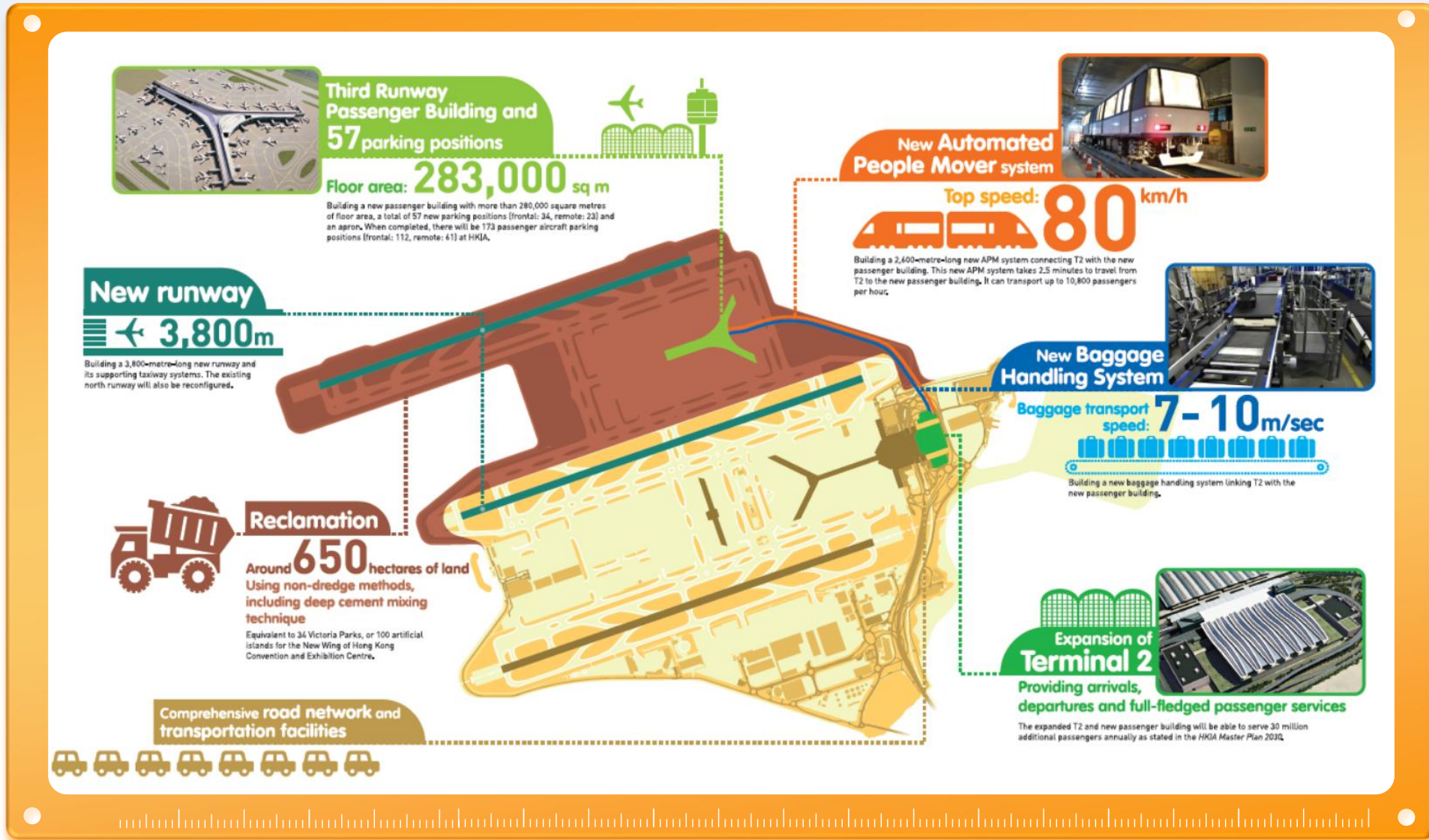


**Legislative Council Panel on Economic Development**

**Update on the Development of the  
Three-Runway System at  
Hong Kong International Airport**

**Airport Authority Hong Kong  
22 June 2020**

# 3RS Construction commenced on 1 August 2016



# Reclamation Progress

**Sloping Seawall**



**Vertical Seawall**



Work	% Completion (as at end May 2020)
Deep Cement Mixing Marine	97%
Land-based	19%
Seawall (up to +2.5mPD)*	83%
Reclamation Filling	69%

Note: \* Seawall completion excludes armour rock.

