

Legislative Council Subcommittee
to Follow Up Issues Relating to the
Three-Runway System at the Hong Kong International Airport

Overview, Scope and Progress Update of the
Three-Runway System Development

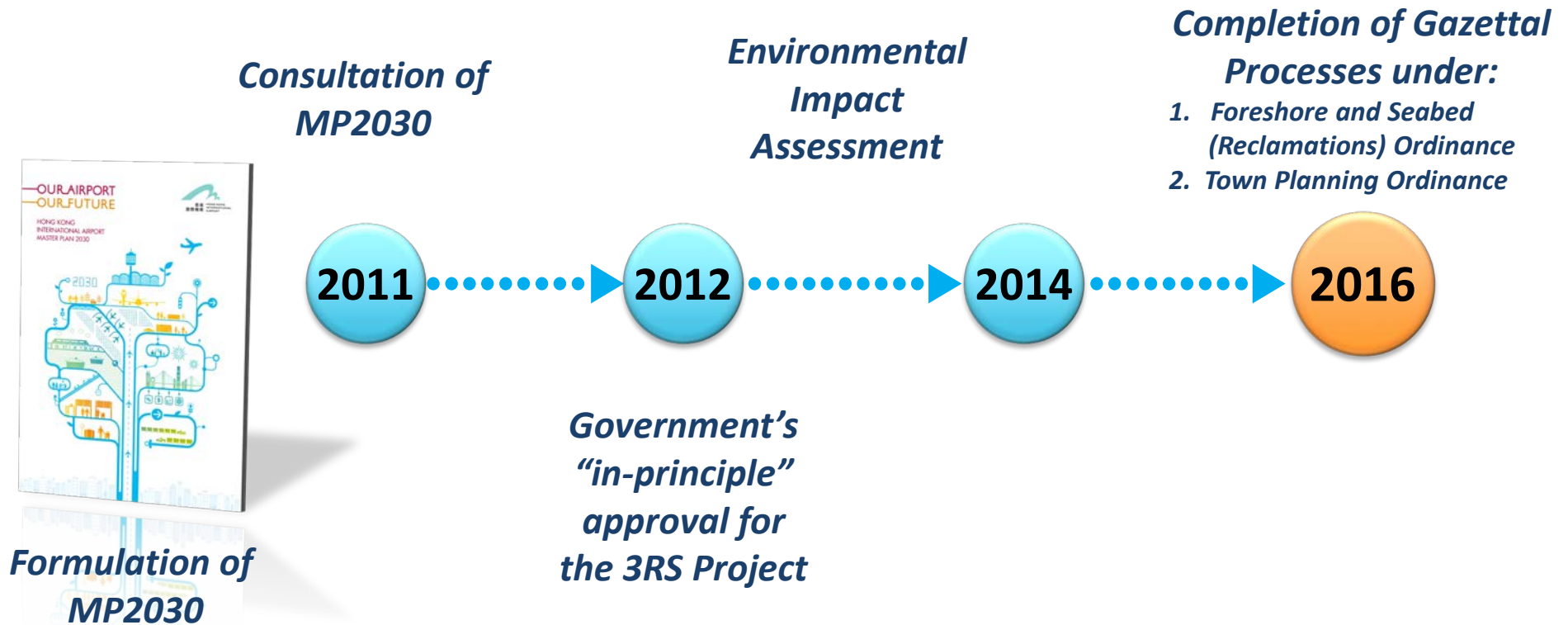
Airport Authority Hong Kong
5 December 2016



