

New Opportunities under the 5G Generation

5G 浪潮下的新機遇

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With the full-speed development of digital technology, intelligent connectivity is no longer out of reach. The day has finally come to 5G's long-awaited rollout. Worldwide consumers and enterprises yearn for benefits and opportunities presented by 5G such as extremely fast speed, reduced latency and the ability to link people worldwide seamlessly.

隨著數碼科技發展日新月異，昨日遙不可及的網路與科技已經正式融入我們的生活。在 5G 科技浪潮下，全球消費者和企業都期望可以透過使用 5G 技術，享受秒速網絡，體驗極速連接效果及極短的延遲時間。面對全球急促城市化及都市發展，香港作為國際化都會，將如何坐擁優勢，運用 5G 技術來提升及鞏固其領先的地位呢？



Under the rapid urbanization and global development, as a top leading cosmopolitan city, how will Hong Kong enhance and consolidate its leading position by utilizing 5G technology?

Through combining 4G LTE spectrum and millimeter-wave (mmWave) technology, 5G provides excellent data transmission rate in different environments, connects large-scale equipment effectively and increases system capacity. 5G features higher speed, lower latency and larger capacity. Therefore, it is very suitable and essential for applications in low latency and high bandwidth fields, such as augmented reality, autonomous vehicles, industrial robots, smart buildings, cloud systems, etc.

With the rapid development of 'Big Data', '5G communications' and 'The Internet of Things'(IoT), many market reports indicate that the usage of 5G network connection will experience a sudden increase in demand in coming years. 5G will bring innovative breakthroughs and applications to public as well as private corporations in the fields of education, economy, transportation, medical care, and crisis management. Digital economy will become mainstream. The massive amount of data generated by autonomous business, remote work, remote access, etc. will

5G 採用 4G LTE 頻段及毫米波技術，能在不同的環境下提供卓越的資料傳輸速率，並有效連接大規模設備和提高系統容量。5G 技術的三大特點是極高速率，極低時延和極大容量，因此十分適合應用於低延遲及高頻寬的領域，例如擴增實境、自動駕駛車、工業機器人、智慧建築、雲端系統等。

在大數據時代、5G 無線網絡及物聯網高速演進下，多份市場分析報告均指出未來幾年 5G 網絡連接的使用率將會出現爆炸性增長。5G 將在教育、經濟、運輸、醫療和危機管理等領域為公、私機構帶來創新的突破及應用，重大改變資訊社會未來的生活方式。由於數碼經濟將變成主流，因此自動化商務、遙距工作、遠端存取等所產生的海量數據傳輸及分析將會令香港對資訊流通量的需求大幅上升。而在數據儲存及保安上，本地的數據中心扮演十分重要的角色。

continue to grow. The increase in demand of data analysis and information transmission will attract and generate significant needs for data centre services. In terms of data storage and security, local data centres play a very important role.

High quality telecommunication infrastructures form the backbone of 5G connectivity and advanced mobility solutions. Towngas Telecommunications Company Limited (TGT) reaps the advantage of colossal gas pipe network in Hong Kong to install optical fibres within gas pipes via Glass-In-Gas (GIG) technology and empowers higher performance and improved efficiency of 5G. In order to echo with the 'Internet +' era, TGT provides reputable corporations, international network service providers, and professional clients with diversified services such as 100Gbps point-to-point fibre links, Internet Connectivity, etc. TGT's strong IP Backbone network is connected to major telecommunication providers around the world. It offers clients minimum latency, maximum bandwidth and guarantees the most reliable and cost-effective connectivity.

In order to boost Hong Kong's development in APAC Data Centre Market and strengthen its global partnership opportunities, TGT established of numerous TIA-942 Rated 3+ world-class data centres that connect Hong Kong and major economic areas in the Mainland. It provides customers with professional management services and reliable cloud computing services. Together with the other two TGT's data centres in Hong Kong, TGT can accommodate up to 30,000 server racks. As one of the leading data centre infrastructure providers, TGT's data centres are in compliance with HKSAR Government's Level II Security Guidelines and other international standards such as ISO14001, ISO20000, ISO27001, CSA Star, FISC and GB50174-2018.

Looking ahead to the global future development, digital transformation will no wonder become the new normal of our future society. It is hoped that through the revolution of 5G and IoT, combined with reliable telecommunications infrastructure and various innovative technologies, Hong Kong will move to modernized development and become the most cosmopolitan and vibrant city in Asia. ●



5G 極速傳輸速率絕對講求基礎設施的穩定性及安全性，名氣通電訊有限公司（名氣通）憑藉「煤氣管道光纖技術」Glass-In-Gas (GIG)，將光纖隔於具有高度保護性的管層中，使光纖網絡不易受外界環境影響，為極高速率、極低時延的 5G 提供強大的後盾。順應「互聯網+」時代的發展，名氣通為多間著名企業、國際級網絡服務商及專業客戶提供多元化的網絡通訊服務，例如高達 100Gbps 點對點網絡方案、互聯網連接服務等。其強大的 IP 骨幹網絡接通到世界各地的主要電訊商，為客戶提供可靠及高成本效益的跨網絡國際互聯網 IP 傳輸，進一步幫助企業用戶進行數位化轉型。

為推動香港成為亞洲重點數據中心及國際合作夥伴，名氣通在香港及內地設立多個參照 TIA-942 Rated 3+ 等級的數據中心機房，為客戶提供針對性的專業管理服務及可靠雲計算服務，包括香港兩家數據中心在內，名氣通目前所有的數據中心機房可容納 30,000 多個機櫃。作為出色的中立電訊基建供應商，名氣通的數據中心具有優質管理體系，符合香港政府第二級保安指引，更獲得多個國際標準認證如 ISO14001、ISO20000、ISO27001、CSA Star、FISC、GB50174-2018 等。

綜觀全球市場發展趨勢，「數位轉型」將成為未來社會的新常態。期望透過全力推動 5G 和物聯網的發展，結合穩定的電訊基建及具前瞻性的智能創新科技，未來的香港將會成為科技全面化的國際都會，邁向現代化數碼新時代。 ●

