

促進5G發展

在多段頻帶提供頻譜

5G技術的出現開拓了對服務創新和智慧城市生態系統的變革性機遇，促進多個領域如物聯網、遙距操作、遠程醫療及智能運輸系統等的長足發展。隨着5G在香港獲廣泛使用，流動用戶現可享受到高速、大容量和超可靠連接的優質服務。



香港的5G覆蓋已超過百分之九十九。

5G coverage in Hong Kong has already exceeded 99%.

截至2025年3月底，通訊局已在低、中、高頻帶（包括700兆赫、3.3吉赫、3.5吉赫、4.9吉赫、6／7吉赫，以及26／28吉赫）內指配共3 630兆赫的無線電頻譜作公共流動電訊服務用途，包括提供5G服務。自商用5G服務於2020年4月1日推出以來，香港的5G覆蓋率截至2025年3月底已超過99%，覆蓋所有人口稠密的地區、各大型商場及港鐵站。

● 提供更多5G頻譜以滿足市場需求

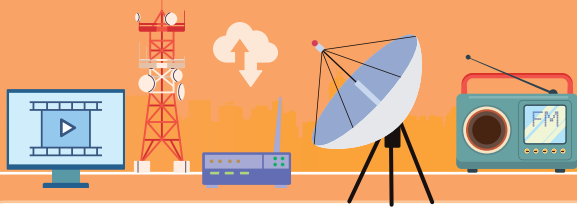
為滿足5G創新應用對速度、容量和覆蓋範圍與日俱增的需求，在通訊辦協助下，通訊局推出更多不同頻帶的頻譜，以滿足市場需求。在2024年11月舉行頻譜拍賣後，首次推出的6／7吉赫頻帶內300兆赫的頻譜已於2025年3月指配予流動網絡營辦商，用作提供公共流動通訊服務。這次供應的6／7吉赫頻帶頻譜適用於現有的5G及未來的6G應用，使香港成為供應相關頻譜作未來6G發展的先行者。通訊辦亦於2024年8月以行政方式指配26／28吉赫頻帶內1 200兆赫的非共用頻譜予流動網絡營辦商，用作提供5G或更先進的流動服務。

● 完成重新指配850／900兆赫和2.3吉赫頻帶內的頻譜

850／900兆赫頻帶內20兆赫頻譜和2.3吉赫頻帶內90兆赫頻譜的現有指配期將分別於2026年5月和2027年3月屆滿。根據2024年11月舉行的頻譜拍賣，重新指配850／900兆赫和2.3吉赫頻帶內的頻譜將分別於2026年6月和2027年3月生效。

● 為重新指配2.5／2.6吉赫頻帶內的頻譜作準備

《2024年施政報告》宣布，政府會繼續適時向市場提供更多合適的無線電頻譜，以支持更廣泛及更先進的通訊科技（包括6G）的應用。2.5／2.6吉赫頻帶內餘下50兆赫頻譜的現有指配期將於2028年5月屆滿。在通訊辦協助下，通訊局與商務及經濟發展局局長於2024年9月就重新指配安排及相關頻譜使用費進行公眾諮詢。根據上述決定，預計有關頻譜將於2025年第四季以拍賣方式重新指配。



Facilitating 5G Developments

Making Spectrum Available in Multiple Frequency Bands

The emergence of 5G technology unlocks transformative opportunities for service innovation and smart city ecosystems, enabling advancements in areas such as the internet of things, remote operations, telemedicine and intelligent transportation systems. With the widespread deployment of 5G in Hong Kong, mobile users now benefit from enhanced services featuring high speed, high capacity and ultra-reliable connectivity.

As of end March 2025, CA had assigned a total of 3 630 MHz of radio spectrum in various low, mid and high frequency bands, namely 700 MHz, 3.3 GHz, 3.5 GHz, 4.9 GHz, 6/7 GHz and 26/28 GHz for public mobile telecommunications use, including the provision of 5G services. Since the launch of commercial 5G services on 1 April 2020, as of end March 2025, 5G coverage in Hong Kong has exceeded 99%, covering all populated districts, major shopping malls and MTR stations.

• Making Available Additional 5G Spectrum to Meet Market Demand

To meet the growing demand for innovative 5G applications in terms of speed, capacity and coverage, OFCA supported CA in making available additional spectrum in different frequency bands to meet market demand. Following the spectrum auction held in November 2024, 300 MHz of spectrum in the newly introduced 6/7 GHz band was assigned to MNOs in March 2025 for the provision of public mobile communications

services. The release of spectrum in the 6/7 GHz band, which is suitable for the current 5G and future 6G deployment, made Hong Kong the first mover in the release of relevant spectrum for future 6G development. OFCA also administratively assigned another 1 200 MHz of the non-shared spectrum in the 26/28 GHz band to MNOs for the provision of 5G or more advanced mobile services in August 2024.

• Completion of Re-assignment of Frequency Spectrum in the 850/900 MHz and 2.3 GHz Bands

The current assignments of 20 MHz of spectrum in the 850/900 MHz band and 90 MHz of spectrum in the 2.3 GHz band are set to expire in May 2026 and March 2027 respectively. Pursuant to the spectrum auction conducted in November 2024, the re-assignment of spectrum in the 850/900 MHz and 2.3 GHz bands will take effect in June 2026 and March 2027 respectively.

• Preparing for Re-assignment of Frequency Spectrum in the 2.5/2.6 GHz Band

As announced in the 2024 Policy Address, the Government will continue to make available more suitable radio spectrum to the market in a timely manner to support a wider and more advanced applications of communications technology (including 6G). The current assignments of the remaining 50 MHz of spectrum in the 2.5/2.6 GHz band will expire in May 2028. OFCA supported CA and Secretary for Commerce and Economic Development in conducting a joint public consultation in September 2024 on the re-assignment arrangements as well as the related spectrum utilization fees. Pursuant to the above decision, the spectrum concerned is targeted to be re-assigned by way of auction in the fourth quarter of 2025.

