

The future of banking

Hong Kong Banking Report 2019

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The age of the 'data culture' is here

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Introduction

In this year's annual Banking Report we take our traditional look back at the results of banks in 2018, but also take some time to look forward and set out our thinking on the Future of Banking. We believe the focus for banks in Hong Kong now should firmly be on what the Future of Banking looks like and how they can position themselves to be successful in a rapidly changing environment. The speed of change in the sector is being shaped by four key factors.

Firstly, the underlying performance of banks – margins are being squeezed and costs continue to be a focus – means that banks need to think about different business and operating models if they want to be successful in the future. In addition to this, changing customer expectations, the increasing volume and importance of data and the rise of technology as an enabler to transform business models are also changing the sector.

In 2018, banks in the city generally benefited from increasing margins which drove profitability. After several years of reducing or stagnant margins, in 2018 we saw an increase as banks benefited from interest rate rises in the US. However, global uncertainty has changed market sentiment and further rate hikes are unlikely. In fact, we may even see rate cutes before the end of 2019, which could cause margins to shrink again.

We have also seen costs slightly increase across the sector with increasing investment in technology. This was offset by the credit quality of banks remaining stable, indicating that banks could perhaps take more sensible risks.

We believe that banks need to look more closely at how they operate and interact with their customers to achieve more profitable growth. With consumer expectations continuing to rapidly evolve, customer experience remains absolutely critical for the long-term success of banks. Service providers in other sectors continue to raise the bar for customer experience, leading consumers to increasingly demand a similar user experience when it comes to banking. If banks do not provide this experience then customers may be more open to using new entrants to the sector, such as the new virtual banks.

Many banks have traditionally designed processes and procedures around meeting regulatory obligations and/or risk management outcomes, rather than around how to best serve the customer. We believe that the banks that can redesign their existing processes and operating model with the desired customer interaction and experience at the heart of it all will be successful.

Part of this improved customer experience will be how banks use data. The volume and velocity of data continues to increase exponentially. Data is a crucial asset for banks and a key driver of the future of banking. Financial institutions therefore need to seek to improve how they use and monetise their data to better serve their customers, as well as how to utilise data to better manage risk. We believe that it is now more important than ever for banks to embed a 'data culture' throughout their organisation in order to unlock the true value of their technologies and meet customer expectations.

However, in order to fully harness their data and improve the effectiveness of their digital strategy, banks need to first ensure that they implement robust and appropriate governance and infrastructure. This is an area where we continue to see banks struggle due to legacy systems. Importantly, it is not just about getting it right once. Banks need to have a sustainable platform, governance and associated processes to ensure that their data is maintained at a high level to enable them to better serve their customers.

The last force shaping the Future of Banking is the enabling use of technology. Technologies such as artificial intelligence (AI) and automation are becoming increasingly available to help enable some of the customer-driven changes to banks' business and operating models and to improve profitability. While many institutions view technology and automation as a way to reduce costs and improve quality, we believe the real value is in helping to deliver services faster and better, a key demand from consumers.

Looking forward to 2019, we expect to see greater pressure on margins, and uncertainty and geopolitical tensions contributing to more muted growth of balance sheets as corporates become more cautious in their outlook. Coupled with increasing costs, 2019 could be a challenging year for banks in Hong Kong. Nonetheless, there continues to be a number of opportunities for growth. The ongoing development of the Greater Bay Area for example provides an avenue of growth for Hong Kong banks in the coming years.

Clearly the industry is going through significant change, and we expect to see the factors discussed above shape the Future of Banking in Hong Kong. It is no coincidence that at the same time we have seen virtual bank licences recently being issued in Hong Kong, with these new players preparing to launch later this year. Time will tell as to how successful the new virtual banks will be in Hong Kong. However, what is clear is that they will be a major driver of change and improve competition in the sector, forcing traditional banks to innovate and improve their service offering. This will all be for the benefit of the customer, who stand to be the real winners.

I hope you enjoy our perspective on the sector in 2019, and would welcome the opportunity to discuss the banking results and the current industry landscape.

Overview



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¹ The analysis is based on financial institutions registered with the Hong Kong Monetary Authority.

² The top 10 locally incorporated licensed banks mentioned in this article are the 10 banks with the highest total assets among all locally incorporated banks as at 31 December 2018. Hong Kong's banking sector showed resilience in 2018, with stable capital and liquidity performance and strengthening profitability. Subsequent to the strong global economic environment which brought growth to Hong Kong's banking sector in 2017, the pace of global economic growth in 2018 moderated as challenges arising from international trade tensions created uncertainty. In 2018 the Hong Kong economy grew by 3 percent, compared to 3.8 percent growth in 2017. Despite the slight deceleration in macro-economic indicators, Hong Kong's banking sector managed to maintain its strength which is reflected in the overall performance by licensed banks. The total assets of all licensed banks grew by 3.6 percent compared to growth of 8.1 percent in 2017. The operating profit before impairment charges of all licensed banks increased by 15 percent to HK\$268 billion from HK\$234 billion in 2017.

After many years of reducing or stagnant interest margins, 2018 was the year when US interest rates started to rise which flowed through to stronger income for Hong Kong banks. However, global uncertainty has changed sentiment and further rises are unlikely, and we may see some of the improved net interest margin (NIM) reverse in 2019.

In Hong Kong, digital innovation has become a new focus for the sector. Following the virtual bank licenses granted by the Hong Kong Monetary Authority (HKMA) in the first half of 2019, it is expected that a new banking experience will be brought to customers in Hong Kong. This will initially focus on retail customers and small and medium enterprises, offering basic banking services. However, we expect that the services provided will quickly become more sophisticated and that traditional banks will respond. This will increase the quality of services in Hong Kong and foster a much more competitive and innovative environment.

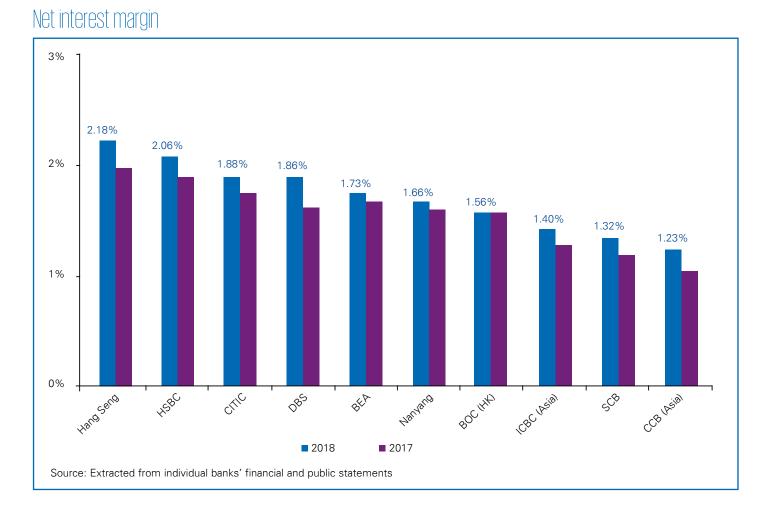
In this report we present an analysis¹ of some key metrics for the top 10 locally incorporated licensed banks² in Hong Kong. Please note we have conducted this analysis on a legal entity basis and where banks have a dual entity structure in Hong Kong (e.g. a branch and an incorporated authorised institution), we have not combined the results.

Net interest margin

With four interest rate hikes by the US Federal Reserve in March, June, September and December 2018 increasing the US benchmark interest rate by 1 percent in 2018, the HKMA Base Rate was also adjusted upward from 1.75 percent in 2017 to 2.75 percent. However, retail deposit rates in Hong Kong remained relatively low and adjusted upward during the second half of 2018 resulting in a slower pace in the upward trend of the funding costs. This contributed to the improved NIM³ and profitability of the surveyed banks.

The average NIM across the surveyed licensed banks increased by 11 basis points compared to 2017. The average NIM for the top 10 licensed banks for 2018 increased to 1.69 percent compared to 1.54 percent for 2017. Nine out of the top 10 banks posted an increase in NIM. Hang Seng Bank Limited (Hang Seng) and The Hongkong and Shanghai Banking Corporation Limited (HSBC)⁴ continued to post the highest NIM among the top 10 locally licensed banks as at 31 December 2018.

Hang Seng's NIM improved to 2.18 percent (increase of 24 basis points compared with 2017) which was largely due to the improvement in deposit spreads as a result of rises in Hong Kong dollar and US dollar interest rates. HSBC's NIM increased to 2.06 percent (an increase of 18 basis points compared with 2017), mainly due to higher margins from Hong Kong and mainland China activities. For HSBC, an improvement was noted in Hong Kong activities with an increase of 0.25 percent in the related NIM mainly driven by the widened customer deposit spreads, the change in asset portfolio composite due to customer lending growth, and higher re-investment yields brought by higher interest rates. The NIM in HSBC's mainland China activities also increased, contributed by higher yields from portfolio mix changes and improved lending spreads and customer deposit spreads.⁵



³ NIM is either quoted from public announcements of financial statements, or calculated based on annualised net interest income and interest-bearing assets or total assets, depending on the availability of information. ⁴ HSBC consolidated results include Hang Seng and its other

- ASBC consolidated results include Hang Seng and its other Asia operations.
 ⁵ HSBC 2018 Annual Report and Accounts - p.10
- https://www.hsbc.com.hk/content/dam/hsbc/hk/docs/legal/ regulatory-disclosures/annual-report-and-accounts-2018.pdf

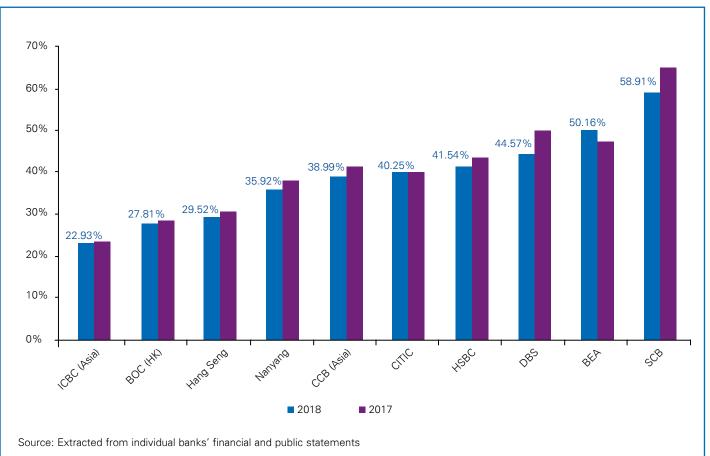
Among the top 10 locally incorporated banks, DBS Bank (Hong Kong) Limited (DBS) recorded the largest increase in NIM (27 basis points) due to higher interest yields as they booked financial assets with longer tenor. The NIM of Bank of China (Hong Kong) Limited (BOC (HK)) remained flat in 2018 compared to 2017. We noted a slight increase in the proportion of short-term financial assets which may have offset any NIM benefit from rising rates. None of the top 10 locally incorporated banks experienced a drop in NIM.

Looking forward to 2019, sentiment has shifted from the expectation of further rate increases in the US to the likelihood of no rate increases and potentially a reduction in 2019. Coupled with the effect of the newly licensed virtual banks, which could lead to price competition for deposits later in the year, 2019 could be a year of renewed pressure on NIM in Hong Kong.

Costs

In recent years, operating cost management has become a critical focus for banks in Hong Kong in monitoring and improving profitability as revenue growth has been challenging in recent years. In 2018 there was an increase in the overall operating expense for banks in Hong Kong, with an increase of 7 percent in the total operating cost of the surveyed licensed banks. The average cost-toincome ratio of the surveyed banks for the year ended 2018 stood at 44 percent, increasing from 42.5 percent in 2017.

The top 10 surveyed banks showed an increase in total operating income of 12.8 percent, partly off-set by a 7.63 percent increase in the total operating expense. The average cost-to-income ratio of these top 10 licensed banks for the year ended 2018 improved to 39.06 percent from 40.86 percent in 2017.



Cost-to-income ratios

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Nanyang Commercial Bank Limited (Nanyang) recorded the largest increase in operating costs of 13.64 percent in 2018, which was mainly due to an increase in staff costs.⁶ DBS also recorded a large increase in operating costs of 13.18 percent in 2018. The increase is driven by the increase in staff costs and costs related to premises and equipment. Nevertheless, DBS's cost-to-income ratio fell by 5.6 percent to 44.6 percent due to robust growth in income.⁷ Among the top 10 surveyed banks, Standard Chartered Bank (Hong Kong) Limited (SCB) remained the only bank recording a slight decrease in operating costs of 0.1 percent and decrease in cost-to-income ratio of 6.4 percent during 2018, indicating improved operating cost management.

Hang Seng recorded an increase of 13 percent in operating costs, related to staff costs and investment in technology.⁸

Among the top 10 locally incorporated banks, The Bank of East Asia Limited (BEA) was the only bank with an increase in cost-to-income ratio in 2018. The cost-to-income ratio of BEA increased by 2.75 percent, from 47.4 percent to 50.2 percent, mainly attributed by a 0.3 percent increase in operating income, versus a 6.15 percent increase in operating expenses, mainly attributed by the increase in staff costs and expenses incurred for new business initiatives.⁹ ICBC (Asia) continued to have the lowest cost-to-income ratio of 22.9 percent in 2018, with a decrease in cost-to-income ratio by 0.5 percent compared with 2017.

We forecast increases in technology spend in 2019 to drive growth through innovation and to sustainably reduce operating costs in the longer term. Given increasing competition for customers, we believe that targeted spending on innovation and improving customer experience is necessary to drive income growth. Banks that think about this holistically and adopt and automate processes around improved customer experience are more likely to reduce costs sustainably in the longer run.

Loans and advances

In view of the strong improvement in gross loans and advances in 2017, total loans and advances managed stable growth amid the global economic uncertainties of 2018. As at the end of 2018, the total loans and advances of the surveyed banks increased by 3.5 percent compared to 2017. Compared to prior years the growth has decelerated compared to the growth of 14.9 percent in 2017.

Total loans and advances reached HK\$9,028 billion as at 31 December 2018, up from last year's total of HK\$8,725 billion. Commercial loans, mortgage lending and loans for use outside Hong Kong continue to represent 88 percent of total loans, consistent with 2017.

Loans for use outside Hong Kong represent the largest portion of total loans and advances, taking up 35.9 percent of total loans and advances, a slight increase from 32.4 percent in 2017. The second largest portion is commercial loans with 34.3 percent of total loans and advances, a slight decrease from 37.4 percent in 2017. There was an increase in the proportion of mortgages from 17.6 percent in 2017 to 17.9 percent in 2018. Credit card, other personal loans and trade finance accounted for 1.9 percent, 4.9 percent, and 5.2 percent respectively at the end of 2018.

HSBC and BOC (HK) continue to be the dominant players in the lending market, constituting 53.5 percent of the total loans outstanding as at 31 December 2018.

- ⁶ Nanyang 2018 Annual report p. 206
- https://vpr.hkma.gov.hk/doc/100060/ar_18/ar_18.pdf ⁷ DBS 2018 Annual Report - p.6 https://www.dbs.com/iwov-resources/pdf/
- hongkong/2018AnnualReport_en.pdf ⁸ Hang Seng 2018 Annual Report - p.9, 33

https://www.hangseng.com/cms/fin/file/statement/ar_2018_ full_en.pdf

BEA 2018 Annual report – p.22 https://www.hkbea.com/pdf/en/about-bea/investorcommunication/annual-and-interim-reports/2018/E_2018%20 Annual%20Report.odf ¹⁰ HSBC Annual Report 2018 - p. 10 https://www.hsbc.com.hk/content/dam/hsbc/hk/docs/legal/ regulatory-disclosures/annual-report-and-accounts-2018.pdf

¹¹ BOC (HK) 2018 Annual report – p.29 https://www.bochk.com/dam/bochk/desktop/top/aboutus/ir/ docs/finreport/bochkholdings/2018ar/e_Annual_Report_2018. pdf

¹² CCB (Asia) 2018 Announcement – p.2 http://www.asia.ccb.com/hongkong/doc/about_us/

¹³ Hang Seng 2018 Annual report – p.20 https://www.hangseng.com/cms/fin/file/statement/ar_2018_ full en.pdf Among the top 10 surveyed banks, the gross loans and advances increased from HK\$7,644 billion to HK\$8,068 billion, a growth of 5.55 percent compared to 2017. Apart from China Construction Bank (Asia) Corporation Limited (CCB), which experienced a drop of 11.29 percent in gross loans and advances in 2018, all the other top 10 surveyed banks recorded an increase in gross loans and advances.

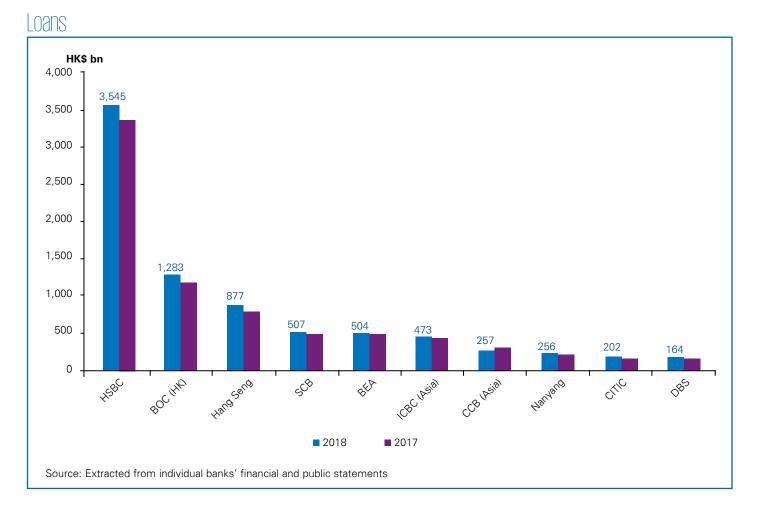
HSBC's gross loans and advances increased by 6.08 percent to HK\$3,545 billion, largely driven by an increase in corporate lending and mortgages, together with a growth in loans and advances to customers in mainland China, Australia, Singapore, Taiwan and Malaysia.¹⁰

BOC (HK)'s gross loans and advances increased by 8.23 percent to HK\$1,283 billion in 2018. The bank continued to capture the opportunities from the Belt and Road Initiative and other development plans.¹¹

CCB experienced a drop of 11.29 percent in gross loans and advances, mainly contributed by a contraction of loans to the Hong Kong subsidiaries of mainland China corporates, and some reclassification of customer loans under new HKFRS 9 requirements to financial assets at fair value through profit or loss.¹²

Among the top 10 surveyed banks, Hang Seng achieved the most significant increase in gross loans and advances of 8.53 percent as at 31 December 2018. The increase of HK\$69 billion, from HK\$808 billion in 2017 to HK\$877 billion in 2018 was mainly contributed by growth in both commercial and retail lending.¹³

ICBC (Asia) experienced the lowest growth in its loan portfolio, with an increase in gross loans and advances of 2.54 percent in 2018. The bank's gross loans and advances balance increased from HK\$461 billion at the end of 2017 to HK\$473 billion as at the end of 2018.



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newsroom/20180430-financial-results.pdf

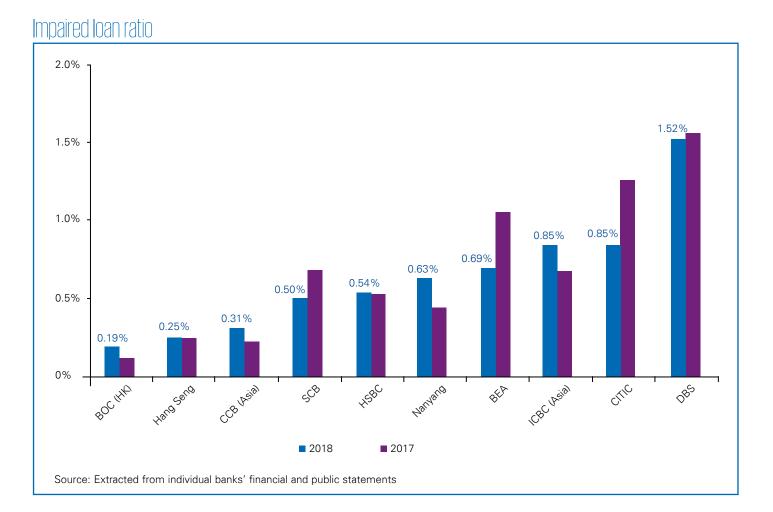
Credit quality

In spite of the global economic and political uncertainties, credit quality remained stable in 2018 among surveyed banks. On the whole, the impaired loan ratio¹⁴ for banks in Hong Kong remained stable in 2018 and the credit quality of banks remained sound. The average impaired ratio of the surveyed banks improved from 0.51 percent in 2017 to 0.50 percent as at the end of 2018.

For the top 10 surveyed banks, the average impaired loan ratio stood at 0.63 percent for 2018, remaining stable with a slight decrease from 0.68 percent in 2017. Among the top 10 surveyed banks, China CITIC Bank International Limited (CITIC) showed the most significant improvement, from 1.26 percent in 2017 to 0.85 percent in 2018. This resulted from continuous prudent management in the bank's loan portfolio and replacement of higher risk loans with more secured asset-backed loans.¹⁵

DBS has been showing continuous steady improvement in credit quality, reflected by a further decrease of 0.05 percent in the impaired loan ratio from 1.57 percent in 2017 to 1.52 percent in 2018. This was attributed to the improvement in the building and construction sector (2018: 0.36%; 2017: 0.88%), the general commerce sector (2018: 2.9%; 2017: 3.41%), and the manufacturing sector (2018: 3.32%; 2017: 3.76%).¹⁶

BEA also showed a significant improvement in credit quality with an improvement of 0.37 percent in its impaired loan ratio from 1.06 percent in 2017 to 0.69 percent in 2018. Under the bank's initiative to reduce stressed loan exposures and prioritise asset quality over quantity, steady improvement has been reflected by the decrease in the impaired loan ratio.¹⁷



¹⁵ CITIC 2018 Annual report – p.20 https://www.cncbinternational.com/_document/about-us/ interim-and-annual-reports/en/2018/annual_report.pdf

¹⁴ Impaired loan ratio is calculated as impaired loans and advances divided by gross loans and advances to customers.

¹⁶ DBS 2018 Annual report – p.48 https://www.dbs.com/iwov-resources/pdf/

hongkong/2018AnnualReport_en.pdf ¹⁷ BEA 2018 Annual report – p. 20

https://www.hkbea.com/pdf/en/about-bea/investorcommunication/annual-and-interim-reports/2018/E_2018%20 Annual%20Report.pdf

Non-bank mainland China exposure

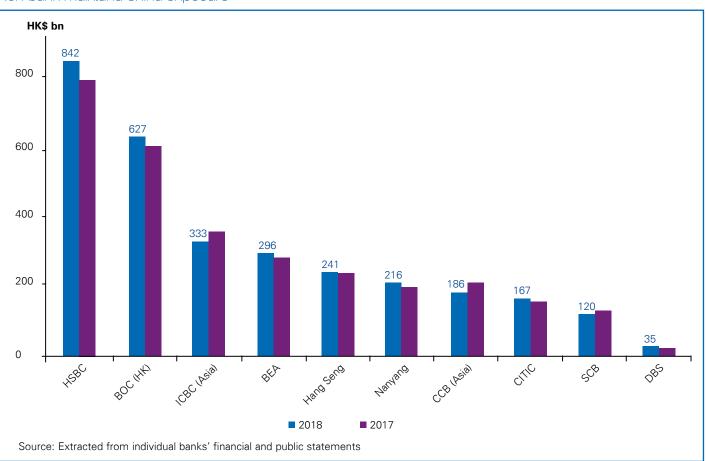
The exposure to non-bank mainland China-related business of the surveyed banks increased by 4 percent as at the end of 2018, which reflected a decelerated growth in the current year compared to 15 percent growth in 2017.