Three-Runway System



Remarkable planning journey



3RS development is more than building a runway

Third Runway
Passenger Building



Automated
People Mover



High-speed
Baggage Handling System



Reclamation and
the New Third Runway



Expansion of Terminal 2



3RS Construction

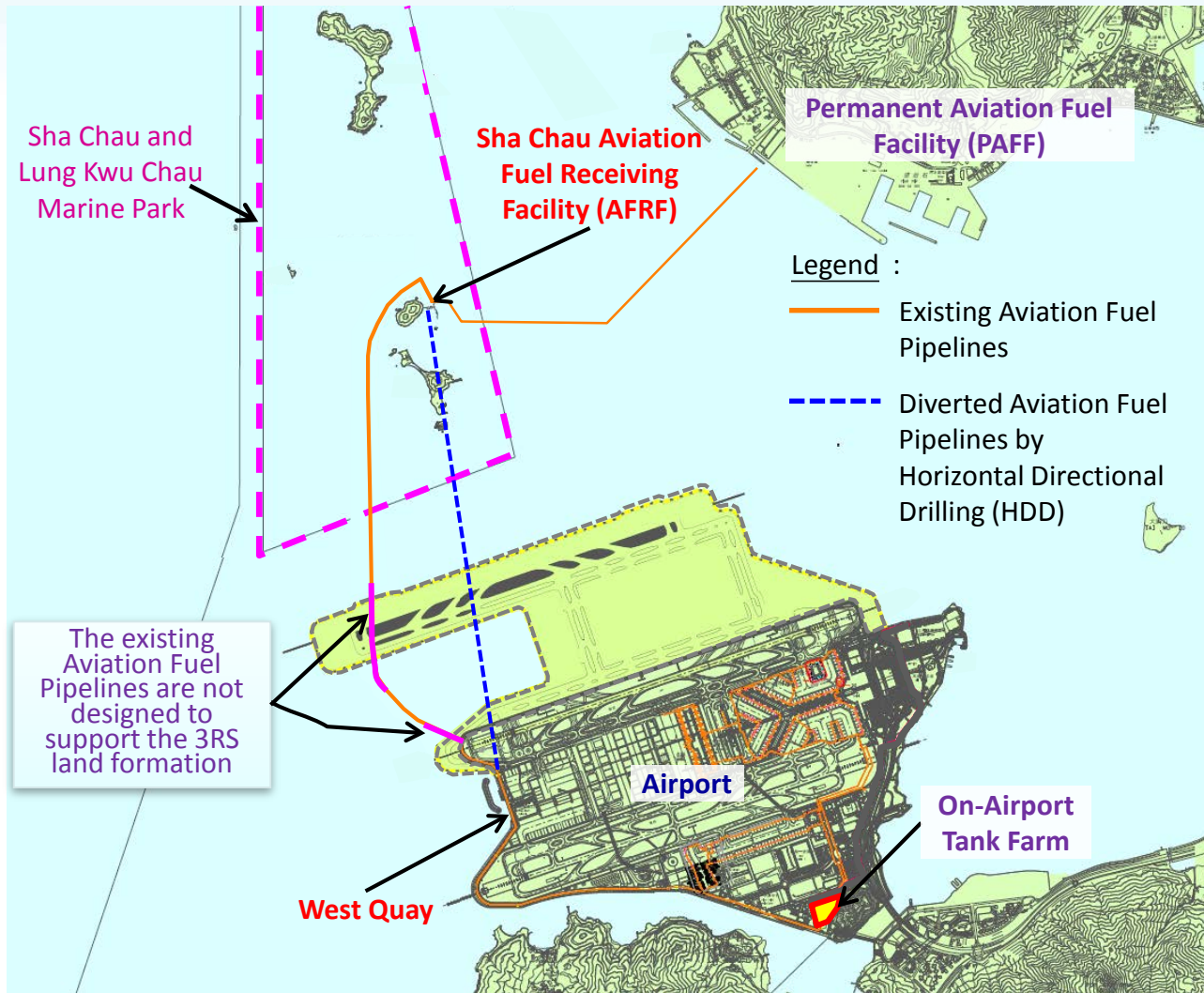


Progress Updates:

Diversion of Existing Utilities



Diversion of Aviation Fuel Pipelines

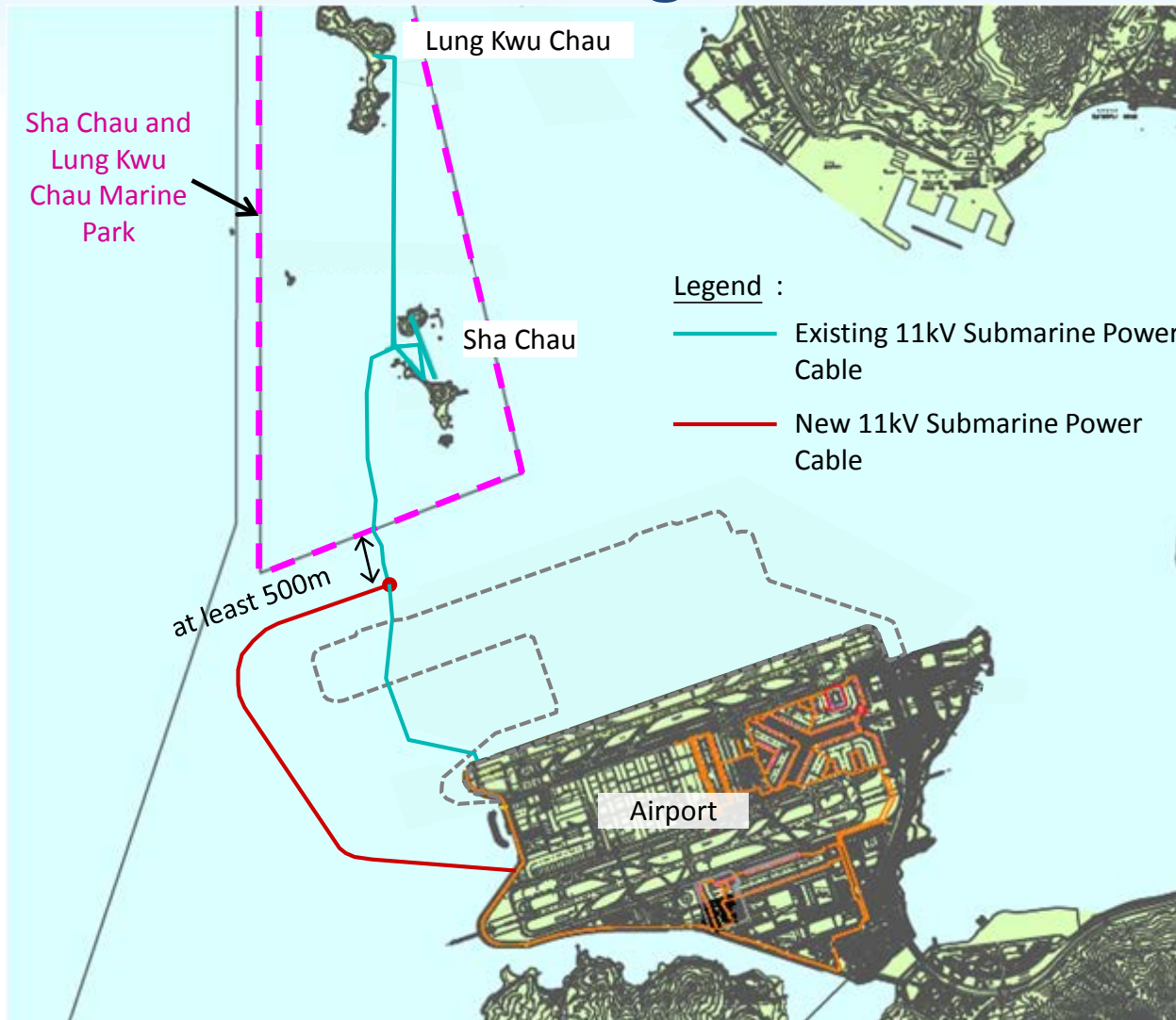


BEFORE Diversion

AFTER Diversion



Diversion of existing 11kV Submarine Power Cable



BEFORE Diversion

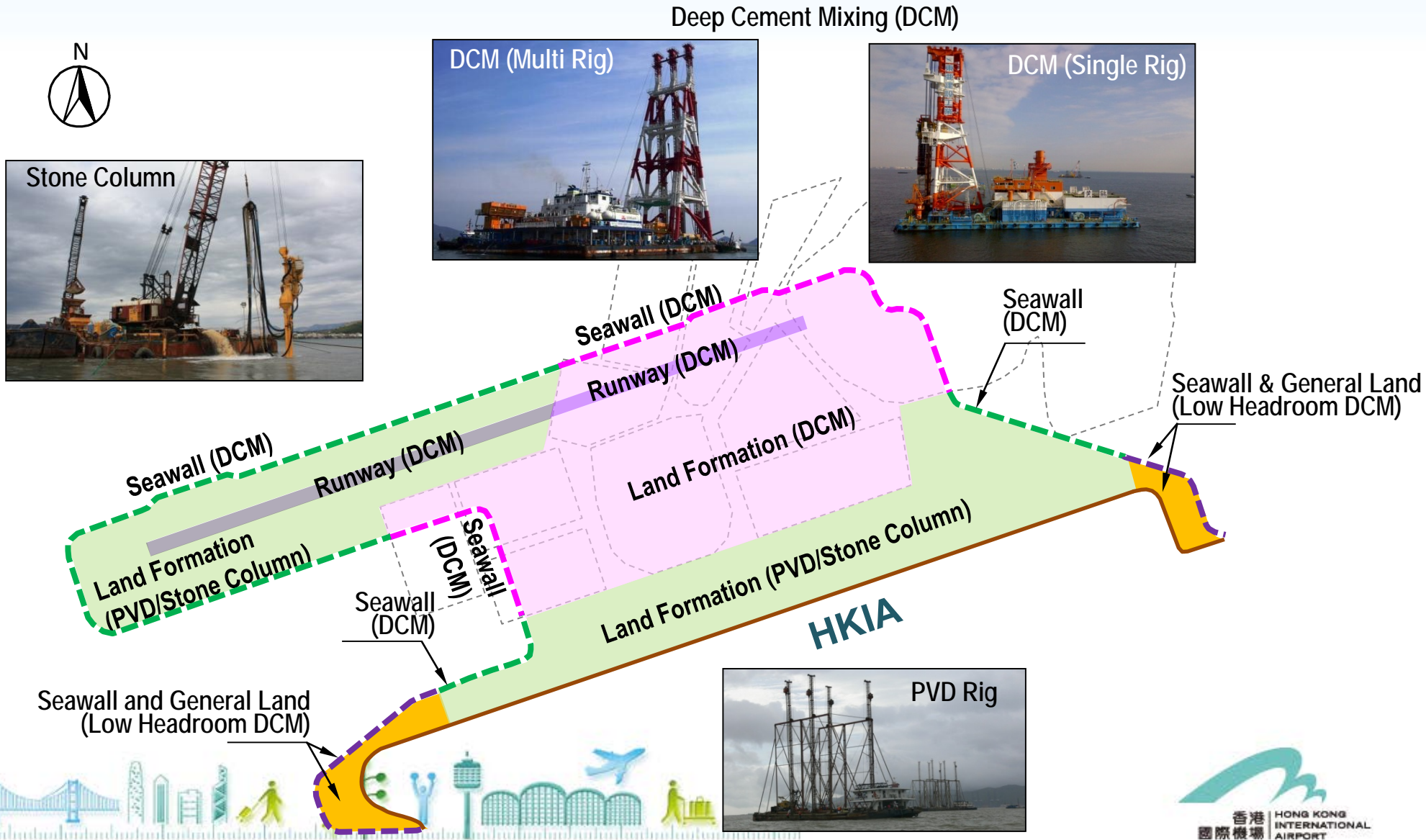
AFTER Diversion