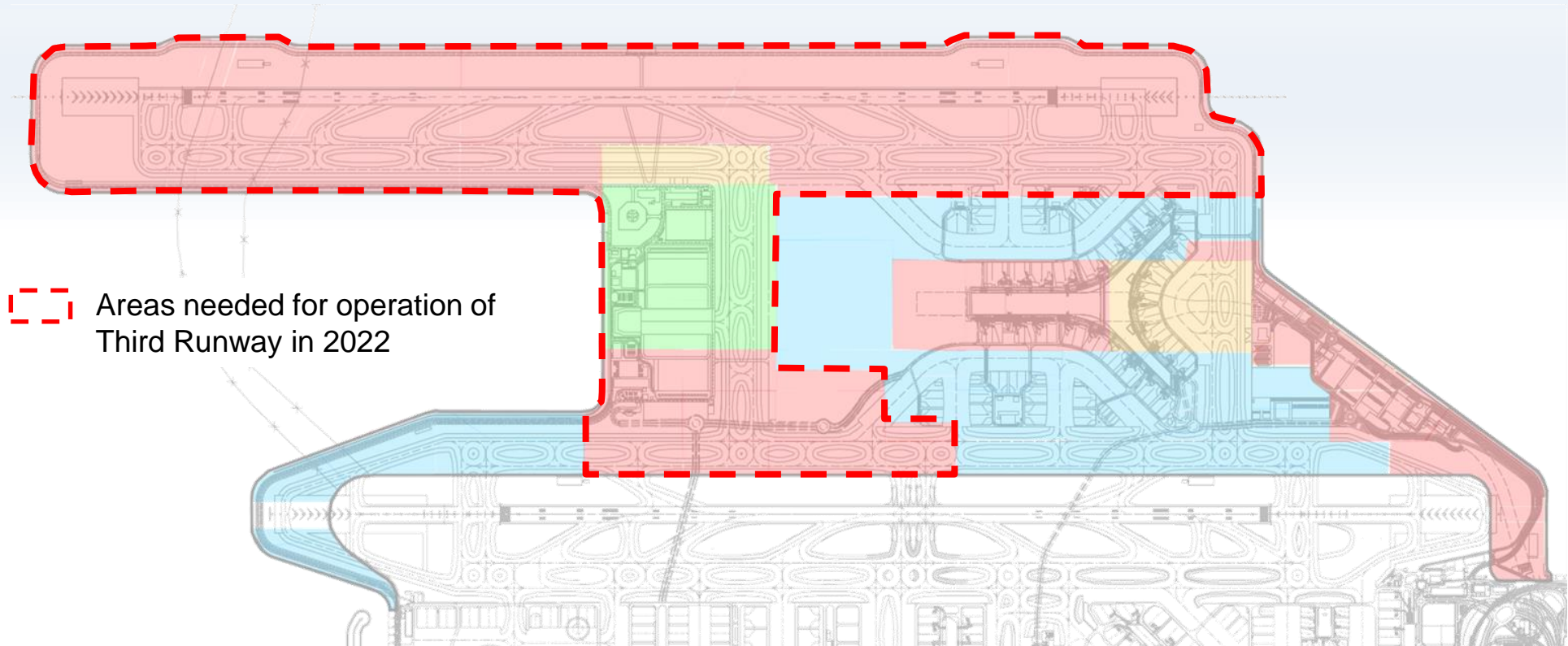
**Land-based DCM Work**




**Reclamation Filling**



# Updated 3RS Reclamation Phasing Plan (as at May 2020)



 Areas needed for operation of Third Runway in 2022

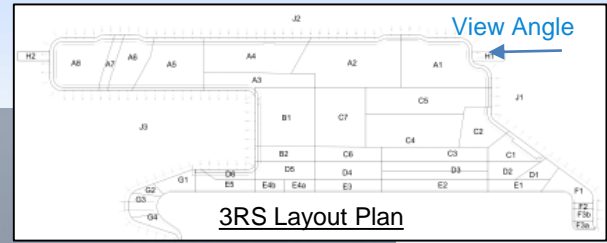
## Target Completion Time of Reclamation

-  2019
-  Early 2020
-  Q2 to Q4 2020
-  2021 / 2022

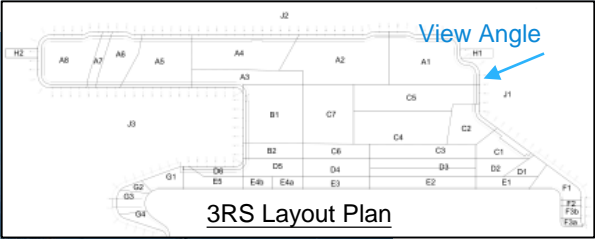
## Progress Status

- Completed
- Completed
- Being handed over for follow-on works in phases
- In progress