In aggregate, non-bank mainland China exposure for the top 10 surveyed banks grew by 2 percent in 2018. Most of the top 10 banks recorded growth in non-bank mainland China exposure. This growth was primarily attributed to the double-digit growth of HSBC, BOC (HK), BEA and DBS. This trend has been consistent since 2017.

Among the top 10 surveyed banks, HSBC reported the highest growth in the amount of non-bank mainland China exposure which showed an increase of 6.53 percent amounting to HK\$52 billion, to HK\$842 billion in 2018. DBS reported the highest growth percentage in non-bank mainland China business with the exposure increasing by 35.87 percent to HK\$35 billion in 2018. Of the top 10 surveyed banks, seven of them maintained growth in non-bank mainland China exposures, while CCB, ICBC (Asia) and SCB experienced decreases of 13.7 percent, 7 percent and 8.72 percent, respectively.

In view of the cautious monitoring and management of mainland China exposures by banks in Hong Kong, the growth in non-bank mainland China exposures is following a trend of deceleration.

In 2019 we may see this reverse, particularly with increasingly closer links between Hong Kong and the rest of the Greater Bay Area which would increase non-bank mainland China exposure.



Non-bank mainland China exposure

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Future business modes

Digital Banking



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What will it take to win in the age of digital banking?

Hong Kong is set to witness the launch of its first virtual banks following the recent issuance of eight licences by the Hong Kong Monetary Authority (HKMA). These new players are expected to broaden the selection of banking options, foster innovation and enhance customer experience in the city. Moreover, the new entrants will be vying to increase their market share and customer base, while the incumbent traditional banks will seek to maintain their standing in the market. Navigating this competitive landscape will require new ways of thinking and new strategies to enhance the overall banking experience and to win over customers.

The unbundling and rebundling of banking services

In the longer term, the development of virtual banking in Hong Kong forms part of a larger 'unbundling' story in the banking sector. Many new fintech firms – and now the virtual banks – focus on discrete functions and services along the value chain that traditional banks offer, for example in payments, lending or money transfers. Focussing on an individual segment enables them to exploit the pricing and customer experience gaps left by the traditional banks.

Our view is that this unbundling will eventually lead to a 'rebundling' of services in new and innovative ways as customers will ultimately prefer to use a single efficient interface for all of their banking needs. This rebundling will lead to a smaller number of winners in the market, likely comprising the few traditional banks that are able to adapt to digital technologies and open banking, new virtual banks and fintechs that are able to knit together seamless services through APIs and other technologies, or some form of hybrid.

The unbundling and then rebundling of banking services in new and innovative ways will lead to a smaller number of winners in the market, likely comprising the few traditional banks that are able to adapt to digital technologies and open banking, new virtual banks and fintechs that are able to knit together seamless services through APIs and other technologies, or some form of hybrid. From a medium-term perspective, the outlook for the new virtual entrants could move in two directions. The first could see the widespread adoption of virtual banks as secondary banks, where they take a large share of payments and other non-balance sheet business such as wealth and insurance. Many parts of the landscape, such as mortgages and other balance sheet business, would likely remain untouched.

The second scenario is that the new virtual banks fail to convince customers of their value proposition, resulting in high acquisition costs, while the major traditional banks are able to create successful digital propositions much faster than anticipated.

The most likely scenario in the medium term is likely to be somewhere in the middle, with virtual banks winning over a considerable number of customers, but only a minor share of banking assets. Nonetheless, it is certain that the road ahead will be fiercely competitive, and both traditional banks and the new virtual bank entrants will need to develop a strategy for success in Hong Kong, which will include a mix of offence and defence. Overall, customers stand to be the real winners.

What it will take to win: Traditional banks

For traditional banks, a defensive approach entails looking through the value chain to understand where they are vulnerable to disruption – as well as what their customers think about their existing processes – and focus resources on developing appropriate countermeasures.

An offensive strategy involves understanding and exploiting the areas where they might have a competitive advantage over their virtual bank peers. Traditional banks, which have a significant amount of capital and large customer bases, could seek to build completely new platforms for themselves, or capitalise on their inherent advantages by delivering a consistent and seamless experience across physical and online channels.

Importantly, bank branches are still valuable to customers – even those who are digitally savvy – especially for high-value transactions (e.g. higher margin and wealth management and mortgage products). For example, KPMG China's *Customer Experience Excellence Survey*¹⁸ finds that customers, particularly in Hong Kong, still value human interaction.

Successful execution for traditional banks will also rely on their ability to better understand their customers and adopt a more customer-centric approach, which will require rapid IT and systems transformation. Existing banks will need to invest in new technology and upgrade their digital platforms to effectively compete with the new market entrants. For example, we will continue to see more banks offer electronic onboarding and customise their digital banking user experience.

What it will take to win: Virtual banks

We know from our work with virtual banks in Hong Kong that they have already developed their differentiation strategy and innovative products. Now, for the successful applicants, the focus is on seamless execution. In order to be successful, virtual banks will need to effectively recruit the right people, put in place the necessary systems, processes and controls, and quickly plug into the local ecosystem all within the next six to nine months. Meeting regulatory requirements and ensuring cybersecurity will also be crucial. Any regulatory or data and cybersecurity setbacks early on could potentially have a serious negative impact not just on the organisation, but also on the reputation of the whole sector.

^a 'Customer first – Building a trusted and connected customer experience in China', KPMG China, October 2018, https://home.kpmg.com/cn/en/home/insights/2018/08/customer-first-building-a-trusted-and-connected-customer-experience.html



Virtual banks are also expected to have a competitive advantage over traditional banks with respect to costs and digital infrastructure. For example, virtual banks are likely to enjoy cost and operating efficiencies in the KYC process, particularly through digital onboarding. Virtual banks are also not constrained by legacy systems and infrastructure that have hindered some traditional banks. However, if the execution of their strategy is below par, even virtual banks which are assumed to have a cost advantage may fail to overcome the scale advantages of traditional players.

Cultivating an environment for digital banking

Hong Kong's digital banking landscape could follow a similar path to other jurisdictions like the UK, where virtual banks have been steadily building their customer base over time. Furthermore, the HKMA's initiatives to usher in a new era of Smart Banking, coupled with the opportunity to enhance customer experience in the banking sector, is creating an environment for digital banking to thrive in Hong Kong.

In particular, the Faster Payment System (FPS) – which was launched by the HKMA in September 2018 – could be a game changer. It will be interesting to see to what extent the further adoption of FPS for retail payments shifts Hong Kong towards a more cashless society over time, and the extent to which it opens opportunities for virtual banks and traditional banks alike to enhance more direct competition with e-wallets.

We know from our work with virtual banks in Hong Kong that they have already developed their differentiation strategy and innovative products. Now, for the successful applicants, the focus is on seamless execution.

Customer Experience



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Customer experience at the core of banks' winning strategy

Today's customers are better informed, better connected and more demanding than ever before. They expect consistent experiences across industries and are creating waves of disruptive change through the choices they make every day. Banks operating in Hong Kong have recognised the importance of the customer and yet today still struggle in execution.

The backdrop is a rapidly evolving landscape. The rise of virtual banks, the proliferation of mobile payments, open banking and other fintech companies are adding to an already competitive market. Coupled with the rapid development of innovation and technology generally in mainland China and particularly in the Greater Bay Area, banks in Hong Kong need to adjust their strategy to avoid losing out. Customers are less loyal to their bank than ever before and the trend of cherry-picking services will increase as other players make it easier to do so. Banks must ask themselves where future growth and performance will come from.

This all points to the need for further focus on the customer and customer experience. At the highest level, the ask is clear: customers want their bank(s) to 'know me', 'recognise me', 'reward me' and 'make it easy for me'. This does not only apply in a retail environment. Our research clearly shows that customer expectations across wealth, asset management and even corporate investment banking are not different. Practically this translates into a need to personalise, digitise and build trust.

It is well known that delivering a personalised service drives customer loyalty, and data sits at the heart of this. Banks need to invest in data management and analytics solutions if they want to deliver this personalisation regardless of channel. This needs to be consistently executed and implemented across all business lines.

As traditional banks continue along their digital transformation journey, it is clear they need to urgently consider the high expectations around digital and raise their level of delivery to attract and retain customers. Banks need to offer a seamless omni-channel experience that is highly digitally enabled but provides valued human touch-points at the right time. To achieve a true understanding of the customer, a bank needs to look at experience from outside in and then cascade change down through the organisation.

Lastly, like all organisations, banks need to show that they are doing the right things by their customers. Customer insight surveys across Hong Kong highlight the increasing importance that customers attribute to integrity. Trust emerges as a bedrock principle for the financial services sector to uphold. This entails building and maintaining trust beyond traditional customer privacy and cybersecurity measures. When banks place customers' best interests at the core of their business strategy, brand loyalty follows. Regulators are also working in this direction with more scrutiny of culture and conduct.

There is no lack of understanding that customer experience is important, but in reality implementation and execution in Hong Kong is inconsistent and the market is often still seen as lagging behind. Practically what should banks be doing?

Banks that are able to get their integrated physical and online experience right will be leaders in the market.



As traditional banks continue along their digital transformation journey, they should look at the experience they provide customers as perceived from outside the institution rather than look from the inside out. Our research reveals high-performing organisations are getting connected by making significant investments across eight enterprise-wide capabilities (see Figure 1). They are doing this to a greater degree than less mature organisations. These banks are able to understand what customers need and value, and they achieve it by delivering the intended experience profitably. They also have the responsiveness and resiliency to evolve with the changing consumer and competitive landscape to consistently deliver on their customer promise.

Figure 1



Source: KPMG

For example, these banks:



utilise and manage customer data to generate real-time customer insights and deliver contextual experiences (i.e. personalised, timely, location-based, proactive, etc)



leverage partners and technology players in the ecosystem to work around the boundaries of old legacy platforms



focus on employee experience to nurture the talent that will in turn deliver an exceptional customer experience and build trust



foster a safe-to-fail environment in which employees and customers can collaborate on the future of banking, honing in on pain points and opportunities to prototype innovative solutions



embrace a customer-centric digital architecture and embrace emerging technology to transform processes front to back

When organisations have truly adopted and invested in these capabilities, it is clear they deliver a better business performance and a higher return on equity. Banks must continue to factor in what customers value in order to formulate an effective strategy and achieve growth. Banks that can focus their initiatives accordingly and determine where best to invest their transformation efforts are most likely to excel. Keeping the customer at the core of their front-to-back thinking is critical.

M&A and partnerships



Barnaby Robson Partner, Deal Advisory KPMG China



Ricardo Wenzel Director, Wealth & Asset Management KPMG China

Wealth management partnerships take centre stage in China

This is an era of unprecedented change for the wealth management sector. Asia is likely to set the pace for global wealth creation over the next few decades, led by China. New technologies, customer expectations, regulations and competitive pressures are rapidly disrupting the traditional business models. In this environment, wealth management organisations have no choice but to adapt.

Despite the rapid growth of wealth management in mainland China and Hong Kong, the industry remains fragmented. This fragmented industry, coupled with other drivers which are increasing costs and driving down fee margins – such as more stringent regulations around investment traceability and customer suitability, digital disruption, and an increasingly competitive landscape – points to a market that is ripe for consolidation.

Private banks and wealth managers are actively seeking to acquire assets under management in Hong Kong and Greater China, and in the years ahead, we expect to see a lot more deal activity. While M&A has long been the preferred option, we believe future deals will increasingly take place in the form of partnerships and alliances.

Partnerships as an alternative to M&A

In terms of pure M&A, a number of wealth managers that already have operations in Hong Kong continue to seek quick access to new assets and revenue pools, as well as to increase their scale and efficiency. We are also seeing new entrants looking to establish a presence in the Hong Kong market as a foothold to access China onshore assets.

Wealth managers are now increasingly focused on creating alliances and partnerships to drive new growth, create new channels and drive new innovation. Successful partnerships can result in win-win outcomes such as client and revenue pool access in return for product manufacturing or content expertise. However, there are significant risks associated with M&A, and outright acquisition of capabilities, customers or technologies is not always the right option. As a result, wealth managers are now increasingly focused on creating alliances and partnerships to drive new growth, create new channels and drive new innovation. Successful partnerships can result in win-win outcomes such as client and revenue pool access in return for product manufacturing or content expertise.

Indeed, there is certainly strong demand for partnerships from all parties. Within the Greater Bay Area – and more broadly in mainland China – there are a number of regional and city commercial banks that have wealthy client bases but lack the desired product capabilities. We also see Chinese retail banks with large deposit and customer bases proactively looking to diversify into wealth management, but at the same time lacking the capabilities or expertise with regards to product manufacturing and related risk management, reporting and asset value calculation.

These retail banks are therefore looking for partnerships with foreign wealth managers that offer product expertise to enable them to expand their offering for their existing retail client base. This is also an attractive proposition for foreign players as it gives them access to revenue pools in mainland China. It is also important to note that there are significant opportunities for partnerships not just in mainland China, but also in other high-growth ASEAN markets that are seeing a surge in private wealth.

Separately, new wealth management product regulations issued last year by the China Banking and Insurance Regulatory Commission (CBIRC) aims to encourage banks to standardise their wealth management businesses and to invest funds into the capital market in a compliant manner. The new rules are aligned with global standards, and are upping the game with regards to suitability checks, disclosure and asset value calculation, as well as curbing shadow banking and 'channel business'. With the transition period lasting until the end of 2020, the new regulation provides an opportunity for foreign entrants to leverage their overseas expertise and experience in the wealth management space in mainland China.

As alliances in wealth management continue to take centre stage, we are starting to observe two forms of partnerships emerge. The first is to provide investment products – and expertise around it – to complement, enhance or expand the partner's product shelf. In return, the partner gains access to the other organisation's clients – direct or indirectly – and therefore new revenue pools without having to build a customer base from scratch. Important considerations for product providers are the ability to provide content in a cross-border context, in particular with regards to capital controls (e.g. possessing the appropriate quotas for China outbound investment), or whether onshore product capabilities are sufficient to complement the partner's product shelf and satisfy onshore client requirements.

The second type of partnership is the provision of specific advice and expertise on product content and management, and generally on how to set up and run a wealth management business. These arrangements are most appropriate in situations where wealth managers cannot place products on their partner's shelf due to capital restrictions, but can still capitalise from their expertise and gain access to revenue pools which would not be available otherwise.

The rise of wealthtech

The growth of the wealth management industry has also led to the rise of wealthtech providers and solutions in the region. This is another area where we see partnerships forming. A number of Chinese technology companies have their origins in retail and e-commerce, and have therefore built up a significant captive consumer base. Many are now making a foray into financial services and starting to cross-sell other products, among them wealth management products.

In terms of distribution channel technology and client onboarding, a growing number of mid-tier and larger banks are considering partnering with these Chinese technology companies to enhance the user experience for their existing client base. This is essential as consumer expectations and the demand for digital are much higher in mainland China than elsewhere in the world. We therefore believe that the wealth managers that are unable to offer a seamless mobile and digital experience will face significant challenges to growth in the mainland Chinese market.

Although wealthtech continues to transform the wealth management industry, mainland China's sprawling tech landscape can make finding and vetting the right partner a serious challenge. Asymmetry in terms of leverage and influence in the market is also adding to the complexity. Foreign wealth managers therefore need to carefully consider these challenges when seeking to tie up with a wealthtech company in China.

China's financial services sector continues to open up

The continued opening up of China's financial services sector to foreign investment is also having an impact on private banks and wealth managers in Hong Kong. More recently in May, the CBIRC announced that it intends to open up the financial services sector further by dropping foreign ownership limits in local banks and scrapping asset size requirements for foreign banks operating onshore. Amid this changing landscape, foreign institutions and investors will seek to select partners based on the strength of their customer base, distribution power, capital and brand.

The next few years will see continued consolidation – increasingly through partnerships – in the wealth management industry, which may lead to a few players starting to establish a more significant market share. A less fragmented market with partnerships that combine expanded client bases and revenue pools with enhanced product manufacturing and content expertise will ultimately benefit the consumer, who should remain at the heart of the future development of wealth management.

The growth of the wealth management industry has also led to the rise of wealthtech providers and solutions in the region. This is another area where we see partnerships forming.

The drivers and implications for wealth management M&A and partnerships

Macro Drivers	Consequences	Implications	
			Examples:
Regulatory tightening around AML and KYC Competition for RM talent Regulatory focus on consumer protection	Administrative costs are increasing	Inorganic activity	 OCBC's acquisitions of NAB and Barclay's wealth business in Hong Kong and Singapore UBP's acquisition of Coutts International in Hong Kong and Singapore
- e.g. transparency around fee structures and strengthening of advisor duties around suitability	→ Rise in advisor costs	- buy to scale up, or exit	• DBS's acquisition of SocGen and ANZ's wealth businesses in Hong Kong and wider Asia
Competition from insurers, asset management and technology companies	Fee margins are falling		 UOB's acquisition of ING fund management business (predominantly in Thailand) LGT's acquisition of ABN Amro's business in
The rise of family offices Highly fragmented industry	Increasing proportion of	Inorganic activity - geographical expansion	Hong Kong, Singapore and DubaiEverbright's acquisition of Sun Hung Kai Financial Limited
Increasing preference for passive investment	monies flow to offshore finance hubs		 Bordier & Cie's partnership with Military Commercial Joint Stock Bank (MB) in Vietnam.
China-US trade tensions Generational changes - transfer of wealth from 2nd to 3rd generations	Need to identify new propositions and client segments	Partnerships - geographical expansion	 Lombard Odier's partnership with Bank Mandiri in Indonesia and Kasikornbank in Thailand UBS's partnership with Qianhai Financial Holdings Co
Rise of private wealth in China, as well as in APAC - e.g. emerging entrepreneurs in Indonesia and India Low penetration of wealth management in emerging markets	Need to find ways to access customers in markets outside of the major offshore hubs	Partnerships -	 Credit Suisse's partnership with Canopy JV between Tencent and Hillhouse Ping An's partnership with Merian Global Investors
Opening up of China market and the GBA Initiative	Providers need to find new ways of differentiating	development of new distribution channels	 JV between Tencent and Aviva Saxo Bank's partnership with Lufax Ant Financial's partnership with Shanghai Budana Davalanment Bank
Expanding wealth management arms of Chinese Private Banks Digital disruption and new tech entrants	Need for client journey reinvention (e.g. faster		Pudong Development BankNomura's Series C investment in 8 Securities
Inefficient and not fit-for-purpose systems	client onboarding)	Investment in wealthtech platforms -	 HSBC's investment in Quantexa BOC's investment in AQUMON Cathay Financial Holding's investment in
Investor empowerment: greater transparency on products, pricing and market data	technology	regtech, robo- advisory, Al etc	Quantifeed

Source: KPMG



Target Operating Model



Isabel Zisselsberger Partner, Head of Customer and Operations, Hong Kong KPMG China

Moving towards a connected enterprise

Evolving technology and changing customer behaviour over time have forced banks to change the way they operate to deliver the desired customer experience. There are few banks, if any, that are not undergoing a major digital transformation programme. This digitalisation of financial services is creating new opportunities for banks in Hong Kong to grow more efficiently and effectively. However, the fast-evolving landscape is putting stress on their organisational structures. It is therefore essential that banks revisit and start thinking about the next-generation of target operating model (TOM). At the simplest level, a bank's TOM provides insight into the organisation, delivery models, business processes, data, technologies and governance that comprise the organisation.

Today's operating model is under pressure for a number of reasons:

The search for regional growth: The growth of the China market is having a significant impact on banks, particularly with regards to the development of key strategic policies such as the Greater Bay Area (GBA) and the Belt and Road Initiative (BRI). While most banks in Hong Kong are expected to have a long-term China strategy in place, many have different business models and objectives for the GBA, BRI or other initiatives. A bank's TOM will therefore need to be agile enough to be able to cope with multiple strategies in the region.

The age of the Customer: It is clear that consumer preferences are changing and expectations are increasing. The way banks interact with their customers, as well as how they deliver products, services and customer touchpoints is evolving, and will have a knock-on impact on how banks do business and how they structure their teams. To compete more effectively, capture the value inherent to the digital channels and reduce the cost to serve in the traditional channels, banks need to organise themselves to be more customer centric. **The pace of technological change:** Technology change, accelerated by the development of open banking and virtual banking in Hong Kong, has disrupted the traditional banking model. The use of intelligent automation, artificial intelligence and other emerging technology is having a transformative effect on banks' go-to-market propositions. Furthermore, with some previously human-led tasks now being handled by machines, banks will need to consider how the adoption of new technology affects both the current and future composition of the workforce.

The ongoing compliance challenge: Whether it is macroprudential regulation or issues like conduct, regulatory tightening will continue to have an impact on how banks structure themselves, how they set up their lines of defence, and how they implement controls and monitoring systems. New regulations and compliance issues make coordinating technologies and services across all possible touchpoints incredibly difficult.

The search for better efficiency ratios: Many banks are operating against a backdrop of intense cost pressure and search for profitability in a tough market. This cost pressure also requires a rethink of organisation structures, processes and the use of technology to achieve greater efficiency.

For all these reasons and many more, it is evident that the current operating models and ways of working are not fit for purpose anymore. This calls for a new approach that looks at the TOM through a different lens.

The Next-Gen Target Operating Model

In our view, the key to successfully transforming a bank's TOM lies in its ability to become a 'connected enterprise' – an organisation that can translate pure customer focus into its day-to-day operations in an efficient and effective manner, and connect front to back breaking down any siloes that exist between functions.

KPMG has identified eight fundamental capabilities (see Figure 2) that will help an organisation achieve this, which include product, pricing and customer strategy; partnerships, alliances and vendor management; technology architecture and enablement; and organisation alignment and people capability. Investing in these capabilities across the front, middle and back office and the wider partner ecosystem is pivotal to capturing the financial opportunities across the entire value chain.

In particular, the ability to effectively leverage third-party entities to increase speed to market, reduce costs or supplement capability gaps to deliver on the customer promise is essential for banks to factor into their TOM. This is especially important as the development of the Open API framework and the proliferation of fintech firms in Hong Kong mean that future growth and success lies in increased collaboration between multiple parties in the banking ecosystem.

The use of intelligent automation, artificial intelligence and other emerging technology is having a transformative effect on banks' go-to-market propositions. Furthermore, with some previously human-led tasks now being handled by machines, banks will need to consider how the adoption of new technology affects both the current and future composition of the workforce. ___

Figure 2

Experience attributes	Connected enterprise capability	Description	
Product, pricing and customer strategy		The ability to deliver relevant, valuable and consistent products, services, experiences, pricing and offers that are targeted to their intended customer segments.	
Brand	Experience centricity	The ability to design and deliver a seamless and personal customer experience that continually meets evolving expectations across all physical and digital touch points to drive engagement, satisfaction and loyalty. Experience centricity applies to prospects, customers, employees and partners.	
Products/	Responsive supply chain and operations	The ability for a customer to select, receive and return products/services when, where and how it is convenient for them and in a way that is enabled through advanced, analytics-driven demand planning, inventory management and distribution.	
Services	Partnerships, alliances and vendor management	The ability to effectively leverage third-party entities to increase speed to market, reduce costs or supplement capability gaps to deliver on the customer promise.	
	Advanced data and analytics	The ability to harness and use data, analytics and insights to engage and execute in a thoughtful and orchestrated manner across all touch points while also protecting customer data integrity, privacy and security.	
interactions	Technology architecture and enablement	The ability to leverage technology systems and expertise to effectively and efficiently deliver cross- channel experiences, provide employees with enabling tools and synchronise with partners and the broader digital ecosystem.	
	Seamless commerce	The ability to deliver a convenient, secure transaction experience that meets customer preferences while ensuring payment technologies are integrated and provide a consistent experience across channels.	
People	Organisation alignment and people capability	The ability for an organisation to marry outside-in customer perspectives with inside-out experience management processes and capabilities, including top-down executive vision, cultural alignment, matrixed and agile organisational structures and integrated, aligned performance management.	

