

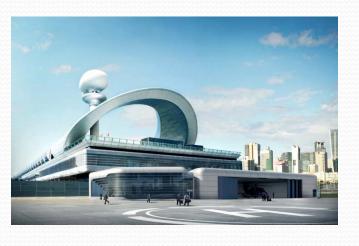
- Brief Members on the <u>site selection</u> and <u>preliminary design</u> of the proposed GFS Kai Tak Division
- Invite Members' views on the proposal as input to the detailed design stage
- Plan to commence the construction of the Kai Tak Division by second half of 2018

Presentation Outline

- Project Background
- Recommended Site at Kai Tak
- Architectural Design Concept







Project Background

Duties and Responsibilities of Government Flying Service (GFS)

- One of the disciplined services in HKSAR Government
- Existing headquarters at Chek Lap Kok HKIA
- Major duties: Casualty evacuation (CASEVAC), search and rescue (SAR), fire fighting, law enforcement operation



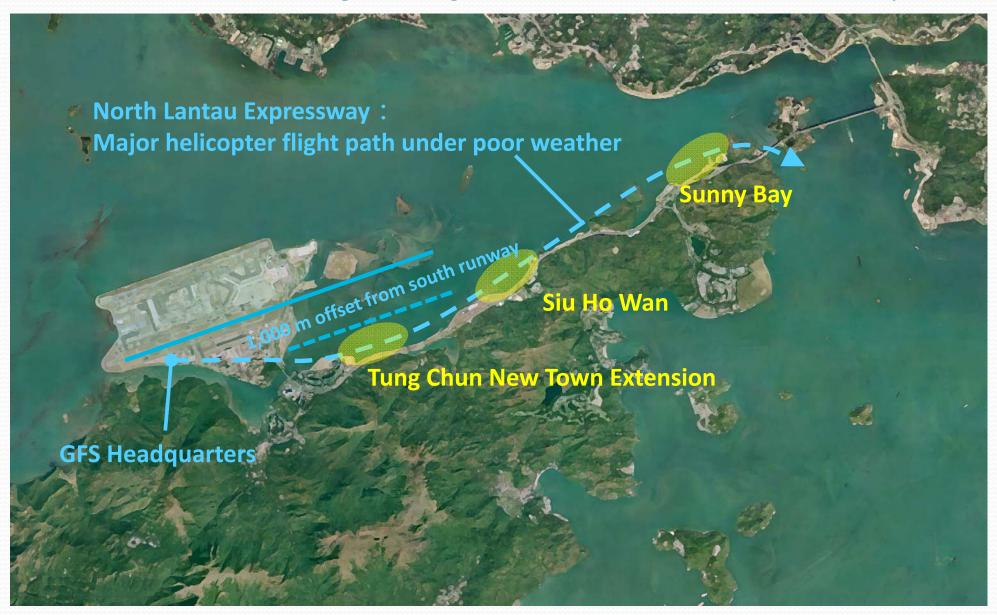






Project Background

Conflict between Existing GFS Flight Path and North Lantau Development



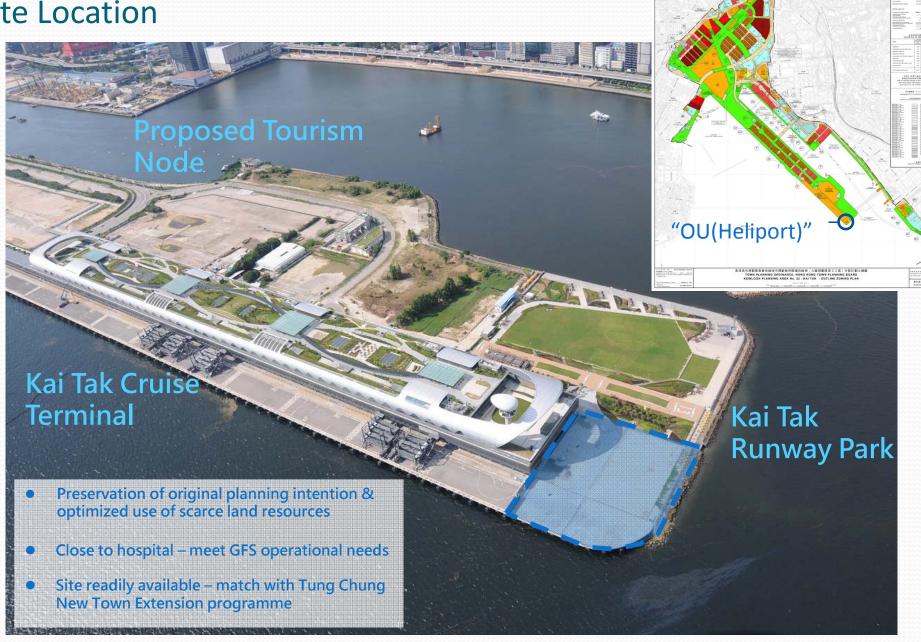
Feasibility Study by CEDD

- Identify a suitable site for establishing a division for GFS
- Various technical considerations: Location, aviation safety, environment, accessibility, planned land use, land availability, etc.