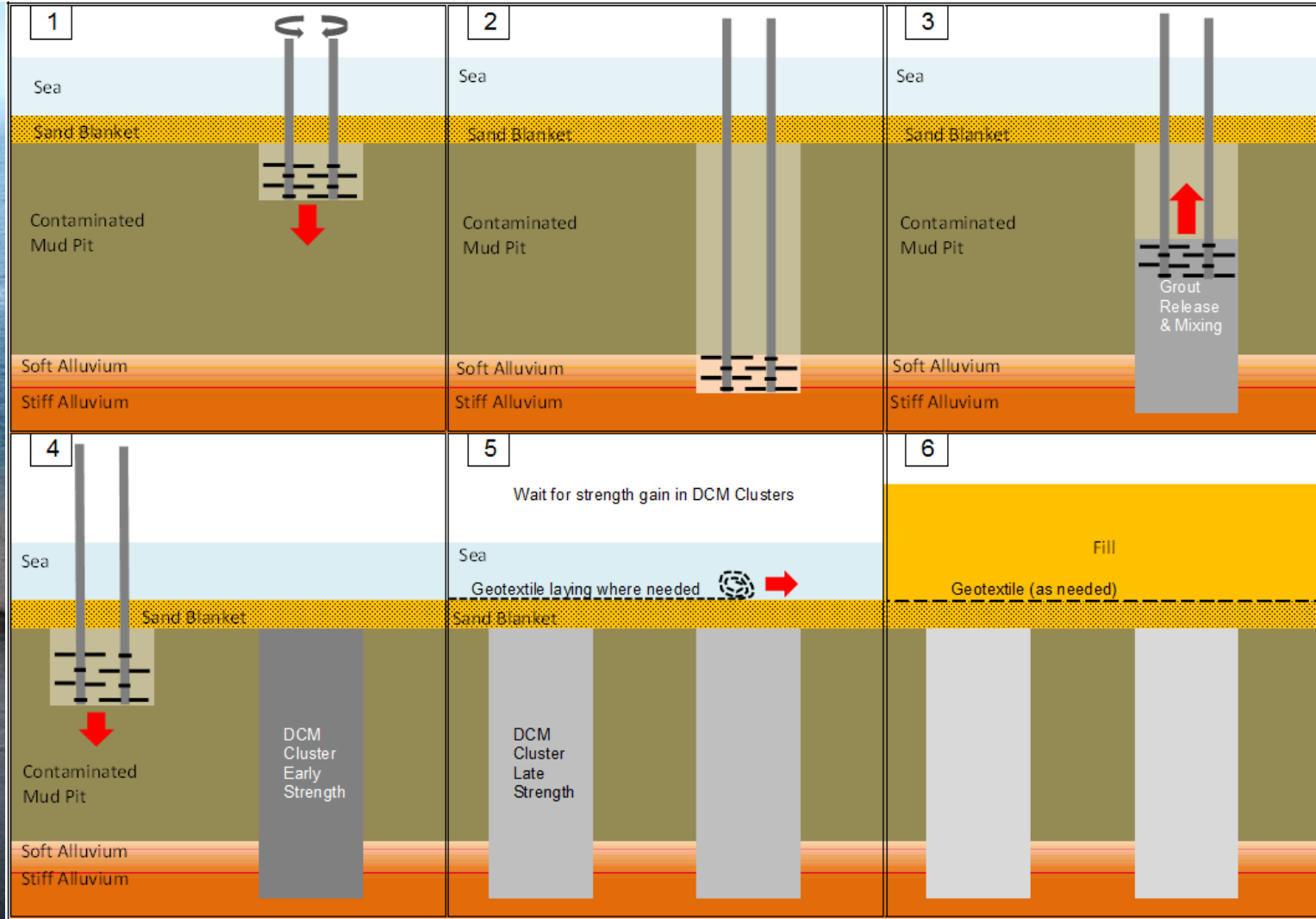
Progress Updates: Reclamation Works



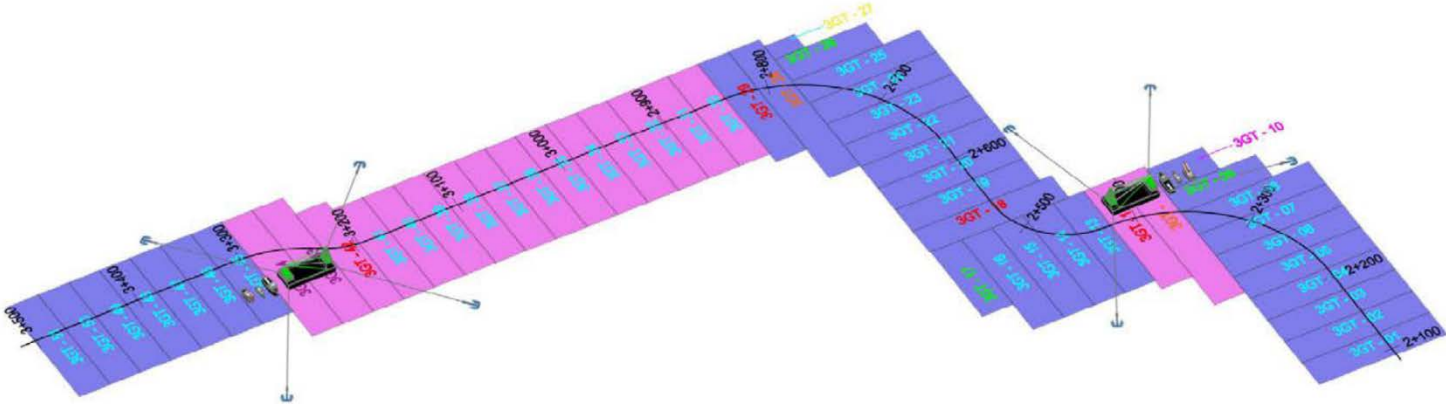
Reclamation commenced on 1 August 2016



Overview of DCM Process



Geotextile Laying



Sand Blanket Laying



Assembling of DCM Barges

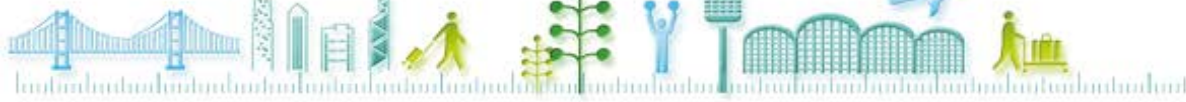
