



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

## 14th Professional Liaison Group Meeting

14 May 2025

# Agenda

1. Update on 3RS Project and Other Airport Development
2. 3RS EM&A Updates
3. Update on Sustainability Initiatives

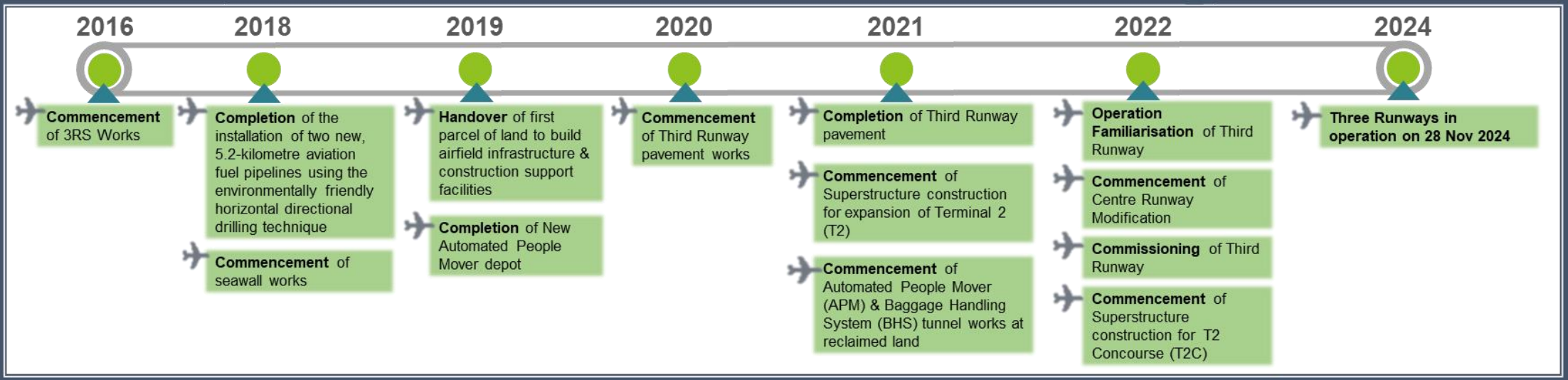


# Update on 3RS Project & Other Airport Development





# 3RS Project Overview





# Commissioning of the 3RS Operation on 28 November 2024





# Commissioning of Three-runway System at Hong Kong International Airport

## North Runway



## Centre Runway



## South Runway





# Expanded Terminal 2 (T2)



*Fire Certificate and Certificate of Completion (CoC) obtained in end March 2025*



# Terminal 2 Concourse (T2C)





# SKYTOPIA





## 3RS EM&A Updates





# EM&A Monitoring – Air Quality & Noise

Jul 2024 – Apr 2025

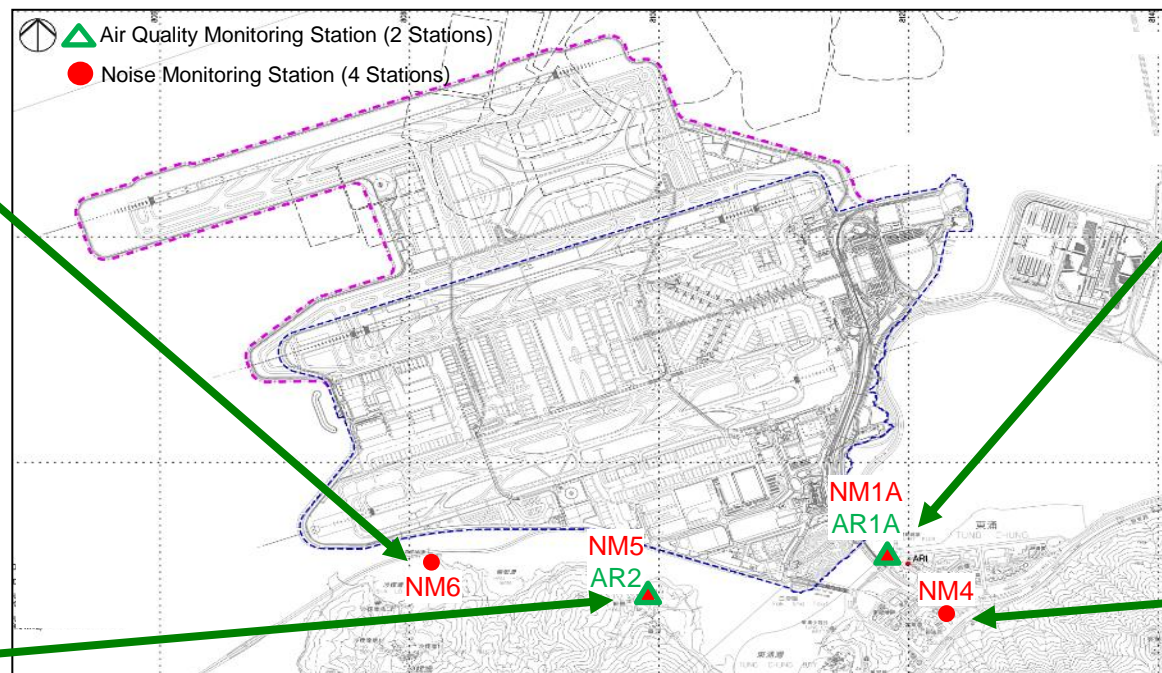
➤ No exceedance of project-related Action / Limit Level was recorded



