





Environmental Impact
Assessment
for the Expansion of HKIA
into a Three-Runway System

**ACE Meeting - 15 September 2014** 

Airport Authority Hong Kong

# Marine Ecology and Fisheries Enhancement Plan

Inntroduction land on the description from the description from the description from the description of





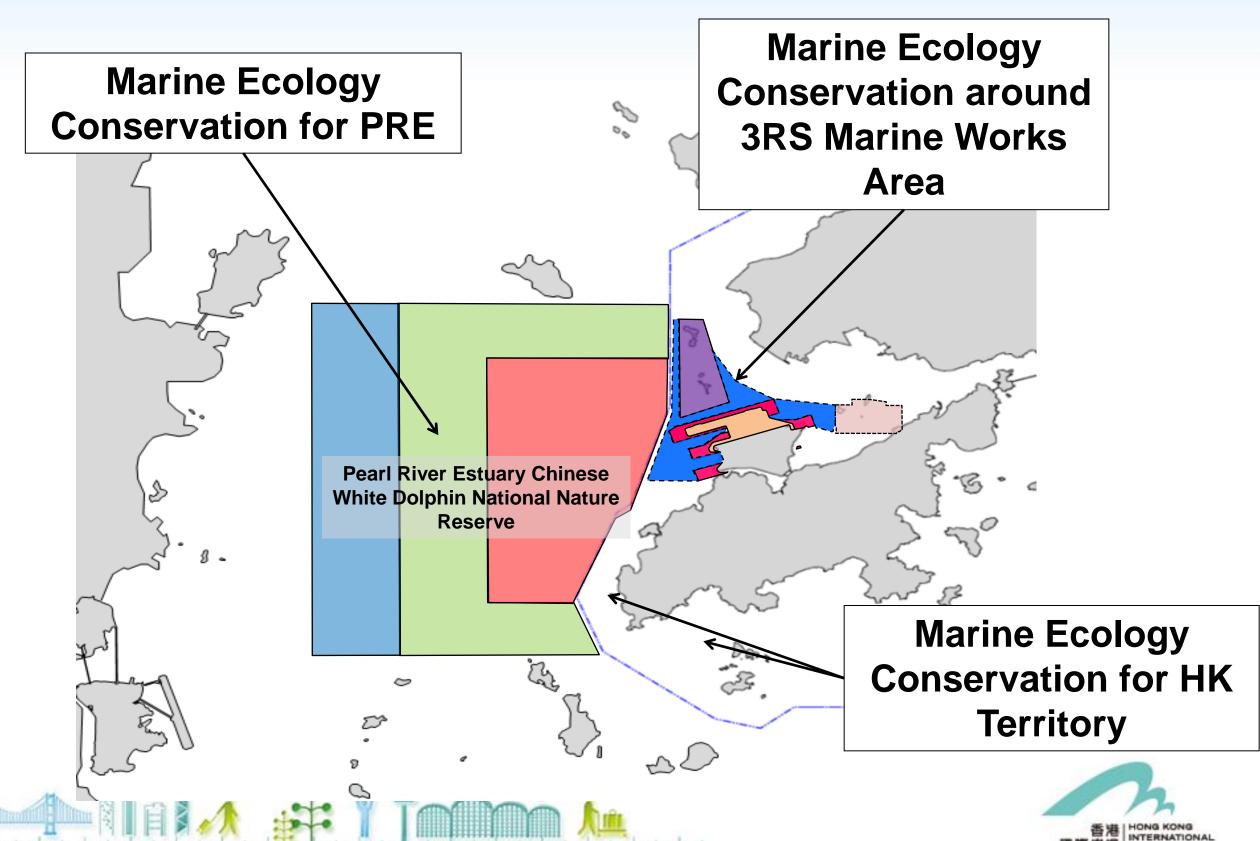
#### **Key Objectives**

- Enhance habitats for marine ecology, in particular Chinese White Dolphins (CWD), and recovery of fisheries resources
- Support scientific research and studies
- Promote environmental education and eco-tourism
- Promote a sustainable fisheries industry