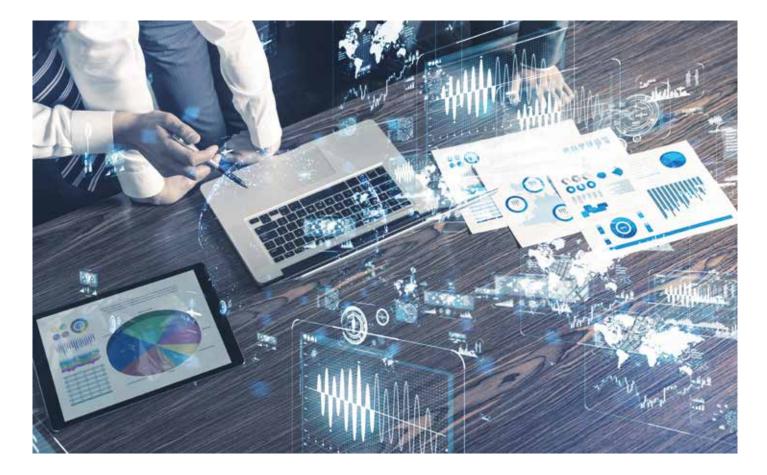
Source: KPMG

The key to successfully transforming a bank's TOM lies in its ability to become a 'connected enterprise' – an organisation that can translate pure customer focus into its day-to-day operations in an efficient and effective manner, and connect front to back breaking down any siloes that exist between functions. Partnerships and alliances are also an important consideration for banks that are revisiting their GBA and broader mainland China strategies. Many banks are finding that forging partnerships with mainland Chinese banks and tech firms is an increasingly viable strategy for growth in the region. The wealth management industry serves as a fitting example, where foreign, local and non-financial services companies are partnering to mutually benefit from access to new clients, larger product shelves and greater knowledge and expertise. However, working with partners can have its challenges, and banks need to keep this in mind when designing an operating model that is fit for purpose.

Furthermore, the ability to leverage technology and data analytics to effectively and efficiently deliver cross-channel experiences, provide employees with enabling tools and act on forward-looking data-enabled insights will be key to winning new customers and retaining existing ones. Related to this, the adoption of an enterprise-wide connected and controlled intelligent automation strategy underpins the next generation operating model across all functions.

We believe that banks must continue to become more agile in their way of working to increase their speed to market, enhance customer experience and stay ahead of their competition. Ensuring that the workforce evolves across the entire organisation and identifying and filling talent gaps will also be key to remaining agile, responding better to business and customer needs, and delivering an improved customer experience.

All our research shows that the banks that can effectively transform their operating models and move towards becoming a connected enterprise by truly adopting these principles will enjoy stronger business performance and success.



A digital future

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Artificial intelligence



Marcos Chow Partner, Head of Technology Enablement, Hong Kong KPMG China

Harnessing the full power of AI also requires smart governance and controls

As banks continue to accelerate digital transformation and embrace emerging technologies, many are seeking to harness artificial intelligence (AI) to stay ahead by increasing operational efficiencies, creating new personalised products and services, and improving customer experience. However, banks must also ensure that appropriate governance and controls are put in place to manage the evolving risks that new technologies like AI bring.

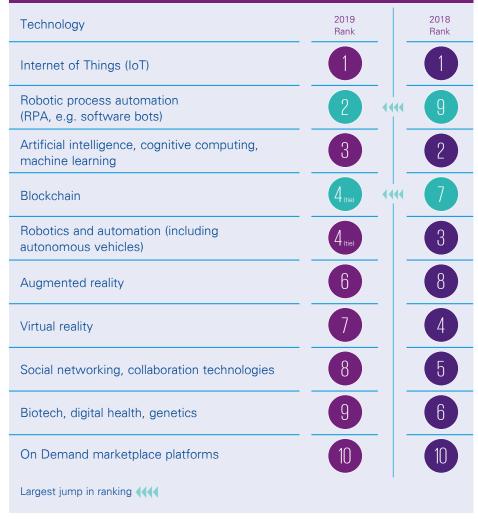
In Hong Kong, we continue to see a number of Al use cases for banks through the application of Al on top of automation platforms – for example in finance processes and regulatory reporting. We are also seeing Al being used on new credit risk management techniques, allowing banks to expedite the approval process for customers to receive unsecured lending on loans. Indeed, Al and technology like software bots continue to be seen as having great potential to drive future business transformation and long-term value (see 'Top 10 ranking' on Page 30).

Regulators also continue to support the use of emerging technologies in financial services, with the Hong Kong Monetary Authority (HKMA) introducing a number of initiatives in recent months to enable banks to conduct digital onboarding and provide loans using their own data, among other things.

Looking further forward, quantum computing is on the horizon. Equipped with a new paradigm of algorithms and processing powers, quantum computers enable organisations to process large amounts of complex data much faster and more accurately than existing computers, resulting in increased efficiencies and the optimisation of processes. While some banks have experimented with early stage applications of it, we believe quantum computing will soon become mainstream in financial services, and Hong Kong banks have an opportunity to capitalise on this wave and become leaders in this space.

The top 10 ranking

Responses to the 2019 Technology Industry Innovation Survey yielded the following top ten list of technologies that are perceived by technology industry leaders as having the greatest potential to drive future business transformation and long-term value.



Source: KPMG Technology Industry Innovation Survey 2019

Managing AI risks

While AI is set to have a significant influence on the future of banking, it also brings new risks to the organisation that need to be properly identified and managed, especially given that an error in an algorithm or the use of incorrect or incomplete data has the potential to turn small issues into large-scale problems very quickly. Problems related to the collection or use of data can lead to bias in systems, where AI technology draws improper conclusions about data sets, resulting in a negative impact on financial inclusion and diversity.

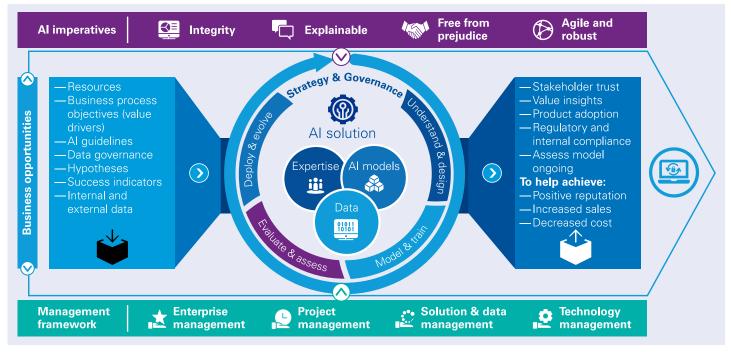
Furthermore, the proliferation of bots operating in organisations is creating additional challenges around how to fully understand and assess the risks. Our view is that the risk function is often brought in only once a bot has been developed instead of during the conceptualisation and programming stage, which creates a challenge around implementing effective controls.

It is therefore clear that banks must improve their controls and governance to ensure that AI and its associated risks are properly managed. First and foremost, banks should seek to develop a purpose-built risk and control framework¹⁹ that can help mitigate data privacy, security and regulatory risks across the entire lifecycle of the model.

¹⁹ 'Al Risk and Controls Matrix', KPMG UK,

https://assets.kpmg/content/dam/kpmg/uk/pdf/2018/09/artificial-intelligence-risk-and-controls-matrix.pdf

KPMG's 'AI in Control' framework,²⁰ is supported by a set of methods, tools and assessments that can help banks realise value from AI technologies while addressing their inherent challenges, such as integrity, explainability, fairness and agility. As part of the framework, banks should develop criteria for the continuous monitoring and control of AI solutions and their performance, without impeding innovation and flexibility. The framework also enables banks to conduct diagnostic reviews of these solutions, as well as risk assessments of the control environment to determine organisation readiness for effective AI control.



KPMG's AI in Control Framework

Source: KPMG

The key to managing AI and its associated risks is for banks to have a comprehensive understanding of who developed the algorithm, the value the technology currently delivers and how it fits into the overall business strategy. Having a clear understanding of the entire ecosystem including third party data and cloud service providers will also help banks build AI thinking into their risk function.²¹ This is increasingly crucial as business users are deploying these technologies directly with the third party software as a service provider with less direct involvement from IT, Risk, Compliance and Cybersecurity.

Data remains the critical foundation for developing and deploying AI successfully throughout the organisation. The banks that ensure that their data is consistently reliable and secure will be able to unlock the true value and power of AI, and maintain a competitive edge in the market.

With banks in Hong Kong expected to further ramp up investments in AI in the year ahead, ensuring that they keep up with the pace of change of the associated risks and compliance issues will be a key to sustainable success.

²⁰ 'KPMG Artificial Intelligence in Control', KPMG,

https://home.kpmg/xx/en/home/insights/2018/12/kpmg-artificial-intelligence-in-control.html

²¹ 'Keeping the Al in line: Managing risk in an automated world', KPMG, https://home.kpmg/xx/en/home/insights/2019/03/keeping-the-ai-in-line-fs.html



Open Banking



James O'Callaghan Partner, Head of Technology Consulting, Hong Kong KPMG China



Stanley Sum Director, CIO Advisory KPMG China

Open APIs offer new opportunities for banks, but first they must focus on working effectively with third parties

The ongoing development of Hong Kong's Open Application Programming Interface (API) Framework continues to reshape the digital banking landscape, providing a number of new business opportunities for banks, technology players and retail firms alike. However, as banks continue their technical implementation of the initiative, many are also facing challenges, particularly around the onboarding of third party service providers (TSPs).

The Open API Framework, introduced by the Hong Kong Monetary Authority (HKMA) last July, aims to improve customer experience, promote financial inclusion and provide consumers with more information and greater access to financial products and services. Through providing a common way to retrieve pricing and product information, customers will be able to easily compare products and services, helping them to find exactly what they want, and at the right price via the aggregators in the market.

Managing TSPs and cybersecurity challenges

However, as the Open API initiative moves into its second phase, banks are finding themselves facing challenges that could slow the process down or impact the level of adoption. In particular, while many banks are primed for the technical implementation of Open APIs, the governance of the whole process remains a key area of focus. With TSPs now part of the ecosystem, the HKMA has stated that banks have a fiduciary duty to onboard them to ensure that they have the right capabilities and relevant internal procedures to manage the Open APIs and to ensure consumer protection.

The banking industry continues to seek further clarity around the steps that should be taken to onboard TSPs and how due diligence should be conducted.

Open API phases for the Hong Kong banking sector

Phase	Open API functions	Examples	Delivery time
I	Product information	Deposit rates, credit card offerings, service charges and other public information	by the end of January 2019
П	Customer acquisition	New applications for credit cards, loans and other products	by the end of October 2019
	Account information	Account balance, credit card outstanding balance, transaction records, credit limit change and others	_ To be set out before July 2019
IV	Transactions	Payment and transfers	

Source: HKMA

Indeed, we believe that some institutions have underestimated the level of effort and infrastructure required to effectively onboard TSPs. We know from our work on open banking initiatives in other markets that banks need to focus on ensuring that they have a clear understanding of what their risk appetite is with regards to entering into arrangements with TSPs, and that they partner with the right vendors.

Cybersecurity should be top of mind and integral to a bank's approach as they continue to build an Open API ecosystem: it is essential that they ensure that their networks are secure and that cyber risks are properly managed.

Banks should also focus on establishing a robust operational governance mechanism to manage the day-to-day communication around the availability of services, changes to the API and the knock-on effects of the changes.

Capitalising on new opportunities

Despite the challenges, the ongoing development of Open APIs presents a number of opportunities for banks. For example, banks could apply artificial intelligence across aggregated data in order to offer tailored customer-specific products for their customers, enhancing the overall banking experience.

The use of Open APIs is still focused on the retail banking side, targeting consumers' lifestyles such as shopping and commuting habits. However, the application of Open APIs to corporate banking offers a currently untapped opportunity for banks to find a standardised way to handle financing for SMEs, as well as for treasury management and wealth management. We believe that this is the logical next step for open banking in Hong Kong.

From a more macro perspective, the ongoing development of the Greater Bay Area (GBA) provides a significant opportunity for Hong Kong to up its game and demonstrate its competitiveness in the wider region. As it stands, the seamless adoption of technology, the level of data and information sharing and the proliferation of online payments in Shenzhen and Guangzhou paint a different picture to the current landscape in Hong Kong. However, the implementation of Open APIs, as well as the development of virtual banking and the launch of the Faster Payment System, are sending an encouraging message that Hong Kong is nurturing an environment that is conducive to digital banking. Over time, this could also shift Hong Kong towards a more cashless society, a phenomenon that is currently being observed in the rest of the GBA and more broadly in mainland China.

Overall, Hong Kong continues to make good progress towards creating the digital banking ecosystem of the future. For the banks themselves, the current challenge to the successful development of an API ecosystem lies not in the technical implementation, but rather in the business models and governance and risk practices that need to be implemented quickly and effectively. We believe that the leaders in this space are the organisations that have a clear business-led proposition on what they want to achieve from Open APIs, and are applying this proposition to the wider context of their digital strategy.

The implementation of Open APIs, as well as the development of virtual banking and the launch of the Faster Payment System, are sending an encouraging message that Hong Kong is nurturing an environment that is conducive to digital banking. Over time, this could also shift Hong Kong towards a more cashless society.

Blockchain



Adam Stuckert Partner, Head of CIO Advisory Hong Kong KPMG China

It is likely that more banks and technology providers will explore the use of blockchainpowered solutions to provide remittance services to other markets, with RMB remittance a potential opportunity in Hong Kong.

Blockchain: no longer a buzzword in Hong Kong

As the digitisation of banking services continues at a rapid pace, the industry is starting to see the emergence of genuine blockchain-based solutions. This presents a number of opportunities ahead for banks.

Blockchain facilitates the creation of trusted data by using a distributed ledger for transaction information. The value to banks and their clients is significant – with enhanced data integrity, improved customer experiences, and increased efficiency, the creation of this shared and transparent ledger allows organisations to focus on generating value from data.

Blockchain developments in Hong Kong

We continue to see an increasing use of blockchain in financial services both worldwide and in Hong Kong. For example, blockchain is being applied in trade finance with the Hong Kong Monetary Authority's (HKMA) launch of eTradeConnect last October. The blockchain-based platform aims to improve efficiency, reduce risks, and strengthen trust among trade participants. The HKMA also signed a Memorandum of Understanding between the operators of eTradeConnect and we.trade in Europe to conduct a proof of concept on connecting the two platforms. We expect to see more participants use eTradeConnect in the year ahead, with participating banks starting to promote the platform to their customers.

Blockchain-based solutions are also starting to be applied to remittance services. For example, Alipay and GCash – supported by Standard Chartered Bank – launched a cross-border real-time remittance service between Hong Kong and the Philippines last year, which applies blockchain technology to streamline the remittance process. It is likely that more banks and technology providers will explore the use of blockchain-powered solutions to provide remittance services to other markets, with RMB remittance a potential opportunity in Hong Kong. For example, in December 2017, China Merchants Bank and CMB Wing Lung Bank launched a blockchain-based solution to facilitate cross-border RMB remittance.²²

²² http://www.cmbwinglungbank.com/wlb_corporate/files/en/upload/about-us/press_release_20171228a.pdf

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In addition, in the last year we have seen banks launch their own blockchainbased settlement platforms to enable easy payments between customers and for interbank clearance. We have also seen banks such as J.P. Morgan become the first US bank to launch a digital coin – JPM Coin – using blockchain technology to enable the instant transfer of payments between institutional accounts.

Meanwhile, the Securities and Futures Commission recently clarified its position on digital assets – including Security Token Offerings (STOs) – noting that STOs will be treated like any other security. We believe that this is a welcome development as this provides more certainty in the market, and we predict that we could see the first STOs in Hong Kong before the end of this year.

Opportunities in mainland China

Importantly, we continue to see a buzz of activity around blockchain in mainland China. In fact, data from the World Intellectual Property Organization shows that China holds the largest number of blockchain patents worldwide, and continues to be a leader in new patent filings.

China's government continues to encourage innovation around blockchain, but has also taken steps to regulate the technology. In January, the Cyberspace Administration of China announced regulations requiring Chinese blockchain platforms to censor content, and to allow authorities access to stored user data and check the identity of users.

The speed of blockchain development and innovation in mainland China is likely to have a significant impact on the pace of the technology's development in Hong Kong – for example the growth of eTradeConnect and cross-border trading. In the future, we could start to see stocks and securities being issued via blockchain. Switzerland's SIX exchange is already experimenting with this concept. This approach could also extend to the Hong Kong Stock Connect with Shanghai and Shenzhen in the long run, with the Hong Kong Stock Exchange announcing in November last year that it is developing a new blockchain-powered platform to facilitate trading on Stock Connect.²³

Blockchain talent in the spotlight

As blockchain continues to take shape in Hong Kong, the potential opportunities the technology provides to financial services are becoming increasingly clear. We expect banks to actively seek to explore blockchain and capitalise on these opportunities in the year ahead. However, concerns and uncertainty around the technology remain, and banks should ensure that they keep a close eye on ongoing local and global regulatory developments in this space. Nonetheless, we expect banks to be one of the primary recruiters of blockchain talent in the coming years. However, with many of the young blockchain professionals currently preferring to work at startups and tech firms, figuring out how to attract and retain the top blockchain talent should be a key consideration for banks in Hong Kong.

In the future, we could start to see stocks and securities being issued via blockchain. Switzerland's SIX exchange is already experimenting with this concept. This approach could also extend to the Hong Kong Stock Connect with Shanghai and Shenzhen in the long run, with the Hong Kong Stock Exchange announcing in November last year that it is developing a new blockchain-powered platform to facilitate trading on Stock Connect.

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Data



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The age of the 'data culture' is here

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With banks actively seeking to transform amid the digitalisation of the industry, it is now more important than ever for them to embed a 'data culture' throughout their organisation in order to realise the real value of their technologies and meet customer expectations.

Good data culture encompasses the application of data to enhance front, middle and back office processes, but also ensuring that the appropriate infrastructure, governance and security are in place. For instance, we are starting to see banks develop new models using deep learning algorithms to manage risk, instead of the traditional statistical model approach. We are also seeing more use of artificial intelligence (AI) technology to streamline and automate previously human-led bank processes that are repetitive, time consuming or time sensitive.

The front office of both retail and commercial banks is also increasingly harnessing data to create new business models and drive customer growth through obtaining a single customer view – aggregating data to create a profile of a customer to give a clear view of how they fit into the business, and importantly where they can be served by other parts of the bank.

Data infrastructure and governance is key

However, without proper data infrastructure and governance, banks will not be able to truly realise the value that data can bring. We have seen some innovative use cases among banks in Hong Kong using AI and other technologies, but on the other hand we continue to see slow progress when it comes to developing infrastructure to facilitate the use cases. Even today, large global institutions are only starting to define what their data governance looks like and who is responsible for it in the region.

One way to improve the application of data is through the use of cloud technology to store data. This is one area that presents significant opportunities, but is yet to be fully utilised by banks in Hong Kong.

Without proper data infrastructure and governance, banks will not be able to truly realise the value that data can bring. We have seen some innovative use cases among banks in Hong Kong using Al and other technologies, but on the other hand we continue to see slow progress when it comes to developing infrastructure to facilitate the use cases. We appreciate that there are significant regulatory and compliance hurdles to jump on this journey, all of which are challenging and time consuming. But we think that to truly unlock the power of data, the application of these types of cloud services (e.g. access to significant capacity, scalable infrastructure and very high speeds) is a must. Once in place, we expect to see the market's use of data accelerate dramatically.

Drivers to foster a data culture

There are a number of drivers that we believe will push banks in Hong Kong to ensure that they foster a data culture. First, regulators are demanding more data from banks, and at a greater level of granularity. This is unlikely to let up in the foreseeable future, and we expect banks to increase their investment and focus on getting their data strategy right to ensure regulatory compliance.

Second, the development of an Open Application Programming Interface (API) framework in Hong Kong is transforming how banks will work with non-financial services organisations and other third party service providers to enhance the overall banking experience for customers. Data will be a key enabler and crucial to the success of the Open API initiative as it will bring together insights from a number of data points to create new products, services and experiences for consumers.

In addition, the launch of virtual banks in Hong Kong is a significant development for the industry, with the new entrants creating their IT architecture from scratch. Once they start to build up their data sets, virtual banks will be a force to be reckoned with in certain product areas and segments as they will be powered by greater insight and faster foresight.

These developments further underscore the need for banks to have a holistic culture and enterprise-wide view on what data to collect, where to store it, and how to manage, secure and harness it for the benefit of their customers. Banks that fail to do this and look at data simply to assist with Management Information reports will find themselves falling behind their competitors.

Making data a business priority

Embedding a data culture throughout an organisation will not be an overnight process. It is therefore essential that banks start to embark on the journey and devise a holistic, methodical approach to their data. Importantly, it is not just about getting it right once. Banks need to have a sustainable platform, governance and associated processes to ensure that their data is maintained at a high level to enable the business to fulfil its digital agenda.

For banks to succeed, they need to view data not as a technology agenda item, but rather as a broader business priority. Banks might have a great business proposition, but poor data quality and governance will slow them down and limit the effectiveness of their digital strategy. It is clear that data has a direct impact on an organisation's ability to deliver products and services or expand into a new market, and is fast becoming a key topic on the board agenda.

Ensuring that senior management at banks understand how to unlock the true value of data for the business, while being aware of the associated risks that need to be managed, is key. The banks that are able to take a broad enterprise-wide view of their data and foster a data culture throughout the entire organisation will be the ones that are able to maintain their competitive edge in the long run.

For banks to succeed, they need to view data not as a technology agenda item, but rather as a broader business priority.

Smart risk management

Regtech



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Regtech is fast becoming an indispensable part of the banking industry

The increasing complexity and scope of regulations globally over the past 10 years has led to the cost of compliance to surge, particularly for banks operating across multiple jurisdictions where differences in regulatory requirements across jurisdictions can be a significant stumbling block in driving consistency in global processes. This comes in an environment where margins are thin, competition is fierce and the volume of transactions and data that banks need to handle continues to increase exponentially.

These challenges are driving banks to seek new technologies and ways of working to succeed and grow. Regtech is emerging as one of the fastestgrowing elements of financial innovation. Through the use of technologies such as advanced analytics, robotic process automation, cognitive computing and the cloud, regtech helps banks to achieve regulatory and compliance outcomes more efficiently and effectively. It also has the potential to enable banks to get ahead of requirements and detect risk before the regulators do.

A growing appetite for investment

Regtech investment in 2018 hit USD 3.7 billion worldwide, more than triple the amount in all of 2017.²⁴ While much of this investment has been in the US and Europe, we believe that Asia-Pacific is becoming the new engine of regtech growth and innovation, driven by increased investment in new technologies, greater regulatory acceptance, extensive infrastructure development and strong economic growth in the region. As a leading regional and international finance centre, Hong Kong – and in particular the banking industry – is likely to be a key beneficiary of this shift.

In the past, banks in Hong Kong have primarily used regtech solutions around KYC and anti-money laundering, for example in improving the effectiveness of the sanctions alerts clearance process.

²⁴ 'The Pulse of Fintech 2018', KPMG International, February 2019, https://assets.kpmg/content/dam/kpmg/xx/pdf/2019/02/ the-pulse-of-fintech-2018.pdf

However, in the year ahead we expect banks to broaden their regtech investment to include Governance, Risk and Compliance (GRC) solutions coupled with other tools to track regulatory developments, automate business-wide control assessments, further reduce false positive alerts in trade surveillance and digitalise voice monitoring.

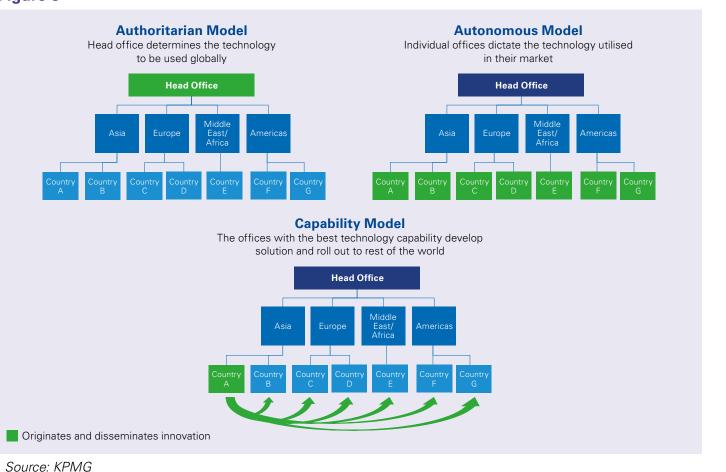
Many of these developments will be driven by artificial intelligence (AI) and machine learning. For example, AI is being deployed to help financial institutions reassess their LIBOR-linked contracts for derivatives and other financial instruments as they prepare for the transition away from LIBOR and towards alternative risk-free rates.