Noise Monitoring Station NM6



Noise Monitoring Station NM5  
Air Quality Monitoring Station AR2



Noise Monitoring Station NM1A  
Air Quality Monitoring Station AR1A



Noise Monitoring Station NM4

	Jul 2024 – Apr 2025
Air Quality Monitoring (2 stations)	318 events
Noise Monitoring (4 stations)	176 events



# EM&A Implementation

## Air Quality Mitigation



*Regular water spraying at main haul road to minimise fugitive dust emission*



*Fully enclosed conveyor belt and mixing tower for concrete batching*



*Setting up wheel washing facilities at site exits*



*Automatic water sprinklers are installed at the stockpiling area*



*Regular water spraying for idled stockpile*



# EM&A Implementation

## Water Quality Mitigation



*Conduct regular checking & water sampling to check and ensure wastewater treatment facilities are functioning properly*



*Bunds are provided along temporary drains to prevent seepage of surface runoff into diversion channel*

## Noise Mitigation



*Noise insulation materials are erected for breaking works and excavation works*

## More Measures



*Water barrier recycling*



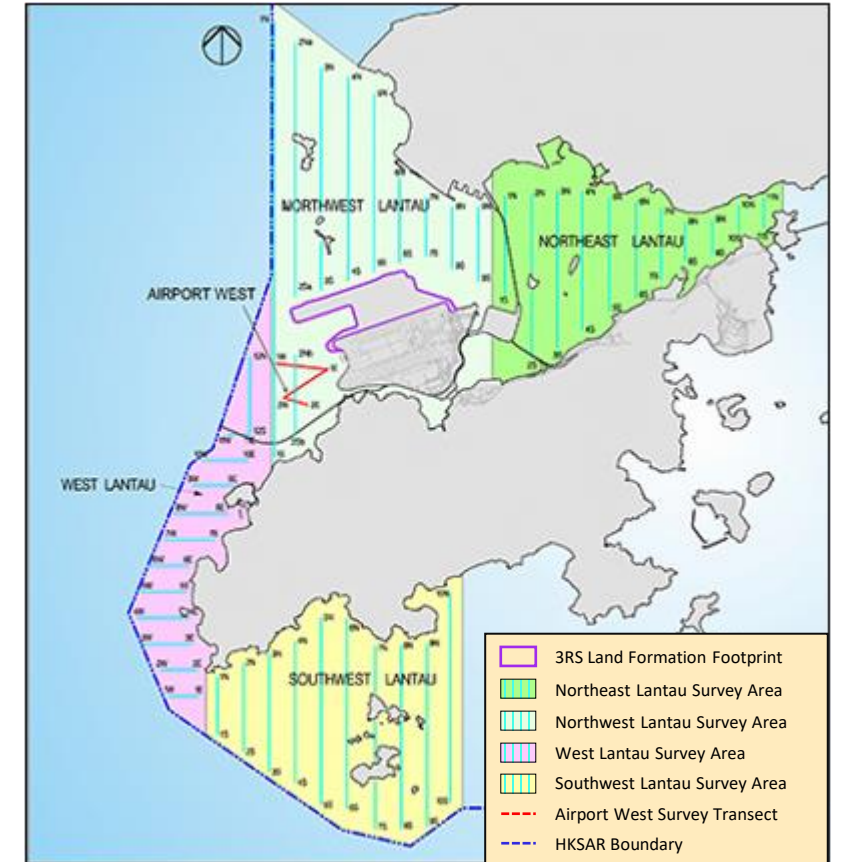
*Conduct chemical spillage drills regularly*

# CWD Monitoring – Vessel Line Transect Survey

- 12-month post-construction phase CWD monitoring completed in Dec 2024
- 12-month post-marine park designation CWD monitoring commenced in Jan 2025 according to the updated EM&A Manual
- Five years holistic monitoring will be followed, with monitoring focused in the Northern Lantau Waters