實施擴展光纖網絡至偏遠地區鄉村資助計劃

為配合政府改善偏遠地區網絡覆蓋的政策，通訊辦繼續推行是項獲撥款港幣7.7億元的資助計劃，為固定網絡營辦商（固網營辦商）提供財政資助，在2026年或之前分階段把光纖網絡擴展至新界及離島九個地區共235條鄉村，惠及約11萬名村民。



通訊辦職員聯同相關固網營辦商代表，就擴展光纖網絡至偏遠地區鄉村資助計劃下安裝的電訊沙井進行驗收工作。

Staff members of OFCA together with representatives from the relevant FNO carrying out acceptance work on a telecommunications manhole installed under the Subsidy Scheme to Extend Fibre-based Networks to Villages in Remote Areas.

該235條鄉村組合成六個投標項目（即投標項目一至投標項目六），於2019年11月至2020年5月期間透過資助計劃悉數批出。獲選的固網營辦商負責鋪設光纖連接線路至相

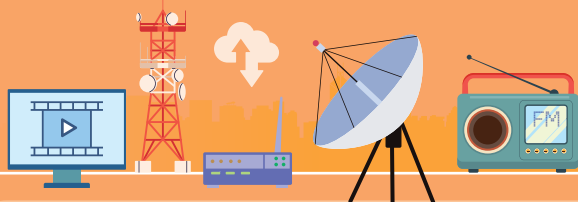
關鄉村，以及鋪設三條海底光纖電纜，分別連接南丫島至香港島（投標項目五）及連接長洲至大嶼山和坪洲至大嶼山（投標項目六）。為促進市場競爭，獲選的固網營辦商須開放在資助計劃下獲資助鋪設的網絡設施，以及海底光纖電纜至少一半的容量予其他固網營辦商免費使用。

截至2025年3月，獲選的固網營辦商已把光纖網絡擴展至超過220條鄉村，並已完成鋪設三條分別連接南丫島、長洲和坪洲的海底光纖電纜。通訊辦會繼續監察資助計劃的推行，光纖網絡預期於2026年或之前擴展至所有資助計劃所涵蓋的鄉村。

光纖網絡擴展工程除了令當地村民可以享用高速固網寬頻服務外，流動網絡營辦商亦可使用新建網絡支援其流動網絡，在有關地區提供包括5G服務在內的高速和創新流動服務。

確保新建樓宇內預留足夠空間及可進入該等樓宇以裝設流動通訊設施

根據經《2024 年電訊（修訂）條例》修訂而於2024年10月1日生效的《電訊條例》第14條，獲通訊局授權的流動網絡營辦商可進入在2025年4月1日或之後獲批建築圖則的指明建築物（包括新建及重建的商業、工業、住宅和旅館建築物）內的預留空間，裝設和維持流動通訊設施而無須向有關土地擁有人繳付費用。另外，新建的政府建築物及公營房屋亦會跟從此安排。有關安排將有助進一步擴展香港的流動網絡覆蓋及容量。通訊辦協助通訊局公布了《在指明建築物內設置流動接達設施以提供公共流動無線電通訊服務的工作守則》，為發展商和流動網絡營辦商訂明有關在指明建築物裝設流動通訊設施的具體要求。通訊辦會繼續支援通訊局處理根據經修訂的《電訊條例》第14條向流動網絡營辦商批出授權的事宜，並與屋宇署及其他相關政府部門緊密合作，確保新安排能夠一致地實施。



Implementation of the Subsidy Scheme to Extend Fibre-based Networks to Villages in Remote Areas

To support the Government's policy initiative to improve network coverage in remote areas, OFCA continued to implement the subsidy scheme with a funding of HK\$770 million to provide financial incentives for fixed network operators (FNOs) to extend fibre-based networks to 235 villages across nine districts in the New Territories and outlying islands in phases by 2026, benefiting approximately 110 000 villagers.

The 235 villages were grouped under six tender projects (namely, Project 1 to Project 6), which were awarded under the subsidy scheme between November 2019 and May 2020. Selected FNOs were entrusted to roll out fibre-based lead-in connections to the villages concerned, and lay three submarine fibre-based cables connecting Lamma Island to Hong Kong Island (under Project 5), as well as Cheung Chau to Lantau Island and Peng Chau to Lantau Island (under Project 6) respectively. To facilitate market competition, the selected FNOs are required to open up at least half of capacity of the network facilities and submarine fibre-based cables subsidised under the subsidy scheme for use by other FNOs free of charge.

As of March 2025, the selected FNOs have extended their fibre-based networks to over 220 villages and completed the rollout of the three submarine fibre cables connecting Lamma Island, Cheung Chau and Peng Chau. OFCA will continue to supervise the implementation of the subsidy scheme, and it is expected that fibre-based networks will be extended to all villages covered by the subsidy scheme by 2026.

With the extension of the fibre-based networks, not only will the villagers concerned be able to enjoy high-speed fixed broadband services, but MNOs will also be able to use the new networks as backhaul for their mobile networks, enabling the provision of high-speed and innovative mobile services, including 5G services, to the areas concerned.

Ensuring Availability of Space in and Access to New Buildings for Installation of Mobile Communications Facilities

Under the amended section 14 of the TO, which took effect on 1 October 2024 pursuant to the enactment of the Telecommunications (Amendment) Ordinance 2024, MNOs authorised by CA can access reserved space in specified buildings (including new and redeveloped commercial, industrial, residential and hotel buildings) with building plans approved on or after 1 April 2025, to install and maintain mobile communications facilities without paying a fee to the land owners concerned. In addition, new government buildings and public housing will also follow suit. The arrangement will help further expand the mobile network coverage and capacity in Hong Kong. OFCA assisted CA in the promulgation of the "Code of Practice for the Provision of Mobile Access Facilities in Specified Buildings for the Provision of Public Mobile Radiocommunications Services", which sets out specific requirements for developers and MNOs regarding the installation of mobile communications facilities in specified buildings. OFCA will continue to support the administration of CA's authorisation to MNOs under the amended section 14 of the TO and work closely with the Buildings Department and other relevant government departments to ensure unified implementation of the new arrangement.