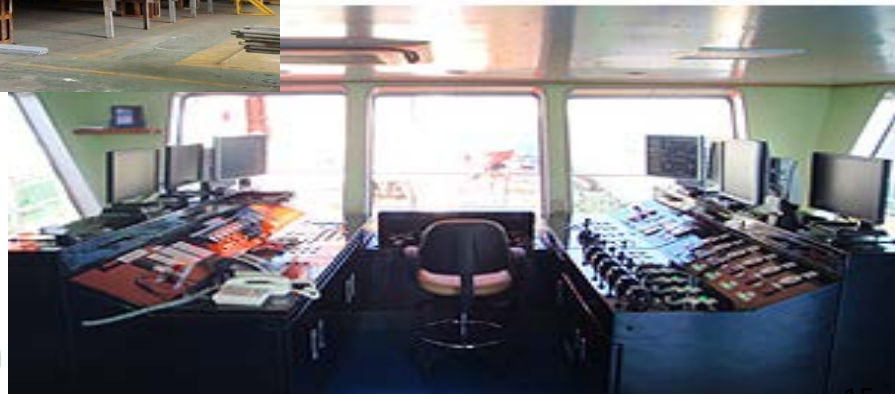


Legend :

- DCM Barge Assembly
- DCM Low Headroom Plant



Assembling at various shipyards



1st DCM Barge in Hong Kong



2nd and 3rd DCM Barges in Hong Kong



4th DCM Barge in Hong Kong



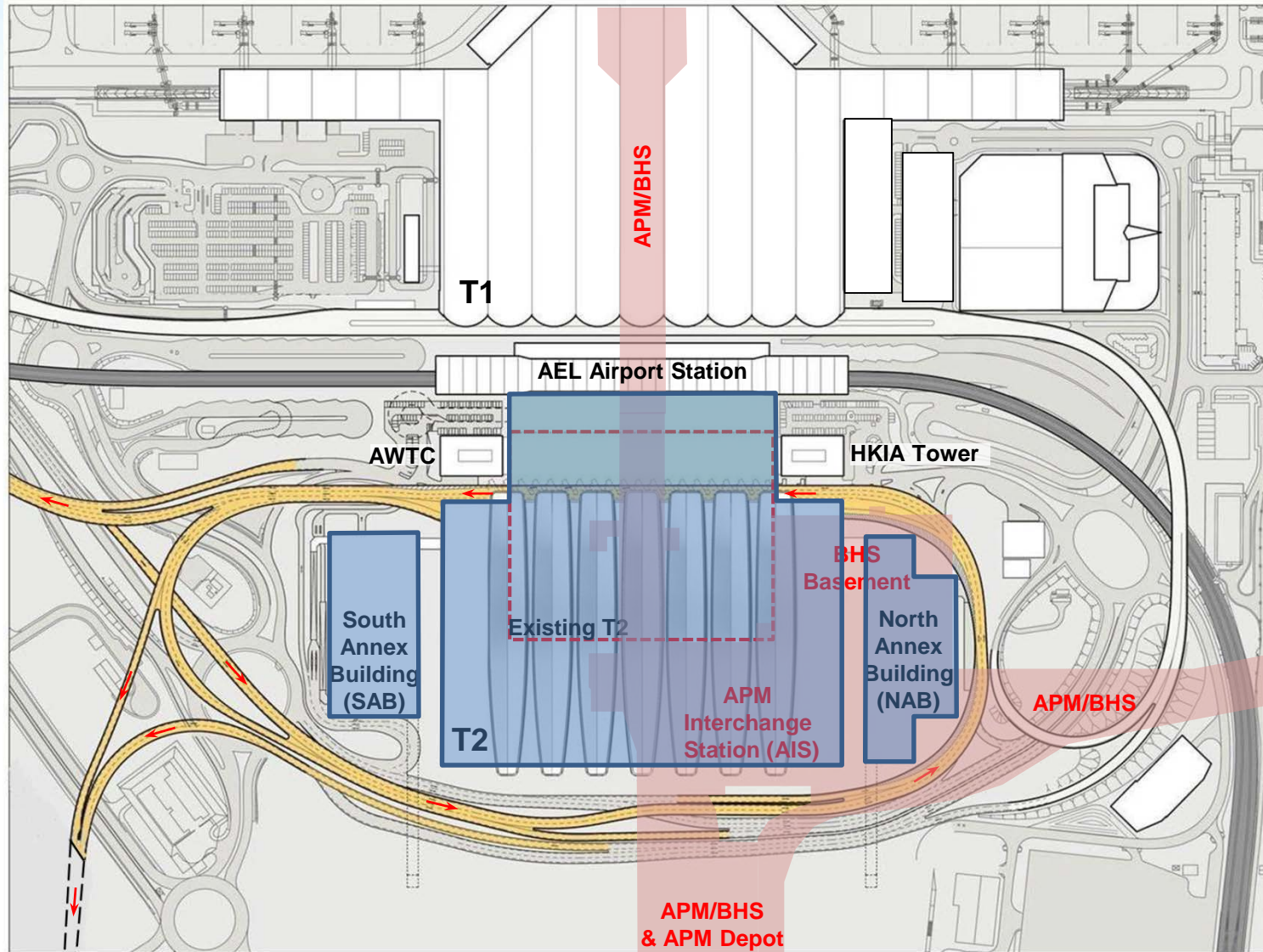
Progress Updates: Expansion of Terminal 2