#### Marine Ecology and Fisheries Enhancement Strategy



# Marine Ecology Conservation Around 3RS Marine Works Area

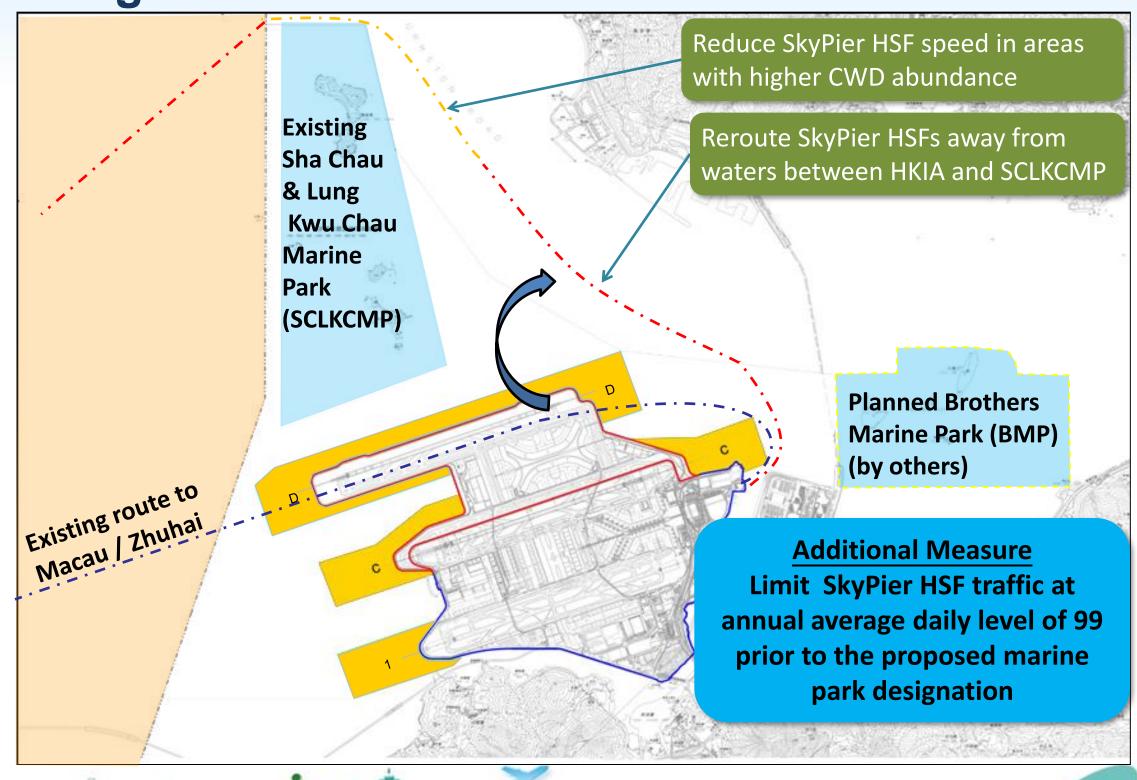
(before /during 3RS Construction)

- kaataa k 💽





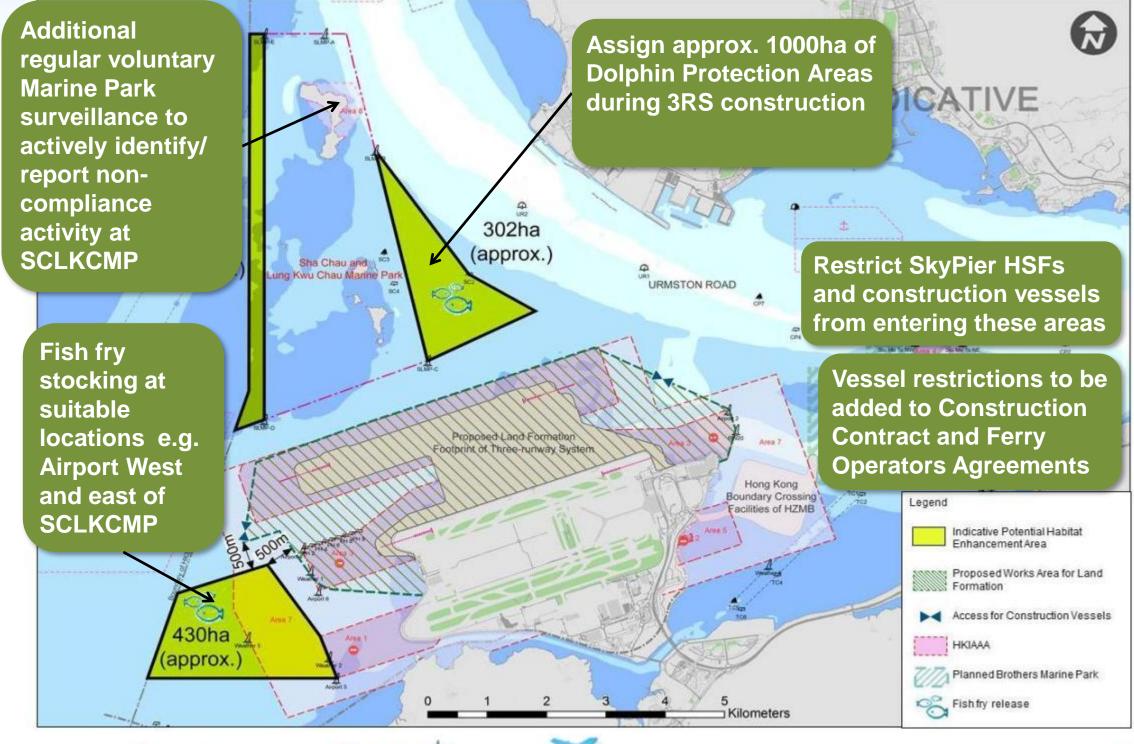
### High-speed Ferry (HSF) Marine Traffic Routes and Management Plan







### Marine Habitat Enhancement and Dolphin Protection Zone during Construction Phase







# Marine Ecology Conservation For HK Territory

Inntroduction hortooling to all out of hortooling to a long to





#### **Marine Ecology Conservation for HK Waters**

- Collaborate and fund habitat enhancement measures / scientific research & studies
- > Promote environmental education and eco-tourism
- > Promote sustainable fisheries industry







#### Habitat Enhancement and Scientific Research / Study

#### **Key aims:**

- Foster in-depth understanding of marine ecology & fisheries resources in Western HK waters through funding long-term monitoring
- •Provide funding support for the development of practices, measures and programmes to enhance marine ecology & fisheries resources in Western HK waters

#### Relevant initiatives / studies may include:

Measures to enhance marine ecology and carrying capacity of existing CWD hotspots



Information sharing on CWD studies and status



Dolphin Stranding
Response and
Education Programme



Identify sources of pollution in CWD habitats and make recommendations on appropriate mitigation measures Acoustic studies to evaluate noise impacts of marine construction activities