便利5G網絡鋪設

基於5G的特性，我們需要裝設更多基站才能達致全面覆蓋。為求迅速和有效地鋪設5G網絡，通訊辦自2019年3月起推出簡化的申請流程，開放超過1 500個合適的政府場所予流動網絡營辦商安裝基站。通訊辦已成立專責小組，負責協調流動網絡營辦商與相關政府部門，以處理經簡化流程遞交的申請。通訊辦已發出《在選定政府場地安裝無線電基站先導計劃的申請須知》，列明經簡化流程遞交和處理申請的相關原則和要求。為向流動網絡營辦商提供誘因，政府就每個已安裝的基站只收取每年港幣一元的象徵式租金。截至2025年3月，政府在該計劃下共收到252份申請，並已批准當中的139份申請。



通訊辦職員設置路障檢測裝於車輛上的移動無線電系統。

Staff members of OFCA conducting a roadblock operation to inspect the mobile radio station in vehicles.

除政府場所外，政府已設立機制，便利流動網絡營辦商在有上蓋巴士站和公眾收費電話亭設置基站。為便利流動網絡營辦商使用這些設施，通訊辦分別於2020年4月及11月發出了《使用公眾收費電話亭安裝無線電基站以提供公共流動服務的指引》及《使用有上蓋巴士站安裝無線電基站以提供公共流動服務的指引》。截至2025年3月，共有15份在有上蓋巴士站和一份在公眾收費電話亭安裝基站的申請獲批。另外，政府將於不同地區設置多功能智慧燈柱，並預留空間及承載能力供流動網絡營辦商安裝基站，以更廣泛地擴大5G網絡覆蓋。通訊辦會繼續與業界及相關政府部門合作，物色適合設置基站的公眾設施，以及便利營辦商進行技術測試。



通訊辦職員正在為基站附近的居民進行非電離輻射水平測量。

Staff members of OFCA conducting a non-ionising radiation measurement for the residents near RBSs.

與相關機構協調加強大型公眾活動場地的5G網絡容量

《2023年施政報告》宣布，政府會積極與相關機構協調，加強大型公眾活動場地的5G網絡容量。為落實這項措施，通訊辦一直積極與相關持份者（包括政府部門、場地負責人及流動網絡營辦商）協調。截至2025年3月，大型公眾活動場地，包括中環海濱活動空間、香港體育館、香港會議展覽中心、亞洲國際博覽館、維多利亞公園及啟德體育園已完成安裝額外的基站，以加強5G覆蓋及網絡容量。通訊辦會繼續與相關機構協調，提升安裝於大型活動場地的流動通訊設施，以確保市民和參與活動的人士均可享用優質的通訊服務，以及提供高水平的電訊基建設施，鞏固香港作為國際盛事之都的地位。



通訊辦職員於啟德體育園青年運動場舉行欖球測試賽期間測量5G網絡表現。

Staff members of OFCA conducting a measurement on 5G network performance during a rugby test event at the Youth Sports Ground of Kai Tak Sports Park.



Facilitating the Rollout of 5G Networks

Owing to the characteristics of 5G, more RBSs are required to be installed to provide comprehensive coverage. To facilitate the expedient and effective rollout of the 5G network, OFCA has, since March 2019, introduced the streamlined application procedure (SAP) to open up more than 1 500 suitable government premises for MNOs to install RBSs. OFCA has set up a dedicated team to coordinate with MNOs and relevant government departments to process applications under the SAP. OFCA issued the “Guidance Notes for Submission of Applications under the Pilot Scheme for Installation of Radio Base Stations at Selected Government Venues”, setting out the principles and requirements for submitting and processing applications via SAP. As an incentive for MNOs, a nominal rental of HK\$1 per year is charged for each RBS installed. As of March 2025, 252 applications were received under the scheme, of which 139 were approved.

Apart from government premises, the Government has established mechanisms to facilitate MNOs’ installation of RBSs at sheltered bus stops and public payphone kiosks. To facilitate MNOs’ access to these facilities, OFCA issued the “Guidelines on the Use of Public Payphone Kiosks for the Installation of Radio Base Stations for Provision of Public Mobile Services” and the “Guidelines on the Use of Sheltered Bus Stops for the Installation of Radio Base Stations for Provision of Public Mobile Services” in April and November 2020, respectively. As of March 2025, 15 applications for installation of RBS at sheltered bus stops and one application for installation at public payphone kiosks were approved. Moreover, the Government will reserve available space and loading capacity at multi-functional smart lampposts in various districts for RBS installation to further expand the 5G network coverage.

OFCA will continue to work with the industry and relevant government departments in identifying suitable public facilities for RBS installation and facilitating technical trials.

Coordination with Relevant Organisations to Enhance 5G Network Capacity at Major Public Event Venues

The 2023 Policy Address announced that the Government would proactively coordinate with relevant organisations to enhance 5G network capacity at major public event venues. To implement this initiative, OFCA has been actively coordinating with relevant stakeholders, including government departments, venue managers and MNOs. As of March 2025, additional RBSs were installed to enhance 5G coverage and network capacity in major public event venues, including the Central Harbourfront Event Space, Hong Kong Coliseum, Hong Kong Convention and Exhibition Centre, AsiaWorld-Expo, Victoria Park and Kai Tak Sports Park. OFCA will continue to coordinate with relevant organisations to enhance mobile communications facilities at major event venues to ensure that the public and event participants can enjoy quality communications services and to provide high-level telecommunications infrastructure that reinforces Hong Kong’s position as an international hub for mega events.