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Expansion of Terminal 2



- Expanded T2 Floor Area: $\sim 300,000\text{m}^2$
(Existing T2 Floor Area: $\sim 140,000\text{m}^2$)
- North & South Annex Buildings: $\sim 100,000\text{m}^2$
- Check-in Counters: 216
- Baggage Reclaim Carousels: 8

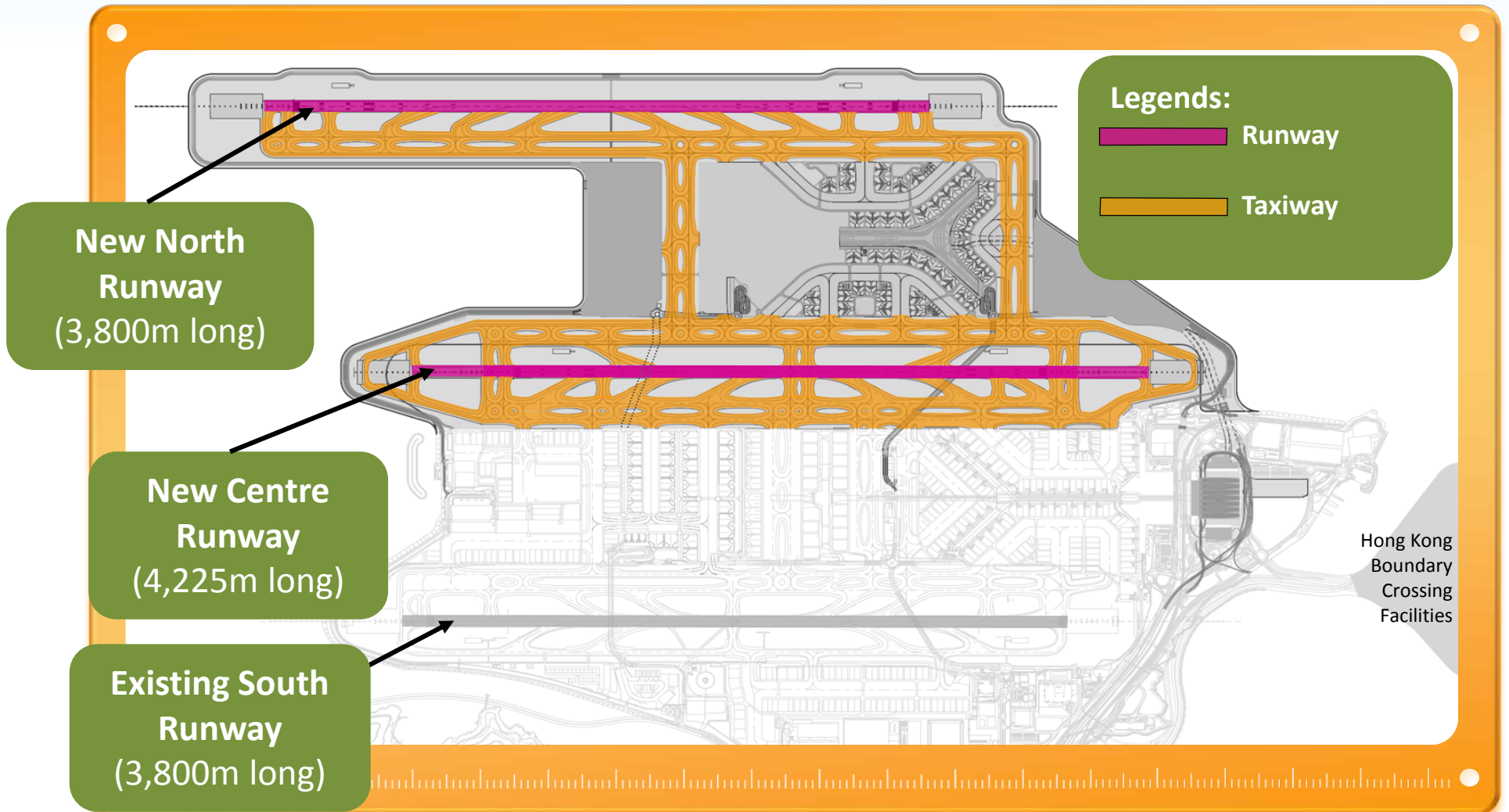
Expansion of Terminal 2



Runway & Third Runway Passenger Building



Runways and Taxiways Configuration



Third Runway Passenger Building



- Floor Area: ~283,000m²
- Total Aircraft Parking Positions: 57

Code F – 14
Code E – 23
Code C – 20



Third Runway Passenger Building – Departure Concourse



Third Runway Passenger Building – Commercial Node



Automated People Mover & High-speed Baggage Handling System



AAHK has finalized all EP submissions required prior to commencement of the 3RS construction works