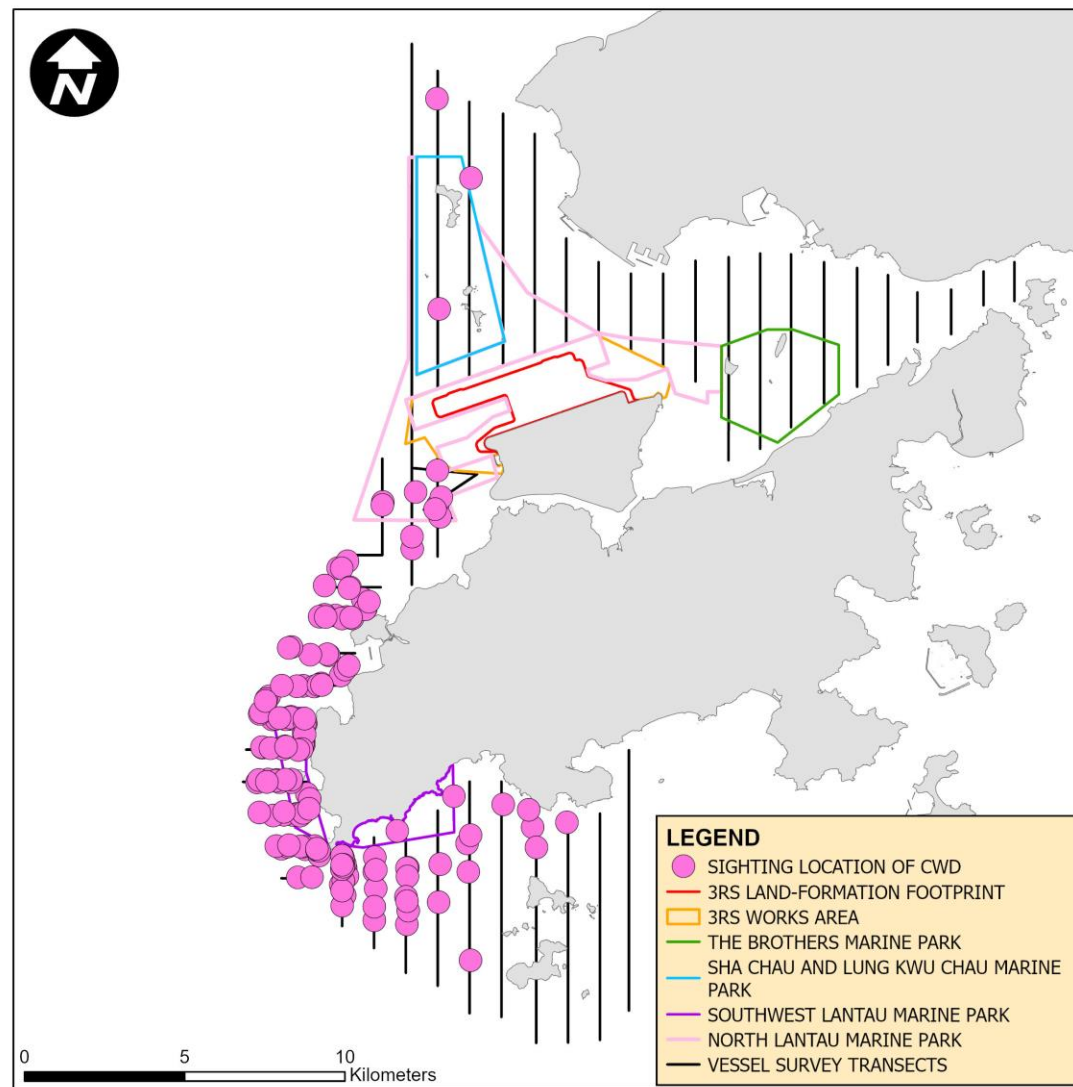
## Jul 2024 – Apr 2025

- 20 rounds of vessel line transect surveys conducted, covering a total distance of approx 4,500 km
- 155 groups of CWDs with 440 dolphins sighted, with majority of CWD sightings (66%) recorded in West Lantau (WL)





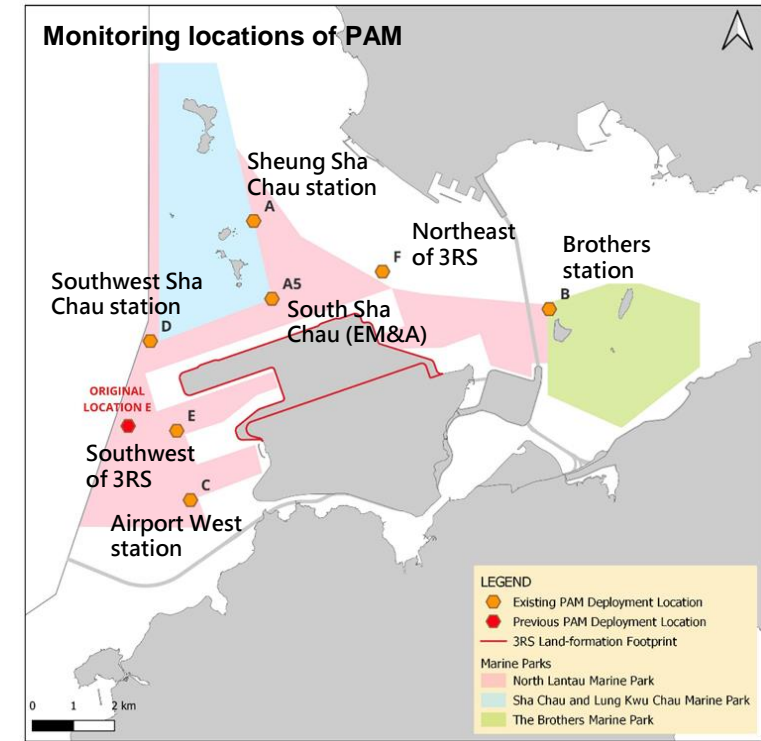
# Sighting Locations of CWD (Jul 2024 – Apr 2025)