通訊辦職員監察啟德體育園壓力測試中觀眾離場時的5G網絡表現。

Staff members of OFCA monitoring 5G performance when spectators leaving Kai Tak Sports Park in a stress test event.

擴展5G網絡至鄉郊及偏遠地區資助計劃

《2023年施政報告》宣布，政府會透過資助加快擴展鄉郊及偏遠地區的流動網絡基礎設施，以加強5G網絡覆蓋。為推展有關措施，通訊辦已就推出擴展5G網絡至鄉郊及偏遠地區資助計劃的建議框架及選址完成業界和地區諮詢。資助計劃為流動網絡營辦商提供財政誘因，鼓勵他們在約50個選址設置基站，藉此加強郊野公園、離島，以及其他鄉郊及偏遠地區的流動通訊網絡覆蓋，務求改善這些地區的生活質素並保障鄉郊活動的安全。



通訊辦職員向北區鄉事委員會介紹擴展5G網絡至鄉郊及偏遠地區資助計劃的建議框架。

Staff members of OFCA introducing the proposed framework for the Subsidy Scheme to Extend 5G Coverage to Rural and Remote Areas to the Rural Committees of North District.

待立法會批准有關撥款（約港幣1.5億元），通訊辦將於2025年7月推出資助計劃。通訊辦會發出申請指引，列明流動網絡營辦商在該計劃下申請資助的詳細程序，以及流動網絡營辦商所需履行的責任。通訊辦將密切監察資助計劃的實施。所有在資助計劃下獲批的基站，預計可於計劃推出後的四年內完成建設並陸續投入服務。

撤銷大埔的「3.5吉赫限制區」

自3.4—3.6吉赫（3.5吉赫）頻帶於2020年4月1日起由固定衛星服務重新編配予流動服務後，大埔及赤柱設立了兩個限制區，以確保5G服務與在同一頻帶和相鄰頻帶操作的

遙測、追蹤及控制在軌持牌衛星的衛星地球站（遙測、追蹤及控制站）並存。在通訊辦的協助下，一家衛星營辦商已獲批土地將其在大埔於3.5吉赫頻帶內運作的遙測、追蹤及控制站遷往春坎角電訊港，而另一家衛星營辦商則已承諾在其衛星設施安裝衛星帶通濾波器，以防止無線電干擾。該遙測、追蹤及控制站的搬遷工作已於2024年10月完成，大埔的「3.5吉赫限制區」其後亦已於2024年10月31日撤銷。

確保適時供應合適頻譜滿足新興無線電通訊服務的需要

通訊辦一直緊貼全球電訊業的發展趨勢，並參與國際電聯、亞太地區電信組織及其他組織舉辦的相關國際／地區會議。通訊辦亦與香港業界人士保持密切溝通，掌握電訊業的發展。通訊辦協助通訊局根據國際電聯於2023年舉行的世界無線電通信大會的會議結果，為香港的相關無線電通訊服務編配額外頻帶。此外，通訊局參考通訊辦的建議後，於2025年7月公布2025至2027年的頻譜供應表，向業界公布未來三年擬供應作公共流動及／或其他無線電通訊服務的無線電頻譜。通訊辦會因應市場發展，繼續協助通訊局確保適時向業界供應額外的頻譜。



通訊辦職員正調查一宗無線電干擾事宜。

Staff members of OFCA investigating a radio interference incident.



Subsidy Scheme to Extend 5G Coverage in Rural and Remote Areas

The 2023 Policy Address announced that the Government would enhance 5G coverage by expediting the expansion of mobile network infrastructure in rural and remote areas through subsidies. To take forward the initiative, OFCA completed the industry and local consultations on the proposed framework and site locations for a subsidy scheme to extend 5G coverage in rural and remote areas. The subsidy scheme will provide financial incentive to MNOs to encourage them to install RBSs at about 50 sites to enhance mobile network coverage in country parks, outlying islands, and other rural and remote areas, with a view to improving the quality of life in these areas and safeguarding the safety of rural activities.

Upon approval of the relevant funding (around HK\$150 million) by the LegCo, OFCA will launch the subsidy scheme in July 2025. Application guidelines, setting out detailed procedures for MNOs to submit applications for subsidy under the scheme and MNOs' obligations, will be issued. OFCA will closely monitor the implementation of the subsidy scheme. It is expected that all RBSs under the subsidy scheme will be installed and put into service progressively within four years after the launch of the subsidy scheme.

Lifting the "3.5 GHz Restriction Zone" in Tai Po

Following the reallocation of the 3.4 – 3.6 GHz (3.5 GHz) band from fixed satellite service to mobile service with effect from 1 April 2020, two restriction zones in Tai Po and Stanley were delineated to ensure the coexistence of 5G services and the earth stations for telemetry,

tracking, and control of the licensed satellites in orbit (TT&C stations) operating in the same and adjacent bands. With OFCA's assistance, one satellite operator has been granted a land lot for relocating its TT&C stations in the 3.5 GHz band from Tai Po to the Teleport, while another satellite operator has undertaken to install satellite band-pass filters at its satellite facilities to prevent radio interference. As the relocation of the TT&C stations was completed in October 2024, the "3.5 GHz restriction zone" in Tai Po was lifted with effect from 31 October 2024.

Ensuring Timely Supply of Suitable Spectrum to Meet the Needs of Emerging New Radiocommunications Services

OFCA has kept up with worldwide development trends in telecommunications and participates in related international/regional meetings of the ITU, Asia-Pacific Telecommunity, and other organisations. OFCA has also maintained close dialogue with industry players in Hong Kong to keep abreast of the development of the telecommunications industry. OFCA assisted CA in allocating additional frequency bands to relevant radiocommunications services in Hong Kong in accordance with the outcomes of the World Radiocommunication Conference of the ITU in 2023. In addition, based on OFCA's recommendations, CA will issue the Spectrum Release Plan for 2025 to 2027 in July 2025 to inform the industry of the potential supply of spectrum for the provision of public mobile and/or other radiocommunications services over the next three years. Taking note of market developments, OFCA will continue to assist CA in ensuring the timely supply of additional spectrum to the industry.