• Study result: **Ex-Kai Tak Runway Tip** is the most suitable site



Site Location





Technical Consideration - Noise Impact Assessment

- Helicopter noise is <u>transient</u> and intermittent
- Number of emergency call-outs: <u>8</u>
 nos. per day only



Technical Consideration - Noise Impact Assessment

- Sufficient separation from residential area. Not Designated Project under EIAO
- Technical assessment: the noise level would not exceed the relevant standards
- GFS will issue procedural guidelines: adopt flight path away from residential area



Technical Consideration - Harbour Planning Principles

- Preserving Victoria Harbour
- Stakeholder Engagement
- Sustainable Development
- Integrated Planning
- Proactive Harbour Enhancement
- Vibrant Harbour
- Accessible Harbour
- Public Enjoyment

Stakeholder Engagement

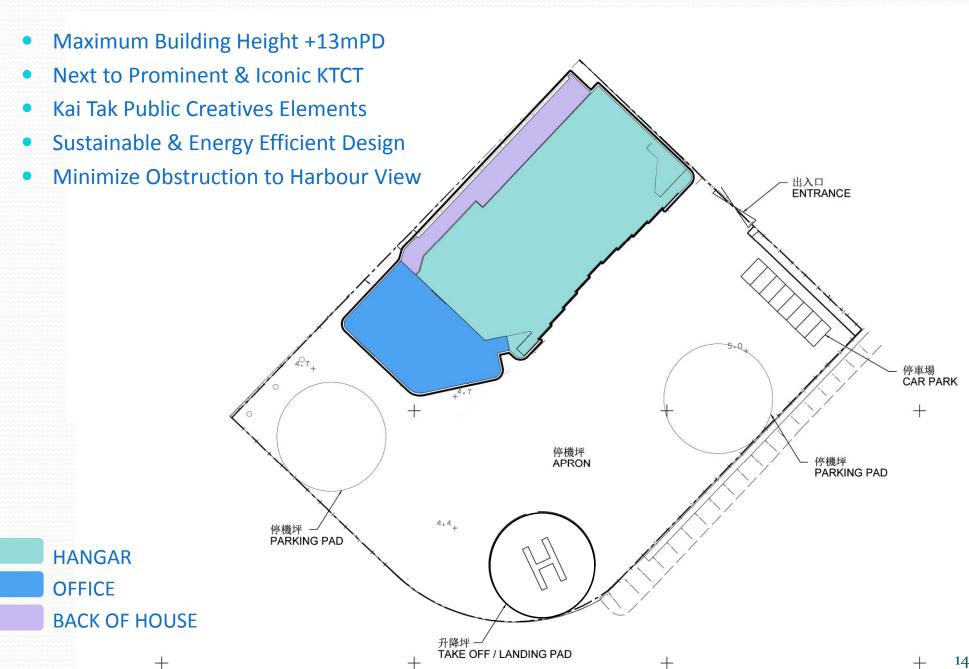
- Consulted with Kowloon City, Wong Tai Sin and Kwun Tong District Councils and obtained their general support on the proposed establishment of the GFS Kai Tak Division
- Organized site visits to GFS Headquarters in HKIA for DC members





Architectural Design Concept

Design Considerations & Constraints



Inspiration



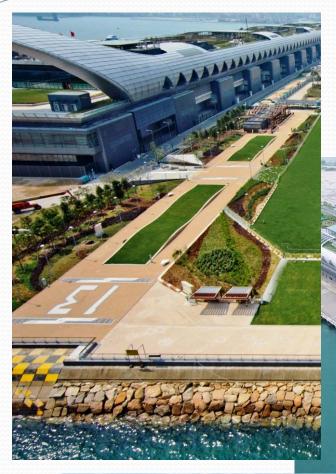


- The hangar takes its inspiration from the smooth aerodynamic forms of helicopter, that has led to a more refined and sleek form.
- The soft rounded corners and the choice of aluminum cladding and glazing of the adjacent office help blend in with cruise terminal.



Integrated Planning

Matches Aviation Theme and Pay Homage to Aviation History







 Marks and celebrates the memory of the old Kai Tak area as an aviation hub that may have otherwise been lost with the new developments.