# Reclamation in Progress on the new North Runway



# TRPB Foundation and Sub-structure Works commenced

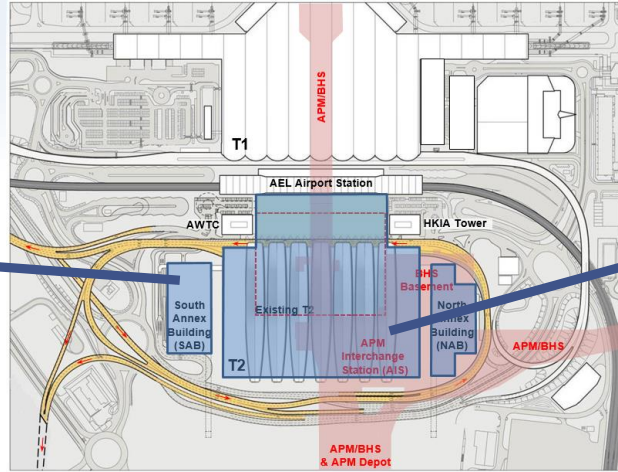


# Structural Work in Progress on Key Buildings in West Support Area



# Terminal 2 Expansion

## South Annex Building



## T2 Expansion Advance Works



## Tunnel works under AEL

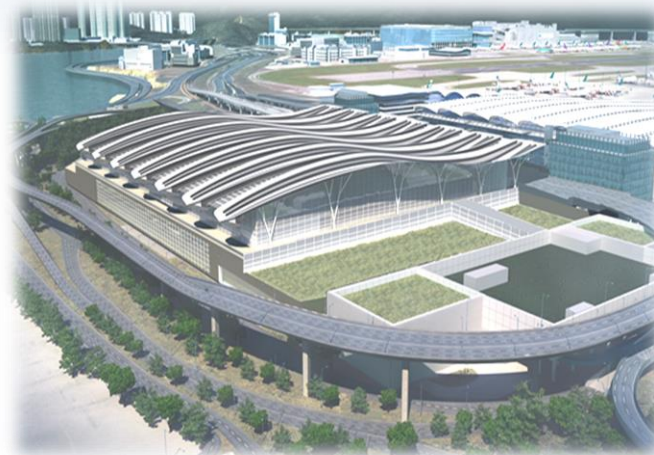


## Infrastructure works





# Green Design and Sustainable Construction



**Aviation Fuel Pipelines by HDD:**  
**Merit Award** under Organisation Category in CIC Sustainable Construction Award (2018)  
**Excellent and Outstanding awards** under Industry Practitioners Category in CIC Sustainable Construction Award (2018)

**T2 Expansion:**  
**Platinum** rating under BEAM Plus Provisional Assessment (2020)

**Third Runway and Associated Works:**  
**Excellent** rating under CEEQUAL's Sustainability Performance Assessment for Interim Client and Design Award (2020)

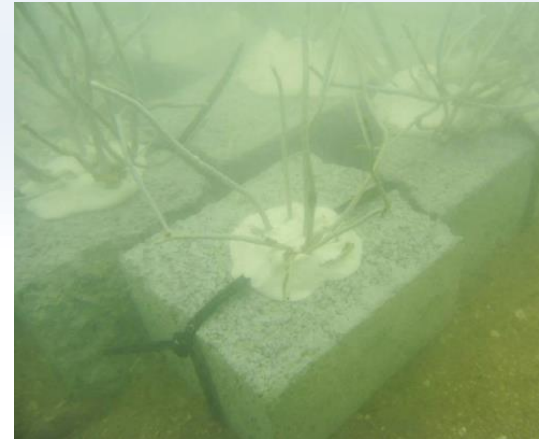
# Marine Ecology & Fisheries Enhancement



## Eco-enhancement seawall design:

>500 eco-enhancement seawall blocks to promote colonisation by epifauna

Installed the first batch on eastern and northern vertical seawalls (2019)



## First large-scale coral transplantation in HK:

Transplanted >500 whole coral colonies (May 2018)

Completed 16 months post-monitoring with <10% mortality rate

## Fish restocking pilot test:

Released >8000 black seabream, yellowfin seabream and green grouper fingerlings (May & Sept 2019)

Tagged fishes recorded around North Lantau by acoustic telemetry a few months after release



## Artificial Reef (AR) deployment pilot test:

Design, build, and deploy contract to award in Q2/Q3 2020

AR to deploy at western HKIAAA in late 2020 / early 2021



# 3RS Environmental Funds

## Marine Ecology Enhancement Fund and Fisheries Enhancement Fund

Total Capital: HK\$400M by AAHK in late 2016

Projects Supported: 23 projects and over HK\$30M granted since 2017



*Conservation Ecology of Chinese White Dolphins across Pearl River Estuary*



*Impact of Microplastics on Chinese Horseshoe Crab in HK Western Waters*



*Pearl Farming Pilot Project*

*Sustainable Aquaculture Development Pilot Project - Australian Red-claw Crayfish*



