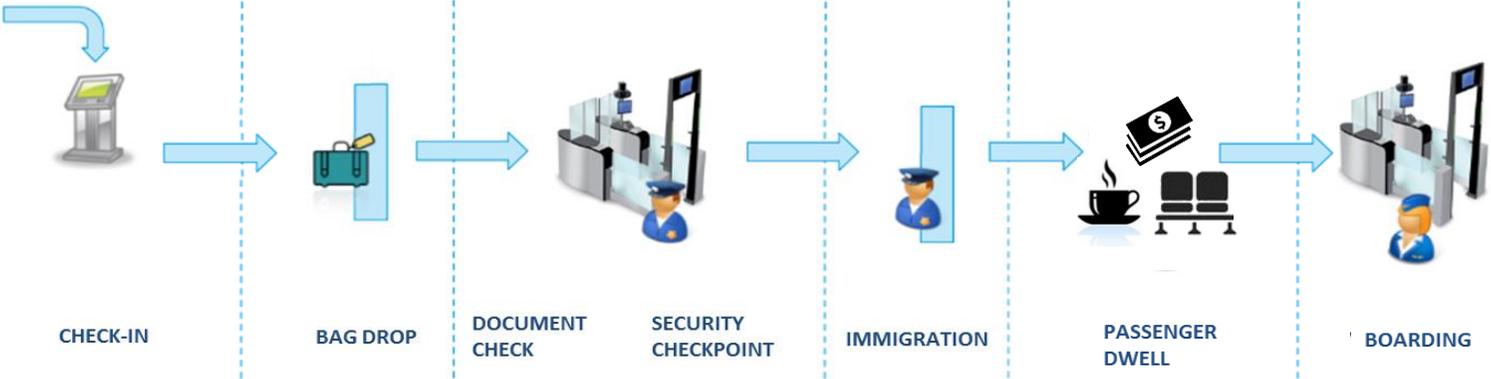
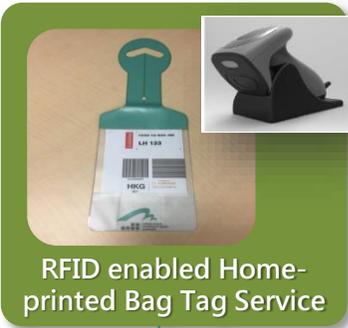
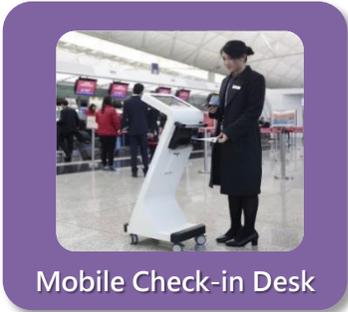
# Passenger Experience View at Central Concourse



# Turning HKIA into a Smart Airport



# Implement Emerging and Innovative Technologies





Thank You