Sympathetic to Kai Tak Cruise Terminal



Sympathetic to Kai Tak Cruise Terminal

 Structural grid of the façade shading fins, as well as the downwash wall, reflect the curvature & window grid proportion of the KTCT.



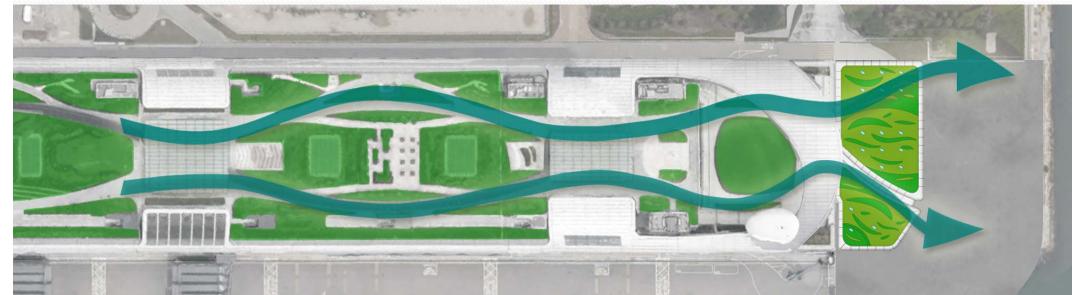
Natural Extension of the Kai Tak Cruise Terminal



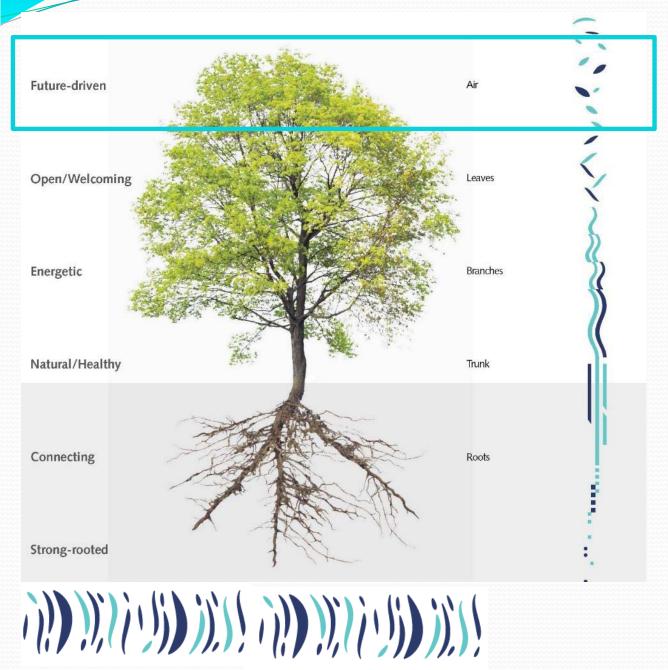
Natural Extension of the Kai Tak Cruise Terminal

- The hangar has a total height of 8m.
 Stepping-down landscape elaborates the overall landscape of KTCT and enhance visual connectivity towards the water border.
- Green roof pattern echoes with the overall landscape language of KTCT.

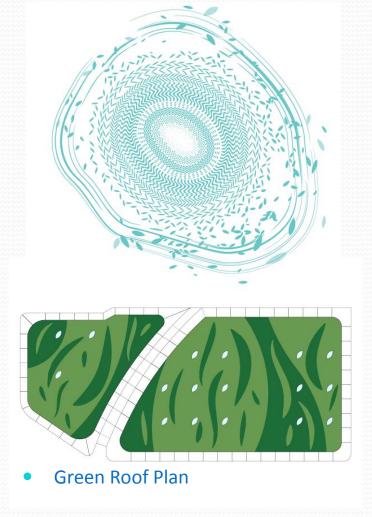




Kai Tak Public Creatives Elements - Current of Vitality Theme



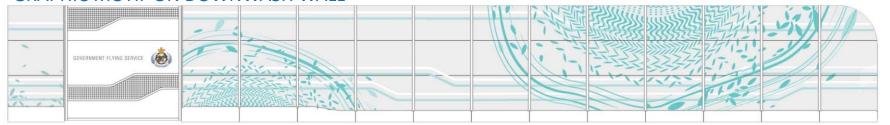
 Kai Tak Public Creatives - Current of Vitality theme promote a "futuredriven" brand personality that is "Energetic, adoptable and State-ofthe-Art"



Kai Tak Public Creatives Elements - Current of Vitality Theme



GRAPHIC MOTIF ON DOWNWASH WALL



Roof Greening

- Green roof to be provided on building & hangar
- Tie in with the **Landscape Master** Plan of KTD

Cruise Termina



Landscape Plan of Kai Tak Development

Roof Greening



• Site Area: 7,400 m²

Roof Area: 2,080 m²

• Green Roof Area: 1,568 m²

• Green Ratio: 21.2%

 The light tube cover glass on rooftop are in the shape of leaves which echoes with the "AIR – Future-driven" theme and imply a sense of dynamic to the overall roof design.