Furthermore, the launch of the first virtual banks in Hong Kong is likely to accelerate the uptake of regtech in the city, as these new players will need to build a comprehensive compliance framework from scratch and utilise the best in existing technology to ensure that they meet banking regulatory and data management requirements swiftly and effectively. By the nature of their business and corporate DNA, we expect these banks to be early adopters of solutions that are currently in the experimental stage.

Driving regtech initiatives from Hong Kong

We predict a trend of global banks revisiting how they drive regtech initiatives. The traditional approach has been to adopt regtech solutions at a global level before rolling them out to the regional branches (see Figure 3). However, we have seen examples where market-leading organisations are giving more autonomy to individual offices to lead their own regtech initiatives, especially if that region is where the biggest opportunity resides. This is an increasingly viable option for multinationals as there are distinct benefits to be had from using some of these tools as point solutions for discrete challenges such as country specific regulatory requirements. The offices with better technology capabilities may seek to develop their own solutions that can then be scaled up and deployed in other markets.

Figure 3



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Smart use of intellectual property

The leading banks of the future will also view patents as an important part of their innovation and digital transformation strategy. Investment in regtech and smart use of intellectual property can deliver long-term value for banks' shareholders.

We note that leading financial institutions have applied for more patents on a widening range of innovative products. However, many in-house innovations still focus on products and services rather than regtech – and the financial sector lags behind the big technology companies. To put this into perspective, the world's 15 largest banks together own five times fewer fintech patents (4,697) than the biggest single technology company (23,864).²⁵ Technology companies' patents are not restricted to consumer-friendly innovations: they include credit checking, security and authentication.

Regtech's transformative effect on compliance

Regtech is on the cusp of revolutionising the Hong Kong banking industry's approach to compliance. We believe that emerging regtech solutions will establish themselves as an indispensable part of the value chain and transform every area of compliance, as it has already started to do in AML. This trend is reinforced by the strong regulatory support in Hong Kong for regtech and the benefits it can bring to help banks meet their regulatory and compliance obligations more efficiently.

With the proliferation of regtech solutions available to the banking industry in Hong Kong, we expect more banks to engage with advisory partners to help them scan and screen the regtech landscape for effective collaborators with successful solutions.

The leading banks of the future will implement regtech as part of a broader digital transformation mandate in order to reduce costs, enhance customer experience and maintain their competitive edge. It is clear that regtech is no longer a buzzword; it can be applied and its benefits realised today. Not only can it reduce the cost of compliance, but it can also provide banks with a first mover advantage over competitors who have yet to unlock the true potential of regtech.

Asia-Pacific is becoming the new engine of regtech growth and innovation, driven by increased investment in new technologies, greater regulatory acceptance, extensive infrastructure development and strong economic growth in the region. As a leading regional and international finance centre, Hong Kong – and in particular the banking industry – is likely to be a key beneficiary of this shift.

²⁵ 'There's a revolution coming: Embracing the challenge of RegTech 3.0', KPMG UK, September 2018, https://home.kpmg/content/dam/kpmg/uk/pdf/2018/09/regtech-revolution-coming.pdf





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Information sharing the key to enhancing financial crime compliance

As the evolution of regtech catches up with the latest fintech developments, the key to success in the fight against financial crime lies in the ability to share information between market participants, regulatory authorities and law enforcement agencies.

In this context, one area of regtech generating greater attention globally is the development of Know Your Customer (KYC) utilities to improve reliability of customer data, reduce risks and increase efficiencies.²⁶

In Hong Kong, the Financial Services Development Council (FSDC) announced the development of appropriate infrastructure for digital identification and KYC utility, and has lobbied for a KYC utility across the city's financial services industry. However, aimed at raising the quality of risk management by harmonising standards, the push for a KYC utility model is likely to encounter difficulties without the full backing of the HKSAR government.

However, we believe the focus could shift from compliance with KYC rules to active management of risks related to the handling of potentially suspicious transactions.

Effective anti-money laundering measures are those that stop suspicious persons and activities in a timely manner. While conducting KYC is essential to understand the customer and their intended use of the institution's financial services, monitoring the customer's transactions is critical to catch any potential wrongdoing.

However, traditional monitoring of customer transactions only occurs after the settlement of transactions and funds have moved out of the institution. Financial institutions are always one step behind in tracing the money flows.

²⁶ 'How a Know-Your-Customer Utility could increase access to financial services in emerging markets', thought leadership published by the International Finance Corporation, a member of the World Bank Group, Note 59, October 2018

While suspicious transaction reports in Hong Kong have tripled in the span of four years, the actual conversion of these reports into law enforcement cases remains low. Of the 73,889 suspicious transaction reports filed in 2018, only 86 people were convicted of money laundering.²⁷

KYC yields information at on-boarding, but it cannot provide full disclosure of all the counterparties the customer is transacting with. It is not until a customer's transaction appears on a monitoring solution's radar that a financial institution will engage in a review of third parties and their relationship with the customer.

In contrast, a Know Your customers' Transactions (KYT) utility might perhaps be a more effective option.

A KYT utility is a central repository that stores data on transactions entered into by customers of financial institutions operating in Hong Kong. Its objective is to grant access to and provide visibility over a chain of transactional instructions in which the relevant institution's customer is involved, i.e. each financial institution contributes transactional data into the KYT utility.

The ability to see the transaction history and follow any suspicious flows gives a compliance team a thorough assessment of the risks presented by the customer and his relationships. That level of transparency is currently unavailable in Hong Kong due to personal data protection and privacy interest concerns. Such concerns could be addressed by the anonymisation of identifiable personal data before the data enters into the central repository.

Financial institutions already share transactional data between them, but this exchange is limited to the chain of where it comes from, where it sits and where it goes. A KYT utility may help to expand the view of the money flows.

For a KYC utility, harmonisation of KYC standards is required. For a KYT utility, standards on data quality would be required. As to whether a KYT utility would be more effective in the long run, the initiative would need a thorough feasibility study on that point as well as on data issues such as quality, governance, protection and cybersecurity.

Projecting into the future of financial crime deterrence, it is possible that a KYT utility and in-flight regtech developments could train data models to analyse fund dissipations to make predictions. The Joint Financial Intelligence Unit in Hong Kong reported that 60 percent of fund dissipations were performed on the same day, and 18 percent on the day following the receipt of funds.

A KYT utility might also optimise the quality of suspicious transaction reports and ensure that reports made to the authorities are backed by intelligence garnered from complete analysis of patterns and relationships.

The need to improve the quality of suspicious transaction reports is not new. Both in the UK and Japan, government agencies, law enforcement and financial institutions are coming together to continue efforts to fend off financial crime and to keep pace with changes to criminality.

Separately, at the time of writing, FATF's mutual evaluation of Hong Kong is nearing completion. The results are expected to focus on how effectively the city manages both internal and external money laundering risks including the sharing of information, international cooperation, cross-border issues, trade-based money laundering and tax evasion.

The future of financial crime compliance is moving in the direction of more information sharing and collaboration, not just between financial institutions and regulators but also between banks. By fostering a higher quality of risk management, Hong Kong is better equipped to combat financial crime, and the industry and city stand to benefit.

Not being able to share information for the purposes of deterring financial crime is a significant issue and frustration for many banks to fight financial crime.

27 https://www.jfiu.gov.hk/en/statistics.html

Cyber and emerging tech risk



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²⁸ Consumer Loss Barometer – The economics of trust', KPMG International, March 2019, https://home.kpmg/content/dam/ kpmg/co/pdf/2019/03/consumer-loss-barometer-economicsof-trust.pdf

Consumer trust is at the core of managing cyber and emerging technology risk

With the proliferation of innovative new technologies in financial services, digital banking has become the norm. The opportunities this presents are clear and already proven. Emerging technologies – including artificial intelligence (AI), blockchain, cognitive automation, advanced analytics, open application programming interfaces (APIs) – are enabling banks to increase efficiency, create new products and services, enhance customer experience and ultimately drive growth.

In Hong Kong, the development of virtual banking, the rise of fintech players and the introduction of an Open API Framework and the Faster Payment System are transforming the banking landscape. In parallel, evolving consumer expectations are driving the digital transformation agenda of most banks. It is therefore essential that these organisations continue to embrace emerging technologies in order to keep pace with their competition and market expectations.

A swift and effective response to security breaches

As technological innovation progresses, customers are developing heightened expectations of how they want their banks to deliver digital products and services, and expect security to be an integral part of their digital experience. The inclusion of third party service providers in the digital ecosystem also presents an additional challenge for banks, especially as open banking becomes mainstream.

With concerns around data security and privacy increasing, we believe that building and maintaining trust is crucial to attracting and retaining customers. Consumers currently place a large amount of trust in their banks, and accept the reality that certain cybersecurity and other risks related to the digitalisation of services cannot be completely avoided. However, in the event of a breach, they expect a swift and effective response.

KPMG research finds that an overwhelming majority of consumers would be willing to remain with their existing financial services provider following a breach if the organisation takes the appropriate actions to address their concerns.²⁸

Consumers currently place a large amount of trust in their banks, and accept the reality that certain cybersecurity and other risks related to the digitalisation of services cannot be completely avoided. However, in the event of a breach, they expect a swift and effective response. These actions include compensating customers for losses incurred, providing proof that vulnerabilities have been fixed, as well as assistance with any resulting credit or identity theft issues.

Data security and privacy are not the only concerns that banks have to address. Banks must confront concerns around broader emerging technology risks. In particular, the concerns around use of Al-driven technology for decision-making need to be appropriately managed.

Despite digital banking becoming the norm, not all customers are fully comfortable with all that it entails. We believe that banks should therefore focus on explaining the benefits of new processes such as digital onboarding to customers, while making it clear that the related technology and cyber risks are being managed, especially in an environment where banks are handling an increasing amount of customer data.

Embedding cybersecurity into the core of the business

From our work with leading banks, we know that as they continue to develop and deploy emerging technologies, cybersecurity and broader emerging technology risk management are rising up the senior management agenda. As technology evolves, so do the methods cyber criminals employ to manipulate weaknesses, as well as concerns around ethical use and inherent prejudice. This means that the traditional security protection and technology risk management mechanisms that banks have put in place may not be sufficient to deal with advanced technology-enabled attacks and currently unknown technology risks.

It is therefore important that banks have the agility and rigour to appropriately manage fast-evolving risks. We have seen a number of banks rethinking their approach and embedding emerging technology risk management and cybersecurity into the core of their digital and overall business strategy. This includes investing in cybersecurity as part of the bank's innovation budget, creating a holistic and agile process to become more resilient to the evolving nature of the cyber threat landscape, enhancing data protection capabilities and ensuring that cybersecurity and resilience become part of every digital adoption. Another positive development we have observed is that some banks are beefing up their capabilities of their emerging technology risk function.

Keys to success

In our view, banks' success in embedding cybersecurity and emerging technology risk management functions into their overall digital strategy often relies on a number of key factors. First, the tone from the top and how technology leaders embrace and drive a risk management culture, as well as where technology risk is positioned within banks, are paramount to ensuring security and maintaining customers' trust.

Second, when it comes to innovation and digital strategy, cybersecurity and emerging technology risk leaders need to rethink their approach around new initiatives. This involves a shift in mindset away from saying "it should not be done", to one that asks "how can it be done with less risk?".

Lastly, while skill shortages remain in cyber and emerging technology risk management, it is equally important that the existing talent broadens their understanding of the business beyond just their core capabilities. The banks that get this right will seek to educate their technology professionals on macro business issues to ensure that their cybersecurity and emerging technology risk functions have the knowledge and understanding to effectively incorporate risk insights into strategic discussions and decisions.

We believe that when cybersecurity and emerging technology risk management are left out of the business value chain, a trust ecosystem is not delivered, a significant commercial opportunity is missed, and the risk for all increases. Banks that understand that maintaining trust in the age of the customer and amid their digital transformation will be best placed for future success.

Conduct



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Banks should seek to better understand what it is in the culture that is enabling the underlying drivers of misconduct, and shift gears to become more forward-looking and proactive about shaping the right employee behaviour to prevent future instances of misconduct.

Viewing conduct risk through a forward-looking lens is the way of the future

Regulation continues to be a key driver of change for banks in Hong Kong and we are starting to see a greater focus on conduct and culture – with a particular focus on how banks treat their customers.

The way in which banks in Hong Kong have dealt with conduct issues has been predominantly backward-looking and reactionary, with a focus on remediation through the implementation of policies, procedures and controls hoping to deal with specific patterns of behaviour that caused issues in the past. While such organisational levers are an important part of a framework to manage conduct risk, they are not fully effective on their own. We believe that banks should instead seek to better understand what it is in the culture that is enabling the underlying drivers of misconduct, and shift gears to become more forward-looking and proactive about shaping the right employee behaviour to prevent future instances of misconduct.

A focus on culture, governance and remuneration

In particular, we continue to see regulators focussing on governance and individual accountability, as well as on how to design remuneration systems that reward good behaviour and support the values of an organisation. Proper governance and incentive systems are key levers to shape a bank's culture, which is arguably the biggest factor in a bank's ability to manage conduct risk. The Final Report of the Australian Royal Commission into Misconduct in the Banking, Superannuation and Financial Services Industry,²⁹ focused on three main areas of culture, governance and remuneration as being at the core of what happened in Australia's financial services entities. For example, the commission noted that remuneration and incentives communicate to staff what behaviour is rewarded, clearly linking remuneration to misconduct.

²⁹ 'Final Report - Royal Commission into Misconduct in the Banking, Superannuation and Financial Services Industry', February 2019, https://www.royalcommission.gov.au/sites/default/files/2019-02/fsrc-volume-1-final-report.pdf

Culture is also a key focus for regulators in Hong Kong, following the Hong Kong Monetary Authority's (HKMA) 2017 circular on Bank Culture Reform. In December 2018, the HKMA also announced³⁰ a requirement for authorised institutions to perform cultural self-assessments. While this is a positive step, it is our view that the self-assessments to date have focussed on what culture frameworks banks have put in place ("what to do"), rather than focusing on the outputs of the framework, and how culture is understood and manifests itself on a daily basis ("how it is done").

We believe that for bank culture reform to be effective in the long run, banks as well as the HKMA need to shift their focus to monitoring how well the desired cultural attributes have been embedded in banks. This requires a strong focus on leadership, change management, and the roles and accountabilities of employees, across all levels, as custodians and shapers of culture. The subsequent assessment of culture within banks will require the development of management information (MI) on culture and conduct, through a mix of deep and rigorous cultural assessments; both self-assessments and external assessments.

What should banks do?

Define and embed a structured means of assessing and reporting on Conduct and Culture. MI that captures the day-to-day behaviours that are taking place in the organisation will help banks identify potential gaps and weaknesses, enabling them to act swiftly to prevent future issues of misconduct from arising.

In doing so, banks must avoid the risk of conduct and culture within an organisation being driven by the numbers rather than the underlying behaviours behind them. This calls for a more thorough approach. An external cultural assessment, that brings a fresh perspective and proven method to analysing day-to-day behaviours and identifying employees' "Intent to Act" as a proxy for misconduct. Using proven psychological theory, the assessment provides evidence-based insight into the organisational levers that will positively influence employees' "Intent to Act". These assessments, when benchmarked against senior management's vision of what good culture looks like, provide a roadmap to address behaviours that would otherwise lead to misconduct.

As mentioned previously, part of the solution to driving the right culture throughout the organisation is remuneration and incentive systems. This is highlighted as a key factor by the HKMA and other regulators worldwide, and it is important that senior leaders at banks understand and ensure that they reward the people that exude the right behaviours. However, this should extend beyond pure financial rewards like bonuses to also include non-financial rewards such as career advancement opportunities and other forms of employee recognition. We strongly believe that a combination of both financial and non-financial incentives will help ensure that positive behaviour is rewarded and the right culture cascades throughout the organisation.

Importantly, the key to managing conduct risk is not just about putting in place new controls ("what to do"), but also about assessing day-to-day behaviour ("how it is done"). Behaviour can be influenced through the use of organisational levers such as KPIs, training and controls. However, our experience proves that embracing the softer side – maintaining a consistent tone across the organisation and ensuring the right culture is understood and embedded through consistent leadership and effective change management– is the way of the future for banks.

With increasing regulatory scrutiny on banking conduct and culture in Hong Kong, the successful banks will be the ones that recognise culture as a key differentiator that can set themselves apart from their competitors. Leading banks will also effectively weave their conduct culture into their growth strategy to ensure that they continue to keep the customer at the heart of their business.

An external cultural assessment, that brings a fresh perspective and proven method to analysing day-today behaviours and identifying employees' "Intent to Act" as a proxy for misconduct...... These assessments, when benchmarked against senior management's vision of what good culture looks like, provide a roadmap to address behaviours that would otherwise lead to misconduct.

³⁰ 'Supervision for Bank Culture', Hong Kong Monetary Authority, December 2018, https://www.hkma.gov.hk/media/eng/doc/key-information/guidelines-and-circular/2018/20181219e1.pdf

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The future of the second secon

Regulatory landscape



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A shifting regulatory focus towards conduct and data

In line with global trends, the last 12 months have seen Hong Kong's regulators focussing more on issues such as conduct, culture and compliance rather than traditional prudential issues.

One big prudential-focussed issue remains on the horizon, namely Basel 4. Preparations for this are underway, with the industry awaiting the results of a recent Quantitative Impact Study by the Basel Committee on Banking Supervision. In Hong Kong, banks are waiting for more clarity around how the Hong Kong Monetary Authority (HKMA) will implement Basel 4, particularly the internal rating-based changes and the treatment of residential mortgages. The HKMA is of the view that the market is currently towards the peak of the economic cycle, and as a result the countercyclical capital buffer is at its highest level. Indeed, Hong Kong has one of the highest regulatory capital requirements worldwide, and is therefore very well protected against any potential future downturn.

An increasing focus on conduct and culture

The HKMA and the Securities and Futures Commission (SFC) are shining the spotlight on conduct and culture, and on ensuring that banks are implementing appropriate frameworks and conducting holistic assessments to manage conduct risk effectively. The increasing importance of conduct was further highlighted in the Final Report of the Australian Royal Commission into Misconduct in the Banking, Superannuation and Financial Services Industry, which identified dishonesty and greed as the two main drivers behind misconduct.

A key area of focus for Hong Kong's regulators is on individual accountability, and ensuring that managers-in-charge and senior management are actively involved in ensuring that they promote the right culture throughout the organisation to prevent future conduct breaches. A recent self-assessment survey conducted by the HKMA, for example, asked pointed questions to senior management about whether they have personally affected good conduct outcomes, how this can be measured and what feedback mechanisms their banks have in place.

By concurrently implementing a data standard and building up their own analytics engine and big data capabilities, regulators will over time be able to much more effectively harness unstructured data and metadata to form a more datadriven, real-time identification and holistic assessment of emerging risks. Ultimately, it is clear that just having frameworks, controls and processes in place is not good enough for banks to manage conduct risk. Banks need to broaden their focus to better understand the underlying drivers of misconduct and drive the right behaviours throughout the organisation to affect sustained positive outcomes. We are starting to see some forward-looking organisations roll out predictive metrics and build up management information on culture and conduct to help them identify potential gaps and weaknesses, and to take positive actions to prevent future conduct breaches. However, this is still being tried and tested in the market, and banks need to ensure they develop a standard of metrics that is suitable for their business, especially given that different banks have different mandates, products and clients.

Technology innovation and data are core market topics

Regulators continue to focus on technology innovation and data as core market topics, both from a regulatory guidance lens as well as leveraging the potential power of big data, machine learning and Al-powered analytics.

Data is also high on the agenda for regulators. We are seeing the HKMA, SFC and Monetary Authority of Singapore place a greater focus on enhancing their analytics capabilities and, in parallel, expecting the same of supervised institutions, including promoting data standardisation requirements in the market. By concurrently implementing a data standard and building up their own analytics engine and big data capabilities, regulators will over time be able to much more effectively harness unstructured data and metadata to form a more data-driven, real-time identification and holistic assessment of emerging risks. Gone are the days where risk will be measured in silos of market, credit, operational or liquidity, but will be measured more holistically across the organisation inclusive of conduct, reputational and franchise risks.

With this in mind, it is essential that banks act fast to assess and improve how they collect, cleanse, manage and use their data. Only with clean and structured data can an organisation hope to harness the potential of big data and AI powered analytics. This is a fundamental issue that banks need to address to succeed and grow in the long run, especially as some continue to grapple with the challenges of increased regulatory expectations, legacy infrastructure and emerging asymmetric competitors who are often founded on the principles of digital data, agility and ecosystem platforms that provided deep insights into client behaviour and trends.

The challenge of legacy infrastructure for many banks is further amplified by the rapid growth of Chinese financial institutions – as well as Hong Kong's new virtual banks – many of which have built new and holistic digital infrastructure from scratch. A comprehensive, modern and agile IT infrastructure is critical to the effective operation of a financial institution, and banks are recognising that they need to up their game and fully harness their data to remain competitive. But the road ahead will not be easy.

As they upgrade their data infrastructure, it is crucial that banks minimise disruption to their business and commercial operations, which adds an extra layer of complexity. Banks that fail to evolve and enhance their data infrastructure will find themselves falling behind not just their peers, but the regulators too. Instead, over time, the successful banks will be the ones that get their data strategy and conduct culture right, while continuing to place their customers at the heart of their growth agenda.



Marie Gervacio Partner, Financial Risk Management KPMG China

With LIBOR set to be phased out, does this spell the end of HIBOR?

Following the UK Financial Conduct Authority's announcement that it will no longer require banks to submit LIBOR data after 2021, financial institutions should have already started to implement an enterprise-wide programme to transition from LIBOR to alternative risk-free rates (ARRs).

In Hong Kong, there is ongoing discussion around identifying an ARR for the Hong Kong Interbank Offered Rate (HIBOR). HIBOR has been in place for many years and is widely recognised by market participants. According to the HKMA, HIBOR-based assets of the banking sector amounted to around HKD 3,400 billion at the end of 2018, and HIBOR-based mortgages accounted for 86 percent of mortgage loans approved in March 2019.³¹

The Treasury Markets Association (TMA) has proposed adopting the Hong Kong Dollar Overnight Index Average (HONIA) – which is based solely on transaction data – as the ARR for HIBOR. The TMA is now consulting the industry on some technical refinements to HONIA around data sources, the reporting window and publication times.

The TMA also noted in its consultation paper that HIBOR is a benchmark widely recognised by market participants and is viewed as desirable and necessary to remain in use. Indeed, while the HKMA and TMA have proposed HONIA as the ARR for HIBOR, the HKMA has also stated that it does not plan to discontinue HIBOR. Both HIBOR and HONIA are therefore expected to co-exist as benchmark reference rates in Hong Kong. However, with the global trend moving towards the use of ARRs, we expect to see banks in Hong Kong follow suit and increasingly use HONIA in the longer term as an alternative to HIBOR.

At the same time, financial institutions still need to prepare for the end of LIBOR. The implications for banks in Hong Kong are significant. According to the HKMA, LIBOR-based assets of the local banking sector amounted to HKD 3,800 billion at the end of 2018. It is therefore essential that banks begin their preparatory work around this, which includes identifying all LIBOR contracts, assessing the related fallback options and understanding the potential impact across products, processes and systems. Banks should also ensure that these efforts are focussed across business lines and support functions, which include sales and trading, finance, operations, risk, compliance and legal.

