



Expansion of Hong Kong International Airport into a Three-Runway System

16th Professional Liaison Group Meeting

26 May 2026

Agenda

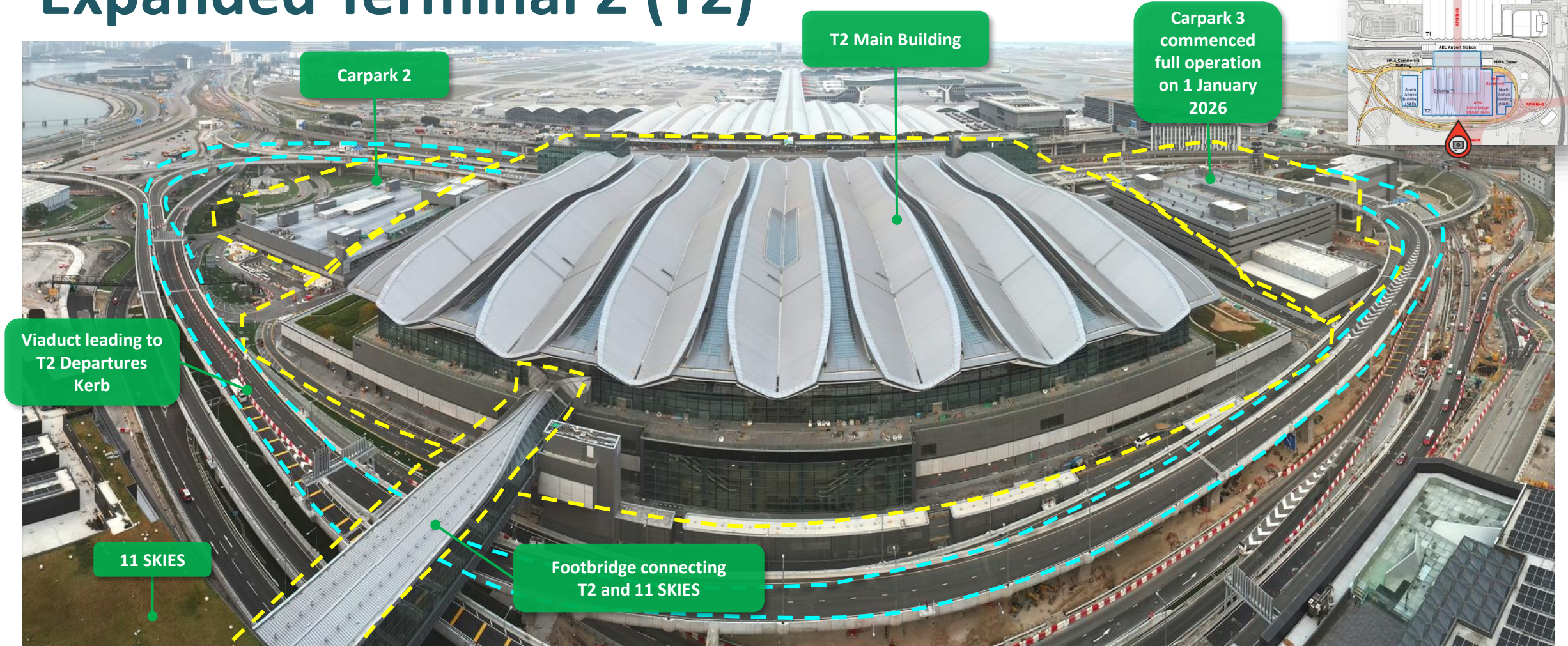
1. Update on 3RS Project and Other Airport Development
2. 3RS EM&A Updates
3. Marine Ecology and Fisheries Enhancement Strategy
4. Waste Management
5. Weather Preparedness



Update on 3RS Project & Other Airport Development



Expanded Terminal 2 (T2)



(Photo: Apr 2026)

- Commissioning of the T2 departures mode operation on 27 May 2026.

Readiness for Commissioning of T2 Departures Mode Operation

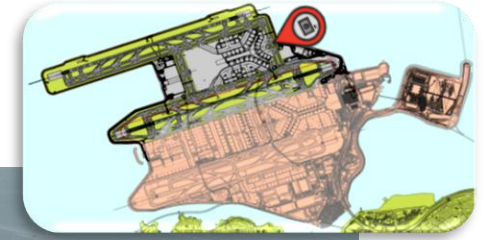


Level 7 Departures Hall Check-in Area



Level 7 Departures Hall Self-bag-drop Counters

Terminal 2 Concourse (T2C)



(Photo: Apr 2026)

- Works progress with statutory inspections on fire service installations target to commence in late Q2 2026.

Positioning of the Water Recreation and Yacht Bay Development



Develop a World-leading **Airport City** and the Yacht Economy under the 2024 and 2025 Policy Addresses



Strengthen Hong Kong International Airport's status as an **international aviation hub**



Inject vibrancy into coastal tourism advocated in **14th Five-Year Plan** and **GBA ODP** and Lantau Tourism



Enhance **sense of wellbeing of the community** outlined in **15th Five-Year Plan** through diversified yachting and water recreation



Address **local berth demand** and synergise with planned marina developments



Enriching offerings of recreation and leisure activities in Lantau and Hong Kong for all user types