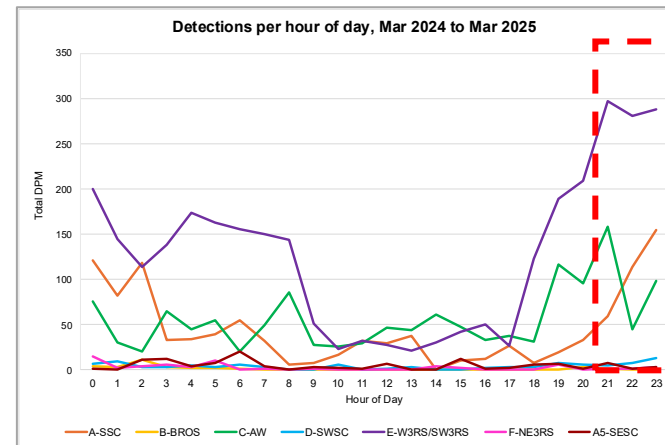
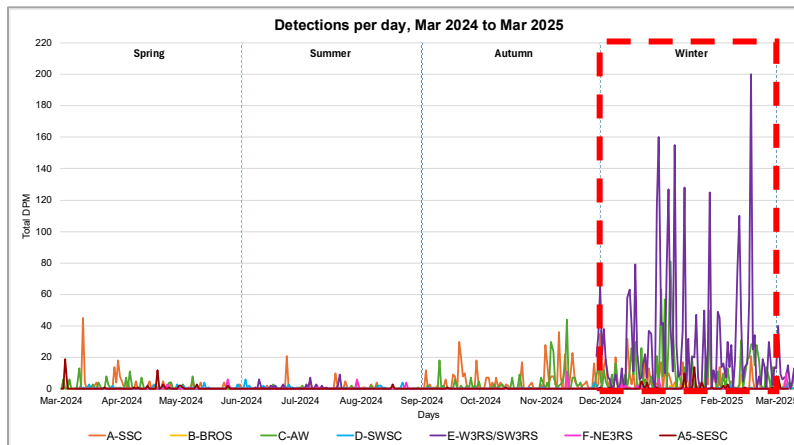
# CWD Rebound Survey

## Passive Acoustic Monitoring (Mar 2024 – Mar 2025)

- CWDs detected at all 7 monitoring stations, including Brothers and Northeast of 3RS stations
- Highest detections recorded at Southwest of 3RS, with 69% of logged days recording at least one CWD detection
- Higher CWD detections were recorded during winter months (Dec to Feb)
- Slightly more CWD detections recorded during night-time than daytime – peak detections between 21:00-00:00



*Photos of PAM device set-up and regular maintenance*





# Complaints and Enquiries

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



## Update on Sustainability Initiatives





# Renewable Diesel (RD) Pilot and Ramp Up Plan

- AAHK completed its one-year RD pilot in Mar 2025.
- AAHK plans to gradually expand the RD usage in its GSE fleet and mobile and emergency generators.
- Eight additional business partners (BPs) have either planned or implemented their own RD pilots.
- As more RD suppliers available in the market, a consolidated bidding process will be led by one of the BPs to streamline the bulk procurement of RD for the airport community, enabling us to benefit from economies of scale.