Vibrant & Accessible Harbour

Minimal Intervention

- The site concerned has been reserved for heliport since 2007.
- The proposed GFS Kai Tak
 Division has no intervention to
 the existing accessibility
 condition.
- Minimized visual intervention to the existing sightline at the tip, in particular the open space of KTCT.



Imaginative Future Condition after GFS Division Extension

Vibrant & Accessible Harbour

Minimal Intervention - Access Arrangement

Shing Fung Road

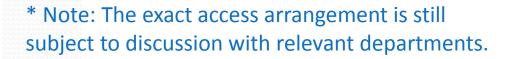
1. Via EVA along Runway Park



2. Via EVA along Cruise Terminal Building

Existing vehicular and pedestrian accesses in the Cruise Terminal will not be affected.

- Kai Tak Division generates very low traffic demand
- No significant impact on traffic network & pedestrians





GFS Kai Tak Division

Public Enjoyment

Minimal Impact to Harbour View



Public Enjoyment

Minimal Impact to Harbour View



Public Enjoyment

Current Arrangement of Wan Chai Helipad near Golden Bauhinia Square





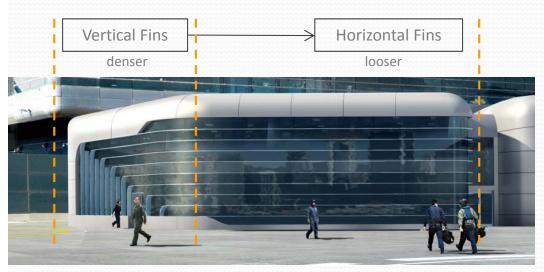


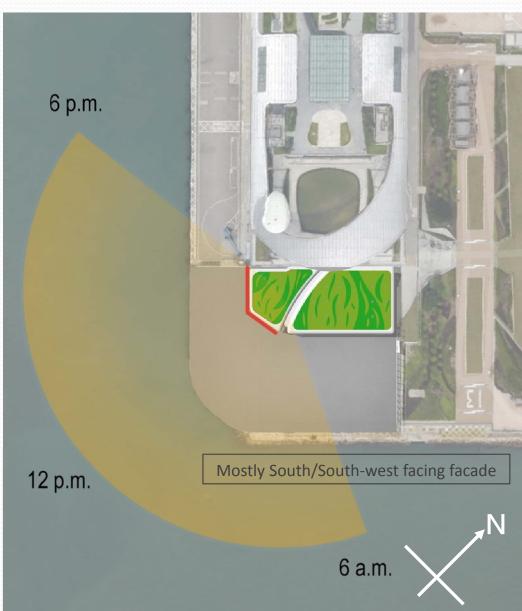


Sustainable Development

Passive Design Approach

- Major office area facing South.
- Denser vertical shading devises on West-facing façade, transforming to horizontal fins on South-facing façade.
- Allows more natural light into interior, but avoiding intensive West sunlight. This favours not only the interior comfort for inhabitants, but also the reduction of electricity consumption for heating/cooling.
- Hence, no reflective glazing is needed, which avoid over-heating to the surrounding and glare to public visitors of the harbour front.



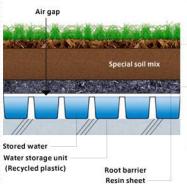


GFS Kai Tak Division

Sustainable Development

Sustainable Design Features







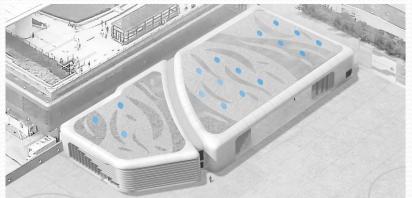
Sophisticated form of regenerated charcoal







GREEN ROOF





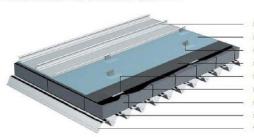
Kalzip Foamglas System with Kalzip AF Profile





LIGHT TUBES





Kabip AF profiled sheet

PE film

Kabip compound clip

Polymer bitumen seal (single layer)

L-shaped claw plate

Hot bitumen top coat

Kabip Foamglas slab

Bitumen seal

Trapezoidal profile



GFS Kai Tak Division



Thank you!