Current Condition

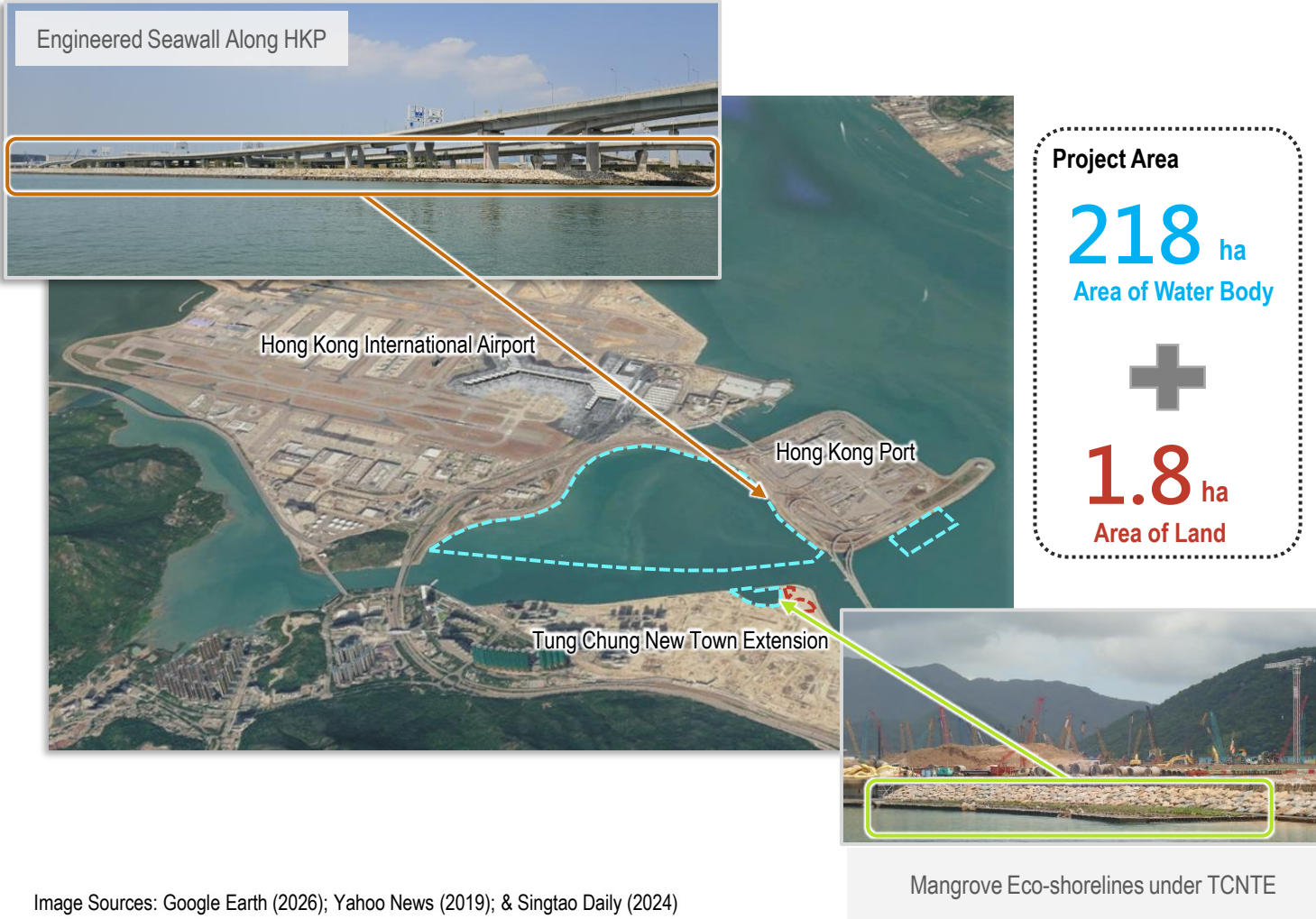


Image Sources: Google Earth (2026); Yahoo News (2019); & Singtao Daily (2024)

Higher likelihood of **uncontrolled yacht berthing and mooring activities**, and **unexpected environmental disturbance**

Water recreational activities may be carried out in areas **without adequate environmental consideration in long term**



Utilises vast sea area to deliver broader community and economic benefits

- Supports water-based recreational activities for different user groups and people of all ages
- Generate employment opportunities and value-added growth across local industries
- Stimulate marine leisure and coastal tourism in GBA yacht economy

Early identification and prevention of environmental issues with Environmental Management Plans for Marina and Water Park

Highlights of the Project



Cable Wake Park and Inflatable Park



Water Park



Area for Motorised Water Sports Activities

HKP South Berthing Facility
(Max. No. of Berths : 495)

Water Recreation Area



TCE Marina
(Max. No. of Berths : 51)

Dry Dock Storage and Berth Maintenance

Marina Club and Commercial Use with Ancillary Car Park

HKP East Mooring Space
(Max. No. of Berths : 27)

Major Construction Activities



- Rubble-mound breakwater at HKP South
- Vertical breakwater at TCE Marina
- Dredging works (~1.4Mm³)
- Shoreside Connection (with piled foundation)
- Floating pontoons and platforms (with piled foundation)
- Piled deck structures

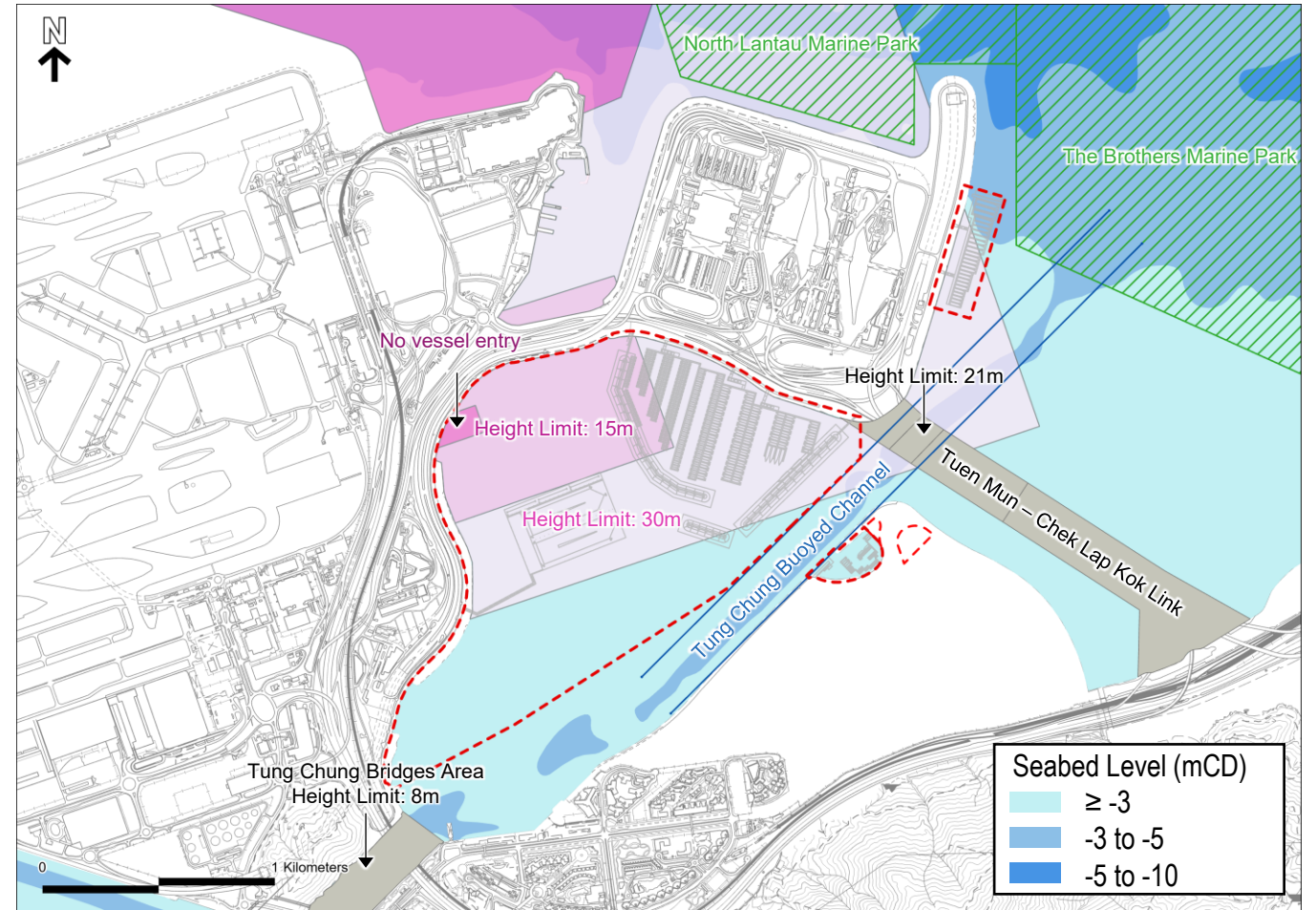
Key Design & Site Selection Rationale

Primary Constraints Considered:

- **Marine parks** (The Brothers & North Lantau)
- **Navigational safety** (Tung Chung Buoyed Channel and HKIA approach areas)
- **Water depth and dredging minimisation**
- **Airport height restrictions and constrained areas**
- **Clearance of marine viaducts** of Tung Chung Bridges and Tuen Mun – Chek Lap Kok Link

Design Philosophy:

- **Avoid marine parks**
- **Use piled deck structures and floating facilities** to minimise seabed loss
- Optimise berth mix and layout based on **Marine Traffic Impact Assessment and Formal Safety Assessment principles**



Selected sites represent the lowest practicable environmental and navigational risk ✓