Measures to support the development of a CWD conservation management plan in HK waters, including focused marine ecological surveys (including CWD)







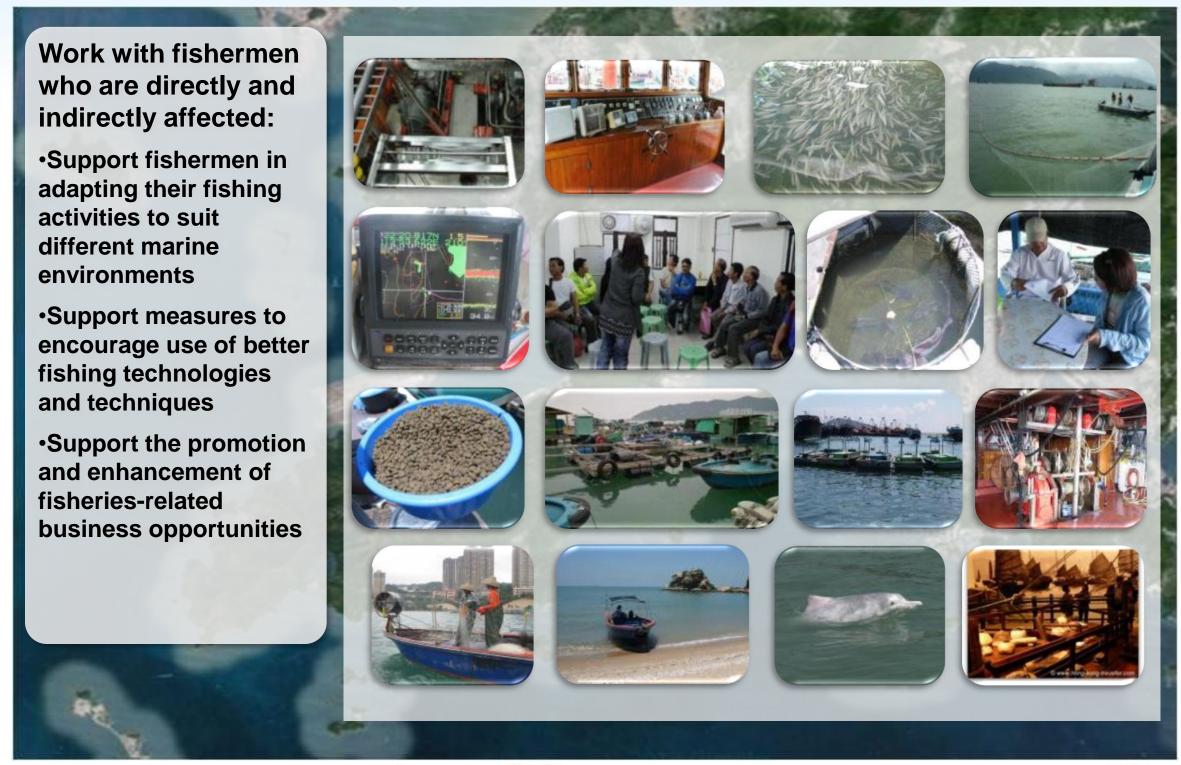
#### **Environmental Education and Eco-tourism**

**Funding support** Relevant initiatives may include: for initiatives that promote Skipper workshops for HSF Development of eco-Organisation of environmental captains on collision risk & tourism on sustainable campaigns for cleaning education and safe operations around fishing operations of sandy shores ecotourism cetaceans relating to marine ecological & fisheries resources Establishment of Collaborations with AFCD Promotion of eco-tourism education programme and NGOs to provide in Marine Protection or eco-trails training to local dolphin Areas watching tour Support AFCD / NGOs to conduct training programmes for frontline protection staff