It is encouraging to see that some banks have started preparing for the LIBOR transition. New technologies such as artificial intelligence, machine learning, natural language processing and optical character recognition can be leveraged to manage the impact of the large volume of affected contracts. Importantly, banks in Hong Kong should also take advantage of the LIBOR transition to identify contracts that make references to HIBOR and their fallback clauses to better prepare for any future possible changes to HIBOR.

³¹ HKMA, May 2019, https://www.hkma.gov.hk/eng/key-information/insight/20190502.shtml



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Tax developments will drive banking opportunities in Hong Kong, but potential challenges lie ahead

Hong Kong's tax landscape has experienced significant change in the past few years, with the new administration keen to use tax as a lever for economic development. A number of key international and local developments point to opportunities for banks, but also potential challenges ahead in terms of how they pay tax on their income, as well as their role as financial intermediaries.

Tax as a lever for economic development

As part of its push to use tax as a driver for economic growth, the government has introduced concessions and incentives to encourage aircraft leasing, to promote Hong Kong as a corporate treasury centre and an asset management hub, all of which present business opportunities for banks. We also expect continued discussion around whether banks can obtain concessions for some of their R&D expenditure around IT development. This will become increasingly important for banks – as well as the new virtual banks in Hong Kong – which are expected to continue to spend big on IT and digital transformation.

In addition, the implementation of new transfer pricing rules in Hong Kong from 1 April 2018 will have a knock-on effect on investment banks and branches due to the requirement to attribute some capital to bank branches, which will change their tax profile. Moreover, the new rules call for more robust control over cost infrastructure, and banks – especially those that run regional businesses – need to carefully examine the costs and income that are being allocated to their Hong Kong operations. These developments will change the analysis around how the Hong Kong business is perceived and operates.

The Financial Services Development Council and other government bodies continue to look at solutions to remove impediments and to encourage banking business in Hong Kong. One area that we expect greater focus on in the year ahead is around enhancing Hong Kong's position as a regional booking centre for securities and derivatives.

We continue to see a global trend towards a more technology-driven method of online payments and filings. With a lot of tax filings still being very paper-based in Hong Kong, it is essential that not just the banks, but also the revenue authorities and other government bodies keep pace with this global movement. Banks would also appreciate an improvement in administrative efficiency around the operation of Hong Kong taxes. We continue to see a global trend towards a more technology-driven method of online payments and filings. With a lot of tax filings still being very paper-based in Hong Kong, it is essential that not just the banks, but also the revenue authorities and other government bodies keep pace with this global movement.

A shift from offshore to onshore?

Looking ahead, we expect a number of international tax developments to have an impact on banks and on the development of law and practice in Hong Kong. An OECD study³² on addressing the tax challenges arising from the digitalisation of the economy suggests that there may be challenges ahead for banks. This could include changes to the current transfer pricing settings around where income is taxed, which could add a layer of complexity for banks that operate across many jurisdictions, and for banks that collect tax on behalf of governments in various jurisdictions.

Also driving business to Hong Kong is a new Economic Substance Law introduced in the Cayman Islands effective 1 January 2019 that requires an increased level of substance to be maintained in the Cayman Islands for all companies that fall within the new regime. Similar new laws have been introduced in the British Virgin Islands, Bermuda and some other offshore jurisdictions.

This new law requires groups using Cayman Islands and other offshore jurisdiction companies to review their entities to evaluate whether or not they need to comply or be carved out and exempted from the new substance requirements. It is our view that the new substance requirements will drive a lot of offshore structures onshore, with Hong Kong likely to be a significant beneficiary. Moving offshore holdings and trading in other businesses to Hong Kong will ultimately benefit banks in terms of managing their KYC requirements as it should make it easier to understand their customers and risk profile. This might also present additional opportunities for banks because as structures become more transparent, companies may want more banking services to originate out of Hong Kong.

For private banking, the move away from offshore jurisdictions means that organisations should assess if any changes need to be made to customer structures and the bank's product offering. The amended PRC Individual Income Tax law is also driving private banks to review their structures and product offering. The amended law introduces general anti-avoidance rules which bring into focus the investment structures that private banks, wealth managers, personal investors and high net worth individuals have in place to hold offshore investments. It is important to note that there is a strong push globally and by the OECD on these structures – it is not just confined to mainland China – and all parties need to revisit their arrangements to ensure they remain compliant.

Overall, regulatory expectations for greater transparency and for banks to ensure that they know who their clients are will continue in the foreseeable future. Furthermore, with the launch of virtual banks in Hong Kong, it will be interesting to see how these new players cope with the evolving tax landscape and demands to maintain higher levels of transparency and standards. For example, virtual banks will be subject to the same requirements around the Common Reporting Standards as traditional banks, and will need to find efficient means to identify who their customers are, and have the systems and processes in place to report all that information to the tax authorities. Ensuring that their systems can manage all of this in an efficient manner is a key challenge that they will face.

Future of banking in China



Arthur Wang Partner, Head of Banking KPMG China



Sam Shi Partner, Financial Services KPMG China

The future of banking in China

China's banking sector exhibited steady growth in 2018. Asset quality remained stable and total assets increased by 6.3 percent year-on-year, with banks showing stronger capital adequacy and liquidity measures. Despite some challenges ahead, the outlook remains positive for banking in China. However, the rapid pace of regulatory and technological change, coupled with heightened customer expectations and increasing competition, means that the future of banking in China will look significantly different to the landscape today.

An expanded banking ecosystem

The rapid pace of technological advancement and adoption, driven by an increasingly influential and digitally-savvy customer, is having a transformative effect on banking in China – from payments and retail banking to commercial banking and wealth management. Meanwhile, the development of fintech, digital and open banking and the proliferation of emerging technologies like artificial intelligence, natural language processing and automation continue to disrupt the banking industry.

Against this backdrop, the successful banks of the future will be the ones that are able to capitalise on these developments to deliver new and personalised products and services, manage their business more efficiently and enhance customer experience. The leaders will have also built scalable IT architecture that centres around the concept of open data, and that also enables the business to be agile enough to respond quickly to market changes.

The future of banking in China will also have fintech deeply embedded into the ecosystem. Many banks are embracing this trend and devising an appropriate winning strategy for collaborating – or competing – with the growing number of fintech firms and pure technology companies that are starting to enter the financial services space. We have seen some banks continuing to develop their own fintech solutions, while an increasing number of financial institutions are entering into strategic partnerships and alliances with fintech firms.

Meanwhile, other larger players have opted to acquire fintech firms outright, turning the fintech industry into an even more competitive market. By working closely and innovating with fintech and other technology players, some banks will find that their business and operating models will eventually undergo much more transformation than anticipated.

The digitisation of the risk function

The rapid pace of digitalisation and the benefits for revenue growth, cost optimisation and an enhanced customer experience means that it is essential that banks view digital transformation as a key priority. The ones that do not actively pursue a digital agenda will be left behind. However, as banks embark on their digital transformation journey, they must make sure that their risk functions do as well. The banks that can successfully digitise their risk function will be able to generate value by improving the overall efficiency of risk management and providing more effective regulatory compliance.

The need to transform and strengthen risk management practices is made even more clear as regulators in China continue to clamp down on risks in the financial system, and global regulations like IFRS 9 and Basel 3 continue to take up a lot of banks' focus and resources. In order for banks to be successful in the future, they will need to elevate risk management to the next level, and ensure that the risk function is agile and robust enough to enable banks to pursue their growth agenda while balancing and managing the associated risks.

Opening up China's financial services sector

The continued opening up of China's financial services sector to foreign investment is also transforming the future banking landscape. International financial institutions are already making significant strides to expand their presence in mainland China. In December last year, UBS became the first foreign company to acquire majority ownership of a securities joint venture in China, and other foreign financial institutions have followed suit – or indicated their intentions to – so far this year. We expect this trend to continue in the coming year, with consumers set to benefit from the increased cooperation between local and international banks to combine knowledge, capabilities, resources and talent to provide new and improved products and services.

In addition, key policy initiatives such as the development of the Greater Bay Area and the Belt and Road Initiative will continue to be major drivers of investment, trade and economic development, presenting a number of opportunities for banks. These regional initiatives will add significant momentum to the development of corporate banking in the region, and will also stimulate demand for financing, cash management, payments and remittance services.

While China's banking industry has made rapid progress along its transformation journey, there is still a long way to go. During this process, banks must maintain ongoing communication with government agencies and regulatory authorities, re-examine their business development and consumer education and protection from a strategic perspective, and maintain risk management as the core value to prudently make change happen.

Overall, the successful banks in the longer term will be the ones that change their strategic position in the market from fund providers to value providers, and eventually, ecosystem co-creators. This also involves establishing cross-platform/ scenario touchpoints within the ecosystem, and seamlessly embedding their services into the lifecycle of customers through closer cooperation with fintech firms and other third party service providers. Perhaps most importantly, the leading banks of the future will be the ones that build their business models and digital infrastructure with the customer at the core of their strategy.

As banks embark on their digital transformation journey, they must make sure that their risk functions do as well. The banks that can successfully digitise their risk function will be able to generate value by improving the overall efficiency of risk management and providing more effective regulatory compliance.

Greater Bay Area



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Creating a seamless banking experience in the Greater Bay Area

The Greater Bay Area (GBA) represents a key strategic component of China's national development blueprint, with the aim of promoting close cooperation between Hong Kong, Macau and nine cities in Guangdong Province to create a globally competitive and world-class city cluster.

In February, China's central government authorities issued a 'Development Plan' for the GBA, which lays a solid foundation for achieving this ambition. The Development Plan identifies Guangzhou, Shenzhen, Hong Kong and Macau as the four 'core cities' to drive the GBA's development, with Hong Kong importantly highlighted as an international centre for finance and asset management, as well the global offshore RMB business hub for the GBA.

While plans for the GBA's development are more long-term in nature, ongoing reforms and greater regulatory cooperation are already creating an increasing demand for financial services and presenting a number of business opportunities for banks. For banks in Hong Kong, the next couple of years will therefore be essential to devise and implement a strategy for the region to capitalise on these opportunities.

Facilitating cross-border payments and account opening

The ultimate aim for banks should be to create a seamless and integrated experience for their customers across the three jurisdictions of Guangdong, Hong Kong and Macau. The optimal model entails having one centralised relationship manager who manages account opening and management, as well as a seamless approach to KYC and transactions. Getting this right from the outset will be key for banks to effectively service both corporates with operations in multiple jurisdictions in the GBA, as well as individuals who live and work across boundaries.

In a recent joint report³³ by KPMG China and the Australian Chamber of Commerce in Hong Kong – which surveyed Hong Kong's international business community on how to maximise business opportunities in the GBA – senior executives highlighted the portability of bank accounts as a key issue that needs to be addressed. The government's GBA Development Plan acknowledges this challenge, and proposes to expand the functions of offshore accounts and move towards capital account convertibility. This would be a major step towards facilitating cross-border investment and financing activities in the region.

Some banks have already started to make headway in creating a seamless banking experience for their customers. From March this year, existing customers of Bank of China (Hong Kong) are allowed to open accounts in the bank's mainland China branches without having to travel to mainland China in person.

To facilitate the seamless transfer of payments in the GBA, Bank of China (Hong Kong) also launched its e-wallet BOC Pay app in December to enable its Hong Kong customers to make mobile payments in mainland China without the need to have a bank account there. In comparison, Hong Kong users of payment providers such as Alipay and WeChat Pay are only permitted to make payments in mainland China if they have a bank account in the mainland. We believe that there is a significant first mover advantage for the banks that are able to offer an effective platform for cross-border payments to their customers, especially given the proliferation of payments providers in the GBA.

Wealth management opportunities in the GBA

In addition to account opening and payments, the People's Bank of China and the HKMA are continuing to look at ways to facilitate cross-border wealth management services in the GBA. Further developments in this space will be key for banks and wealth managers aiming to serve the roughly 70 million residents in the region. While banks will continue to offer wealth management services to ultra-high net worth individuals in the GBA, they are also increasing their focus on addressing the needs of other affluent clients (those who hold between USD 500,000 and 5 million in assets). This fast-growing segment in the region is increasingly demanding greater access to offshore global products.

However, banks will need further clarity on the expansion of channels for mainland China and Hong Kong residents to invest in financial products in each other's markets. The Development Plan has laid the foundations for achieving this with regards to insurance by supporting insurance institutions in the GBA to jointly develop innovative cross-border motor vehicle and medical insurance products (subject to compliance with the legal and regulatory requirements). The plan also proposes to provide facilitation services for cross-border policy holders in areas such as underwriting, investigation and claims.

The creation of more integrated insurance products for the GBA will also extend to wealth management over time, with more overseas products being allowed to be sold to investors onshore in mainland China. Once this is achieved, we believe that conduct should remain a key regulatory priority to ensure that customers and investors that are exposed to new financial products are protected and treated fairly.

While banks will continue to offer wealth management services to ultra-high net worth individuals in the GBA, they are also increasing their focus on addressing the needs of other affluent clients (those who hold between USD 500,000 and 5 million in assets). This fast-growing segment in the region is increasingly demanding greater access to offshore global products.

³³ 'Connecting opportunities in the Greater Bay Area', KPMG China and the Australian Chamber of Commerce in Hong Kong, October 2018, https://assets.kpmg/content/dam/kpmg/cn/pdf/en/2018/11/connecting-opportunities-in-the-greater-bay-area.pdf

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The need for greater regulatory harmonisation

Following on from the Development Plan, we expect to see further clarity from local governments and regulators in the GBA on how to harmonise the different regulations and tax regimes in the region. Further financial regulatory coordination between the key regulators will enable banks to benefit from reduced tax and compliance costs and increased operational efficiency.

Overall, the ongoing development of the GBA is expected to increase demand for financial services, stimulate cross-border investment and further relax restrictions on capital flows between mainland China, Hong Kong and Macau. This is likely to lead to the creation of innovative products and opportunities for banks in Hong Kong to grow their presence in the GBA.

The short and long-term business opportunities for banks in the GBA are clear, and as the regulatory landscape becomes more transparent, operationalising a strategy for the region will become easier. We believe that the banks that are able to gain a first mover advantage in the GBA, while ensuring that they create a truly seamless experience for all their customers, will be the ones that will enjoy more long-term success in the region.

The ultimate aim for banks should be to create a seamless and integrated experience for their customers across the three jurisdictions of Guangdong, Hong Kong and Macau. The optimal model entails having one centralised relationship manager who manages account opening and management, as well as a seamless approach to KYC and transactions.

Financial highlights

Performance rankings:

- Licensed banks
- Restricted licence banks
- Deposit-taking companies
- Foreign bank branches

Performance rankings

Licen	sed banks							
		HK\$ millions	Ranking	Net profit after tax	HK\$ millions	Ranking	Cost/income ratio	
1.	Hongkong And Shanghai Banking Corporation Limited (The)	8,263,454	1.	Hongkong And Shanghai Banking Corporation Limited (The)	112,116	1.	Industrial And Commercial Bank of China (Asia) Limited	22.9%
2.	Bank of China (Hong Kong) Limited	2,820,684	2.	Bank of China (Hong Kong) Limited	31,615	2.	Bank of China (Hong Kong) Limited	27.8%
3.	Hang Seng Bank, Limited	1,571,297	3.	Hang Seng Bank, Limited	24,188	3.	Hang Seng Bank, Limited	29.5%
4.	Standard Chartered Bank (Hong Kon Limited	^{g)} 1,176,234	4.	Standard Chartered Bank (Hong Kon Limited	g) 9,668	4.	Shanghai Commercial Bank Limited	31.6%
5.	Industrial And Commercial Bank of China (Asia) Limited	893,618	5.	Industrial And Commercial Bank of China (Asia) Limited	8,278	5.	Chiyu Banking Corporation Limited	33.2%
6.	Bank of East Asia, Limited (The)	839,451	6.	Bank of East Asia, Limited (The)	6,554	6.	CMB Wing Lung Bank Limited	35.1%
7.	China Construction Bank (Asia) Corporation Limited	480,970	7.	DBS Bank (Hong Kong) Limited	5,128	7.	Nanyang Commercial Bank, Limited	35.9%
8.	Nanyang Commercial Bank, Limited	466,022	8.	Nanyang Commercial Bank, Limited	3,978	8.	China Construction Bank (Asia) Corporation Limited	39.0%
9.	DBS Bank (Hong Kong) Limited	445,661	9.	China Construction Bank (Asia) Corporation Limited	3,574	9.	China CITIC Bank International Limited	40.2%
10.	China CITIC Bank International Limite	ed 362,945	10.	CMB Wing Lung Bank Limited	3,218	10.	Hongkong And Shanghai Banking Corporation Limited (The)	41.5%
Restr	icted licence banks							
Ranking	Total assets	HK\$ millions	Ranking	Net profit after tax	HK\$ millions	Ranking	Cost/income ratio	
1.	Bank of Shanghai (Hong Kong) Limite	ed 28,590	1.	Citicorp International Limited	2,070	1.	Siam Commercial Bank Public Company Limited (The)	14.9%
2.	Morgan Stanley Asia International Limited	27,134	2.	J.P. Morgan Securities (Asia Pacific) Limited	762	2.	Scotiabank (Hong Kong) Limited	26.1%
3.	Scotiabank (Hong Kong) Limited	16,480	3.	Morgan Stanley Asia International Limited	582	3.	Bank of Shanghai (Hong Kong) Limited	33.4%
4.	Siam Commercial Bank Public Company Limited (The)	14,108	4.	Bank of Shanghai (Hong Kong) Limite	ed 218	4.	KDB Asia Limited	35.0%
5.	KDB Asia Limited	13,693	5.	KDB Asia Limited	124	5.	Kasikornbank Public Company Limited	36.0%
6.	J.P. Morgan Securities (Asia Pacific)	12,994	6.	Scotiabank (Hong Kong) Limited	115	6.	Citicorp International Limited	44.1%
7.	Limited Kasikornbank Public Company Limite	ed 11,861	7.	ORIX Asia Limited	72	7.	Allied Banking Corporation (Hong	47.4%
8.	Bank of China International Limited	10,330	8.	Siam Commercial Bank Public Comp		8.	Kong) Limited ORIX Asia Limited	63.6%
9.	Citicorp International Limited	7,676	9.	Limited (The) Allied Banking Corporation (Hong Ko		9.	Morgan Stanley Asia International	72.2%
10.	ORIX Asia Limited	6,517	10.	Limited Bank of China International Limited	23	10.	Limited Habib Bank Zurich (Hong Kong)	72.5%
	sit-taking companies	0,017	10.		20	10.	Limited	72.070
-		HK\$ millions	Ranking	Net profit after tax	HK\$ millions	Ranking	Cost/income ratio	
1.	Public Finance Limited	7,136	1.	Public Finance Limited	255	1.	BCOM Finance (Hong Kong) Limited	11.1%
2.	Woori Global Markets Asia Limited	3,624	2.	Shinhan Asia Limited	125	2.	Shinhan Asia Limited	21.6%
3.	Kexim Asia Limited	3,252	3.	Woori Global Markets Asia Limited	36	3.	Woori Global Markets Asia Limited	40.3%
4.	KEB Hana Global Finance Limited	1,667	4.	KEB Hana Global Finance Limited	33	4.	KEB Hana Global Finance Limited	43.1%
5.	Vietnam Finance Company Limited	947	5.	BPI International Finance Limited	27	5.	Kexim Asia Limited	45.2%
6.	Shinhan Asia Limited	809	6.	Kexim Asia Limited	17	6.	Public Finance Limited	48.7%
7.	Gunma Finance (Hong Kong) Limited		7.	BCOM Finance (Hong Kong) Limited	7	7.	Henderson International Finance	50.0%
8.	BPI International Finance Limited	456	8.	Vietnam Finance Company Limited	6	8.	Limited Vietnam Finance Company Limited	50.0%
9.	Commonwealth Finance Corporation		9.	Commonwealth Finance Corporation		9.	Corporate Finance (D.T.C.) Limited	57.1%
10.	Limited Corporate Finance (D.T.C.) Limited	329	10.	Limited Gunma Finance (Hong Kong) Limited		10.	Commonwealth Finance Corporation	64.7%
	•	020		Canna Financo (Fiong Rong, 2milioa	J. J	101	Limited	0 117 /0
	gn bank branches Total assets	HK\$ millions	Ranking	Net profit after tax	HK\$ millions	Banking	Cost/income ratio	
1.	Agricultural Bank of China Limited	560,404	1.	Bank of Communications Co., Ltd.	4,116	1.	China Development Bank	7.9%
2.	MUFG Bank, Ltd.	513,520	2.	Citibank, N.A.	3,792	2.	Agricultural Bank of China Limited	8.6%
3.	Bank of China Limited	511,426	3.	Agricultural Bank of China Limited	3,391	3.	Axis Bank Limited	9.7%
4.	Mizuho Bank, Ltd.	506,600	4.	DBS Bank Ltd.	2,846	4.	Punjab National Bank	9.7%
5.	Bank of Communications Co., Ltd.	468,093	5.	UBS AG	2,655	5.	Bank of China Limited	10.6%
6.	Citibank, N.A.	424,428	6.	China Merchants Bank Co., Ltd.	2,450	6.	Chang Hwa Commercial Bank, Ltd.	11.0%
7.	China Construction Bank Corporation	n 405,025	7.	Industrial Bank Co., Ltd.	2,119	7.	Shinhan Bank	11.1%
8.	China Development Bank	370,650	8.	United Overseas Bank Ltd.	1,634	8.	Allahabad Bank	11.3%
Q	DBS Bank Itd	226 617	0	Chipa Construction Bank Corporation	1 611	0	First Commorgial Bank 1td	11 5%

Source: Extracted from individual banks' financial and public statements

326,617

321,227

9.

10.

9.

10.

DBS Bank Ltd.

BNP Paribas

China Construction Bank Corporation

China Minsheng Banking Corp., Ltd.

1,611

1,456

9.

10.

First Commercial Bank, Ltd.

China Merchants Bank Co., Ltd.