Environmental Benefits and Achievements

Promotes sustainable and responsible operation for the Marina and Water Park

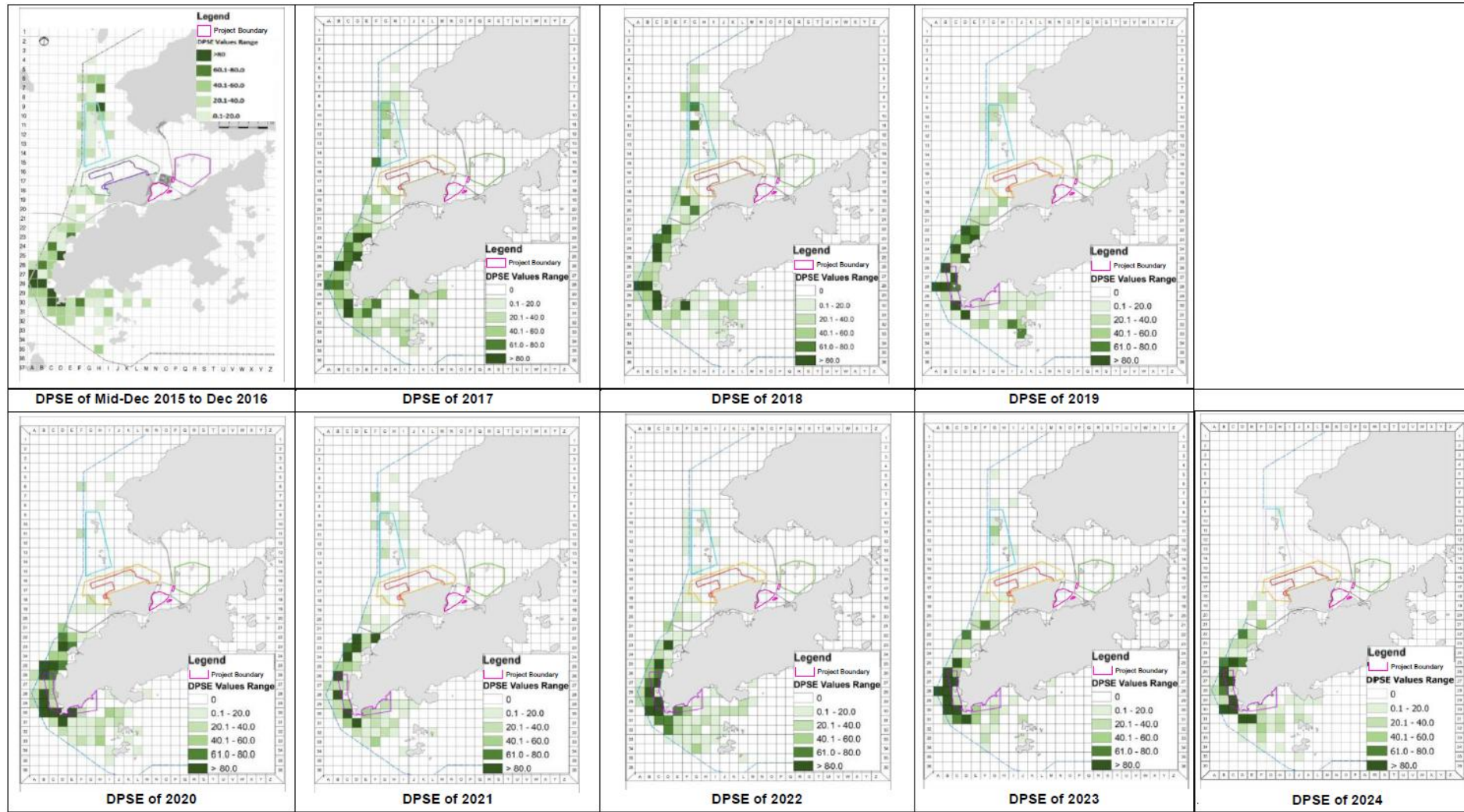
Enhances local marine biodiversity through eco-shorelines and ecological enhancement measures

Establishes a recreation network to support environmental appreciation and community well-being

Integrates with TCNTE planning to minimise environmental impacts

Avoided Key Habitats of Chinese White Dolphin

- CWDs mainly distributed in W & SW waters of HK (e.g. Tai O & Southwest Lantau Marine Park)



Mott MacDonald (2025) Expansion of Hong Kong International Airport into a Three-Runway System Construction Phase Annual EM&A Report No. 9