## BPs planned or implemented a RD Pilot

### **Into-plane BPs** [Full Transition to RD]

- AFSC Refuelling Limited (AFSC)
- CNAF Hong Kong Refuelling Limited
- Worldwide Flight Services (WFS)

### **Other BPs**

- Asia Airfreight Terminal (AAT)
- Cathay Cargo Terminal (CCT)
- DHL Aviation (Hong Kong) Limited (DHL)
- Hong Kong Airport Services (HAS)
- Hong Kong Business Aviation Centre (HKBAC)

# HKIA Carbon Capacity Building Programme

- Successfully completed 15 events and the last event was held in Mar 2025
- AA will continue to partner with BEC to develop and deliver the HKIA Carbon Capacity Building Programme in 2025-2028
- The new Programme will be launched in late Q2 2025



## HKIA Carbon Capacity Building Programme

3 year programme

Exclusive for pledged signatories

15 free events

Training and workshops

Customised to meet BP's needs

Develop carbon management skills



# HKIA Greenovation Fund

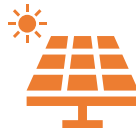
As of today: **8** projects approved **4** potential projects in the pipeline involving **9** BPs

***Extended for 2 more years  
until FY 2026/27***

➤ The Fund will provide support for projects that are associated with any one of the following categories:



**Innovative energy  
efficient technology**



**Innovative renewable  
energy**



**Innovative alternative  
fuel**

➤ Eight approved projects include:

- BESS for Surplus Electricity Generated by Solar PV System – DHL
- Renewable Diesel pilots by 7 BPs – AAT, AFSC, CCT, DHL, Hactl, HAS, WFS



# Sustainable Aviation Fuel (SAF) Study

- Study commenced in Feb 2024 and was completed in Sep 2024
- Study findings were presented to government departments (TLB, EEB and CAD)
- The 2024 Policy Address outlined the forthcoming steps for SAF development in Hong Kong:



Excerpt from 2024 Policy Address (Para. 86, page 25)

We will further promote the development of new energy by:

- setting a target for sustainable aviation fuel (SAF) consumption** – We will speed up the reduction of carbon emissions by the aviation industry and cater to the increasing demand of international airlines for SAF;
- developing SAF and green maritime fuel supply chains** – We will formulate the long-term plan for industry development in respect of fuel supply and demand, storage and bunkering;



# Hong Kong Sustainable Aviation Fuel Coalition (HKSAFC)

- AA presented key findings from the SAF Study at the HKSAFC Annual Symposium 2025 in Jan 2025
- AA has joined three of HKSAFC's working groups to keep abreast of the industry's SAF promotion, topics include:
  1. SAF Usage Target Setting – includes economic analysis
  2. Infrastructure Development – study on preblended vs neat SAF and blending infrastructure
  3. Public Education – develop SAF awareness campaign before Policy Address



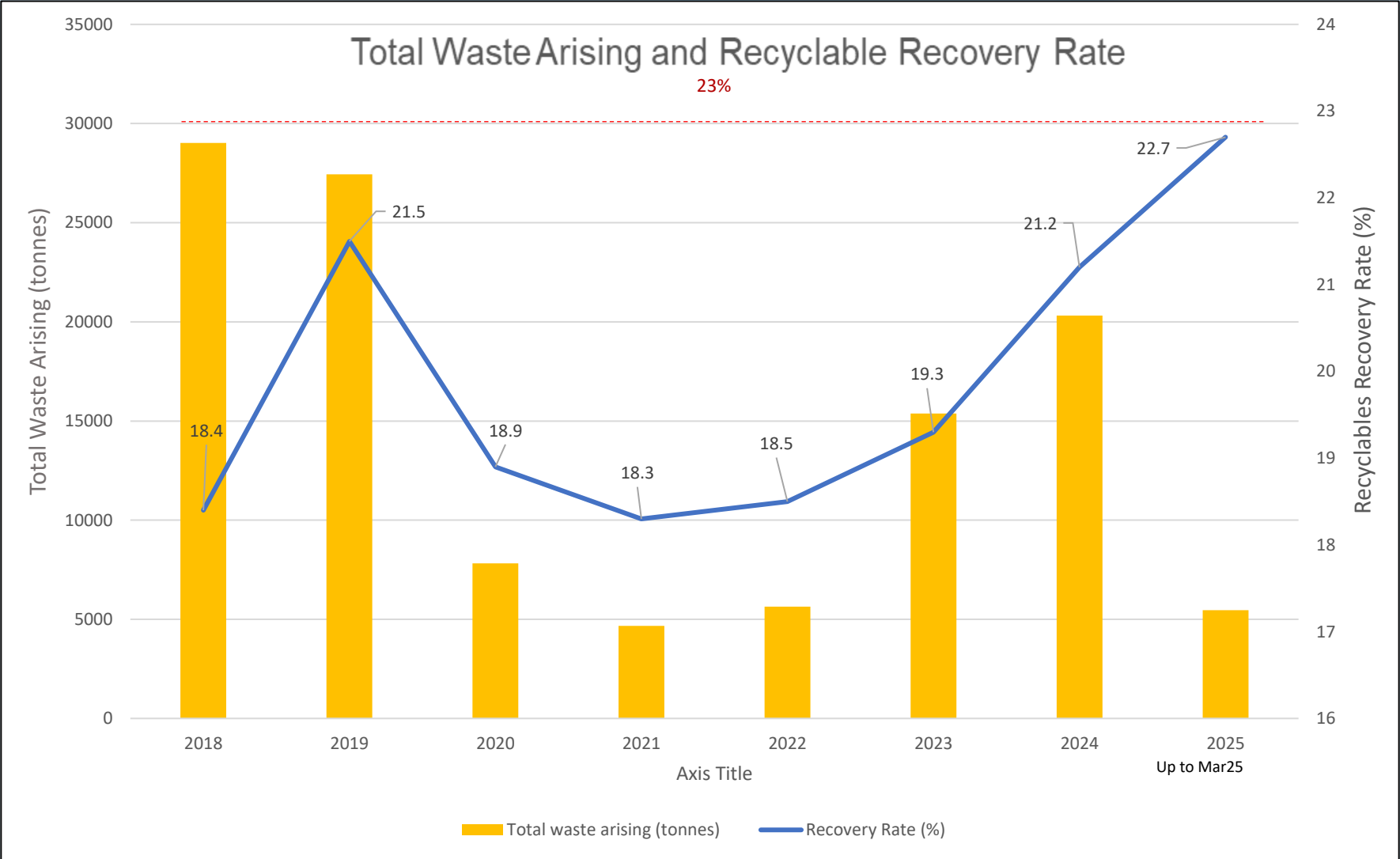
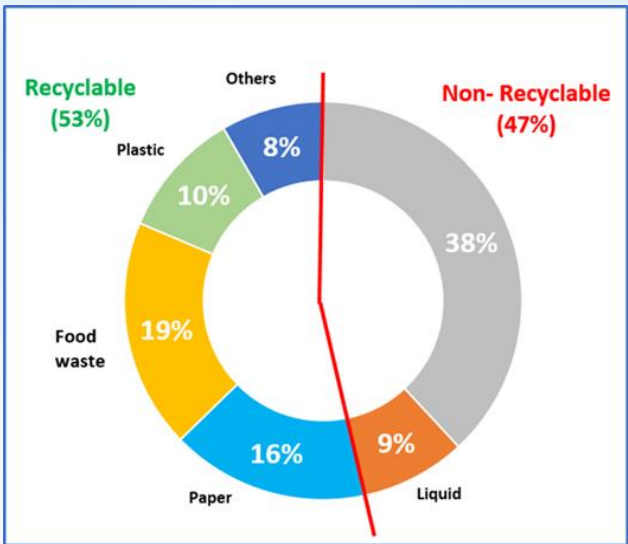
# AAHK Recycling Target