#### Promotion of Sustainable Fisheries Industry







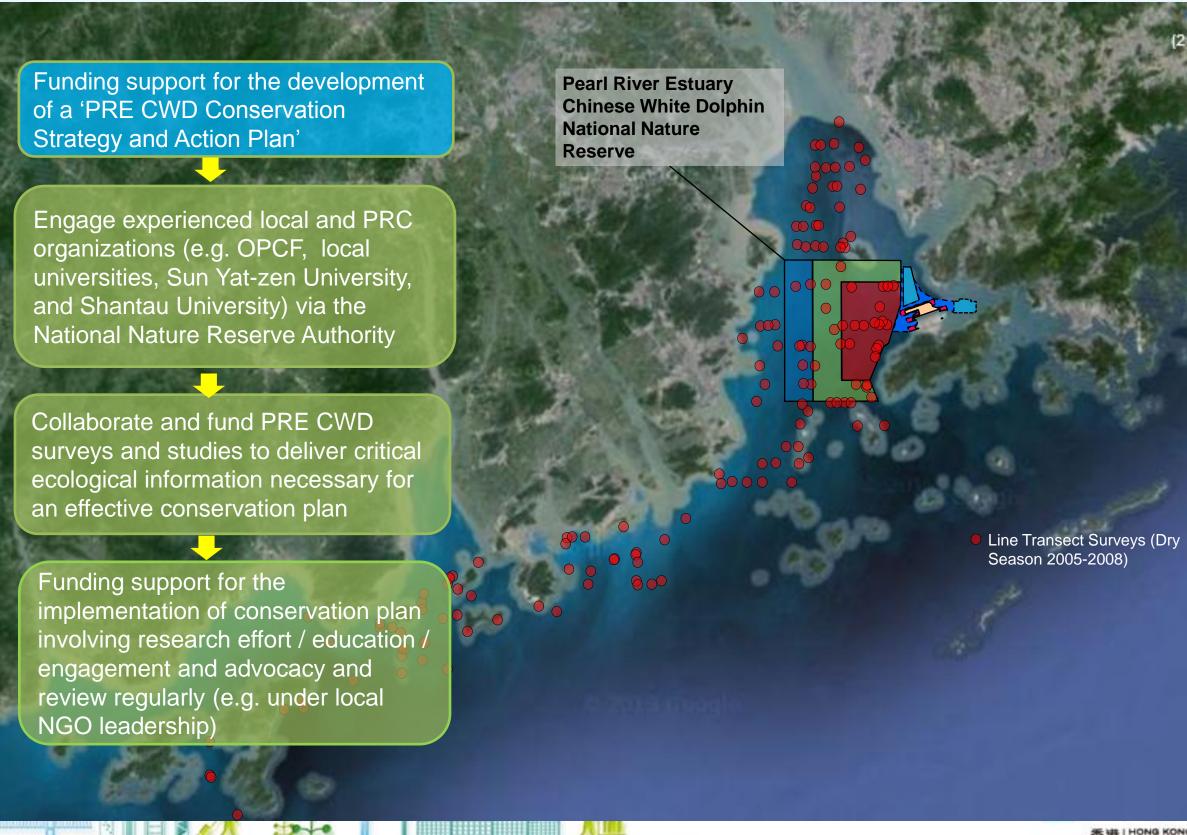
# Marine Ecology Conservation for PRE

Instrudentenheitenheitenheitenheitenheitenheitenheitenheitenheitenheitenheitenheitenheitenheitenh





#### **CWD Conservation in PRE**



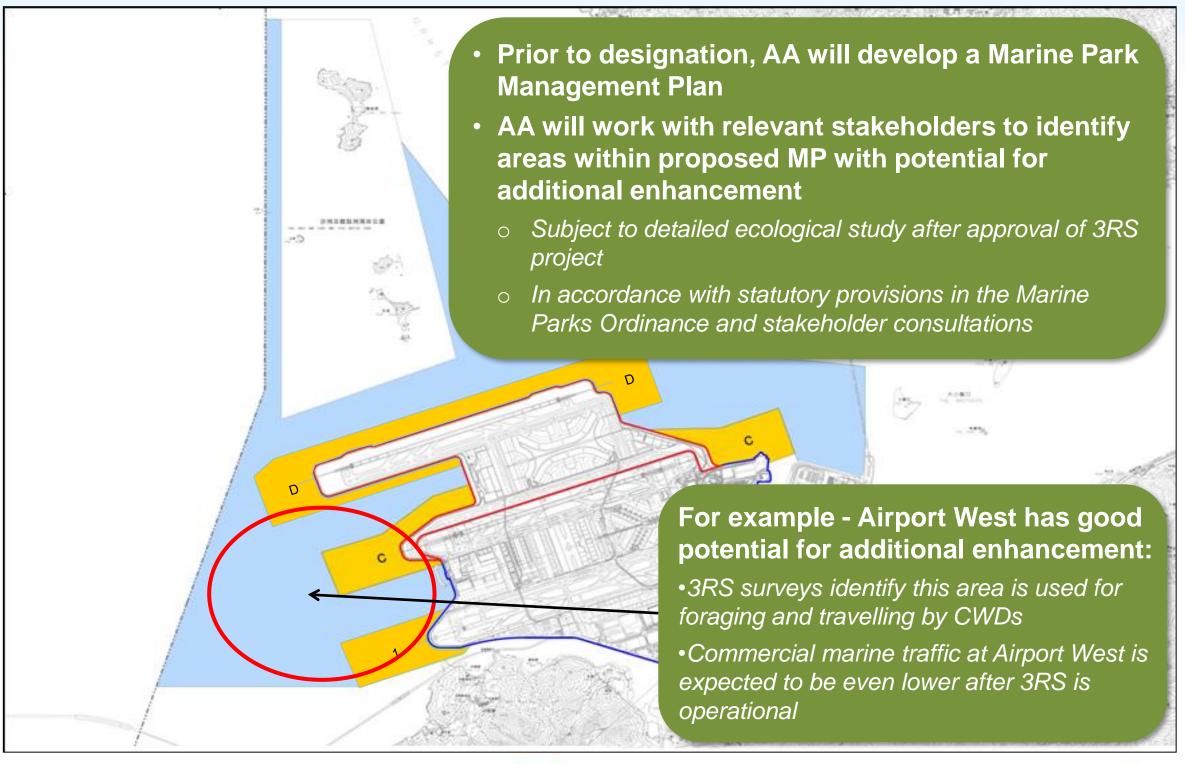
## Enhancement Measures in the Proposed Marine Park

Instrudentendentendentendentendentendentendentendentendentendentendentendentendentendentenden