Project Boundary

Avoided Key Habitats of Chinese White Dolphin

Six-month Passive Acoustic Monitoring (PAM) Survey

- Survey and monitor marine mammal using acoustic recorders

Mean Detection Positive Minutes (DPM) per Day

All round detection within 1 km radius

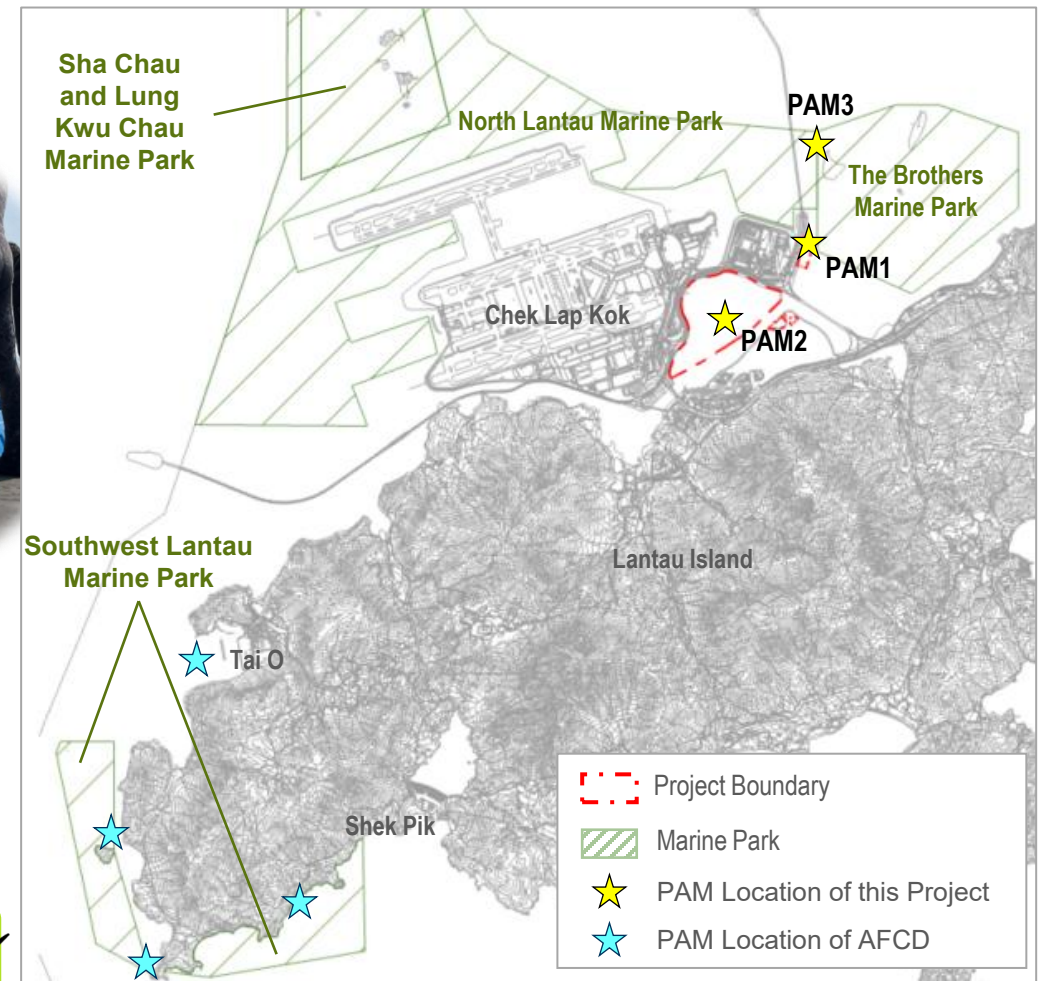


About 110 - 1600 times

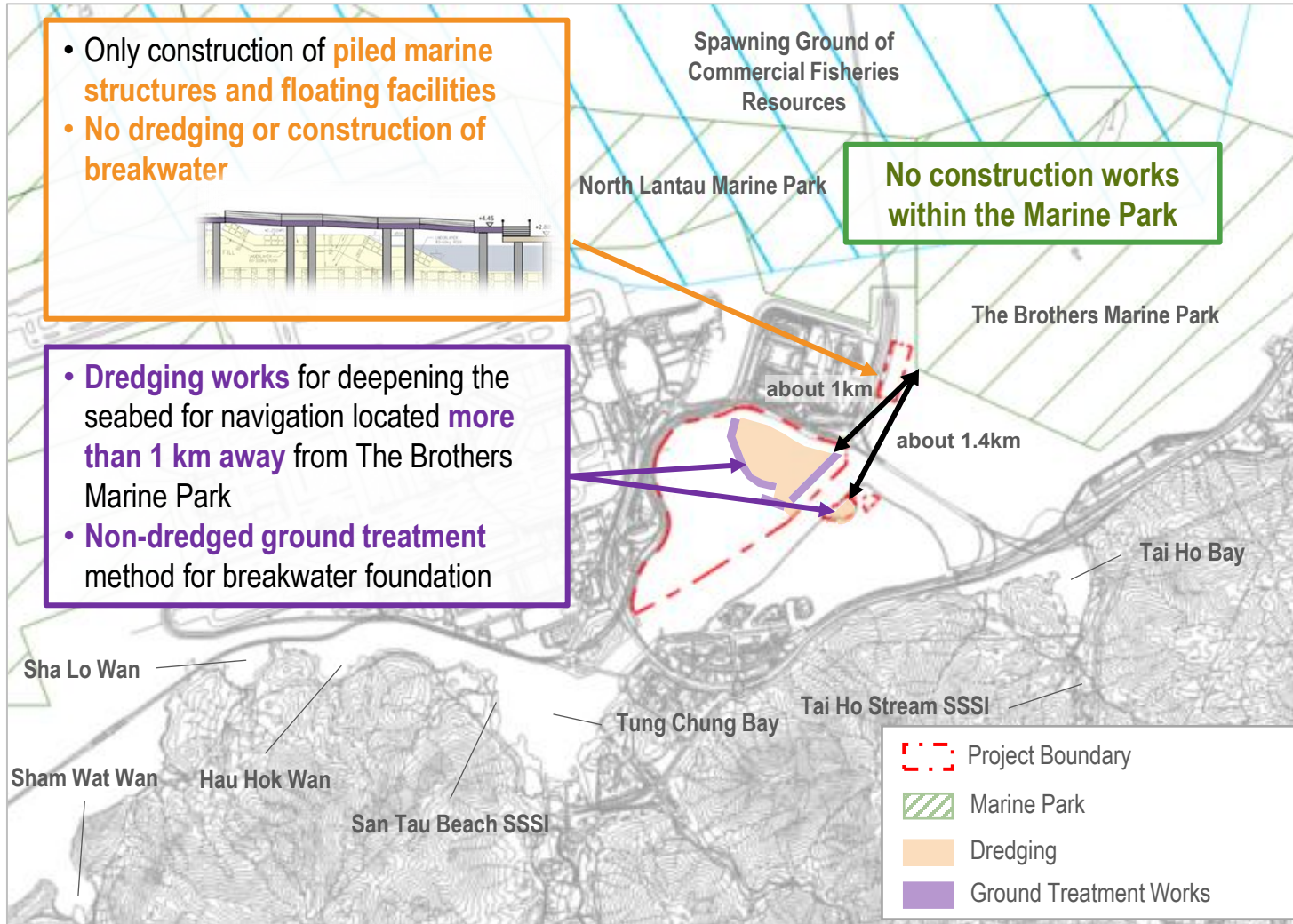


DPM at the Project Area is much lower than CWD key habitat at Tai O and Southwest Lantau Marine Park

Project Area is not a key habitat for CWD ✓



Key Design Measures for Construction Phase



Avoid **night-time** construction works



Adopt **non-percussive piling**



Adopt **non-dredged ground treatment methods** (i.e. Deep Cement Mixing or stone columns) for breakwater foundations



Minimise C&D materials generation by optimising project scale, site selection and construction methodologies



Adopt **prefabricated / pre-cast construction** components assembled on site after off-site fabrication

Key Design Measures for Operational Phase



Eco-shorelines as Enhancement Measure
Enrich marine biodiversity and support ecological functions



On-Shore Power Provision
Vessel connected to electricity when berth



Designated Area for Vessel Cleaning and Maintenance
At landside facility at TCE (i.e. Dry Dock Storage and Berth Maintenance)



Proper Collection and Handling of Sewage or Wastewater
No direct discharge to marine environment (e.g. provision of in-slip pump out system for wastewater from yacht)



Key Design Measures for Operational Phase – Eco-shoreline as Enhancement Measures

Eco-shoreline Elements for Consideration



Eco-enhanced concrete blocks

Increase surface complexity, & availability of microhabitats & provide shelter for intertidal and subtidal organisms



Oyster baskets / bags

Offer complex substrates for sessile organisms and support biofiltration by the colonised filter-feeder communities



Precast tidal pools

Provide refugia from desiccation & thermal stress to support the survival of invertebrates & fish

The possible options, locations and potential ecological benefits of the eco-shoreline elements will be further considered and reviewed during the detailed design stage.

Mangrove Eco-shorelines under TCNTE

Vertical Eco-shorelines under TCNTE

Proposed Eco-shorelines

Vertical Eco-shorelines under TCNTE

Key Mitigation Measures / Preventive Measures for Construction Phase

Water Quality

- **Deployment of silt curtains**
- **Controlled dredging rate and sand blanketing rate**
- **Preventive measures for protecting eco-shorelines at TCE Marina** (e.g. reduction in dredging rate and deployment of additional silt curtain)
- **Spillage response plan**

Marine Ecology

- **Marine mammal watching** by trained observers prior to daily marine works (works area enclosed by silt curtains)
- **Construction Vessel Management Plan** with regular routes and Automatic Identification System (AIS)
- **Speed restriction of 10 knots** within the Project area and marine parks for all construction vessels
- **Smart initiatives** (e.g. AI-powered cameras) to support marine mammal watching works

Marine Mammal Watching



Silt Curtain Deployment



Vessel Management & AIS



Spillage Response Plan



Key Management Measures for Operational Phase



Environmental Management Plan for Marina



Vessel Speed and Route Control

Smart monitoring initiatives to reduce impacts on marine parks



Compliance-Linked Booking System

Mandatory registration linking berthing priority with environmental compliance



No Vessel Cleaning / Maintenance and Wastewater Discharge within Marina



On-Shore Power Connection

Reduce emissions from berthed vessels



Code of Marine Mammal Encounters



Spill Prevention and Emergency Response Plan



Environmental Management Plan for Water Park



Boundary Demarcation and Speed Control

Demarcate Water Park boundary and vessel speed control with positioning devices



Prohibit Wastewater Discharge within Water Park



Operational Guidelines for Water Park

Management arrangements including additional preventive measures for Special Events during evening