In 2021, we set a target to increase AAHK's recovery rate for recyclables by

**25%**

by 2025, compared to a 2018 baseline





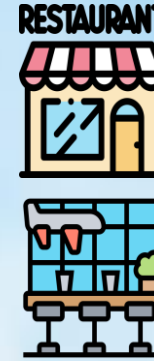
# Focused Waste Separation & Recycling Initiatives



## Directly engage major waste generators

- Work directly with ~10 biggest waste generators (F&B outlets/ lounges etc)
- Review & recommend improvements
- Work to implement and drive improvements *one on one* with operators

**Commenced Mar 2025**



## Used paper towels and paper cups

- Used paper towels (9%)
- Identified potential local recycling outlet
- Trial at two T1 rest rooms and two water stations
- Scale up if found feasible

**Commenced Apr 2025**



## Frontline cleaner incentive scheme

- Engaging with ~1,000 cleaners
- Cultivate correct waste recycling practices
- Use of supermarket coupons as incentive

**Commenced Feb 2025**



## Plastic bottles @ security channels

- Plastic bottles (3%) & liquid (9%)
- Many discarded plastic bottles at security channels
- Intention is to implement better separation and recycling process

**Commenced Apr 2025**



# Waste Separation at Source – Aircraft Arrivals



## Aircraft Cabin Waste Separation by CX / LMOs / AA

Recyclables collected by cabin crew (plastic bottles / cans)



Co-mingled recyclables delivered to Airside Waste Station



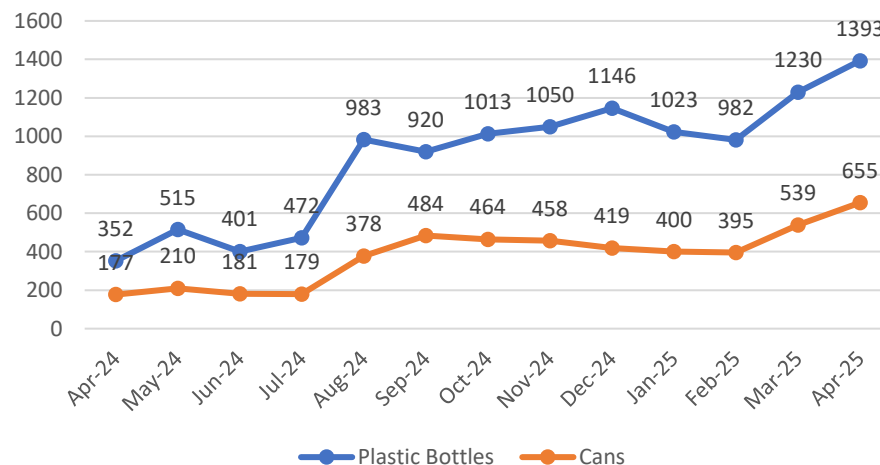
Sort co-mingled plastic bottles & aluminum cans