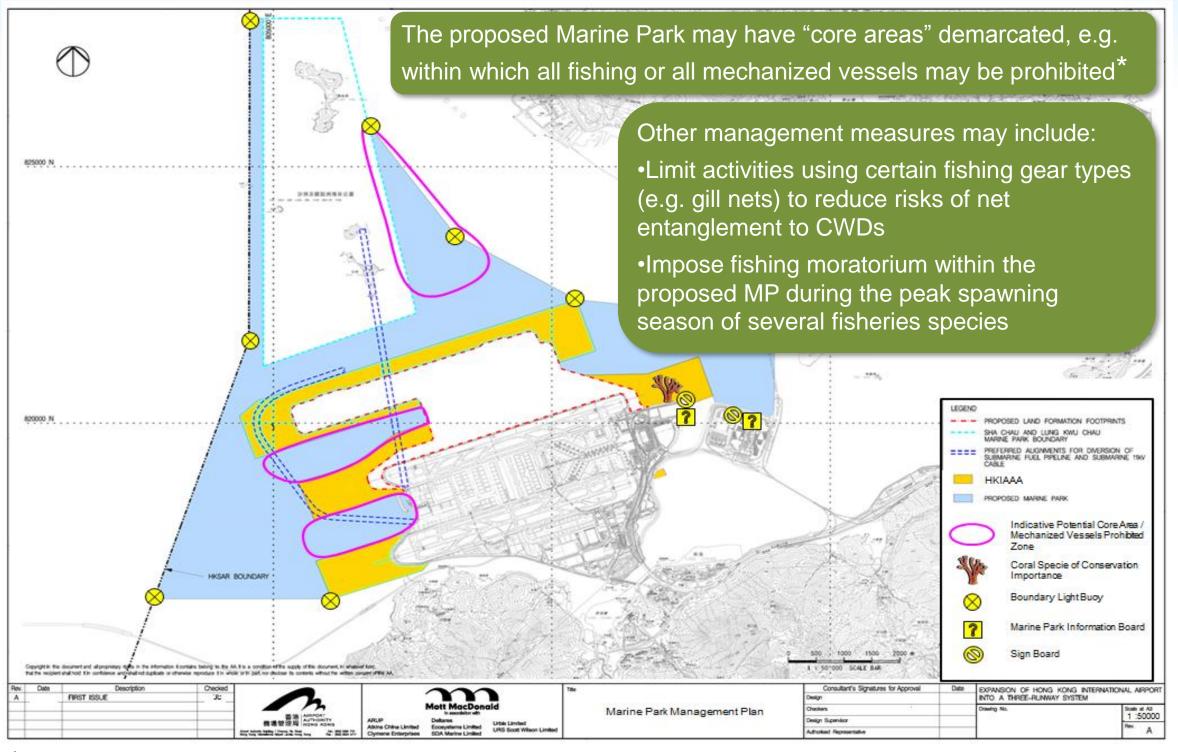
#### **Identify Potential Areas for Enhancement**







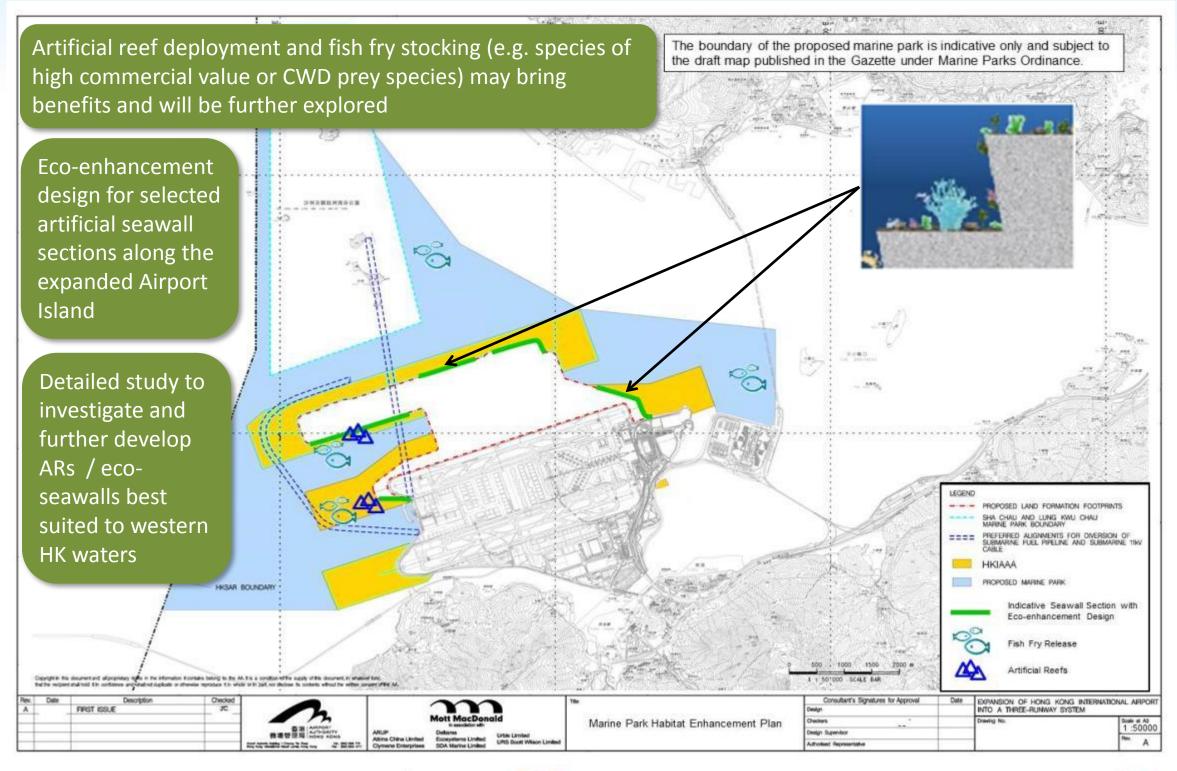
#### **Identify Potential Areas for Enhancement**