Code of Marine Mammal Encounters

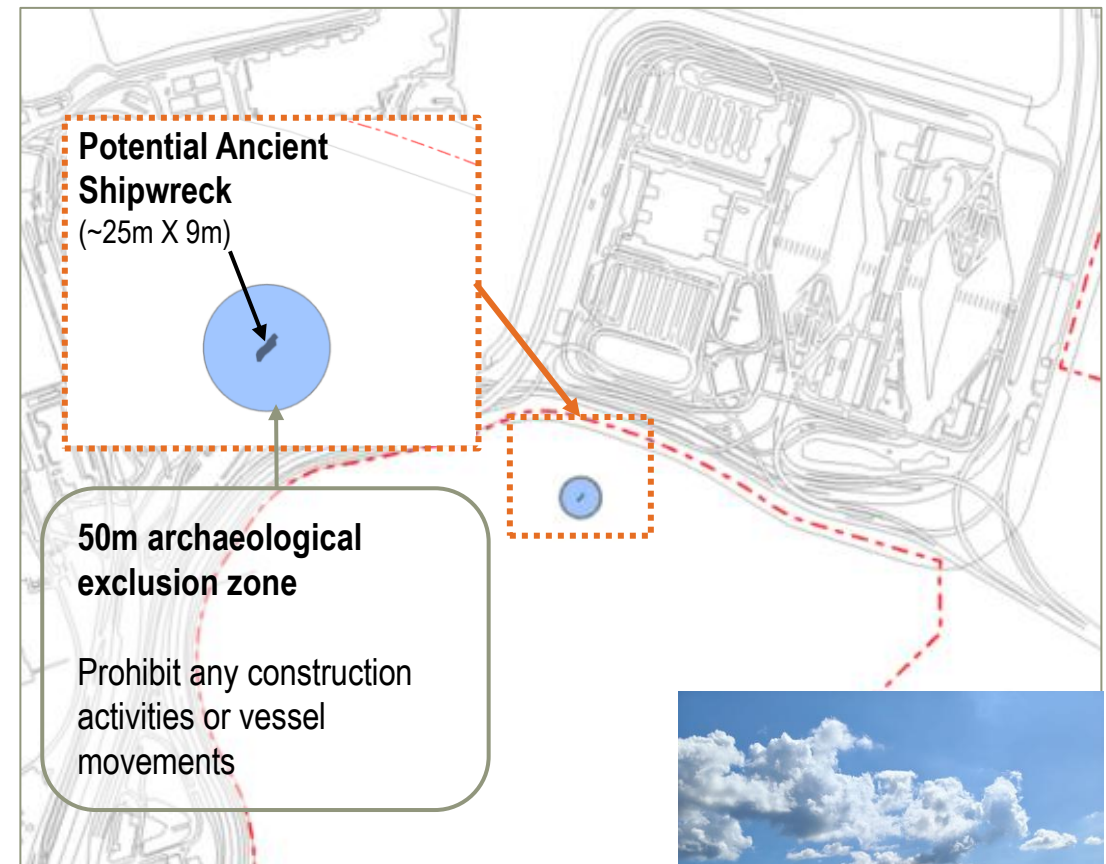


Promotion of Use of Biodegradable and Ocean-friendly Sunscreen

Cultural Heritage

Pre-construction Survey / Investigation

- **Potential ancient shipwreck** identified
- Establish 50m **archaeological exclusion zone**
- **Pre-construction survey / investigation** to be conducted prior to commencement of marine construction works at HKP South Berthing Facility
- **Cultural Heritage Mitigation Measures Plan** to be agreed with AMO



Environmentally Sensitive Areas Protected



Conclusion

- EIA concludes that **no adverse environmental impacts** are anticipated
- The EIA report is under **public inspection from 30 April 2026 to 29 May 2026**
- The EIA report is available on the **EPD's website** (<https://www.epd.gov.hk/eia/en/alpha/aspd.php?id=940>)
- Meetings with the **Advisory Council on the Environment (ACE)** after the public inspection period

Environmental Compliance ✓

	Marine Ecology		Air Quality
	Noise		Water Quality
	Waste Management		Fisheries
	Cultural Heritage		Visual



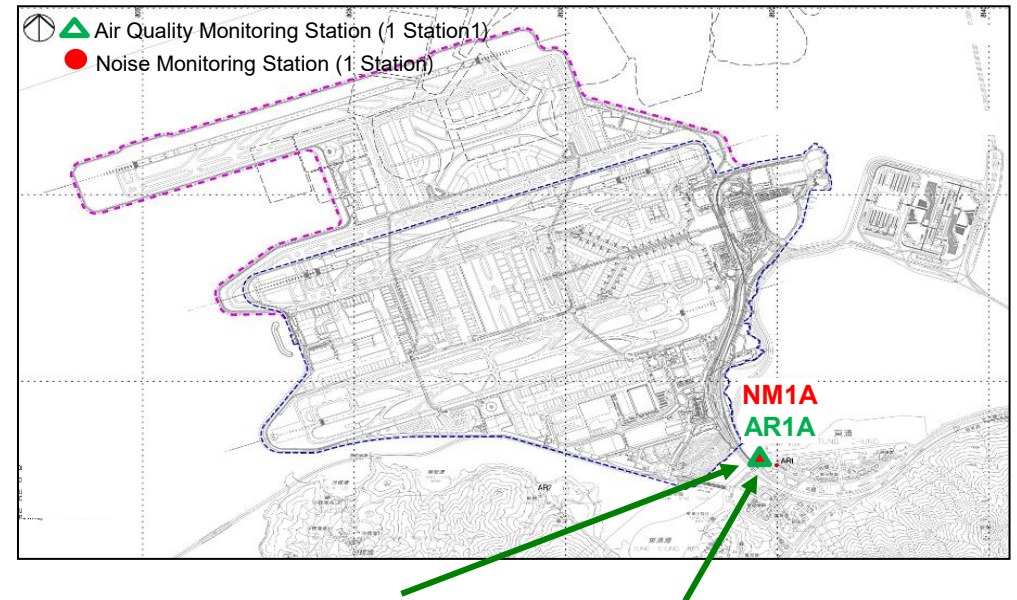
3RS EM&A Updates



EM&A Monitoring – Air Quality & Noise

Feb to Apr 2026

- **No exceedance** of project-related Action / Limit Level was recorded
- Following full commissioning of the 3RS and the reduction in active construction works, construction-phase monitoring from 1 Jan 2026 was limited to stations AR1A (air quality) and NM1A (noise)



	Feb to Apr 2026
Air Quality Monitoring (1 station)	48 events
Noise Monitoring (1 station)	13 events



Noise Monitoring Station NM1A



Air Quality Monitoring Station AR1A

EM&A Implementation

Air Quality Mitigation

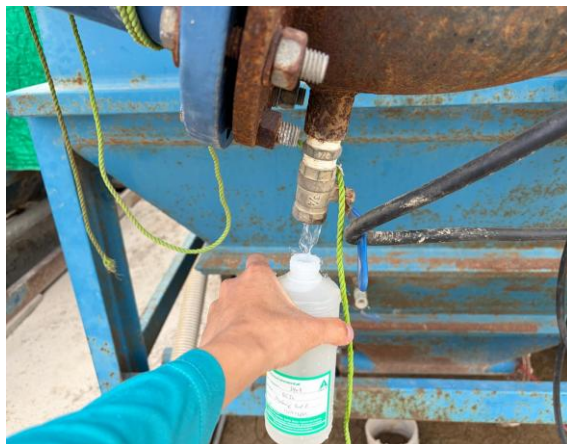


Regular water spraying on main haul roads to minimise fugitive dust emissions



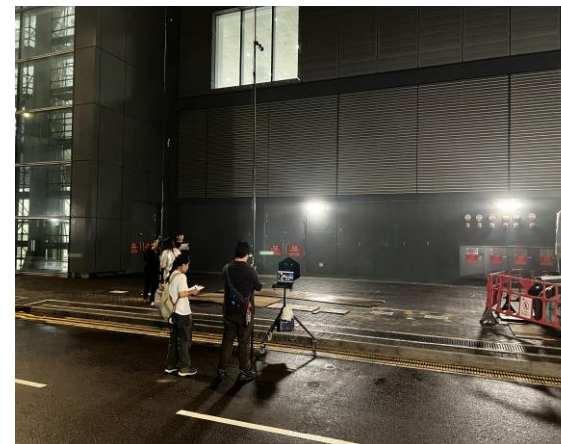
Water spraying during breaking activities to minimise dust emissions

Water Quality Mitigation



Water samples are collected for testing to ensure treated wastewater compliance with wastewater discharge requirements