Compaction of recyclables for transportation



CX Cabin Waste Recycling - Monthly Total



- Looking at how to increase sorting /de-watering efficiencies
- Develop approach for expanding initiative to other inbound flights / airlines



# Longer-term Waste Management Arrangements

- Timing and impact of future MSW charging on upstream recyclables separation uncertain
- AA planning ahead and looking at total waste management solutions
- Studies point to holistic waste handling arrangements to address total waste management



**Waste-to-Hydrogen Facility**



**Possibility of diverting AA's general waste (non-recyclables) away from HK landfill sites**



**Possible production of low-carbon fuel for AA's vehicles and ground support equipment contributing to decarbonisation of airport operation**

# Marine Enhancement Initiatives – Scale-up Progress

## Scale-up Shellfish Reef

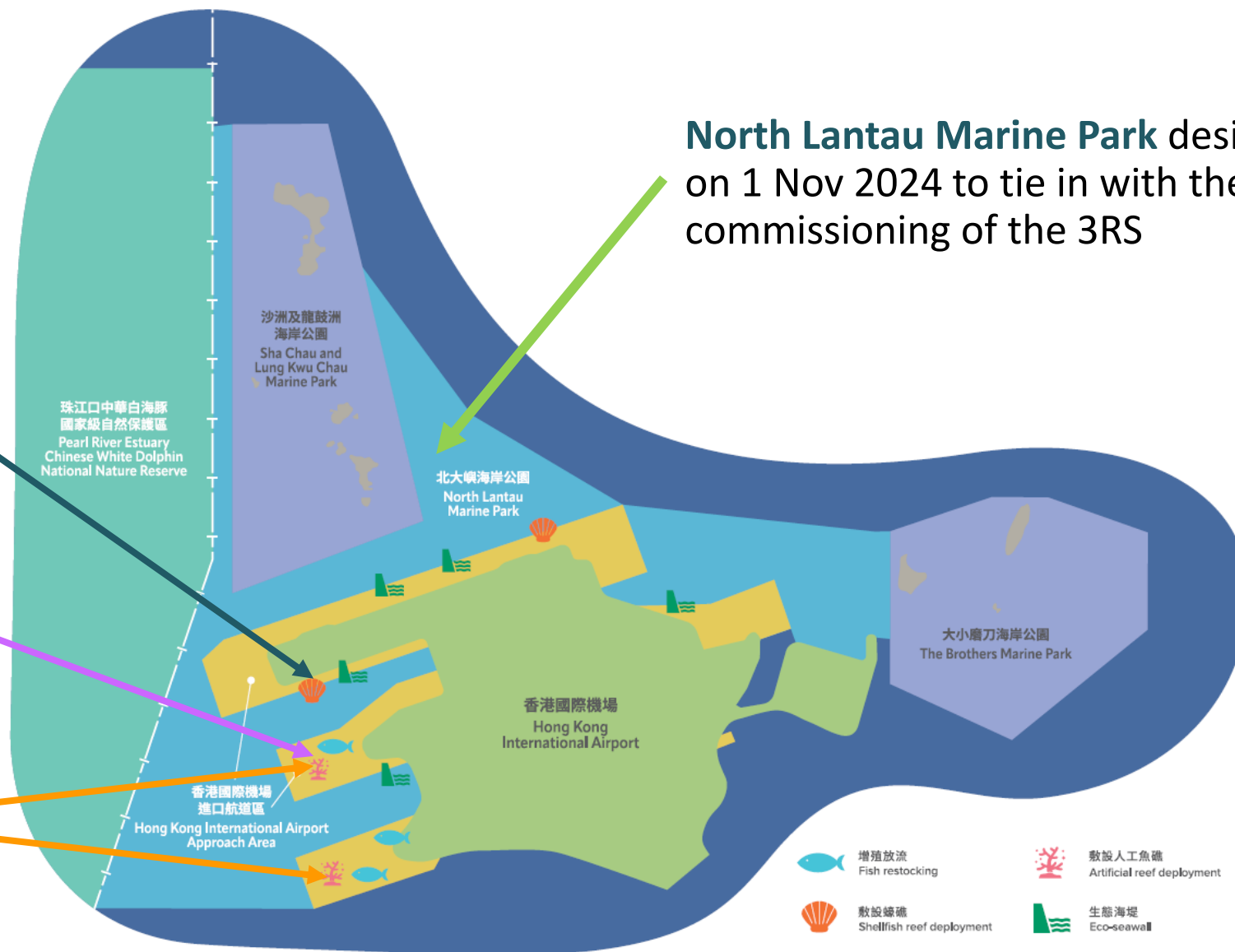
Deployment completed in Sep 2024; post-deployment monitoring ongoing