實施電話智能卡實名登記制

根據《電訊（登記用戶識別卡）規例》（第106AI章），實名登記制自2023年2月起全面實施。根據規定，所有在本地發出及使用的電話智能卡（包括上台月費服務及電話儲值卡）均須於啟動服務前完成實名登記。通訊局已發出《實施電話智能卡實名登記制度的指引》（《實名登記指引》），為電訊商履行實名登記制提供指引及詳細要求。



通訊辦於2024年9月27日聯同數字政策辦公室在旺角進行實名登記制宣傳教育活動，提醒市民切勿購買已登記的電話儲值卡。

OFCA and the Digital Policy Office jointly conducted a publicity and education activity on the RNR Programme in Mong Kok on 27 September 2024 to remind members of the public not to purchase registered PPS cards.

自實名登記制全面實施以來，通訊辦持續進行監察及執法工作，確保電訊商及其他相關人士合乎《電訊（登記用戶識別卡）規例》（第106AI章）及《實名登記指引》的要求。通訊辦與電訊商保持合作，提醒電訊商需優化其登記平台及加強檢查登記記錄，其中包括於2024年10月1日起採用「智方便」作為香港身份證持有人進行電話儲值卡實名登記的預設登記方式。至於非持有香港身份證人士在網上登記平台進行實名登記的電話儲值卡，電訊商會在用戶完成實名登記後以人手核查系統內登記人提供的證件資料

的真偽。如有發現未能遵從合規要求的電話儲值卡（例如懷疑使用偽冒證件進行登記等），電訊商會取消有關的電話儲值卡的登記。

通訊辦會繼續與電訊商合作，就已登記的用戶資料進行抽樣檢查，以確保有關登記記錄完整可靠。通訊辦會繼續採取執法及監察行動，包括核實電訊商的登記平台、進行突擊市場巡查及檢查有關登記記錄，亦會持續推行宣傳工作以提升公眾對實名登記制規定的認識。

通訊辦現正支援商經局檢討實名登記制的實施情況，以期向立法會提交相關法例修訂以供審議。我們亦會視乎立法建議修訂相關指引、舉辦相關宣傳活動，以及與執法機關和電訊商緊密合作，以確保優化後的實名登記制順利實施。





Implementation of Real-name Registration Programme for SIM Cards

Pursuant to the Telecommunications (Registration of SIM Cards) Regulation (Cap. 106AI), the RNR Programme has been fully implemented since February 2023. It requires that all SIM cards issued and used locally (including SIM service plans and PPS cards) must complete real-name registration before service activation. CA has issued the “Guidelines on Implementation of Real-name Registration for SIM Cards” (the RNR Guidelines) to provide guidance and detailed requirements of the RNR Programme for TSPs.

Since the full implementation of the RNR Programme, OFCA has carried out ongoing monitoring and enforcement actions to ensure that TSPs and other relevant parties comply with the requirements of the Telecommunications (Registration of SIM Cards) Regulation (Cap. 106AI) and the RNR Guidelines. OFCA has

worked with TSPs, reminding them to enhance their registration platforms and strengthen the inspection of registration records. Among others, they have adopted “iAM Smart” as the default registration method for Hong Kong identity card holders in completing real-name registration of PPS cards starting from 1 October 2024. For PPS cards with registration made by non-HKID holders via the online registration platform, TSPs will conduct manual checking to verify the authenticity of the identification documents of the users after their completion of RNR. If any registration of PPS cards are found to be non-compliant with the regulatory requirements (e.g. suspected use of forged documents for registration), the relevant PPS cards will be deactivated by TSPs.

OFCA will continue to work with TSPs to conduct sample checks on registration information to safeguard the integrity of the registration records. OFCA will continue enforcement and monitoring actions, including verification of TSPs’ registration platforms, ad hoc market surveillances, and inspection of registration records. Ongoing publicity efforts will also be arranged to raise public awareness of the requirements of the RNR Programme.

OFCA is providing support to CEDB in reviewing the implementation of the RNR Programme, with a view to introducing the relevant legislative amendments into LegCo for scrutiny. Subject to the legislative proposals, we will also revise the relevant guidelines, mount the publicity campaign as well as work closely with the enforcement agencies and TSPs to ensure smooth implementation of the strengthened RNR Programme.



通訊辦職員就電訊商提供的實名登記制平台進行定期測試。

Staff members of OFCA conducting a regular check on the RNR Programme platforms provided by TSPs.

打擊詐騙電話和訊息

通訊辦一直與電訊業和警方緊密合作，制定和實施多項技術措施，合力打擊透過電訊網絡傳送的詐騙電話和訊息。自2023／24年度起，電訊業已開始實施措施，攔截源自境外以「+852」開首的可疑來電，以及在流動服務用戶接聽該等「+852」開首的來電前發送話音或文字訊息提示。截至2025年3月，電訊商已攔截約530萬個以「+852」開首的可疑來電，而流動服務供應商亦已就「+852」來電發送超過3 000萬個話音或文字訊息提示。



通訊辦推出宣傳短片提醒市民防範可疑來電。

OFCA launched short videos to remind the public of staying vigilant against suspicious calls.