# Reclamation Progress (6 May 2020)

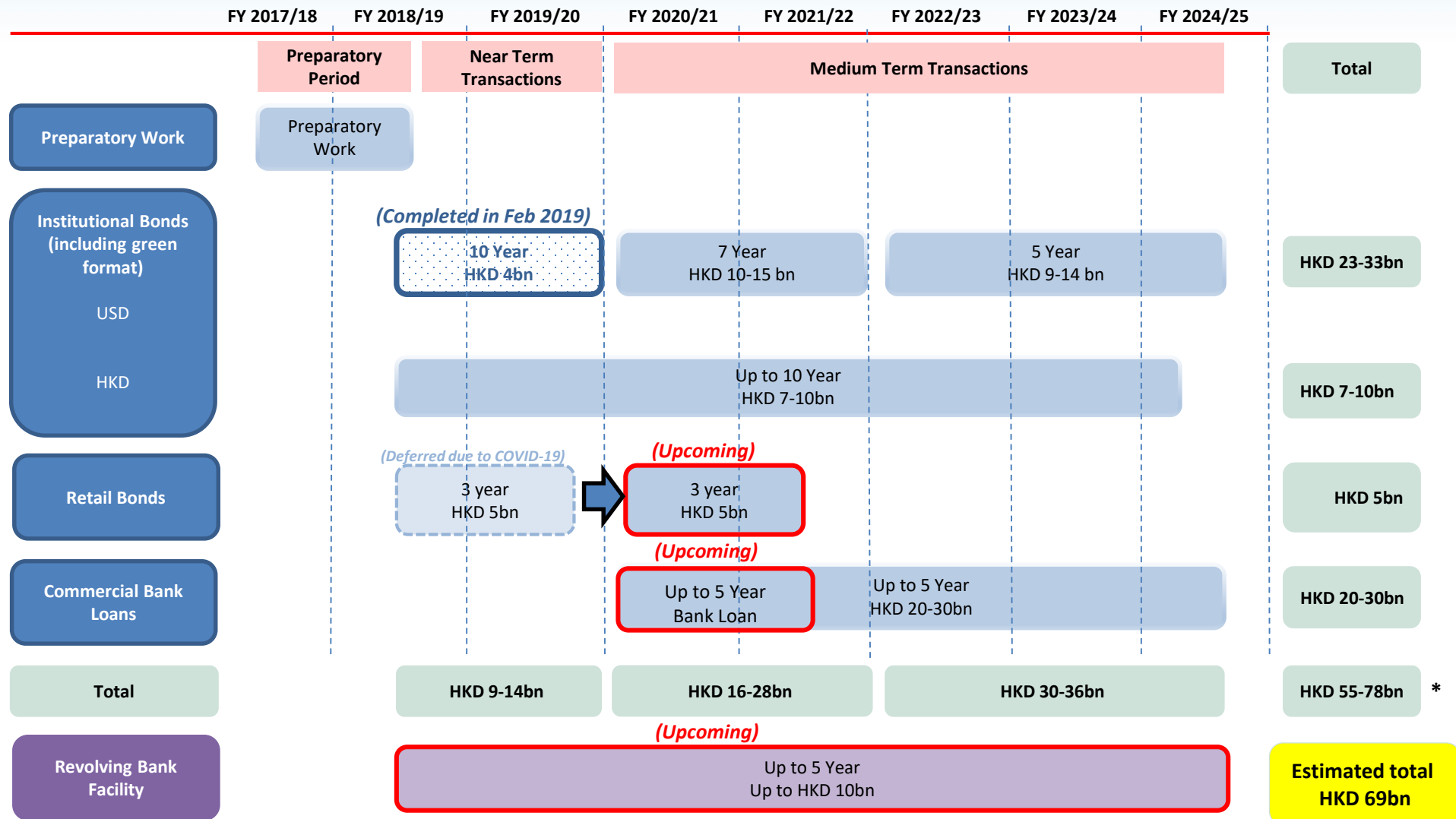


# Financial Arrangement Plan

## Financings in 2020/21

- 3-year HKD5 billion fixed-coupon retail bond
  - Deferred from 2019/20 due to COVID-19 outbreak
- Arranging 5-year HKD20 billion term loan and revolving credit facilities. May upsize the facilities subject to market responses
- Final details and the timing of the execution of the financings depend on AAHK's funding needs, 3RS project progress, and the market environment

# Detailed funding plan and indicative implementation timeline



Sources: AAHK, 3RS Consultancy Study: Detailed Funding Plan for Three-runway System (3RS) at HKIA – Financial Advisor Report, HSBC (2017), with updates of retail bond timing.

\* HKD 55 – 78 billion represents the summation of the lowest and highest range of each debt instrument type.

## Medium Term Transactions

- Prepare Green Framework for tapping Green Financing when time is right
- AAHK is maintaining the 3RS financial arrangement plan for the time being, but will continue to monitor the operating environment and market conditions in 2020/21 and stay vigilant



**Thank You**

