

Low-altitude Economy ("LAE")

- 2024 Chief Executive Policy Address: To develop LAE in Hong Kong
- Working Group on Developing LAE ("Working Group"):
 An inter-departmental Working Group, led by the Deputy Financial Secretary, was set up to facilitate LAE development and planning for low-altitude infrastructure etc.





LAE – The Next Growth Engine

Oyster Farming

- ✓ Supporting Intangible Cultural Heritage Industry
- ✓ Environmental Protection
- ✓ Promoting HK Stories

Building Inspection

- ✓ Improved Safety
- ✓ Cost & Time Efficiency
- ✓ High-Quality Imaging & Data Accuracy







- ✓ Speed & Efficiency
- ✓ Reduced Costs
- √ Expanded Accessibility

Drone Show

✓ Boosting Tourism & Hospitality



Boosting Economic Growth

Ways of Communications for Unmanned Aircraft Systems ("UAS")

- Functions: Remote control, telemetry (e.g., location, altitude, speed, battery status), and payload transmission (e.g. video streaming, survey data)
- Growing trend: Deployment of specific frequency channels in addition to Wi-Fi bands and 4G/5G networks
- Benefits of designated frequency channels:



- ✓ Provide additional exclusive frequency channels to ensure smooth operation of UAS.
- ✓ Avoid interference with other radiocommunications equipment

Channel	Wi-Fi Bands	4G/5G Network	Specific Frequency Channels
Flying Area	Localised	Territory-wide	Localised
Licensing Requirement for Frequency Channels	Licence-exempted (Wi-Fi bands)	Licensed (4G/5G frequency channels)	Licensed (Designated frequency channels)
Usage	Non-exclusive		Private and Exclusive



Mainland's Allocation of the 1.4 GHz Band

- In December 2023, the Ministry of Industry and Information Technology published a document entitled 《民用無人駕駛航空器無線電管理暫行辦法》^ ("Interim Arrangement") with effect from 1 January 2024
- Under the Interim Arrangement, the 1430 1444 MHz ("1.4 GHz") band is designated for use by UAS in the Mainland

民用无人驾驶航空器无线电管理暂行办法

第一章 总则

第一条 为了加强民用无人驾驶航空器无线电管理工作,维护空中电波秩序,保证各种无线电业务的正常进行,促进民用无人驾驶航空器产业高质量发展,依据《中华人民共和国无线电管理条例》《无人驾驶航空器飞行管理暂行条例》《中华人民共和国无线电管制规定》等相关法规,以及有关无线电管理部门规章,制定本办法。

第二条 本办法所称民用无人驾驶航空器,是指没有机 载驾驶员、自备动力系统的民用航空器。

本办法所称微型民用无人驾驶航空器,是指空机重量小于 0.25 千克,最大飞行真高不超过 50 米,最大平飞速度不超过 40 千米/小时,无线电发射设备符合微功率短距离技术要求,全程可以随时人工介入操控的民用无人驾驶航空器。

本办法所称民用无人驾驶航空器通信系统,是指民用无人驾驶航空器以及实现与其有关的遥控、遥测、信息传输功



[^] https://www.srrc.org.cn/kindeditor/attached/file/20231228/20231228091822_5909.pdf

Additional Allocation in Hong Kong

- The 1.4 GHz Band was previously allocated to fixed service only and assigned for fixed links
- The additional allocation of mobile service in the 1.4 GHz band for use by UAS in Hong Kong is in compliance with the Radio Regulations published by the ITU

Region 3 and Hong Kong Allocation of the 1430 – 1444 MHz Band

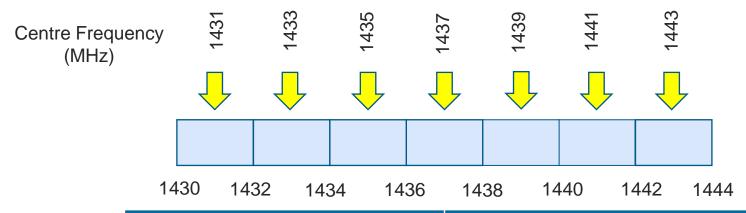
Radio Regulations	Hong Kong Allocation		
Region 3 Allocation	Previous	New	
1430 - 1444 MHz FIXED MOBILE	1430 - 1444 MHz FIXED	1430 - 1444 MHz FIXED MOBILE	

Note: Service in capital letters denotes primary service



Channel Arrangement

- With reference to the Interim Arrangement, the 1.4 GHz band will be divided into seven channels, each with a bandwidth of 2 MHz for use by assignees on a reusable, non-exclusive, geographically sharing and first-come-first served basis
- To ensure equipment availability and spectrum compatibility for supporting LAE applications using UAS, Hong Kong adopts the same channel plan as that of the Mainland in the 1.4 GHz band



Channel Bandwidth	Centre Frequency (MHz)	
2 MHz	1429 + 2n	
Z IVITIZ	where $n = 1, 2, 3, 7$	



LAE Regulatory Sandbox Pilot Projects

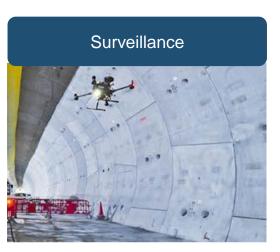


- In March 2025, the Government announced the first batch of LAE Regulatory Sandbox pilot projects ("LAE Projects")
- Covering a wide range of fields and application scenarios, including emergency and rescue, logistics and distribution, inspection and safety maintenance, surveillance and low-altitude infrastructure



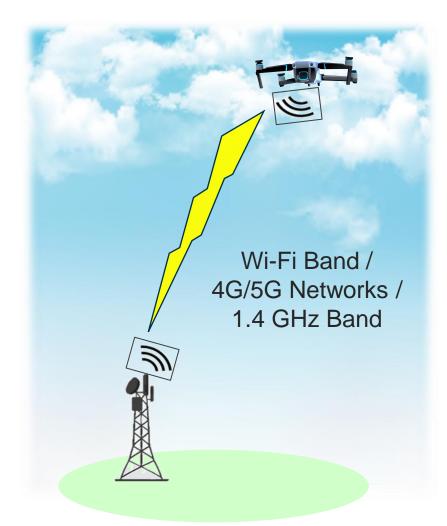








Use of the 1.4 GHz Band in Hong Kong



- The 1.4 GHz band was vacated and additional allocation mobile service in the 1.4 GHz band came into effect in June 2025
- The 1.4 GHz band will be served as a complementary radiocommunications means in addition to Wi-Fi bands and 4G/5G networks for UAS
- A global leading manufacturer of commercial UAS announced that a new UAS model supporting the 1.4 GHz band was developed



Use Case: Modernising Oyster Farming

Deep Bay

- Large-scale oyster farming
- Intangible cultural heritage
 - Using raft culture method to breed and raise oysters







LAE Project

- Drone delivery service for oyster farming
 - Modernising this traditional industry
 - > Enhancing management efficiency
 - Supporting environmental conservation



Use Case: Medical Delivery Service







Cheung Chau Hospital

North Lamma Clinic





LAE Project

- Medical delivery service from urban area (i.e. Cyberport) to outlying islands (i.e. Cheung Chau and Lamma Island)
- To overcome the existing maritime transportation limitations and provide fast logistics services for residents and businesses on outlying islands:
 - Cyberport to Cheung Chau
 - > Maritime: ~ 68 mins
 - > UAS: ~ 22 mins*
 - Cyberport to Lamma Island
 - > Maritime: ~ 39 mins
 - > UAS: ~ 11 mins*
 - * Including the time for take-off and landing of UAS



A LAE-enabling Regulatory Environment