<sup>\*</sup> in accordance with MP Ordinance requirements / will require thorough stakeholder consultation



#### **Identify Potential Areas for Enhancement**







# Marine Ecology and Fisheries Enhancement Strategy

# Management and Funding Arrangements





#### **Management Committees**

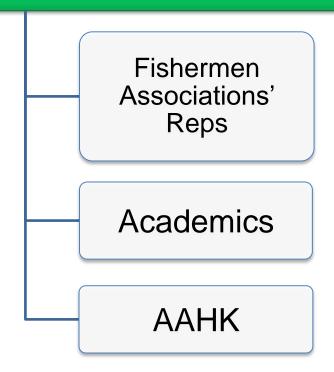
#### **Marine Ecology Enhancement**

#### Chaired by AAHK



#### **Fisheries Enhancement**

#### Chaired by AAHK



#### <u>Planned Funding Allocation</u>

- Marine Ecology Enhancement Fund: Up to \$150M
- Fisheries Enhancement Fund: Up to \$150M
- Total Fund commitment: Up to \$300M (subject to final approval from the Board of AAHK)





#### **Management Arrangements**

#### **AAHK** will develop:

- TOR and modus operandi
- Appropriate mechanisms for accepting funding applications and means of managing funds and deliverables
- Details on Secretariat, technical support and staffing arrangements





#### **Existing HKIA Environmental Fund**

- Provides funding support for projects, activities and initiatives that promote environmental protection, green living and a sustainable lifestyle in Hong Kong
- Eligibility for funding:
  - (i) projects that further our understanding of Hong Kong's flora, fauna and ecosystems
  - (ii) projects that promote "green living" and a sustainable lifestyle
  - (iii) projects that promote the betterment of the airport and/or the nearby community
- Up to HKD 3.5 million may be granted annually (full or partial support of projects)
- An AAHK fund award committee, with external advisors
   (External advisors invited to comment on projects with value over HKD300,000)











<sup>\*</sup> HKIA Environment Fund Application Guide available on HKIA web-site: http://www.hongkongairport.com/eng/csr/environmental-fund/index.html

#### **Examples of AAHK Funded Initiatives**

Since 2011, AAHK has funded various initiatives, including:

- PRE CWD Conservation Study (pending approval)
- Finding Pipefish in Hong Kong 2012
- Micro Carbon Operation
- ClimateWatch Community Engagement Programme
- Food Angel, Food Rescue & Assistance Program
- Hong Kong Kids Ocean Week



















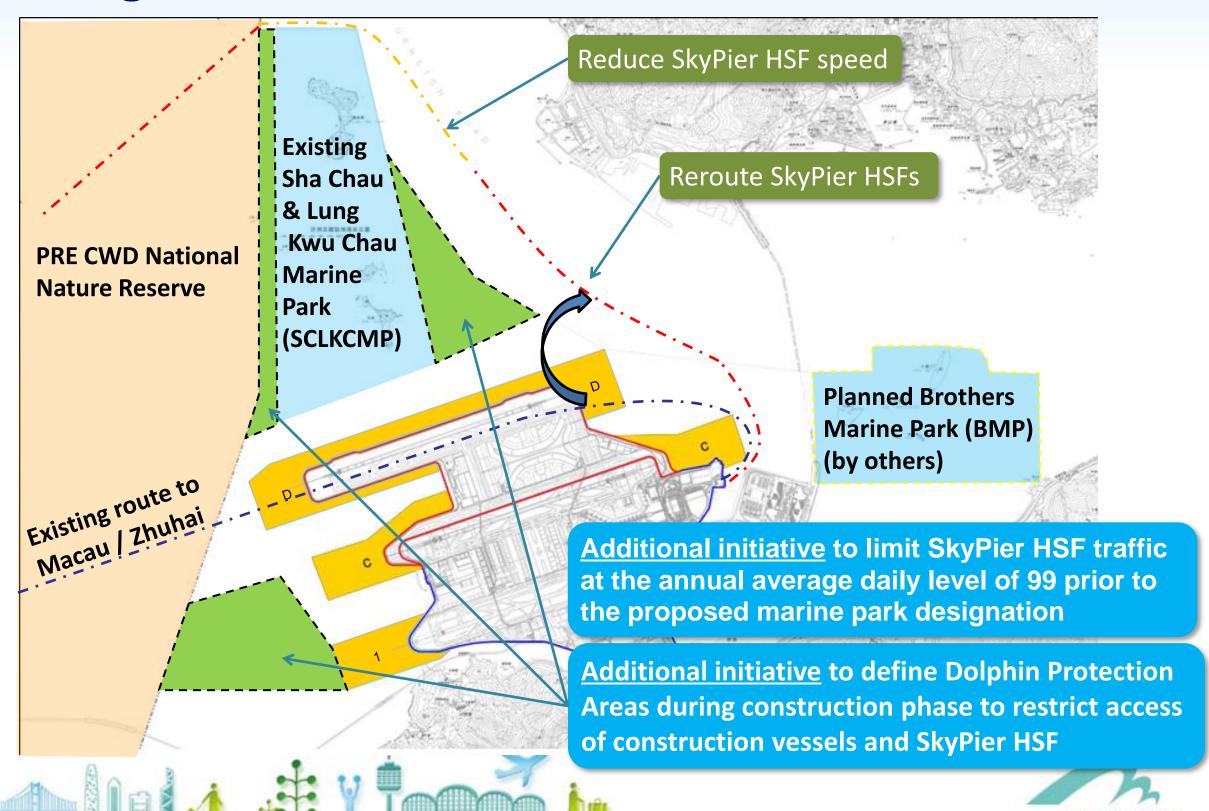


# SkyPier High Speed Ferry Management Plan





### High-speed Ferry (HSF) Traffic Routes and Management Plan



#### **Speed Reduction to 15 knots in CWD hotspots**

- HSFs generally travel at speeds of 30-40 knots are associated with increased risks of injury and mortality to CWDs
- Further speed reduction below 15 knots for HSF operators would lead to difficulty in manoeuvering and increased passenger discomfort
- The portion of the diverted route subject to speed reduction shall be determined before commencement of construction based on review of up-to-date CWD abundance data, including
  - Baseline monitoring data under 3RS EM&A programme
  - AFCD long-term monitoring data