More Measure



Night-time commissioning noise test for fixed noise plants are conducted

Complaints and Enquiries

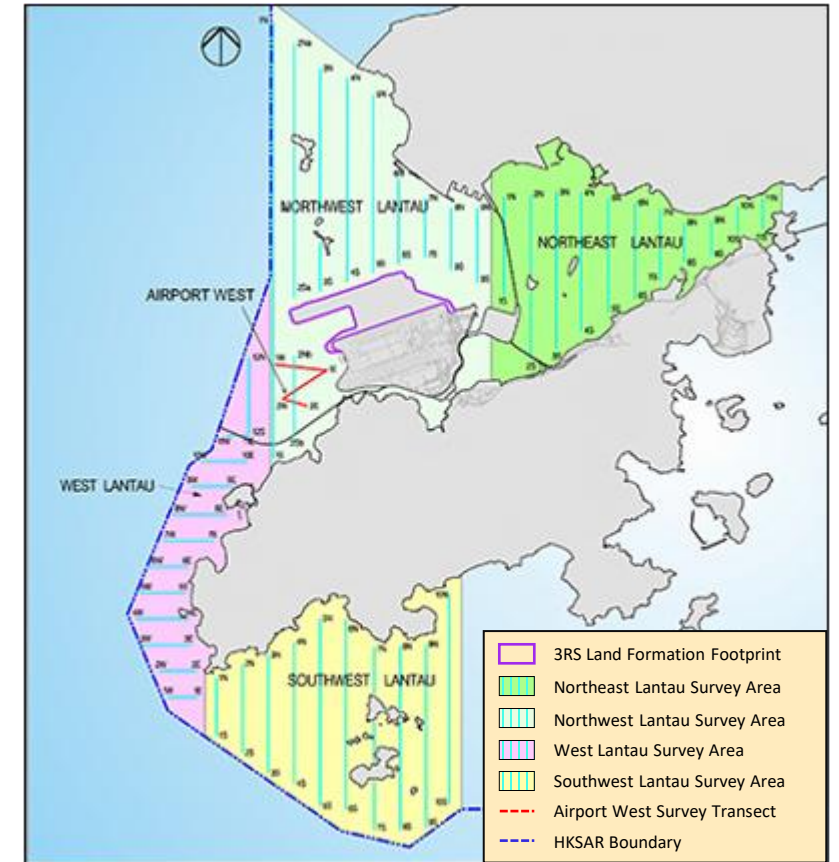
	2015 (from 28 Dec)	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026 (up to Apr)
Complaint	0	1	7	8	1	10	21	11	12	10	3	2
Enquiry	0	25	16	19	20	9	13	2	13	21	12	5
Total	0	26	23	27	21	19	34	13	25	31	15	7

CWD Monitoring – Vessel Line Transect Survey

- 12-month Post Marine Park Designation Monitoring for CWD by vessel-based transect survey were conducted from January to December 2025

Jan – Dec 2025

- 24 rounds of vessel line transect surveys were conducted, covering a total distance of approx 5,353 km
- 166 groups of CWDs with 466 individuals were sighted
 - Majority of CWD sightings (70%) were recorded in West Lantau (WL) waters
- Each group of CWDs sighting ranged from 1-15 individuals, with average group size of approx 2.8
 - Including a total sighting of 28 times with the presence of mother-and-calf pair(s)





Marine Ecology and Fisheries Enhancement Strategy



Holistic Monitoring (2025 – 2030)

Objectives

- To assess the effectiveness of North Lantau Marine Park and AA's enhancement measures
- Focus on potential rebound in Chinese White Dolphin usage of North Lantau waters

Chinese White Dolphin monitoring

- Small vessel line-transect survey
- Passive acoustic monitoring

Intertidal and subtidal surveys

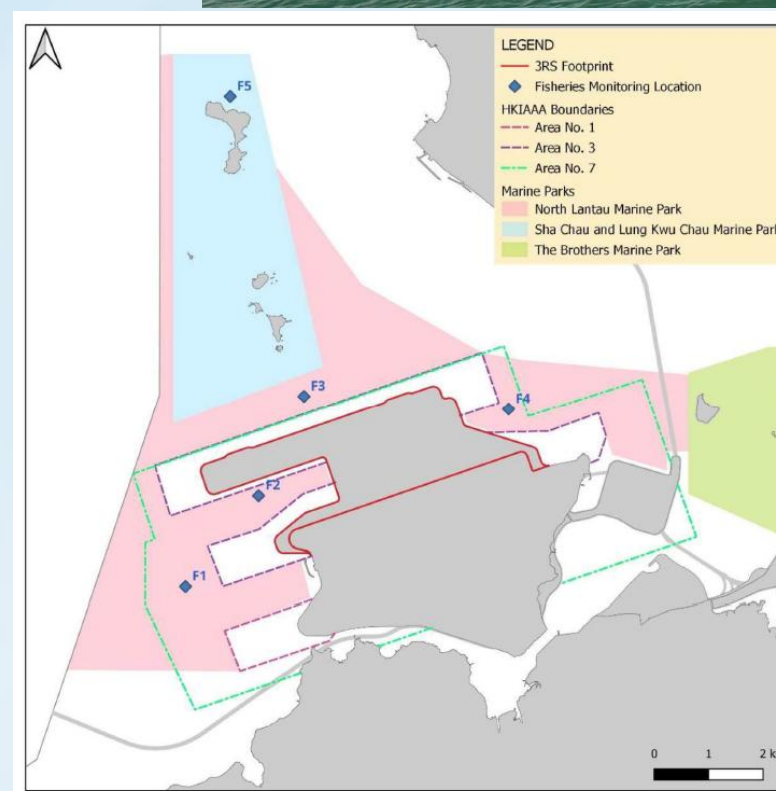
- Eco-shoreline
- Artificial reefs and shellfish reefs

Fish monitoring

- Long-lining and gillnetting
- Fish sonar



(Photo: 17 Jan 2026)



Eco-tours that Inspire, Educate and Engage



23

School Tours
887 students
& teachers



14

**Stakeholder
Tours**
488 participants



**Positive
Feedback**
widely
received



**Overwhelming
Registration**
for every
eco-tour



Second series of eco-tours planned this year to further promote marine and CWD conservation

Re: [Invitation] Dolphin Watching Eco-Tour at North Lantau Marine Park 【邀請函】北大嶼海岸公園觀豚生態遊



From 3E同學會
To eco.tour@env.threerunwaysystem.com
Copy xiaohei@xiaohei.net, eddiesung@live.com, yuwahkeung@gmail.com
Date Today 10:18

Summary Headers Plain text

Dear iris,

我們的活動在2026.03.21 圓滿完成，十分感謝當日的安排。

看到每一位同學在此次的旅途上聚精會神地學習和對發現中華白海豚的興奮樣子，我知道這次活動將會在他們心目中成為忘記不了的活動。

跟據和老師的談話，知道學校當日有4組同日舉行的外遊活動，然而老師為我們安排的這一組35位同學都是學校中比較低收入或領綜援的家庭子女，他們絕多數都沒有乘坐過遊艇或看過中華白海豚。所以是次的活動也是很好的學習體驗。

希望機管局可以持續將是次充滿教育意味的活動，繼續向教育界受眾推廣，冀望能將保護香港海岸生態及保育香港的中華白海豚像種子植根在香港未來主人翁的心中。

謝謝您！



Interactive Q&A

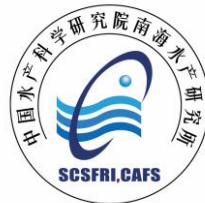


EXTRA Mile eco-tour

Transforming sustainability education into meaningful, memorable experiences

Marine Ecology Enhancement Fund (MEEF) & Fisheries Enhancement Fund (FEF)

- AAHK injected **HK\$400M** in late 2016
- MEEF & FEF granted over **HK\$112M** to support **82 projects**
- Funded Organisations include:



Ecological and Genetic Assessment of Marine Clams in Hong Kong



Fishery Landscape and Population Health of a Depleted Seascape



Aquaculture Community Outreach and Promotion Program – The Aquaculture



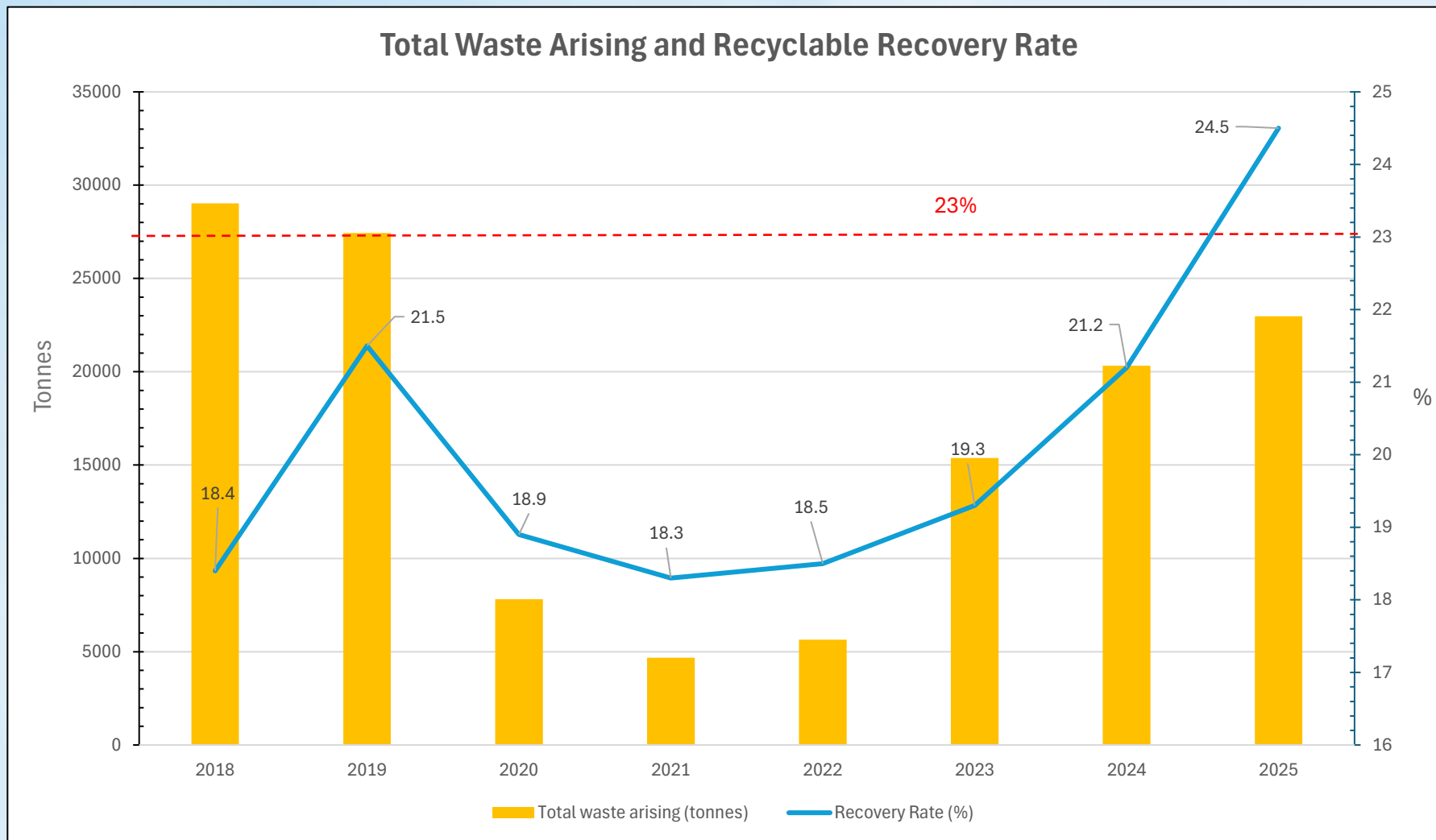
Survey Program for the Production of Fishing Vessels in Hong Kong Waters



Waste Management



Waste Recycling Target



Target (by 2025)

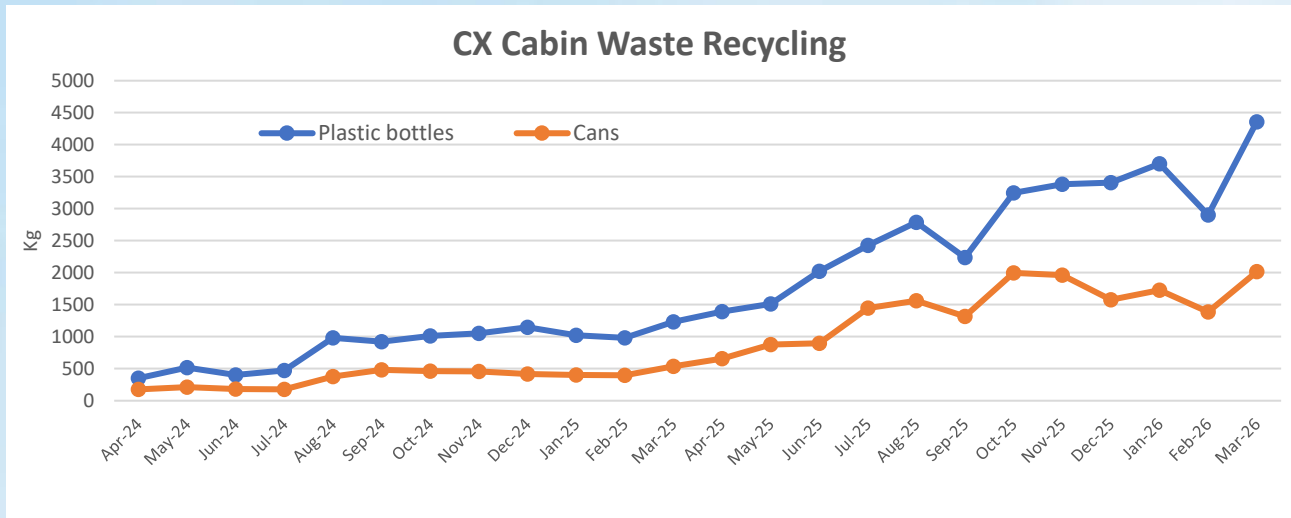
Recyclable Recovery Rate

23%

(25% increase compared to 2018 baseline)

Target achieved

Cabin Waste Recycling Programme



Working with Cathay Pacific Airways (CX) to collect and separate plastic bottles and cans from inbound flights

Programme – ongoing / enhancement works

Introduce machine to enhance on-site cabin waste separation capacity

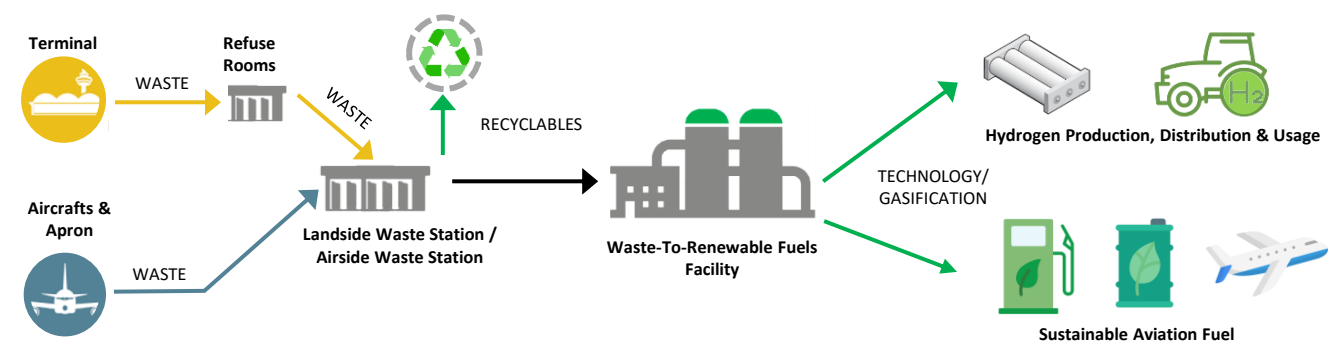
Facilitate HK Express to explore cabin waste recycling at HKIA