11.5%

11.9%

Sanking	sed banks		Banking	Growth in ascote		Banking	Growth in not profit after tax	
	Return on equity	15 40/		Growth in assets	00.00/	Ranking	Growth in net profit after tax	
1.	Hang Seng Bank, Limited Hongkong And Shanghai Banking	15.4%	1.	Citibank (Hong Kong) Limited	23.8%	1.	Fubon Bank (Hong Kong) Limited	41.2
2.	Corporation Limited (The)	14.3%	2.	Chiyu Banking Corporation Limited	22.3%	2.	Chiyu Banking Corporation Limited	33.4
3.	Citibank (Hong Kong) Limited	13.7%	3.	Chong Hing Bank Limited	16.4%	3.	DBS Bank (Hong Kong) Limited	31.8
4.	DBS Bank (Hong Kong) Limited	13.3%	4.	DBS Bank (Hong Kong) Limited	12.0%	4.	Citibank (Hong Kong) Limited	30.6
5.	Bank of China (Hong Kong) Limited	12.7%	5.	Bank of China (Hong Kong) Limited	11.9%	5.	Nanyang Commercial Bank, Limited	22.2
6.	Standard Chartered Bank (Hong Kong) Limited	12.5%	6.	Standard Chartered Bank (Hong Kong) Limited	9.4%	6.	Hang Seng Bank, Limited	20.9
7.	Shanghai Commercial Bank Limited	10.6%	7.	Nanyang Commercial Bank, Limited	7.1%	7.	Shanghai Commercial Bank Limited	17.1
8.	Chiyu Banking Corporation Limited	9.5%	8.	Shanghai Commercial Bank Limited	7.1%	8.	Hongkong And Shanghai Banking Corporation Limited (The)	16.8
9.	Chong Hing Bank Limited	8.8%	9.	Hang Seng Bank, Limited	6.3%	9.	OCBC Wing Hang Bank Limited	14.7
10.	Public Bank (Hong Kong) Limited	8.7%	10.	China CITIC Bank International Limited	5.4%	10.	Standard Chartered Bank (Hong	14.0
Restri	cted licence banks						Kong) Limited	
	Return on equity		Ranking	Growth in assets		Ranking	Growth in net profit after tax	
1.	Morgan Stanley Asia International	27.4%	1.	KDB Asia Limited	26.7%	1.	Goldman Sachs Asia Bank Limited	200.0
2.	Limited Citicorp International Limited	26.5%	2.	Scotiabank (Hong Kong) Limited	12.0%	2.	Morgan Stanley Asia International	
	J.P. Morgan Securities (Asia Pacific)						Limited	196.9
3.	Limited Allied Banking Corporation (Hong	10.1%	3.	Bank of Shanghai (Hong Kong) Limited J.P. Morgan Securities (Asia Pacific)	10.9%	3.	Nippon Wealth Limited	38.6
4.	Kong) Limited	7.2%	4.	Limited	10.3%	4.	ORIX Asia Limited	35.8
5.	KDB Asia Limited	5.3%	5.	Allied Banking Corporation (Hong Kong) Limited	4.8%	5.	Citicorp International Limited	26.0
6.	Kasikornbank Public Company Limited	5.0%	6.	Nippon Wealth Limited	3.9%	6.	Siam Commercial Bank Public Company Limited (The)	9.7
7.	Bank of Shanghai (Hong Kong) Limited	4.9%	7.	Banc of America Securities Asia Limited	1.2%	7.	Bank of China International Limited	4.5
8.	Habib Bank Zurich (Hong Kong) Limited	3.4%	8.	Goldman Sachs Asia Bank Limited	-0.6%	8.	Bank of Shanghai (Hong Kong)	-1.4
9.	ORIX Asia Limited	3.4%	9.	Kasikornbank Public Company Limited	-1.9%	9.	Limited Kasikornbank Public Company	-4.2
			•••	······································		•••	Limited	
10	Scotiabank (Hong Kong) Limited	21%	10	Siam Commercial Bank Public Company	-27%	10	Allied Banking Corporation (Hong	-79
10.	Scotiabank (Hong Kong) Limited	2.1%	10.	Siam Commercial Bank Public Company Limited (The)	-2.7%	10.		-7.9
Depos	sit-taking companies	2.1%		Limited (The)	-2.7%		Allied Banking Corporation (Hong Kong) Limited	-7.9
Depos Ranking	sit-taking companies Return on equity		Ranking	Limited (The) Growth in assets		Ranking	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax	
Depos Ranking 1.	sit-taking companies Return on equity Public Finance Limited	16.4%	Ranking 1.	Limited (The) Growth in assets Woori Global Markets Asia Limited	70.7%	Ranking 1.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited	450.0
Depos Ranking	sit-taking companies Return on equity		Ranking	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited		Ranking	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax	450.0
Depos Ranking 1.	sit-taking companies Return on equity Public Finance Limited	16.4%	Ranking 1.	Limited (The) Growth in assets Woori Global Markets Asia Limited	70.7%	Ranking 1.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited	450.0 350.0
Depos Ranking 1. 2.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited	16.4% 15.3%	Ranking 1. 2.	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited	70.7% 19.8%	Ranking 1. 2.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited	450.0 350.0 157.1
Depos Ranking 1. 2. 3.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited	16.4% 15.3% 10.8%	Ranking 1. 2. 3.	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited	70.7% 19.8% 8.2%	Ranking 1. 2. 3.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited	450.0 350.0 157.1 100.0
Depos Ranking 1. 2. 3. 4.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited	16.4% 15.3% 10.8% 7.2%	Ranking 1. 2. 3. 4.	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation	70.7% 19.8% 8.2% 5.6%	Ranking 1. 2. 3. 4.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited	450.0 350.0 157.1 100.0 50.0
Depos Ranking 1. 2. 3. 4. 5.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited	16.4% 15.3% 10.8% 7.2% 5.6%	Ranking 1. 2. 3. 4. 5.	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited	70.7% 19.8% 8.2% 5.6% 4.9%	Ranking 1. 2. 3. 4. 5.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Corporate Finance (D.T.C.) Limited	-7.9 450.0 350.0 157.1 100.0 50.0 50.0 40.0
Depos Ranking 1. 2. 3. 4. 5. 6.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited	16.4% 15.3% 10.8% 7.2% 5.6% 4.3%	Ranking 1. 2. 3. 4. 5. 6.	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited Public Finance Limited	70.7% 19.8% 8.2% 5.6% 4.9% 4.1%	Ranking 1. 2. 3. 4. 5. 6.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Corporate Finance (D.T.C.) Limited	450.0 350.0 157.1 100.0 50.0 50.0 40.0
Depos Ranking 1. 2. 3. 4. 5. 6. 7. 8.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited Kexim Asia Limited Corporate Finance (D.T.C.) Limited	16.4% 15.3% 10.8% 7.2% 5.6% 4.3% 3.8% 3.0%	Ranking 1. 2. 3. 4. 5. 6. 7. 8.	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited Public Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance	70.7% 19.8% 8.2% 5.6% 4.9% 4.1% 2.4% 2.2%	Ranking 1. 2. 3. 4. 5. 6. 7. 8.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Corporate Finance (D.T.C.) Limited Gunma Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited	450.0 350.0 157.1 100.0 50.0
Depos Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited Kexim Asia Limited Corporate Finance (D.T.C.) Limited BCOM Finance (Hong Kong) Limited Commonwealth Finance Corporation	16.4% 15.3% 10.8% 7.2% 5.6% 4.3% 3.8% 3.0% 2.8%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9.	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited Public Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance Limited	70.7% 19.8% 8.2% 5.6% 4.9% 4.1% 2.4% 2.2% 1.8%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Corporate Finance (D.T.C.) Limited Gunma Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited Shinhan Asia Limited Chong Hing Finance Limited Henderson International Finance	450.0 350.0 157.1 100.0 50.0 50.0 40.0 30.2 1.8
Depos Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited Kexim Asia Limited Corporate Finance (D.T.C.) Limited BCOM Finance (Hong Kong) Limited Commonwealth Finance Corporation	16.4% 15.3% 10.8% 7.2% 5.6% 4.3% 3.8% 3.0%	Ranking 1. 2. 3. 4. 5. 6. 7. 8.	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited Public Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance	70.7% 19.8% 8.2% 5.6% 4.9% 4.1% 2.4% 2.2%	Ranking 1. 2. 3. 4. 5. 6. 7. 8.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Gonporate Finance (D.T.C.) Limited Gunma Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited Shinhan Asia Limited Chong Hing Finance Limited	450.0 350.0 157.1 100.0 50.0 50.0 40.0 30.2 1.8
Depos lanking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited Kexim Asia Limited Corporate Finance (D.T.C.) Limited BCOM Finance (Hong Kong) Limited Commonwealth Finance Corporation	16.4% 15.3% 10.8% 7.2% 5.6% 4.3% 3.8% 3.0% 2.8%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited Public Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance Limited Fubon Credit (Hong Kong) Limited	70.7% 19.8% 8.2% 5.6% 4.9% 4.1% 2.4% 2.2% 1.8%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Corporate Finance (D.T.C.) Limited Gunma Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited Shinhan Asia Limited Chong Hing Finance Limited Henderson International Finance Limited	450.0 350.0 157.1 100.0 50.0 40.0 30.2
Depos lanking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited Kexim Asia Limited Corporate Finance (D.T.C.) Limited BCOM Finance (Hong Kong) Limited Commonwealth Finance Corporation	16.4% 15.3% 10.8% 7.2% 5.6% 4.3% 3.8% 3.0% 2.8%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Ranking	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited BCOM Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance Limited Fubon Credit (Hong Kong) Limited Growth in assets	70.7% 19.8% 8.2% 5.6% 4.9% 4.1% 2.4% 2.2% 1.8% 1.0%	Ranking 1. 2. 3. 4. 5. 6. 7. 6. 7. 8. 9. 10.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Corporate Finance (D.T.C.) Limited Gunma Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited Shinhan Asia Limited Chong Hing Finance Limited Henderson International Finance Eimited	450.0 350.0 157.1 100.0 50.0 40.0 30.2 1.8
Depos lanking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited Kexim Asia Limited Corporate Finance (D.T.C.) Limited BCOM Finance (Hong Kong) Limited Commonwealth Finance Corporation	16.4% 15.3% 10.8% 7.2% 5.6% 4.3% 3.8% 3.0% 2.8%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Ranking 1.	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited BCOM Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance Limited Growth in assets Barclays Bank PLC	70.7% 19.8% 8.2% 5.6% 4.9% 4.1% 2.4% 2.2% 1.8% 1.0%	Ranking 1. 2. 3. 4. 5. 6. 7. 6. 9. 10. 8. 10. 8. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Corporate Finance (D.T.C.) Limited Gunma Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited Shinhan Asia Limited Chong Hing Finance Limited Henderson International Finance Limited Growth in net profit after tax	450.0 350.0 157. 100.0 50.0 30.3 1.4 0.3 571.4
Depos lanking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited Kexim Asia Limited Corporate Finance (D.T.C.) Limited BCOM Finance (Hong Kong) Limited Commonwealth Finance Corporation	16.4% 15.3% 10.8% 7.2% 5.6% 4.3% 3.8% 3.0% 2.8%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Ranking 1. 2.	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited BCOM Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance Limited Growth in assets Barclays Bank PLC Erste Group Bank AG	70.7% 19.8% 8.2% 5.6% 4.9% 4.1% 2.2% 1.8% 1.0%	Ranking 1. 2. 3. 4. 5. 6. 7. 6. 7. 8. 9. 10. Ranking 1. 2.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Corporate Finance (D.T.C.) Limited Gunma Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited Shinhan Asia Limited Chong Hing Finance Limited Henderson International Finance Limited Growth in net profit after tax Woori Bank Bank of India	450.0 350.0 157. 100.0 50.0 40.0 30.2 30.2 571.4 535.0
Depos lanking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited Kexim Asia Limited Corporate Finance (D.T.C.) Limited BCOM Finance (Hong Kong) Limited Commonwealth Finance Corporation	16.4% 15.3% 10.8% 7.2% 5.6% 4.3% 3.8% 3.0% 2.8%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Ranking 1.	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited BCOM Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance Limited Growth in assets Barclays Bank PLC	70.7% 19.8% 8.2% 5.6% 4.9% 4.1% 2.4% 2.2% 1.8% 1.0%	Ranking 1. 2. 3. 4. 5. 6. 7. 6. 9. 10. 8. 10. 8. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Corporate Finance (D.T.C.) Limited Gunma Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited Shinhan Asia Limited Chong Hing Finance Limited Henderson International Finance Eimited Growth in net profit after tax Woori Bank Bank of India JPMorgan Chase Bank, National	450.0 350.0 157. 100.0 50.0 40.0 30.2 30.2 571.4 535.0
Depos Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited Kexim Asia Limited Corporate Finance (D.T.C.) Limited BCOM Finance (Hong Kong) Limited Commonwealth Finance Corporation	16.4% 15.3% 10.8% 7.2% 5.6% 4.3% 3.8% 3.0% 2.8%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Ranking 1. 2.	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited BCOM Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance Limited Growth in assets Barclays Bank PLC Erste Group Bank AG	70.7% 19.8% 8.2% 5.6% 4.9% 4.1% 2.2% 1.8% 1.0%	Ranking 1. 2. 3. 4. 5. 6. 7. 6. 7. 8. 9. 10. Ranking 1. 2.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Corporate Finance (D.T.C.) Limited Gunma Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited Gunma Finance (Hong Kong) Limited Cong Hing Finance Limited Henderson International Finance Limited Growth in net profit after tax Woori Bank Bank of India JPMorgan Chase Bank, National	450.0 350.0 157.1 100.0 50.0 50.0 40.0 30.2 1.8 0.8 571.4 535.0 210.8
Depos Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited Kexim Asia Limited Corporate Finance (D.T.C.) Limited BCOM Finance (Hong Kong) Limited Commonwealth Finance Corporation	16.4% 15.3% 10.8% 7.2% 5.6% 4.3% 3.8% 3.0% 2.8%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Ranking 1. 2. 3.	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited BCOM Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance Limited Growth in assets Barclays Bank PLC Erste Group Bank AG Royal Bank of Canada	70.7% 19.8% 8.2% 5.6% 4.9% 4.1% 2.2% 1.8% 1.0% 1.0% 132.1% 105.0% 78.5%	Ranking 1. 2. 3. 4. 5. 6. 7. 6. 7. 8. 9. 10. Ranking 1. 2. 3.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Corporate Finance (D.T.C.) Limited Gunma Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance Corouth in net profit after tax Woori Bank Bank of India JPMorgan Chase Bank, National Association	450.0 350.0 157.1 100.0 50.0 40.0 30.2 1.8 571.4 535.0 210.8
Depos lanking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited Kexim Asia Limited Corporate Finance (D.T.C.) Limited BCOM Finance (Hong Kong) Limited Commonwealth Finance Corporation	16.4% 15.3% 10.8% 7.2% 5.6% 4.3% 3.8% 3.0% 2.8%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Ranking 1. 2. 3. 4. 3. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4	Limited (The) Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited Public Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance Limited Growth in assets Barclays Bank PLC Erste Group Bank AG Royal Bank of Canada Bank of Montreal	70.7% 19.8% 8.2% 5.6% 4.9% 4.1% 2.2% 1.8% 1.0% 105.0% 78.5% 65.7%	Ranking 1. 2. 3. 4. 5. 6. 5. 6. 7. 6. 7. 6. 10. 7. 10. 7. 10. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Corporate Finance (D.T.C.) Limited Gunma Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance Corowth in net profit after tax Woori Bank Bank of India JPMorgan Chase Bank, National Association	450.0 350.0 157. 100.0 50.0 40.0 30.3 1.3 0.3 571.4 535.0 210.3 208.3 202.3
Depos lanking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited Kexim Asia Limited Corporate Finance (D.T.C.) Limited BCOM Finance (Hong Kong) Limited Commonwealth Finance Corporation	16.4% 15.3% 10.8% 7.2% 5.6% 4.3% 3.8% 3.0% 2.8%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Ranking 1. 2. 3. 4. 3. 4. 5. 4. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited BCOM Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Chong Hing Finance Limited Growth in assets Barclays Bank PLC Erste Group Bank AG Royal Bank of Canada Bank of Montreal Limited Chong Sance Privée, UBP SA	70.7% 19.8% 8.2% 5.6% 4.9% 4.1% 2.4% 2.2% 1.8% 1.0% 132.1% 105.0% 78.5% 65.7%	Ranking 1. 2. 3. 4. 5. 6. 7. 6. 7. 6. 9. 7. 10. 7. 10. 7. 10. 7. 10. 7. 10. 7. 10. 7. 10. 7. 10. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Gonyorate Finance (D.T.C.) Limited Gunma Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited Shinhan Asia Limited Henderson International Finance Woori Bank Bank of India JPMorgan Chase Bank, National Association Bank of America, National Association	450.0 350.0 157. 100.0 50.0 30.3 1.4 0.3 571.4 535.0 210.3 208.3 202.3 170.0
Depos lanking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited Kexim Asia Limited Corporate Finance (D.T.C.) Limited BCOM Finance (Hong Kong) Limited Commonwealth Finance Corporation	16.4% 15.3% 10.8% 7.2% 5.6% 4.3% 3.8% 3.0% 2.8%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Ranking 1. 2. 3. 4. 3. 4. 5. 5. 6. 5. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited KEB Hana Global Finance Limited Kesim Asia Limited Commonwealth Finance Corporation Limited Commonwealth Finance Corporation Limited BCOM Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance Limited Growth in assets Barclays Bank PLC Erste Group Bank AG Royal Bank of Canada Bank of Montreal Union Bancaire Privée, UBP SA Shinhan Bank	70.7% 19.8% 8.2% 5.6% 4.9% 4.1% 2.4% 2.2% 1.8% 1.0% 105.0% 78.5% 65.7% 56.7% 47.5%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 8. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	Allied Banking Corporation (Hong Kong) LimitedGrowth in net profit after taxKEB Hana Global Finance LimitedBPI International Finance LimitedWoori Global Markets Asia LimitedVietnam Finance Company LimitedCorporate Finance (D.T.C.) LimitedBCOM Finance (Hong Kong) LimitedBCOM Finance (Hong Kong) LimitedChong Hing Finance LimitedHenderson International FinanceMoori BankBank of IndiaJPMorgan Chase Bank, National AssociationBank of America, National AssociationFirst Abu Dhabi Bank PJSCAllahabad Bank	450.0 350.0 157.1 100.0 50.0 40.0 30.2 30.2 1.8 535.0 210.8 208.8 208.8 208.8 208.8 208.8
Depos Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	sit-taking companies Return on equity Public Finance Limited BPI International Finance Limited Shinhan Asia Limited KEB Hana Global Finance Limited Vietnam Finance Company Limited Woori Global Markets Asia Limited Kexim Asia Limited Corporate Finance (D.T.C.) Limited BCOM Finance (Hong Kong) Limited Commonwealth Finance Corporation	16.4% 15.3% 10.8% 7.2% 5.6% 4.3% 3.8% 3.0% 2.8%	Ranking 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. Ranking 1. 2. 3. 4. 3. 4. 5. 6. 1. 6. 7. 1. 6. 7. 1. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	Limited (The) Limited (The) Growth in assets Woori Global Markets Asia Limited KEB Hana Global Finance Limited KEB Hana Global Finance Limited Chau's Brothers Finance Company Limited Kexim Asia Limited Commonwealth Finance Corporation Limited BCOM Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Chong Hing Finance Limited Chong Hing Finance Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Growth in assets Barclays Bank PLC Erste Group Bank AG Royal Bank of Canada Bank of Montreal Union Bancaire Privée, UBP SA Shinhan Bank Bank of Cina Limited	70.7% 19.8% 8.2% 5.6% 4.9% 4.1% 2.2% 1.8% 1.0% 105.0% 78.5% 65.7% 56.7% 47.5%	Ranking 1. 2. 3. 4. 5. 6. 9. 10. Ranking 1. 2. 3. 4. 5. 4. 5. 6. 5. 6. 7. 5. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	Allied Banking Corporation (Hong Kong) Limited Growth in net profit after tax KEB Hana Global Finance Limited BPI International Finance Limited Woori Global Markets Asia Limited Vietnam Finance Company Limited Corporate Finance (D.T.C.) Limited Gunma Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited BCOM Finance (Hong Kong) Limited Chong Hing Finance Limited Henderson International Finance Corour Hank Corrour Growth in net profit after tax Woori Bank Bank of India JPMorgan Chase Bank, National Association First Abu Dhabi Bank PJSC Allahabad Bank CIMB Bank Benhad	450.0 350.0 157.1 100.0 50.0 50.0 40.0 30.2

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Licensed banks - Financial highlights

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								come statemen		
	HK\$ millions	Year ended	Net interest income	Non- interest income	Operating expenses	Operating profit before impairment charges	Change in expected credit loss against customer advances	Other items	Profit before tax	
1	Bank of China (Hong Kong) Limited	31-Dec-18	36,370	16,483	14,696	38,157	1,108	885	37,934	
2	Bank of Communications (Hong Kong) Limited	31-Dec-18	1,857	1,111	1,504	1,464	125	(87)	1,252	
3	Bank of East Asia, Limited (The)	31-Dec-18	12,959	4,113	8,563	8,509	1,188	739	8,060	
4	China CITIC Bank International Limited	31-Dec-18	6,400	2,010	3,385	5,025	1,268	(133)	3,624	
5	China Construction Bank (Asia) Corporation Limited	31-Dec-18	6,120	2,102	3,206	5,016	626	(34)	4,356	
6	Chiyu Banking Corporation Limited	31-Dec-18	1,559	461	671	1,349	148	4	1,205	
7	Chong Hing Bank Limited	31-Dec-18	2,880	806	1,549	2,137	174	142	2,105	
8	Citibank (Hong Kong) Limited	31-Dec-18	3,538	4,288	4,192	3,634	117	-	3,517	
9	CMB Wing Lung Bank Limited	31-Dec-18	4,765	1,423	2,169	4,019	169	(78)	3,772	
10	Dah Sing Bank, Limited	31-Dec-18	4,153	1,248	2,711	2,690	225	103	2,568	
11	DBS Bank (Hong Kong) Limited	31-Dec-18	7,857	4,067	5,315	6,609	597	30	6,042	
12	Fubon Bank (Hong Kong) Limited	31-Dec-18	1,356	332	965	723	49	250	924	
13	Hang Seng Bank, Limited	31-Dec-18	30,047	11,168	12,168	29,047	996	381	28,432	
14	Hongkong And Shanghai Banking Corporation Limited (The)	31-Dec-18	126,463	84,006	87,424	123,045	4,611	16,149	134,583	
15	Industrial And Commercial Bank of China (Asia) Limited	31-Dec-18	11,625	3,441	3,454	11,612	1,136	(85)	10,391	
16	Nanyang Commercial Bank, Limited	31-Dec-18	6,666	2,519	3,299	5,886	1,135	(72)	4,679	
17	OCBC Wing Hang Bank Limited	31-Dec-18	5,039	1,507	3,071	3,475	245	57	3,287	
18	Public Bank (Hong Kong) Limited	31-Dec-18	1,417	231	873	775	168	-	607	
19	Shanghai Commercial Bank Limited	31-Dec-18	3,608	1,351	1,569	3,390	20	131	3,501	
20	Standard Chartered Bank (Hong Kong) Limited	31-Dec-18	14,860	12,709	16,242	11,327	445	379	11,261	
21	Tai Sang Bank Limited	31-Dec-18	17	13	24	6	-	18	24	
22	Tai Yau Bank, Limited	31-Dec-18	30	-	14	16	-	-	16	
	TOTAL ^{NI}	2018	259,539	144,221	164,896	238,864	13,554	18,398	243,708	
	Total excluding HSBC ^{N2}	2018	163,123	71,383	89,640	144,866	9,939	2,630	137,557	
	Total excluding BOCHK & HSBC ^{N2}	2018	126,753	54,900	74,944	106,709	8,831	1,745	99,623	

This is Liquidity Coverage Hatio. This is Liquidity Maintenance Ratio. This does not include Hang Seng Bank, as it is already included in the results of The Hongkong and Shanghai Banking Corporation. This includes Hang Seng Bank. N1

N2

Financial	highlights							
				Size and stren	-			
Net profit after tax	Total assets	Risk-weighted assets ("RWA")	Gross advances to customers	Expected credit loss allowance against customer advances	Total deposits from customers	Total equity	Total capital ratio	Liquidity ratio
31,615	2,820,684	1,030,815	1,283,358	5,416	1,896,663	266,238	23.1%	160.2%*
983	207,877	115,005	67,921	232	162,075	18,633	18.1%	182.7%*
6,554	839,451	475,714	503,517	2,351	574,114	103,575	20.8%	180.5%*
3,008	362,945	260,769	201,820	2,659	285,493	45,981	19.3%	258.5%*
3,574	480,970	353,507	256,825	2,070	354,130	62,478	19.7%	276.5%*
1,003	102,872	50,696	50,282	348	78,330	11,603	21.0%	244.7%*
1,760	190,576	132,007	101,825	545	143,690	22,542	19.0%	46.5%#
3,035	223,928	75,766	82,856	341	169,383	22,994	30.2%	51.7%#
3,218	314,478	212,680	162,466	724	221,329	40,015	18.0%	166.3%*
2,141	231,138	150,452	133,308	916	173,910	26,366	18.1%	47.7%#
5,128	445,661	233,890	164,469	2,298	363,658	37,952	17.7%	155.0%*
823	102,787	63,608	48,838	231	68,248	14,024	20.6%	60.0%#
24,188	1,571,297	611,885	877,134	2,678	1,154,415	162,107	20.2%	209.1%*
112,116	8,263,454	2,813,912	3,545,258	16,556	5,207,666	812,920	19.8%	161.0%*
8,278	893,618	621,103	472,847	5,067	533,532	117,317	19.8%	185.9%*
3,978	466,022	270,692	255,828	2,898	344,205	55,195	18.7%	147.7%*
2,762	318,621	214,419	195,055	624	221,854	40,017	16.9%	39.3%#
501	42,182	28,185	29,708	193	35,298	5,829	19.2%	44.5%#
2,846	197,620	151,368	87,088	363	154,615	27,902	18.6%	45.7%#
9,668	1,176,234	353,507	507,213	1,675	907,083	79,754	19.7%	276.5%*
23	1,720	658	174	-	965	724	82.8%	70.8%#
13	2,922	572	1		2,120	795	139.1%	79.4%#
203,027	17,685,760	7,609,325	8,150,657	45,507	11,898,361	1,812,854	-	-
115,099	10,993,603	5,407,298	5,482,533	31,629	7,845,110	1,162,041		
83,484	8,172,919	4,376,483	4,199,175	26,213	5,948,447	895,803	-	-