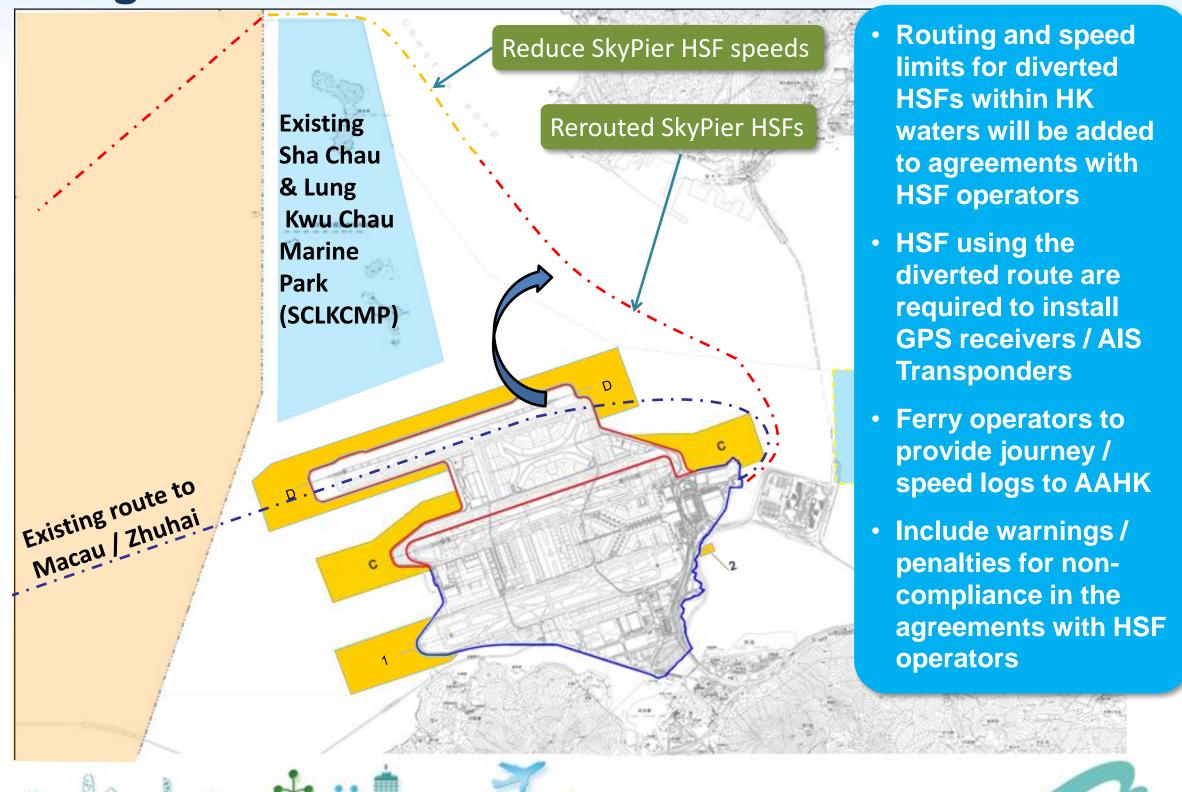








### High-speed Ferry (HSF) Marine Traffic Routes and Management Plan





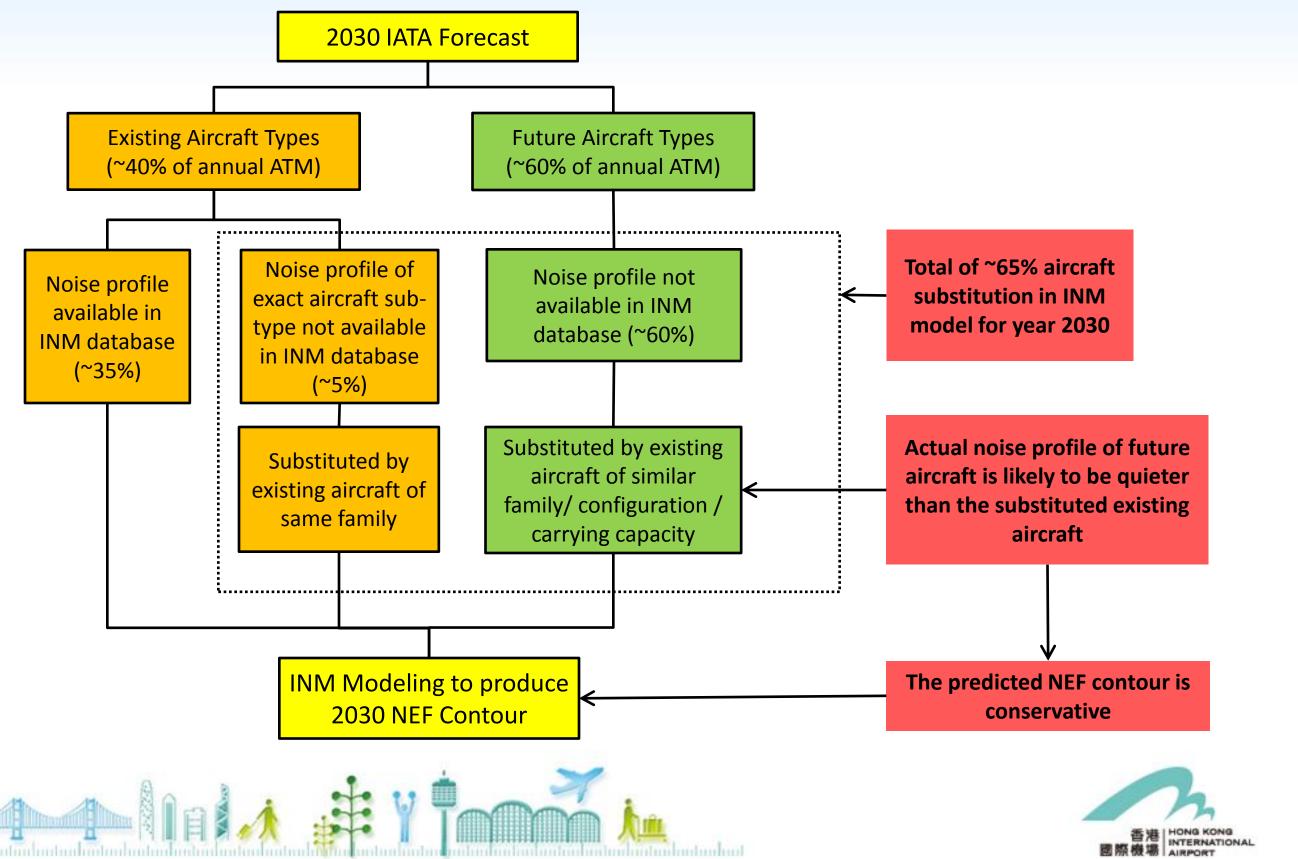