此外，通訊辦制定了業務守則，要求電訊商分別由2023年6月底和2024年8月開始，監察自其網絡打出的電話及發出的短訊。若識別出懷疑詐騙電話的致電模式或詐騙短訊的發出模式，有關電話號碼的服務將被暫停。截至2025年3月，約有140萬個本地電話號碼按業務守則被暫停服務。通訊辦亦於2024年10月發出業務守則向電訊商提供實務指引，讓電訊商透過其宣傳渠道和宣傳方式向香港的公共電訊服務用戶發布防電騙訊息。

為進一步協助市民防範可疑來電，自2024年12月31日起，當本地流動及固網用戶接聽由新啟動流動電話儲值卡打出的電話時，流動服務供應商會先播放以廣東話及普通話讀出「來電由新儲值卡打出」的話音提示，然後

才會接通電話。截至2025年3月，流動服務供應商已播放約1 480萬個話音提示。

實施短訊發送人登記制

為協助市民識別短訊發送人的真實身分，通訊辦與電訊業、銀行業及警方合作，設立短訊發送人登記制。在登記制下，「已獲認證的發送人」須使用以「#」號開頭的「已登記的短訊發送人名稱」發出短訊予本地流動服務用戶。



短訊發送人登記制於2024年2月起開放予各行業加入。

The SMS Sender Registration Scheme has opened for application by all sectors starting from February 2024.

所有其他並非由「已獲認證的發送人」經香港的流動服務供應商發出而發送人名稱含「#」號的短訊，均會被電訊網絡攔截。登記制於2023年12月28日開始實施，並於2024年2月起開放予各行業加入。主要電訊商、銀行、政府部門、法定組織、各行業（例如公用事業、零售、教育、保險及信貸財務等）的公司及機構已陸續加入登記制。截至2025年3月，已有超過490間公司及機構參與登記制。通訊辦會繼續推廣登記制和鼓勵更多行業及機構加入。

實施《保護關鍵基礎設施（電腦系統）條例》（第653章）

立法會於2025年3月19日通過《保護關鍵基礎設施（電腦系統）條例草案》。該條例旨在落實《2023年施政報告》提出就關鍵基礎設施的網絡安全立法，目前該條例指明通訊局為電訊業及廣播業的指定當局。《保護關鍵基礎設施（電腦系統）條例》（第653章）將於2026年1月1日開始實施，通訊辦會為條例的實施安排向通訊局提供支援。



Tackling Fraudulent Calls and Messages

OFCA has been working closely with the telecommunications industry and the Police to devise and implement a variety of technical measures against fraudulent calls and messages delivered through telecommunications networks. Since 2023/24, the telecommunications industry has implemented measures to block suspicious calls prefixed with “+852” originating from outside Hong Kong, as well as to send voice or text alerts to mobile service users before receiving such calls prefixed with “+852”. As of March 2025, TSPs had blocked about 5.3 million suspicious calls prefixed with “+852”, and mobile service providers had issued more than 30 million “+852” voice or text alerts.

Besides, OFCA formulated a code of practice requiring TSPs to monitor calls and SMS originating from their networks since end June 2023 and August 2024, respectively. Should call or SMS patterns indicate suspected phone deception, the services of the relevant telephone numbers will be suspended. As of March 2025, about 1.4 million local telephone numbers had been suspended in accordance with the code of practice. OFCA also issued a code of practice in October 2024 to provide practical guidance to TSPs for promulgating anti-scam messages to subscribers of public telecommunications services in Hong Kong through their publicity channels and means.

To further assist the public in staying vigilant against suspicious calls, starting from 31 December 2024, when local mobile and fixed services users answer calls from newly activated mobile PPS cards, mobile service providers will first play a voice alert stating “Call made from a new pre-paid SIM card” in Cantonese and Putonghua before connecting the call. As of March 2025, mobile service providers had played about 14.8 million voice alerts.

Implementation of the SMS Sender Registration Scheme

To help the public verify the authenticity of SMS senders, OFCA collaborated with the telecommunications industry, the banking industry and the Police to establish the SMS Sender Registration Scheme. Under the scheme, Registered Senders must use Registered SMS Sender IDs with the prefix “#” to send SMS messages to local mobile service subscribers.

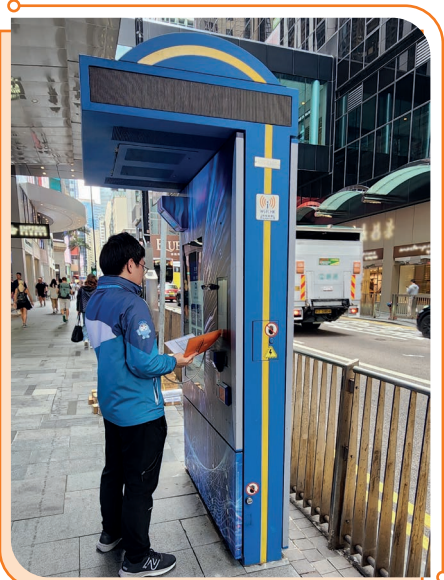
All other SMS messages sent via mobile service providers in Hong Kong with sender IDs containing “#” but not sent by Registered Senders will be blocked by the telecommunications networks. The scheme has been implemented since 28 December 2023, and was open for application by all sectors starting from February 2024. Major TSPs, banks, government departments, statutory bodies, companies and organisations from various sectors (e.g. public utilities, retail, education, insurance and credit finance, etc.) have joined the scheme progressively. As of March 2025, more than 490 companies and organisations had participated in the scheme. OFCA will continue to publicise the scheme and encourage more industries and organisations to join.

Implementation of Protection of Critical Infrastructures (Computer Systems) Ordinance (Cap. 653)

LegCo passed the Protection of Critical Infrastructures (Computer Systems) Bill on 19 March 2025. The Ordinance aims to implement the 2023 Policy Address initiative to legislate for cybersecurity of critical infrastructure, under which CA is being specified as the designated authority for the telecommunications and broadcasting sectors. The Protection of Critical Infrastructures (Computer Systems) Ordinance (Cap. 653) will come into operation on 1 January 2026. OFCA will support CA on the implementation arrangements of the Ordinance.