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					Key ratio	5			
		-		Р	erformance m	easures			
	HK\$ millions	Year ended	Net customer Ioan/deposit ratio	Net interest income/ average total assets	Non-interest income/total operating income	Cost/income ratio	ROA ^{N3}	ROE ^{N4}	
1	Bank of China (Hong Kong) Limited	31-Dec-18	67.4%	1.4%	31.2%	27.8%	1.2%	12.7%	
2	Bank of Communications (Hong Kong) Limited	31-Dec-18	41.8%	0.5%	37.4%	50.7%	0.3%	3.5%	
3	Bank of East Asia, Limited (The)	31-Dec-18	87.3%	1.6%	24.1%	50.2%	0.8%	6.4%	
4	China CITIC Bank International Limited	31-Dec-18	69.8%	1.8%	23.9%	40.2%	0.9%	6.7%	
5	China Construction Bank (Asia) Corporation Limited	31-Dec-18	71.9%	1.2%	25.6%	39.0%	0.7%	5.9%	
6	Chiyu Banking Corporation Limited	31-Dec-18	63.7%	1.7%	22.8%	33.2%	1.1%	9.5%	
7	Chong Hing Bank Limited	31-Dec-18	70.5%	1.6%	21.9%	42.0%	1.0%	8.8%	
8	Citibank (Hong Kong) Limited	31-Dec-18	48.7%	1.7%	54.8%	53.6%	1.5%	13.7%	
9	CMB Wing Lung Bank Limited	31-Dec-18	73.1%	1.6%	23.0%	35.1%	1.0%	8.3%	
10	Dah Sing Bank, Limited	31-Dec-18	76.1%	1.8%	23.1%	50.2%	0.9%	8.2%	
11	DBS Bank (Hong Kong) Limited	31-Dec-18	44.6%	1.9%	34.1%	44.6%	1.2%	13.3%	
12	Fubon Bank (Hong Kong) Limited	31-Dec-18	71.2%	1.3%	19.7%	57.2%	0.8%	5.8%	
13	Hang Seng Bank, Limited	31-Dec-18	75.7%	2.0%	27.1%	29.5%	1.6%	15.4%	
14	Hongkong And Shanghai Banking Corporation Limited (The)	31-Dec-18	67.8%	1.6%	39.9%	41.5%	1.4%	14.3%	
15	Industrial And Commercial Bank of China (Asia) Limited	31-Dec-18	87.7%	1.3%	22.8%	22.9%	0.9%	7.9%	
16	Nanyang Commercial Bank, Limited	31-Dec-18	73.5%	1.5%	27.4%	35.9%	0.9%	7.4%	
17	OCBC Wing Hang Bank Limited	31-Dec-18	87.6%	1.6%	23.0%	46.9%	0.9%	7.2%	
18	Public Bank (Hong Kong) Limited	31-Dec-18	83.6%	3.4%	14.0%	53.0%	1.2%	8.7%	
19	Shanghai Commercial Bank Limited	31-Dec-18	56.1%	1.9%	27.2%	31.6%	1.5%	10.6%	
20	Standard Chartered Bank (Hong Kong) Limited	31-Dec-18	55.7%	1.3%	46.1%	58.9%	0.9%	12.5%	
21	Tai Sang Bank Limited	31-Dec-18	18.0%	0.9%	43.3%	80.0%	1.3%	3.2%	
22	Tai Yau Bank, Limited	31-Dec-18	0.0%	1.0%	0.0%	46.7%	0.5%	1.6%	
	TOTAL ^{NI}	2018	68.1%	1.5%	35.7%	40.8 %	1.2%	11.6%	
	Total excluding HSBC ^{N2}	2018	69.5%	1.5%	30.4%	38.2 %	1.1%	10.3%	
	Total excluding BOCHK & HSBC ^{N2}	2018	70.2 %	1.6%	30.2%	41.3%	1.0%	9.6%	

*

This is Liquidity Coverage Ratio. This is Liquidity Maintenance Ratio. This does not include Hang Seng Bank, as it is already included in the results of The Hongkong and Shanghai Banking Corporation. This includes Hang Seng Bank. ROA is calculated as net profit after tax divided by average total assets. ROE is calculated as net profit after tax divided by average total equity.

N1 N2 N3 N4

Source: Extracted from individual banks' financial and public statements

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			Loa	n asset quality	ality				
	Im	paired advances (s	stage 3)			Advances (stage 2)			
Gross impaired advances	Gross impaired advances/ Advances to customers	Stage 3 expected credit loss allowance made against impaired advances	Stage 3 expected credit loss allowance as a percentage of gross impaired advances	Collaterals for impaired advances	Gross advances in Stage 2	Expected credit loss allowance made against Stage 2 advances	Stage 2 expected credit loss allowances as a percentage of gross stage 2 advances		
2,387	0.2%	1,130	47.3%	2,988	8,152	546	6.7%		
64	0.1%	24	37.5%	39	281	32	11.4%		
3,491	0.7%	1,062	30.4%	2,414	31,160	855	2.7%		
1,716	0.9%	399	23.3%	1,588	15,250	1,628	10.7%		
792	0.3%	200	25.3%	550	14,979	780	5.2%		
257	0.5%	190	73.9%	318	947	18	1.9%		
353	0.3%	154	43.6%	268	573	12	2.1%		
45	0.1%	30	66.7%	16	222	160	72.1%		
848	0.5%	549	64.7%	461	9,618	56	0.6%		
970	0.7%	363	37.4%	504	4,522	127	2.8%		
2,505	1.5%	1,107	44.2%	1,069	17,828	800	4.5%		
233	0.5%	197	84.5%	26	1,431	7	0.5%		
2,154	0.2%	959	44.5%	N/A	48,782	987	2.0%		
19,024	0.5%	9,549	50.2%	5,676	180,142	3,713	2.1%		
3,896	0.8%	2,129	54.6%	2,322	57,992	667	1.2%		
1,610	0.6%	1,256	78.0%	655	2,106	176	8.4%		
1,165	0.6%	249	21.4%	618	14,010	52	0.4%		
198	0.7%	56	28.3%	119	172	30	17.4%		
613	0.7%	32	5.2%	1,487	3,529	52	1.5%		
2,527	0.5%	921	36.4%	1,151	14,548	327	2.2%		
-	0.0%	-	N/A	-	-	-	0.0%		
-	0.0%	-	N/A	-	N/A	N/A	N/A		
42,694	0.5%	19,597	45.9%	22,269	377,462	10,038	2.7%		
25,824	0.5%	11,007	42.6 %	16,593	246,102	7,312	3.0%		
23,437	0.6%	9,877	42.1 %	13,605	237,950	6,766	2.8%		

Restricted licence banks - Financial highlights

							Inco	me statement		
	HK\$ millions	Year ended	Net interest income	Non- interest income	Operating expenses	Operating profit before impairment charges	Change in expected credit loss against customer advances	Other items	Profit before tax	
1	Allied Banking Corporation (Hong Kong) Limited	31-Dec-18	58	18	36	40	-	-	40	
2	Banc of America Securities Asia Limited	31-Dec-18	27	61	93	(5)	-	-	(5)	
3	Bank of China International Limited	31-Dec-18	122	134	228	28	-	-	28	
4	Bank of Shanghai (Hong Kong) Limited	31-Dec-18	518	150	223	445	141	(35)	269	
5	Citicorp International Limited	31-Dec-18	75	4,354	1,953	2,476	-	-	2,476	
6	Goldman Sachs Asia Bank Limited	31-Dec-18	12	54	55	11	-	-	11	
7	Habib Bank Zurich (Hong Kong) Limited	31-Dec-18	62	47	79	30	8	1	23	
8	J.P. Morgan Securities (Asia Pacific) Limited	31-Dec-18	153	7,445	6,669	929	-		929	
9	Kasikornbank Public Company Limited	31-Dec-18	38	12	18	32	4	-	28	
10	KDB Asia Limited	31-Dec-18	147	70	76	141	(7)	1	149	
11	Morgan Stanley Asia International Limited	31-Dec-18	409	2,056	1,779	686	-	-	686	
12	Nippon Wealth Limited	31-Dec-18	2	12	75	(61)	-	-	(61)	
13	ORIX Asia Limited	31-Mar-18	177	37	136	78	(5)	-	83	
14	Scotiabank (Hong Kong) Limited	31-Oct-18	162	22	48	136	(1)	-	137	
15	Siam Commercial Bank Public Company Limited (The)	31-Dec-18	65	22	13	74	-	-	74	
	TOTAL	2018	2,027	14,494	11,481	5,040	140	(33)	4,867	

Financi	al highlights							
				Size and strengt	h measures			
Net profit after tax	Total assets	Risk-weighted assets ("RWA")	Gross advances to customers	Expected credit loss allowance against customer advances	Total deposits from customers	Total equity	Total capital ratio	Liquidity ratio
35	1,757	1,442	1,179	1	1,206	507	31.1%	44.2%
(5)	5,051	1,457	-	-	-	4,187	287.0%	215.7%
23	10,330	4,216	4,300	1	8,627	1,580	37.5%	50.9%
218	28,590	19,416	15,121	291	9,503	4,483	22.0%	72.3%
2,070	7,676	8,322	-	-	-	6,862	82.2%	160.0%
9	1,030	555	-	-	8	899	160.8%	160.0%
19	2,168	1,685	1,387	26	1,328	554	32.5%	85.3%
762	12,994	18,452	-	-	-	7,977	42.1%	227.9%
23	11,861	N/A	923	9	13	469	18.3%	290.0%
124	13,693	10,179	8,928	37	16	2,375	23.5%	83.2%
582	27,134	8,900	12,522	-	23,730	2,420	26.0%	61.0%
(61)	320	90	-		119	192	171.3%	160.0%
72	6,517	6,367	5,917	34	805	2,150	33.8%	53.3%
115	16,480	13,010	12,078	2	-	5,424	41.7%	49.3%
68	14,108	N/A	1,843	6	957	-	17.1%	69.1%
4,054	159,709	94,091	64,198	407	46,312	40,079		

					Key ra	itios			
					Performance	measures			
	HK\$ millions	Year ended	Net customer loan/deposit ratio	Net interest income/ average total assets	Non-interest income/total operating income	Cost/income ratio	ROA	ROE	
1	Allied Banking Corporation (Hong Kong) Limited	31-Dec-18	97.7%	3.4%	23.7%	47.4%	2.0%	7.2%	
2	Banc of America Securities Asia Limited	31-Dec-18	0.0%	0.5%	69.3%	105.7%	-0.1%	-0.1%	
3	Bank of China International Limited	31-Dec-18	49.8%	1.1%	52.3%	89.1%	0.2%	1.5%	
4	Bank of Shanghai (Hong Kong) Limited	31-Dec-18	156.1%	1.9%	22.5%	33.4%	0.8%	4.9%	
5	Citicorp International Limited	31-Dec-18	0.0%	0.8%	98.3%	44.1%	22.5%	26.5%	
6	Goldman Sachs Asia Bank Limited	31-Dec-18	0.0%	1.2%	81.8%	83.3%	0.9%	1.0%	
7	Habib Bank Zurich (Hong Kong) Limited	31-Dec-18	102.5%	2.8%	43.1%	72.5%	0.9%	3.4%	
8	J.P. Morgan Securities (Asia Pacific) Limited	31-Dec-18	0.0%	1.2%	98.0%	87.8%	6.2%	10.1%	
9	Kasikornbank Public Company Limited	31-Dec-18	7,030.8%	0.3%	24.0%	36.0%	0.2%	5.0%	
10	KDB Asia Limited	31-Dec-18	55,568.8%	1.2%	32.3%	35.0%	1.0%	5.3%	
11	Morgan Stanley Asia International Limited	31-Dec-18	52.8%	1.4%	83.4%	72.2%	2.0%	27.4%	
12	Nippon Wealth Limited	31-Dec-18	0.0%	0.6%	85.7%	535.7%	-19.4%	-33.2%	
13	ORIX Asia Limited	31-Mar-18	730.8%	2.6%	17.3%	63.6%	1.1%	3.4%	
14	Scotiabank (Hong Kong) Limited	31-0ct-18	0.0%	1.0%	12.0%	26.1%	0.7%	2.1%	
15	Siam Commercial Bank Public Company Limited (The)	31-Dec-18	192.0%	0.5%	25.3%	14.9%	0.5%	N/A	
	TOTAL	2018	137.7%	2.5%	87.7%	69.5%	5.1%	20.2%	

			Loan asso	et quality			
	Impaired a	dvances / Stage 3 a	advances		Stage	2 Advances (HKFR	(S 9)
Gross impaired advances	Gross impaired advances/ Advances to customers	Stage 3 expected credit loss allowance made against impaired advances	Stage 3 expected credit loss allowance as a percentage of gross impaired advances	Collaterals for impaired advances	Gross advances in Stage 2	Expected credit loss allowance made against Stage 2 advances	Stage 2 expected credit loss allowances as a percentage of gross stage 2 advances
2	0.2%	-	0.0%	N/A	-	-	0.0%
-	0.0%	-	0.0%	-	-	-	0.0%
1	0.0%	1	100.0%	-	-	-	0.0%
226	1.5%	146	64.6%	1	-	-	0.0%
-	0.0%	-	0.0%	-	-	-	0.0%
-	0.0%	-	0.0%	-	-	-	0.0%
33	2.4%	9	27.3%	18	147	13	8.8%
-	0.0%	-	0.0%	-	-	-	0.0%
-	0.0%	-	0.0%	-	N/A	N/A	N/A
125	1.4%	32	25.6%	-	47	-	0.0%
-	0.0%	-	0.0%	-	12,522	-	0.0%
-	0.0%	-	0.0%	-	-	-	0.0%
38	0.6%	28	73.7%	13	N/A	N/A	N/A
	0.0%		0.0%	-	-	-	0.0%
-	0.0%	-	0.0%	-	N/A	N/A	N/A
425	0.7%	216	50.8%	32	12,716	13	0.1%

Deposit-taking companies - Financial highlights

										_
							Inco	ome statement	t	
	HK\$ millions	Year ended	Net interest income	Non- interest income	Operating expenses	Operating profit before impairment charges	Change in expected credit loss against customer advances	Other items	Profit before tax	
1	BCOM Finance (Hong Kong) Limited	31-Dec-18	1	8	1	8	-	-	8	
2	BPI International Finance Limited	31-Dec-18	6	36	33	9	-	18	27	
3	Chau's Brothers Finance Company Limited	31-Dec-18	5	-	5	-	-	-	-	
4	Chong Hing Finance Limited	31-Dec-18	1	-	1	-	-	-	-	
5	Commonwealth Finance Corporation Limited	31-Dec-18	13	4	11	6	1	(1)	4	
6	Corporate Finance (D.T.C.) Limited	31-Dec-18	7	-	4	3	-	-	3	
7	Fubon Credit (Hong Kong) Limited	31-Dec-18	-	-	1	(1)	(2)	-	1	
8	Gunma Finance (Hong Kong) Limited	31-Dec-18	11	-	8	3	(100)	-	3	
9	Habib Finance International Limited	31-Dec-18	1	1	9	(7)	-	-	(7)	
10	Henderson International Finance Limited	31-Dec-18	1	-	1	1	-	-	1	
11	KEB Hana Global Finance Limited	31-Dec-18	30	28	25	33	(6)	-	39	
12	Kexim Asia Limited	31-Dec-18	35	7	19	23	2	-	21	
13	Public Finance Limited	31-Dec-18	808	120	452	476	170	-	306	
14	Shinhan Asia Limited	31-Dec-18	101	98	43	156	9	(1)	146	
15	Vietnam Finance Company Limited	31-Dec-18	11	3	7	7	-	-	7	
16	Woori Global Markets Asia Limited	31-Dec-18	50	27	31	46	4	-	42	
	TOTAL	2018	1,081	332	651	763	78	16	601	

Financia	l highlights							
				Size and strengt	h measures			
Net profit after tax	Total assets	Risk-weighted assets ("RWA")	Gross advances to customers	Expected credit loss allowance against customer advances	Total deposits from customers	Total equity	Total capital ratio	Liquidity ratio
7	254	N/A	-	-	1	252	N/A	N/A
27	456	211	43	-	288	165	78.3%	403.6%
-	79	N/A	66	-	9	69	98.0%	160.4%
	46	N/A	-	-	-	46	N/A	N/A
3	340	N/A	247	3	156	112	60.1%	92.4%
3	329	N/A	136	-	228	100	N/A	N/A
1	97	N/A	2	-	-	91	N/A	N/A
3	494	N/A	205		21	315	N/A	N/A
(7)	151	N/A	-	-	-	148	216.9%	393.5%
1	58	N/A	-		3	54	N/A	N/A
33	1,667	879	1,435	3	-	475	53.5%	1,195.5%
17	3,252	2,931	1,809	5	-	449	19.4%	145.8%
255	7,136	5,670	6,062	181	5,465	1,519	22.3%	48.5%
125	809	453	-		-	809	178.4%	1,000.0%
6	947	N/A	2	-	-	111	N/A	N/A
36	3,624	N/A	1,903	5	-	850	26.2%	N/A
510	19,739	10,144	11,910	197	6,171	5,565	-	-

			Key ratios						
		Performance measures							
	HK\$ millions	Year ended	Net customer Ioan/deposit ratio	Net interest income/ average total assets	Non-interest income/ total operating income	Cost/income ratio	ROA	ROE	
1	BCOM Finance (Hong Kong) Limited	31-Dec-18	0.0%	0.4%	88.9%	11.1%	2.8%	2.8%	
2	BPI International Finance Limited	31-Dec-18	14.9%	1.3%	85.7%	78.6%	5.9%	15.3%	
3	Chau's Brothers Finance Company Limited	31-Dec-18	733.3%	6.6%	0.0%	100.0%	0.0%	0.0%	
4	Chong Hing Finance Limited	31-Dec-18	0.0%	2.2%	0.0%	100.0%	0.0%	0.0%	
5	Commonwealth Finance Corporation Limited	31-Dec-18	156.4%	3.9%	23.5%	64.7%	0.9%	2.7%	
6	Corporate Finance (D.T.C.) Limited	31-Dec-18	59.6%	2.1%	0.0%	57.1%	0.9%	3.0%	
7	Fubon Credit (Hong Kong) Limited	31-Dec-18	N/A	0.0%	N/A	N/A	1.0%	1.1%	
8	Gunma Finance (Hong Kong) Limited	31-Dec-18	976.2%	2.0%	0.0%	72.7%	0.6%	1.0%	
9	Habib Finance International Limited	31-Dec-18	0.0%	0.6%	50.0%	450.0%	-4.4%	-4.6%	
10	Henderson International Finance Limited	31-Dec-18	0.0%	1.7%	0.0%	50.0%	1.7%	1.9%	
11	KEB Hana Global Finance Limited	31-Dec-18	N/A	2.0%	48.3%	43.1%	2.2%	7.2%	
12	Kexim Asia Limited	31-Dec-18	N/A	1.1%	16.7%	45.2%	0.5%	3.8%	
13	Public Finance Limited	31-Dec-18	107.6%	11.5%	12.9%	48.7%	3.6%	16.4%	
14	Shinhan Asia Limited	31-Dec-18	0.0%	4.2%	49.2%	21.6%	5.2%	10.8%	
15	Vietnam Finance Company Limited	31-Dec-18	N/A	1.1%	21.4%	50.0%	0.6%	5.6%	
16	Woori Global Markets Asia Limited	31-Dec-18	N/A	1.7%	35.1%	40.3%	1.3%	4.3%	
	TOTAL	2018	189.8%	11.0%	23.5%	46.0%	5.2%	18.3%	

			Loan ass	et quality			
	Impair	red advances (stag	e 3)		A	dvances (stage 2)	
Gross impaired advances	Gross impaired advances/ Advances to customers	Stage 3 expected credit loss allowance made against impaired advances	Stage 3 expected credit loss allowance as a percentage of gross impaired advances	Collaterals for impaired advances	Gross advances in Stage 2	Expected credit loss allowance made against Stage 2 advances	Stage 2 expected credit loss allowances as a percentage of gross stage 2 advances
	0.0%	-	0.0%	-	-	-	0.0%
-	0.0%	-	0.0%	-	-	-	0.0%
-	0.0%	-	0.0%		-	-	0.0%
-	0.0%	-	0.0%	-	-	-	0.0%
N/A	N/A	1	N/A	N/A	N/A	N/A	N/A
-	0.0%	-	0.0%	-	-	-	0.0%
-	0.0%	-	0.0%	-	-	-	0.0%
-	0.0%	-	0.0%	-	-	-	0.0%
-	0.0%	-	0.0%	-	-	-	0.0%
-	0.0%	-	0.0%	-	-	-	0.0%
-	0.0%	-	0.0%	-	85	1	1.2%
-	0.0%	-	0.0%	-	-	-	0.0%
119	2.2%	52	43.7%	7	58	29	50.0%
-	0.0%	-	0.0%	-	-	-	0.0%
-	0.0%	-	0.0%	-	-	-	0.0%
-	0.0%	-	0.0%	-	-	-	0.0%
119	1.0%	53	44.5%	7	143	30	21.0%

Foreign bank branches - Financial highlights

							Income st	tatement	
	HK\$ millions	Year ended	Net interest income	Non-interest income	Operating expenses	Operating profit before impairment charges	Change in expected credit loss against customer advances	Other items	
1	ABN AMRO Bank N.V.	31-Dec-18	334	160	297	197	539	15	
2	Agricultural Bank of China Limited	31-Dec-18	3,399	1,118	387	4,130	43	(24)	
3	Allahabad Bank	31-Mar-18	111	13	14	110	51	-	
4	Australia And New Zealand Banking Group Limited	30-Sep-18	772	740	1,372	140	49	-	
5	Axis Bank Limited	31-Mar-18	130	190	31	289	661	-	
6	Banco Bilbao Vizcaya Argentaria S.A.	31-Dec-18	225	168	206	187	72	-	
7	Banco Santander, S.A.	31-Dec-18	(134)	696	511	51	1	-	
8	Bangkok Bank Public Company Limited	31-Dec-18	409	68	145	332	273	-	
9	Bank J. Safra Sarasin AG	31-Dec-18	213	203	310	106	3	-	
10	Bank Julius Baer & Co. Ltd.	31-Dec-18	661	1,469	1,609	521	(1)	-	
11	Bank of America, National Association	31-Dec-18	1,421	1,456	2,050	827	(33)	-	
12	Bank of Baroda	31-Mar-18	47	55	24	78	84	-	
13	Bank of China Limited	31-Dec-18	419	603	108	914	-	3	
14	Bank of Communications Co., Ltd.	31-Dec-18	4,208	2,003	1,389	4,822	(56)	26	
15	Bank of India	31-Mar-18	153	28	28	153	656	1	
16	Bank of Montreal	31-Oct-18	150	250	441	(41)	11	-	
17	Bank of New York Mellon (The)	31-Dec-18	264	656	622	298	-	-	
18	Bank of Nova Scotia (The)	31-Oct-18	85	372	287	170	-	-	
19	Bank of Singapore Limited	31-Dec-18	98	613	664	47	-	-	
20	Bank of Taiwan	31-Dec-18	250	16	46	220	17	(9)	
21	Bank Sinopac	31-Dec-18	359	125	160	324	33	9	
22	Barclays Bank PLC	31-Dec-18	121	1,585	1,790	(84)	(1)	-	
23	BNP Paribas	31-Dec-18	2,489	2,612	4,248	853	215	(1)	
24	CA Indosuez (Switzerland) SA	31-Dec-18	28	389	346	71	-	-	
25	Canadian Imperial Bank of Commerce	31-Oct-18	62	294	222	134	-	-	
26	Canara Bank	31-Mar-18	63	30	15	78	43	-	
27	Cathay Bank	31-Dec-18	65	14	44	35	4	-	
28	Cathay United Bank Company, Limited	31-Dec-18	278	211	223	266	71	-	
29	Chang Hwa Commercial Bank, Ltd.	31-Dec-18	268	50	35	283	(5)	-	
30	China Construction Bank Corporation	31-Dec-18	1,775	992	540	2,227	300	-	
31	China Development Bank	31-Dec-18	4,023	(406)	284	3,333	2,391	-	
32	China Everbright Bank Co., Ltd.	31-Dec-18	825	528	293	1,060	22	-	
33	China Merchants Bank Co., Ltd.	31-Dec-18	2,531	782	393	2,920	(2)	-	
34	China Minsheng Banking Corp., Ltd.	31-Dec-18	1,564	31	484	1,111	(581)	-	
35	China Zheshang Bank Co., Ltd.	31-Dec-18	198	(2)	240	(44)	49	-	
36	CIMB Bank Berhad	31-Dec-18	49	82	77	54	3	-	