# . Aircraft Noise .

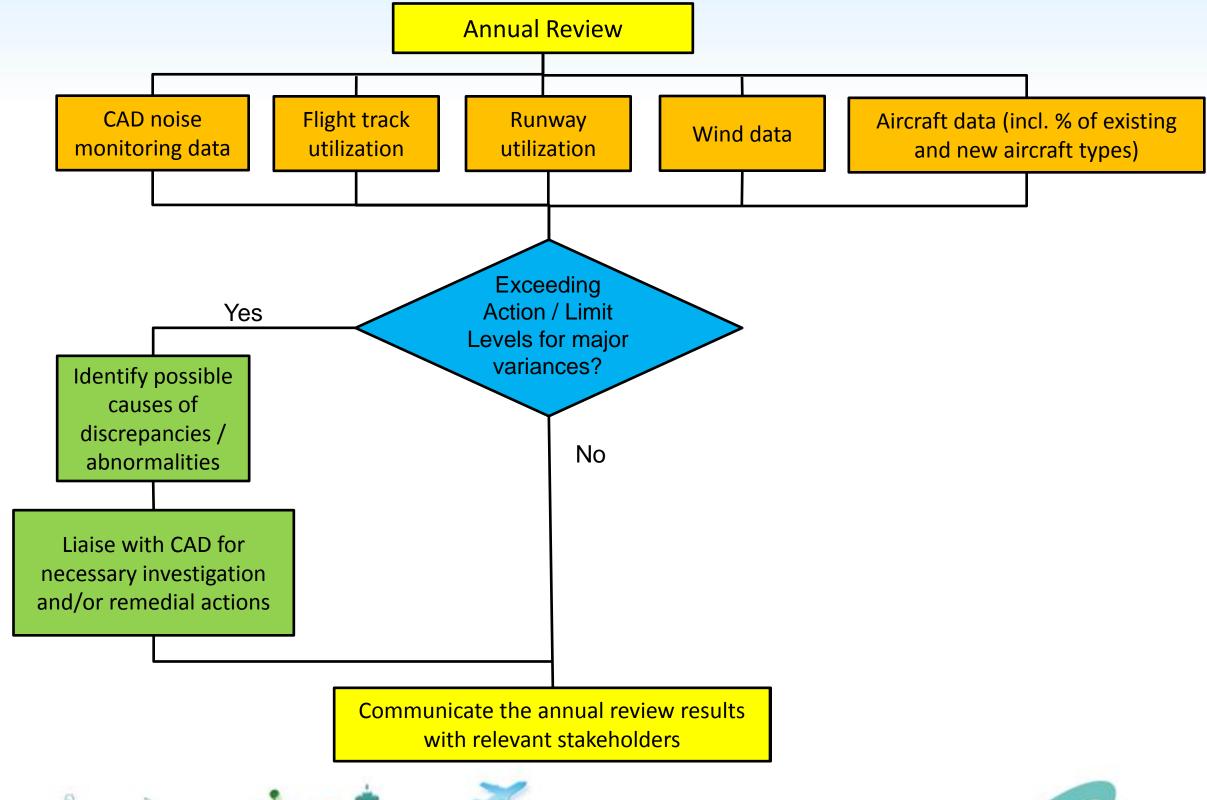




#### **Aircraft Substitution in Noise Modelling**



#### Aircraft Noise EM&A (Annual Review)







#### Thank You