## Scale-up Artificial Reef

Deployment in progress

## Scale-up Fish Fry Release

Planned for 6 Jun 2025 to tie in with National Fish Releasing Day





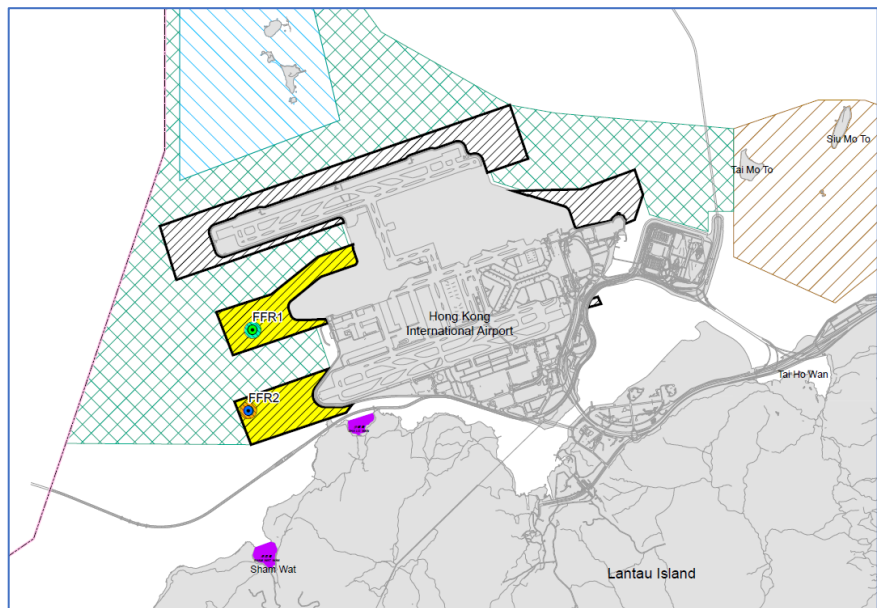
# Marine Enhancement Initiatives – Scale-up Progress



Release of 50,000 fish fry and 1M shrimp fry planned for 6 Jun 2025; media and stakeholders to be invited



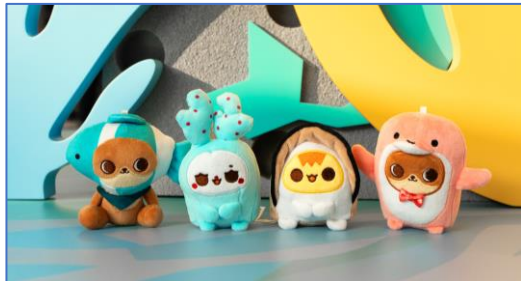
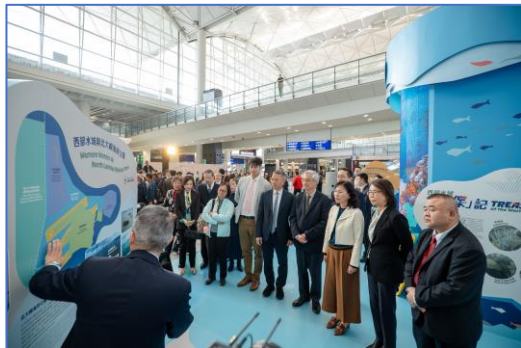
Deployment of 500 artificial reef units in progress, target completion by end May 2025





# Biodiversity and Marine Ecology Publicity Campaign

- Successful launch of “Treasures of the Western Waters” Exhibition
- Exhibition from 2 Apr to 8 Jun 2025 to showcase AA’s marine ecology conservation efforts



- Video production for weekly launch on social media and TVB in May 2025
- Eco-tours kicked off in May 2025
  - May 2025 – AA staff club, stakeholders (PLG, Green NGOs)
  - Jun-Sep 2025 – school students





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

- AAHK injected HK\$400M in late 2016
- MEEF & FEF have granted **over HK\$96M** and supported **70 projects** up to Apr 2025
- Funded Organisations include:



香港中文大學  
The Chinese University of Hong Kong



香港大學  
THE UNIVERSITY OF HONG KONG



香港漁業聯盟  
HONG KONG FISHERY ALLIANCE

香港仔漁民婦女會有限公司  
Aberdeen Fisherwomen Association Limited



Publicity for  
Funds at T1  
'Treasures of  
the Western  
Waters'  
Exhibition



Chinese White  
Dolphin  
Monitoring



Fish fry release



Cuttlefish  
Mariculture



**Thank you**