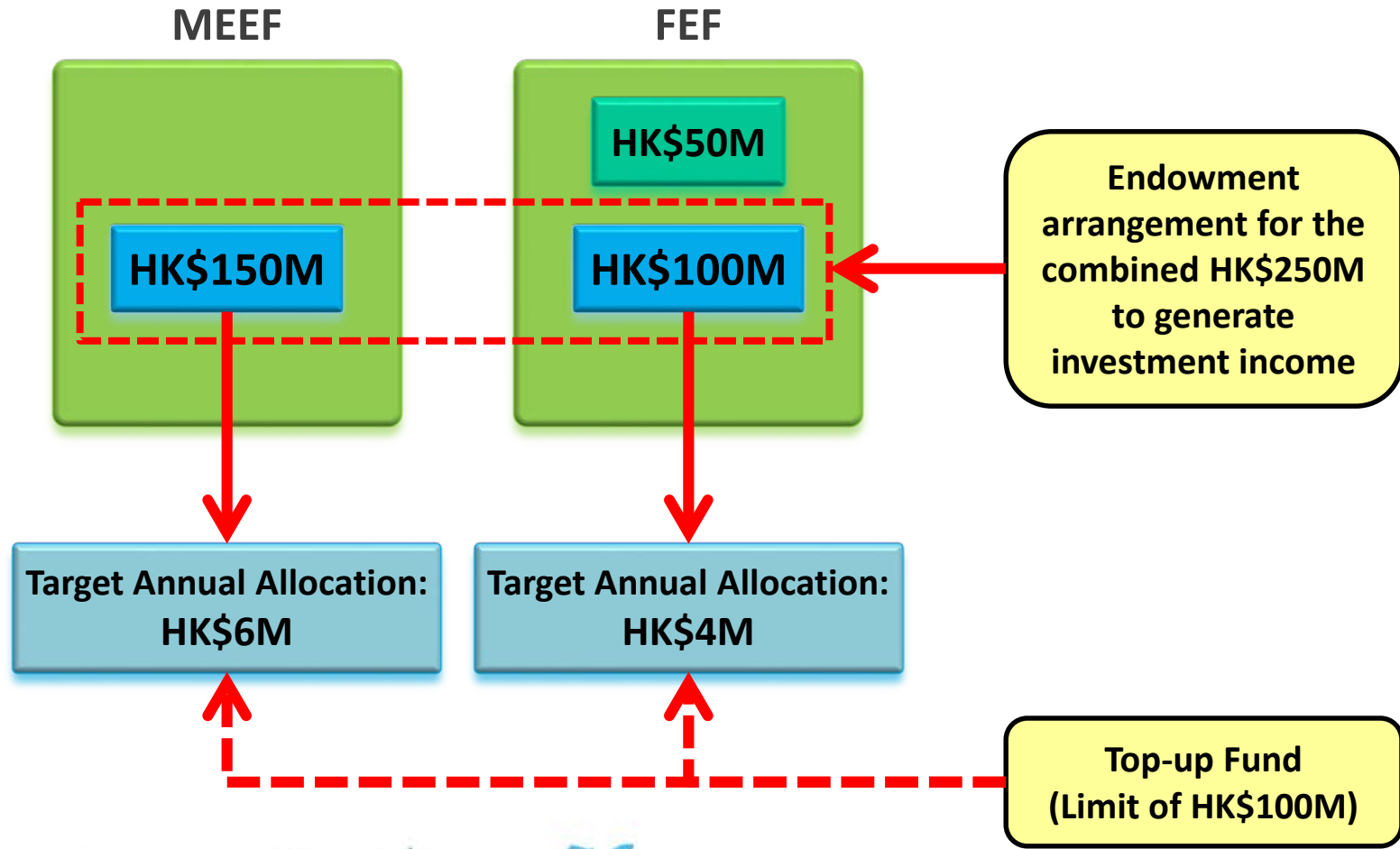
- **All 14 EP submissions were finalized before commencement of the 3RS construction, amongst which include:**
 - Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier
 - Marine Park Proposal
 - Establishment of Marine Ecology Enhancement Fund and Marine Ecology Conversation Plan
 - Establishment of Fisheries Enhancement Fund and Fisheries Management Plan



Progress Updates:
Marine Ecology Enhancement
Fund and Fisheries Enhancement
Fund



Funding arrangement for Marine Ecology Enhancement Fund (MEEF) and Fisheries Enhancement Fund (FEF)



Timeline for the MEEF and FEF



Dedicated engagement platforms: Community Liaison Groups and Professional Liaison Groups

Community Liaison Groups



Islands



Kwai Tsing



Sha Tin



Tuen Mun



Tsuen Wan

- **Two** rounds of meetings held in April and August 2016.