智能收費電話亭測試

在通訊辦及其他政府部門的支持下，香港電話有限公司及 Hong Kong Telecommunications (HKT) Limited 於2023年3月展開智能收費電話亭（智能電話亭）測試，活化傳統的公眾收費電話機電話亭。兩個智能電話亭已分別於2023年4月及5月安裝在銅鑼灣及中環作測試用途。除了公眾收費電話及免費WiFi服務外，智能電話亭亦提供其他資訊服務，例如交通服務及周邊公共設施、社會福利服務聯絡資料、照顧者小貼士、新聞和最新天氣報告，以及設有USB充電接口，供市民免費使用。通訊辦會繼續為有關測試提供協調支援。



通訊辦職員在中環測試智能電話亭的服務。

A staff member of OFCA testing Smart Kiosk services in Central.

固網寬頻服務的發展

隨着固網營辦商持續擴展網絡，香港的寬頻服務滲透率已達到極高水平。截至2025年3月，香港有約三百萬住宅及商業固網寬頻用戶，住戶寬頻滲透率已超越97%，當中約87%的住戶享用由光纖網絡提供的固網寬頻服務。具體而言，超過71%的住戶使用速度達每秒1吉比特或以上的固網寬頻服務。

根據歐洲光纖到戶議會於2025年3月發出的報告，香港住戶連接光纖到戶／光纖到樓的滲透率，在全球參與評比的86個經濟體系當中排名第五。

協助新的海底電纜系統在香港登陸

香港是主要的區域電訊樞紐，具備可靠優良的對外電訊基礎設施，現有12個海底電纜系統及10枚通訊衛星提供對外通訊服務。通訊辦一直協助營辦商向相關政府部門取得在香港鋪設及登陸新海底電纜系統的法定許可。透過通訊辦提供的一站式支援，多個新的區域及洲際海底電纜系統正在興建，並擬於2025年至2029年期間陸續投入服務。

評估用作電訊用途的批地使用情況

通訊辦一直就政府評估用作電話機樓及其他電訊相關設施的批地使用情況，向政府提供技術支援和意見。

改善多類牌照的發牌制度

為配合政府有關改善規管措施以提升香港競爭力的政策，通訊辦協助通訊局改善四類牌照的發牌制度，包括船舶電台牌照、無線電廣播轉播電台牌照、酒店電視（發送）牌照和衛星電視共用天線牌照，將有關牌照的有效期由一年延長至兩年。是項變更旨在加強規管的確定性。兩年期的牌照安排自2024年3月起生效，通訊辦會在2025至2026年將有關安排擴展至根據《電訊條例》簽發的其他類型牌照。

香港衛星網絡的發展

由於衛星頻譜和軌道位置屬稀有和珍貴的資源，通訊衛星在使用該等資源時須符合國際電聯的協調及通知規定。通訊辦支援衛星營辦商與外國當局協調，並協助處理有關操作在軌衛星的牌照事宜。截至2025年3月底，有三家衛星營辦商獲發牌在港追蹤、控制及進行遙測合共十枚在軌對地靜止衛星。



通訊辦職員正在檢查衛星電視天線系統。

Staff members of OFCA conducting an inspection on SMATV systems.



Trial of Smart Payphone Kiosks

With the support of OFCA and other government departments, PCCW-HKT Telephone Limited and Hong Kong Telecommunications (HKT) Limited launched a trial of smart payphone kiosks (Smart Kiosks) in March 2023 to revitalise traditional kiosk-type public payphones. Two trial Smart Kiosks were installed in Causeway Bay and Central in April and May 2023, respectively. Apart from public payphone and free WiFi services, the Smart Kiosks also provide information services such as transportation and nearby public facilities, contact information for social welfare services, tips for caregivers, and news and weather updates, as well as a USB charging port available to the public free of charge. OFCA will continue to provide coordination support for the trial.

Development of Fixed Broadband Services

Along with the ongoing network expansion of FNOs, Hong Kong has achieved a high level of broadband service penetration. As of March 2025, there were around three million residential and commercial fixed broadband subscriptions, with a household penetration rate exceeding 97%. Among these, around 87% of households were enjoying fixed broadband services via optical fibre. In particular, over 71% of households were using fixed broadband services at the speed of 1 Gbps or above.

According to a report issued by the Fibre to the Home Council Europe in March 2025, among the 86 economies under comparison, Hong Kong ranked fifth worldwide in fibre-to-home/building household penetration.

Facilitating the Landing of New Submarine Cable Systems in Hong Kong

Being a major regional telecommunications hub with sound and excellent external telecommunications infrastructure, Hong Kong has 12 submarine cable systems and operates 10 satellites for external communications. OFCA has been facilitating operators in obtaining statutory approvals for the laying and landing of new submarine cable

systems in Hong Kong from relevant government departments. With the support of OFCA's single-point-of-contact service, several new regional and transcontinental submarine cable systems are under construction and are scheduled to be put into service between 2025 and 2029.

Assessing the Use of the Sites Granted for Telecommunications Use

OFCA has been providing technical support and advice to the Government on assessing the use of sites granted for telephone exchanges and other telecommunications-related facilities.

Enhancement of Licensing Regime for Various Types of Licences

To align with the Government's policy to improve regulatory measures with a view to enhancing Hong Kong's competitiveness, OFCA supported CA in enhancing the licensing regime for four types of licences, namely Ship Station Licence, Broadcast Radio Relay Station Licence, Hotel Television (Transmission) Licence and Satellite Master Antenna Television Licence, by extending the validity period of these licences from one year to two years. This change aims to enhance regulatory certainty for the licensees. This two-year licensing arrangement took effect from March 2024. OFCA will extend this arrangement to other types of licences issued under the TO in 2025 to 2026.