Promote cabin waste separation programme to other airlines through local airline committee

Waste-to-Renewable Fuels

Timeline (2026)

- 2026 Q2 PQ exercise
- 2026 Q3 Early Contract Involvement
- 2026 Q3 Tender exercise
- 2026 Q4 Contract award





Weather Preparedness



HKIA Weather Preparedness Exercise “Summer Blow 2026”

April 2026



Exercise Scenarios



Airport Emergency Centre



Flight Information System



Flight Rescheduling Control System



Baggage Handling System



Exercise Scenarios

1) Airport Emergency Centre (AEC) Activation

AEC Registration



AEC Full Activation



AEC was activated to facilitate effective communication and coordination among all parties – response units including AAHK, relevant Govt departments, airlines, passenger and ramp handling agents, and other airport business partners

Exercise Scenarios

2) Airfield Typhoon Contingency

Retraction and tie-down of airbridges



Airbridge tie-down operations and restoration works were performed to ensure safety on the apron



Exercise Scenarios

3) Crowd Management (T1 & T2 Landside)

T1 Landside



T2 Landside

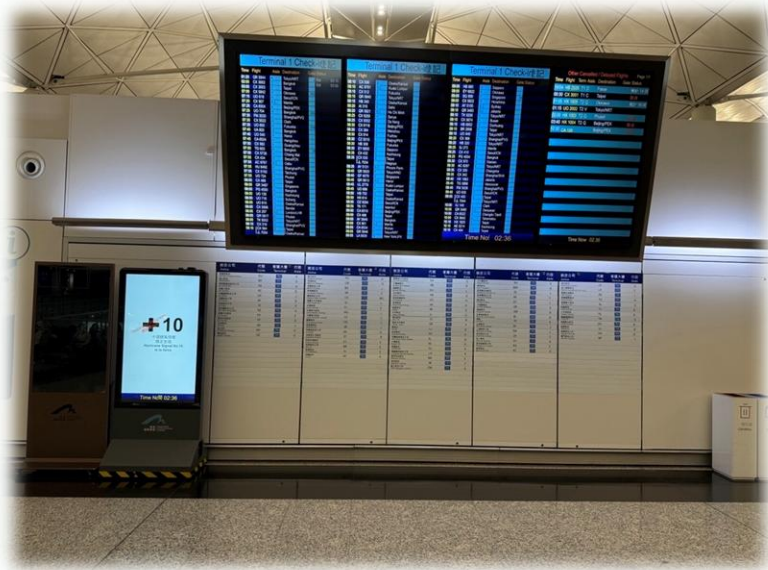


Crowd management drills were conducted at both Terminal 1 and T2 during the exercise



Exercise Scenarios

4) Flight Information System (FIS) Disruption Handling



Terminal 1 Typhoon Display



Band of Ten (Terminal 2)

Information on FIS was actively updated



Exercise Scenarios

5) Flight Rescheduling Control System (FRCS) Activation

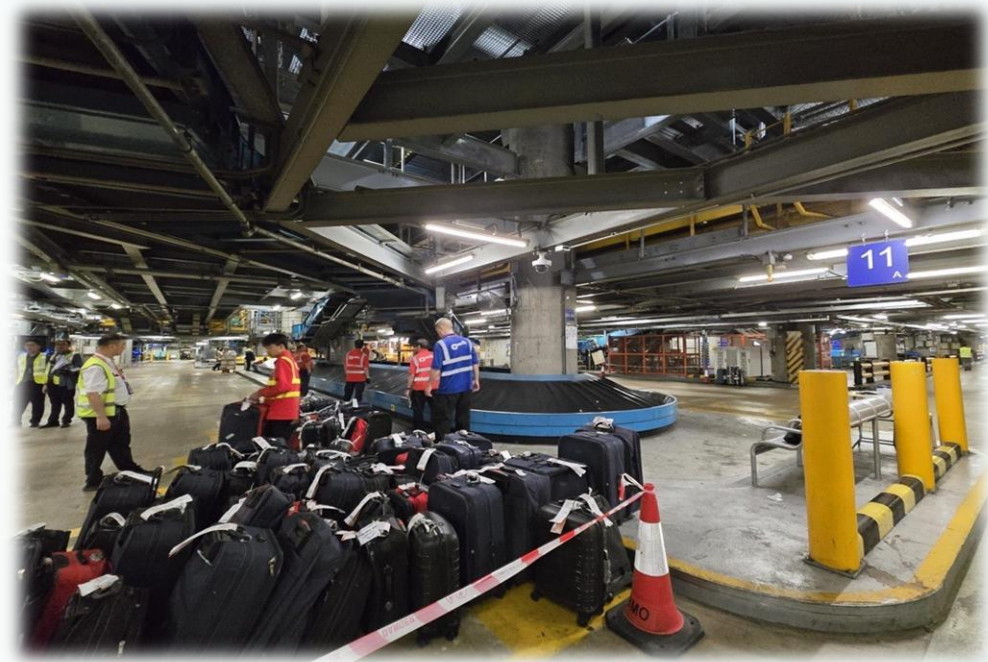
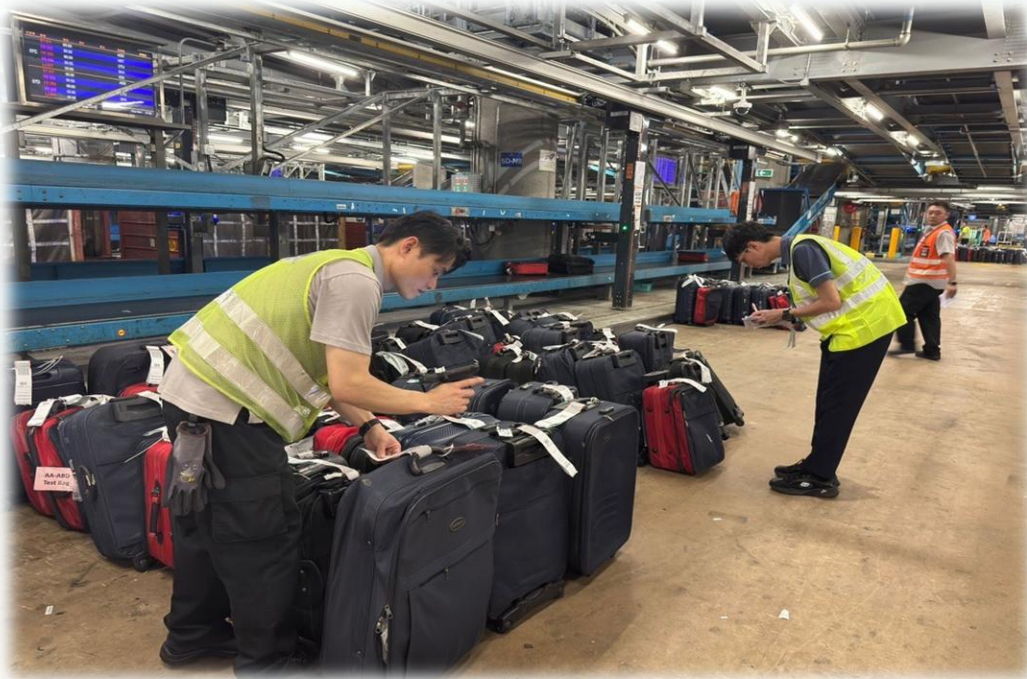


FRCS was implemented to plan for the orderly resumption of flight services



Exercise Scenarios

6) Baggage Handling System (BHS) Contingency



Contingency baggage handling arrangements were implemented to manage baggage overflow



Exercise Scenarios

7) Landside Transport Contingency



Activated the Taxi Queue Ticket System & coordinated land transport to ensure smooth passenger departures as operations gradually resumed





Questions & Comments?





Thank you