Professional Liaison Groups



Air Quality



Noise



Ecology
(Terrestrial and Marine Ecology,
including Chinese White Dolphins)



Fisheries



Health Impact Assessment
(Air Emissions and Aircraft Noise)



Hazards to Human Life



Water Quality



Sewerage and
Sewage Treatment



Waste Management



Land Contamination



Landscape and Visual



Cultural Heritage

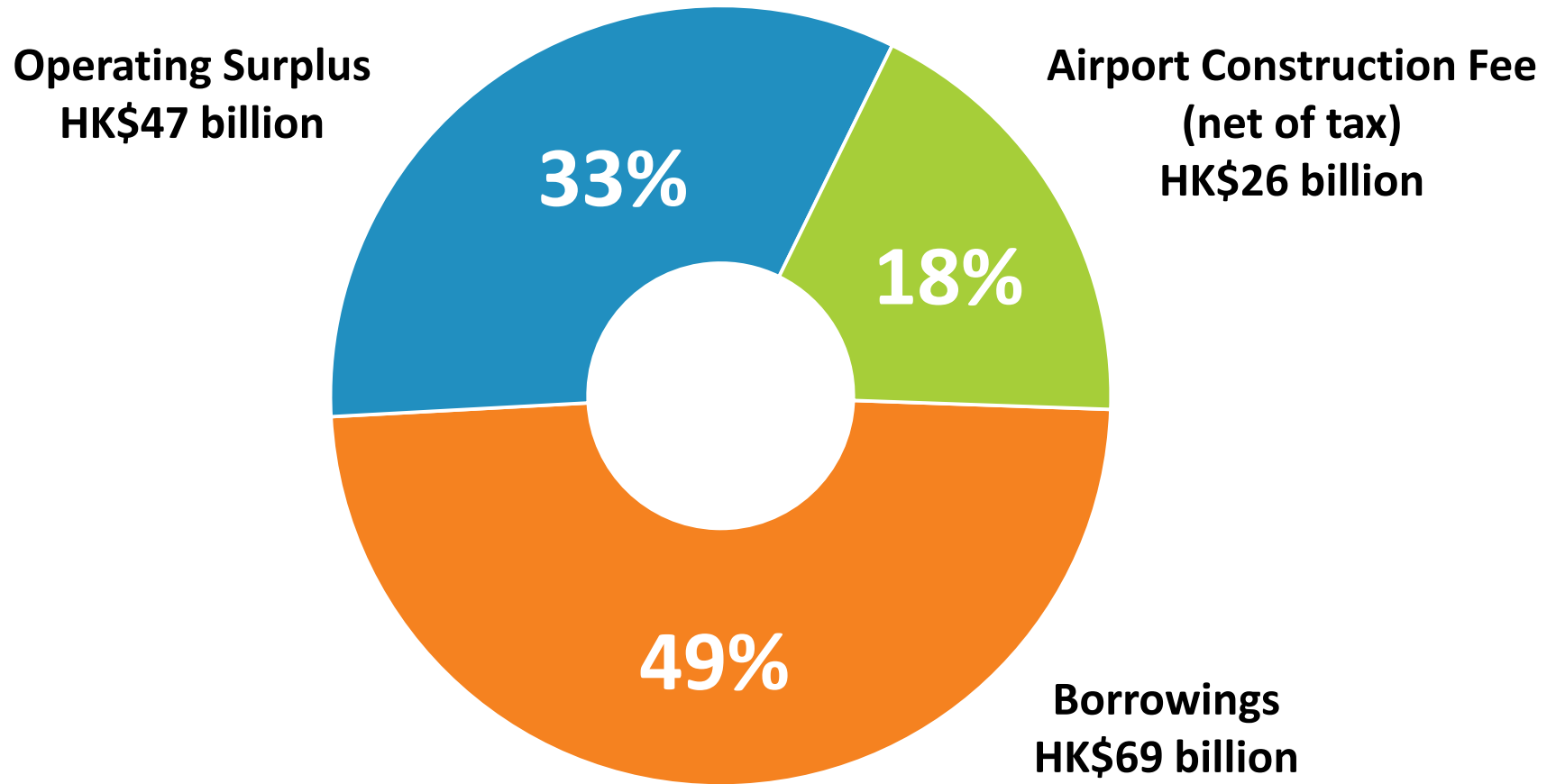
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Financial Arrangement



How do we fund the 3RS?



Notes :

- (1) The numbers above are estimated figures and subject to rounding.
- (2) The operating surplus has incorporated revenue from Airport Charges

Financial Arrangement Proposal

Airport Construction Fee

- Began collecting the ACF on 1 August 2016.

Airport Charges

- Implemented the increase in landing and parking charges on 1 September 2016.

Detailed Debt and Bank Financing Plan for the 3RS Project

- Commission a consultancy study to analyze and identify different debt structures, financial instruments, including retail bonds etc.
- Expected to be completed by mid-2017.



3RS Construction Programme

1 Aug 2016

End 2022

End 2024



Commencement
of works

Commissioning of
the new North
Runway and
closure of existing
North Runway

3RS Project
completion
and
commissioning



THANK YOU