Development of Hong Kong's Satellite Networks

Since satellite spectrum and orbital positions are scarce and invaluable resources, their use by communications satellites should comply with the coordination and notification requirements of ITU. OFCA supports satellite operators in coordinating with foreign administrations and assists in processing licences for the operation of satellites in space orbits. As of end March 2025, three satellite operators were licensed in Hong Kong to track, control and conduct telemetry for a total of ten geostationary satellites in orbit.

制訂和執行電訊標準

通訊辦一直緊貼電訊技術標準化的國際發展趨勢，並更新本地技術標準，以滿足業界和公眾需要。在2024／25年度，通訊局批准和發出了一項新技術標準，並對三項技術標準作出修訂，涵蓋公共流動服務的基站、WiFi設備和無線器件的輻射安全。

現時，合資格的本地和海外測試實驗室根據通訊局訂定的技術標準為多種電訊設備提供測試和驗證服務。其中，獲通訊局認可為本地認證機構的本地實驗室更可提供全面的電訊設備測試和驗證服務。在2024／25年度，本地和海外認證機構簽發了630份設備認證，以滿足電訊設備市場需求。

為確保所有提供電訊設備測試和驗證服務的本地認證機構符合所要求的服務質素及表現標準，通訊辦會繼續透過定期查核文件、進行實地視察和檢查工作，密切監察認證機構的表現。目前，所有本地認證機構的表現均符合通訊辦所訂明的要求。

簡化申請營辦低軌衛星的牌照審批流程

在香港現行法例要求下，衛星營辦商須為每顆在本港營辦的衛星取得由行政長官根據《外層空間條例》（第523章）發出的外層空間牌照，以及由通訊局根據《電訊條例》

發出的空間站傳送者牌照。由於低軌衛星以一個星座運作，每個星座由數以十計或百計的低軌衛星組成，因此有需要考慮如何就低軌衛星實際情況制訂發牌安排。

《2024年施政報告》和《2025至26年度財政預算案》公布，政府會研究簡化申請營辦低軌衛星的牌照審批流程，目的是提升香港在全球衛星通訊市場的吸引力及競爭力。通訊辦正協助商經局於2025年完成有關研究工作。

支持低空經濟發展

低空經濟是指於1 000米以下空域進行的經濟活動，現正在不同領域如空中監測、無人機送貨、地形勘測及驗樓等創造新的可能性。根據《2024年施政報告》，政府成立了工作組，制訂發展策略和跨部門工作計劃，並先以低空經濟應用項目為起點。通訊辦正積極參與工作組的相關工作，並從電訊角度為低空經濟的發展提供支援。

在各項基建設施當中，公共流動網絡是推動低空飛行活動不可或缺的一部分。現時用作航拍或表演用途的無人機，一般可使用已指配作無線區域網絡用途的2.4吉赫及5吉赫共用頻帶，或連接第四代（4G）或5G流動網絡作遙控、數據傳輸及定位用途。通訊辦會繼續密切留意內地及世界各地電訊市場的發展，包括指定專供無人機使用的專用頻帶，以確保本港的頻譜規劃與內地及其他先進經濟體一致，從而促進低空經濟活動在香港的發展。





Setting and Enforcing Telecommunications Standards

OFCA keeps abreast of international developments in telecommunications standardisation and updates local technical standards in order to meet the needs of the industry and the public. In 2024/25, one new technical standard and three revised technical standards – governing RBSs for public mobile services, WiFi equipment and radiation safety of wireless devices – were approved and issued by CA.

Qualified local and overseas testing laboratories now provide testing and certification services for various types of telecommunications equipment in accordance with technical standards prescribed by CA. In particular, a full range of telecommunications equipment testing and certification services is offered by local laboratories accredited by CA as local certification bodies (LCBs). In 2024/25, LCBs and foreign certification bodies issued 630 equipment certificates to meet the needs of the telecommunications equipment market.

To ensure that all LCBs providing telecommunications equipment testing and certification services meet the required service quality and performance standards, OFCA will continue to closely monitor their performance through regular documentary checks, on-site visits and reviews. So far, all LCBs have complied with the requirements set by OFCA.

Streamlining the Vetting Procedures of Licence Applications for Operating LEO Satellites

Under current statutory requirements in Hong Kong, satellite operators are required to obtain the Outer Space Licence (OSL) issued by the Chief Executive under the Outer Space Ordinance (Cap. 523) and the Space Station Carrier Licence (SSCL) issued by CA under the TO for each satellite operated in Hong Kong. Since

LEO satellites are operated in constellation that comprising tens or hundreds of LEO satellites, there is a need to consider how the licensing arrangements will be formulated based on the actual circumstances of LEO satellites.

The 2024 Policy Address and the 2025-26 Budget announced that the Government would conduct a study on streamlining the vetting procedures of licence applications for operating LEO satellites. The aim is to enhance Hong Kong's attractiveness and competitiveness in the global satellite communications market. OFCA has been assisting CEDB in completing the study by 2025.

Support on Development of LAE

LAE, which refers to economic activities taking place in airspace below 1 000 metres, is creating new possibilities in areas such as aerial surveillance, drone delivery, terrain mapping and building inspection. Under the 2024 Policy Address, the Government has established the WG to formulate development strategies and inter-departmental action plans, starting with projects on low-altitude applications. OFCA actively participated in the WG and contributed from the telecommunications perspective to support the development of LAE.

Among the various infrastructure facilities, public mobile network is an indispensable part for promoting low-altitude flying activities. At present, unmanned aircrafts for aerial photography or performances can generally use the shared 2.4 GHz and 5 GHz bands assigned for wireless local area networks, or the fourth generation (4G) or 5G mobile networks for remote control, data transmission, and positioning purposes. OFCA will continue to closely monitor telecommunications market developments in the Mainland and worldwide, including the designation of dedicated spectrum bands for the exclusive use by UAS, so as to ensure that the spectrum planning in Hong Kong aligns with the Mainland and other advanced economies, thereby promoting the development of LAE activities in Hong Kong.