Source: Extracted from individual banks' financial and public statements

					Financial highlights		
		Size and strength m					
Liquidity ratio	Total deposits from customers	Expected credit loss allowance against customer advances	Gross advances to customers	Total assets	Net profit after tax	Profit before tax	
47.2%	1,562	563	14,938	42,292	(294)	(342)	
64.8%	123,521	1,195	251,384	560,404	3,392	4,063	
970.6%	1,340	165	6,894	15,639	54	59	
41.1%	59,763	303	51,836	165,730	65	91	
66.5%	1,003	819	10,527	15,787	(372)	(372)	
48.3%	1,836	111	22,968	31,052	103	115	
56.8%	896	7	18,712	64,723	26	50	
40.7%	10,516	1,816	17,350	82,792	51	59	
50.3%	8,602	2	8,540	15,367	86	103	
41.1%	54,541	1	39,466	90,134	458	522	
54.8%	38,352	1,251	56,173	122,924	735	860	
62.9%	2,250	511	4,986	8,103	3	(6)	
9,664.4%	-	-	-	511,426	763	917	
130.3%	278,349	1,054	152,404	468,093	4,116	4,904	
72.8%	3,205	1,429	10,719	23,991	(508)	(502)	
59.6%	8,798	34	11,894	36,193	(53)	(52)	
364.4%	3,225	-	1,552	73,196	242	298	
47.1%	16,513	-	15,177	43,668	137	170	
46.9%	15,691	-	11,990	30,044	40	47	
55.3%	6,985	100	5,640	15,072	194	194	
44.6%	20,476	139	8,134	27,061	246	300	
194.0%	992	1	114	13,765	(67)	(83)	
39.3%	178,052	663	129,455	321,227	587	637	
55.5%	4,886	-	2,114	8,372	61	71	
74.7%	5,043	1	3,800	18,865	106	134	
109.3%	2,303	356	14,172	16,585	37	35	
45.2%	2,695	22	2,236	3,954	24	31	
53.1%	12,648	164	11,823	24,015	160	195	
44.0%	8,919	78	5,899	15,206	247	288	
477.8%	137,134	1,357	125,818	405,025	1,611	1,927	
188.8%	22,097	17,697	260,411	370,650	878	942	
50.8%	57,303	269	59,147	149,067	858	1,038	
46.7%	105,351	353	62,815	182,478	2,450	2,922	
70.1%	86,663	359	69,002	193,196	1,456	1,692	
4,544.7%	15	49	8,892	24,151	(94)	(93)	
66.9%	2,983	3	4,712	9,146	58	51	

							Income s	tatement	
	HK\$ millions	Year ended	Net interest income	Non-interest income	Operating expenses	Operating profit before impairment charges	Change in expected credit loss against customer advances	Other items	
37	Citibank, N.A.	31-Dec-18	5,531	2,021	3,024	4,528	(8)	-	
38	Commerzbank AG	31-Dec-18	138	399	448	89	1	-	
39	Commonwealth Bank of Australia	30-Jun-18	291	33	218	106	-	-	
40	Coöperatieve Rabobank U.A.	31-Dec-18	731	314	652	393	816	-	
41	Coutts & Co AG	31-Dec-18	-	1	38	(37)	-	-	
42	Credit Agricole Corporate And Investment Bank	31-Dec-18	152	1,444	1,164	432	57	(9)	
43	Crédit Industriel et Commercial	31-Dec-18	49	26	51	24	6	-	
44	Credit Suisse AG	31-Dec-18	1,425	2,405	2,641	1,189	41	-	
45	CTBC Bank Co., Ltd.	31-Dec-18	1,265	420	503	1,182	(8)	(3)	
46	DBS Bank Ltd.	31-Dec-18	2,831	1,129	707	3,253	(149)	-	
47	Deutsche Bank Aktiengesellschaft	31-Dec-18	875	6,086	6,589	372	27	-	
48	DZ BANK AG Deutsche Zentral- Genossenschaftsbank, Frankfurt Am Main	31-Dec-18	137	54	92	99	(36)	-	
49	E.Sun Commercial Bank, Ltd.	31-Dec-18	561	280	200	641	38	-	
50	East West Bank	31-Dec-18	200	38	157	81	2	-	
51	EFG Bank AG	31-Dec-18	110	568	625	53	-	(8)	
52	Erste Group Bank AG	31-Dec-18	159	(36)	57	66	1	-	
53	Far Eastern International Bank	31-Dec-18	80	18	31	67	7	-	
54	First Abu Dhabi Bank PJSC	31-Dec-18	116	131	129	118	-	-	
55	First Commercial Bank, Ltd.	31-Dec-18	369	38	47	360	36	-	
56	HDFC Bank Limited	31-Mar-18	49	-	13	36	(13)	-	
57	HSBC Private Bank (Suisse) SA	31-Dec-18	-	-	1	(1)	-	-	
58	Hua Nan Commercial Bank, Ltd.	31-Dec-18	377	29	63	343	60	-	
59	ICBC Standard Bank Plc	31-Dec-18	-	80	75	5	-	-	
60	ICICI Bank Limited	31-Mar-18	253	263	110	406	210	-	
61	Indian Overseas Bank	31-Mar-18	88	141	38	191	160	(2)	
62	Industrial And Commercial Bank of China Limited	31-Dec-18	1,328	198	303	1,223	237	-	
63	Industrial Bank Co., Ltd.	31-Dec-18	1,455	1,820	569	2,706	182	-	
64	Industrial Bank of Korea	31-Dec-18	85	84	32	137	12	-	
65	ING Bank N.V.	31-Dec-18	518	372	410	480	7	-	
66	Intesa Sanpaolo S.p.A.	31-Dec-18	328	171	139	360	40	1	
67	JPMorgan Chase Bank, National Association	31-Dec-18	506	8,236	7,471	1,271	-	18	
68	KBC Bank N.V.	31-Dec-18	92	34	70	56	(7)	-	

					Financial highlights	Financial highlight				
		Size and strength n								
Liquidity ratio	Total deposits from customers	Expected credit loss allowance against customer advances	Gross advances to customers	Total assets	Net profit after tax	Profit before tax				
34.6%	306,586	219	134,960	424,428	3,792	4,536				
56.0%	2,204	8	7,108	20,875	84	88				
165.2%	7,776	-	13,339	29,858	89	106				
52.2%	14,799	914	42,947	119,806	(351)	(423)				
96.5%	50	-	-	74	(37)	(37)				
56.9%	20,991	375	32,987	179,274	315	366				
40.7%	926	11	9,292	13,067	16	18				
195.6%	125,965	259	70,854	193,380	949	1,148				
59.5%	65,835	259	24,279	75,394	1,005	1,187				
42.1%	51,307	454	213,727	326,617	2,846	3,402				
94.4%	28,733	75	45,530	101,265	427	345				
164.4%	431	59	7,047	24,278	135	135				
43.3%	31,869	343	14,075	34,571	482	603				
44.8%	8,688	82	5,164	9,744	66	79				
56.1%	30,215	-	19,018	33,700	38	45				
55.3%	-	4	63	29,932	54	65				
50.0%	4,102	37	2,756	6,206	50	60				
62.4%	6,732	12	11,225	41,538	139	118				
42.0%	13,504	113	8,881	19,211	266	324				
67.3%	856	33	2,915	4,285	48	49				
99,999,999%	-	-	-	15	(1)	(1)				
56.8%	19,770	92	6,467	22,528	238	283				
160.0%	41		-	96	5	5				
48.1%	1,926	422	10,450	29,061	169	196				
75.7%	3,948	556	9,491	13,213	35	29				
56.5%	-	623	84,840	223,092	831	986				
62.0%	100,339	(917)	79,112	229,905	2,119	2,524				
75.8%	1,503	12	1,500	11,447	100	125				
34.4%	6,764	14	35,790	88,821	398	473				
39.0%	1,355	519	13,618	44,839	277	321				
65.1%	49,191	-	12,205	169,830	1,069	1,289				
46.0%	2,125	20	3,471	10,005	53	63				

							Income s	tatement	
	HK\$ millions	Year ended	Net interest income	Non-interest income	Operating expenses	Operating profit before impairment charges	Change in expected credit loss against customer advances	Other items	
69	KEB Hana Bank	31-Dec-18	255	149	52	352	(94)	1	
70	Kookmin Bank	31-Dec-18	90	38	44	84	(25)	-	
71	LGT Bank AG	31-Dec-18	302	1,359	1,573	88	(2)	-	
72	Macquarie Bank Limited	31-Mar-18	(33)	714	814	(133)	-	-	
73	Malayan Banking Berhad	31-Dec-18	386	157	219	324	(184)	(4)	
74	Mega International Commercial Bank Co., Ltd.	31-Dec-18	537	99	123	513	62	-	
75	Mitsubishi UFJ Trust And Banking Corporation	31-Mar-18	163	31	55	139	-	-	
76	Mizuho Bank, Ltd.	31-Mar-18	582	1,352	811	1,123	(69)	(51)	
77	MUFG Bank, Ltd.	31-Mar-18	858	1,064	1,289	633	290	(1)	
78	National Australia Bank Limited	30-Sep-18	295	395	399	291	(10)	-	
79	Natixis	31-Dec-18	127	(518)	1,482	(1,873)	(11)	-	
80	NatWest Markets Plc	31-Dec-18	-	72	77	(5)	-	-	
81	O-Bank Co., Ltd.	31-Dec-18	263	47	151	159	-	-	
82	Oversea-Chinese Banking Corporation Limited	31-Dec-18	875	218	287	806	556	56	
83	Pictet & Cie (Europe) S.A.	31-Dec-18	98	280	337	41	3	-	
84	Punjab National Bank	31-Mar-18	191	45	23	213	249	-	
85	Royal Bank of Canada	31-Oct-18	(83)	802	653	66	-	-	
86	Shanghai Commercial & Savings Bank, Ltd. (The)	31-Dec-18	114	36	38	112	6	-	
87	Shanghai Pudong Development Bank Co., Ltd.	31-Dec-18	1,307	553	332	1,528	114	-	
88	Shinhan Bank	31-Dec-18	142	92	26	208	(15)	-	
89	Societe Generale	31-Dec-18	179	2,865	1,995	1,049	(91)	(1)	
90	State Bank of India	31-Mar-18	370	211	285	296	232	-	
91	State Street Bank And Trust Company	31-Dec-18	242	1,467	1,491	218	-	-	
92	Sumitomo Mitsui Banking Corporation	31-Mar-18	1,287	361	603	1,045	-	-	
93	Sumitomo Mitsui Trust Bank, Limited	31-Mar-18	(318)	575	70	187	-	-	
94	Taipei Fubon Commercial Bank Co., Ltd.	31-Dec-18	650	377	186	841	9	(30)	
95	Taishin International Bank Co., Ltd	31-Dec-18	163	110	111	162	(2)	-	
96	Taiwan Business Bank, Ltd	31-Dec-18	138	12	29	121	9	-	
97	Taiwan Cooperative Bank, Ltd.	31-Dec-18	222	15	32	205	11	-	
98	Taiwan Shin Kong Commercial Bank Co., Ltd.	31-Dec-18	103	11	37	77	17	(3)	

					Financial highlights	Financial highlight				
		Size and strength r								
Liquidity ratio	Total deposits from customers	Expected credit loss allowance against customer advances	Gross advances to customers	Total assets	Net profit after tax	Profit before tax				
44.7%	4,621	69	17,730	28,963	395	447				
115.1%	1,348	19	9,212	12,484	99	109				
56.9%	40,142	1	16,624	56,589	74	90				
580.5%		-	-	35,065	(135)	(133)				
58.8%	21,857	78	16,201	43,297	453	504				
53.8%	29,639	107	9,208	30,919	385	451				
65.2%	1,068	-	3,765	32,524	139	139				
54.1%	150,712	77	186,263	506,600	998	1,141				
38.6%	138,312	2,468	244,756	513,520	260	342				
106.4%	15,855	42	6,074	40,478	242	301				
62.7%	6,459	14	42,898	89,203	(1,553)	(1,862)				
312.4%	-	-	-	132	(5)	(5)				
52.0%	11,132	114	9,915	14,297	136	159				
45.9%	20,369	869	46,031	107,642	278	306				
41.4%	2,993	1	5,313	9,990	38	38				
43.9%	2,435	1,300	24,074	41,967	15	(36)				
5,672.0%	805	-	133	39,042	66	66				
39.9%	4,955	58	3,851	6,206	93	106				
79.1%	73,843	493	78,810	187,263	1,188	1,414				
145.3%	3,803	38	14,619	26,328	197	223				
54.7%	8,905	139	58,737	178,065	998	1,139				
64.1%	4,798	379	34,591	124,410	45	64				
65.3%	15,037	-	47	44,445	184	218				
32.9%	80,374	68	125,748	308,716	907	1,045				
92.1%	22,212	-	20,980	109,900	145	187				
41.6%	37,231	284	20,094	50,330	662	802				
43.8%	11,034	18	5,681	15,126	164	164				
40.1%	4,429	36	3,206	5,660	97	112				
37.7%	6,307	70	6,880	9,395	160	194				
48.1%	4,673	46	2,972	6,672	57	57				

		-					Income st	atement
	HK\$ millions	Year ended	Net interest income	Non-interest income	Operating expenses	Operating profit before impairment charges	Change in expected credit loss against customer advances	Other items
99	UBS AG	31-Dec-18	1,814	12,840	11,107	3,547	45	-
100	UCO Bank	31-Mar-18	169	32	38	163	147	-
101	UniCredit Bank AG	31-Dec-18	522	(147)	325	50	(1)	-
102	Union Bancaire Privée, UBP SA	31-Dec-18	186	287	432	41	-	-
103	Union Bank of India	31-Mar-18	190	26	57	159	782	-
104	United Overseas Bank Ltd.	31-Dec-18	1,625	1,326	763	2,188	288	58
105	Wells Fargo Bank, National Association	31-Dec-18	104	1,211	1,180	135	-	-
106	Westpac Banking Corporation	30-Sep-18	26	134	146	14	8	(1)
107	Woori Bank	31-Dec-18	123	53	30	146	(58)	-
108	Yuanta Commercial Bank Co., Ltd.	31-Dec-18	79	22	44	57	9	-
	TOTAL	2018	62,355	73,764	74,348	61,771	8,906	41

	Financial highlights	\$								
				Size and strength r	neasures					
Profit before tax	Net profit after tax	Total assets	Gross advances to customers	Expected credit loss allowance against customer advances	Total deposits from customers	Liquidity ratio				
3,502	2,655	263,753	149,728	15	160,380	84.5%				
16	5	16,240	11,920	494	6,172	105.1%				
51	51	72,723	5,511	-	1,208	488.4%				
41	34	23,805	10,265	-	13,361	62.2%				
(623)	(623)	30,043	19,916	1,543	1,352	67.0%				
1,958	1,634	191,458	132,907	510	70,411	38.1%				
135	99	36,298	9,142	-	1,122	322.7%				
5	4	35,568	18,974	62	16,016	70.2%				
204	188	17,398	13,015	43	1,636	64.1%				
48	38	4,956	2,679	38	3,670	72.1%				
52,891	44,429	10,097,218	3,793,275	44,963	3,193,715	-				

Foreign bank branches - Financial highlights

			Key ratios					
				Performa	ance measure	s		
	HK\$ millions	Year ended	Net customer Ioan/deposit ratio	Net interest income/ average total assets	Non-interest income/total operating income	Cost/ income ratio	ROA	
1	ABN AMRO Bank N.V.	31-Dec-18	920.3%	0.7%	32.4%	60.1%	-0.6%	
2	Agricultural Bank of China Limited	31-Dec-18	202.5%	0.6%	24.8%	8.6%	0.6%	
3	Allahabad Bank	31-Mar-18	502.2%	0.7%	10.5%	11.3%	0.3%	
4	Australia And New Zealand Banking Group Limited	30-Sep-18	86.2%	0.5%	48.9%	90.7%	0.0%	
5	Axis Bank Limited	31-Mar-18	967.9%	0.9%	59.4%	9.7%	-2.4%	
6	Banco Bilbao Vizcaya Argentaria S.A.	31-Dec-18	1,244.9%	0.8%	42.7%	52.4%	0.4%	
7	Banco Santander, S.A.	31-Dec-18	2,087.6%	-0.2%	123.8%	90.9%	0.0%	
8	Bangkok Bank Public Company Limited	31-Dec-18	147.7%	0.5%	14.3%	30.4%	0.1%	
9	Bank J. Safra Sarasin AG	31-Dec-18	99.3%	1.3%	48.8%	74.5%	0.5%	
10	Bank Julius Baer & Co. Ltd.	31-Dec-18	72.4%	0.8%	69.0%	75.5%	0.5%	
11	Bank of America, National Association	31-Dec-18	143.2%	1.1%	50.6%	71.3%	0.6%	
12	Bank of Baroda	31-Mar-18	198.9%	0.4%	53.9%	23.5%	0.0%	
13	Bank of China Limited	31-Dec-18	0.0%	0.1%	59.0%	10.6%	0.2%	
14	Bank of Communications Co., Ltd.	31-Dec-18	54.4%	0.8%	32.2%	22.4%	0.8%	
15	Bank of India	31-Mar-18	289.9%	0.7%	15.5%	15.5%	-2.2%	
16	Bank of Montreal	31-Oct-18	134.8%	0.5%	62.5%	110.3%	-0.2%	
17	Bank of New York Mellon (The)	31-Dec-18	48.1%	0.4%	71.3%	67.6%	0.4%	
18	Bank of Nova Scotia (The)	31-Oct-18	91.9%	0.2%	81.4%	62.8%	0.3%	
19	Bank of Singapore Limited	31-Dec-18	76.4%	0.4%	86.2%	93.4%	0.2%	
20	Bank of Taiwan	31-Dec-18	79.3%	1.6%	6.0%	17.3%	1.2%	
21	Bank Sinopac	31-Dec-18	39.0%	1.4%	25.8%	33.1%	1.0%	
22	Barclays Bank PLC	31-Dec-18	11.4%	1.2%	92.9%	104.9%	-0.7%	
23	BNP Paribas	31-Dec-18	72.3%	0.7%	51.2%	83.3%	0.2%	
24	CA Indosuez (Switzerland) SA	31-Dec-18	43.3%	0.4%	93.3%	83.0%	0.8%	
25	Canadian Imperial Bank of Commerce	31-0ct-18	75.3%	0.3%	82.6%	62.4%	0.5%	
26	Canara Bank	31-Mar-18	599.9%	0.4%	32.3%	16.1%	0.2%	
27	Cathay Bank	31-Dec-18	82.2%	1.8%	17.7%	55.7%	0.7%	
28	Cathay United Bank Company, Limited	31-Dec-18	92.2%	1.3%	43.1%	45.6%	0.7%	
29	Chang Hwa Commercial Bank, Ltd.	31-Dec-18	65.3%	1.8%	15.7%	11.0%	1.6%	
30	China Construction Bank Corporation	31-Dec-18	90.8%	0.4%	35.9%	19.5%	0.3%	
31	China Development Bank	31-Dec-18	1,098.4%	1.1%	-11.2%	7.9%	0.2%	
32	China Everbright Bank Co., Ltd.	31-Dec-18	102.7%	0.6%	39.0%	21.7%	0.6%	
33	China Merchants Bank Co., Ltd.	31-Dec-18	59.3%	1.4%	23.6%	11.9%	1.4%	
34	China Minsheng Banking Corp., Ltd.	31-Dec-18	79.2%	0.8%	1.9%	30.3%	0.8%	
35	China Zheshang Bank Co., Ltd.	31-Dec-18	58,953.3%	0.8%	-1.0%	122.4%	-0.4%	
36	CIMB Bank Berhad	31-Dec-18	157.9%	0.6%	62.6%	58.8%	0.7%	

Source: Extracted from individual banks' financial and public statements

Loan asset quality											
	Impaired ac	lvances / Stage 3 a	advances		Stage	e 2 Advances (Hk	(FRS 9)				
Gross impaired advances	Gross impaired advances/ Advances to customers	Stage 3 expected credit loss allowance made against impaired advances	Stage 3 expected credit loss allowance made against impaired advances	Collaterals for impaired advances	Gross advances in Stage 2	Expected credit loss allowance made against Stage 2 advances	Stage 2 expected credit loss allowances as a percentage of gross stage 2 advances				
568	3.8%	541	95.2%	30	N/A	N/A	N/A				
117	0.0%	113	96.6%	1	N/A	N/A	N/A				
166	2.4%	110	66.3%	133	N/A	N/A	N/A				
74	0.1%	74	100.0%	-	N/A	N/A	N/A				
1,486	14.1%	-	0.0%	-	N/A	N/A	N/A				
227	1.0%	9	4.0%	-	N/A	N/A	N/A				
-	0.0%	-	0.0%	-	N/A	N/A	N/A				
41	0.2%	41	100.0%	-	N/A	N/A	N/A				
-	0.0%	-	0.0%	-	N/A	N/A	N/A				
-	0.0%	-	0.0%	-	N/A	N/A	N/A				
620	1.1%	620	100.0%	-	N/A	N/A	N/A				
442	8.9%	425	96.2%	6	N/A	N/A	N/A				
-	0.0%	-	0.0%	-	N/A	N/A	N/A				
N/A	N/A	395	N/A	386	N/A	N/A	N/A				
2,308	21.5%	1,349	58.4%	1,603	N/A	N/A	N/A				
-	0.0%	-	0.0%	-	N/A	N/A	N/A				
-	0.0%	-	0.0%	-	-	-	0.0%				
-	0.0%	-	0.0%	-	N/A	N/A	N/A				
-	0.0%	-	0.0%	-	N/A	N/A	N/A				
33	0.6%	23	69.7%	10	N/A	N/A	N/A				
38	0.5%	31	81.6%	-	N/A	N/A	N/A				
-	0.0%	-	0.0%	-	-	-	0.0%				
479	0.4%	383	80.0%	497	N/A	N/A	N/A				
-	0.0%	-	0.0%	-	-	-	0.0%				
-	0.0%	-	0.0%	-	N/A	N/A	N/A				
-	0.0%	-	0.0%	-	N/A	N/A	N/A				
2	0.1%	-	0.0%	2	N/A	N/A	N/A				
39	0.3%	39	100.0%	-	N/A	N/A	N/A				
-	0.0%	-	0.9%	-	N/A	N/A	N/A				
-	0.0%	-	91.9%	-	N/A	N/A	N/A				
9,575	3.7%	8,770	91.6%	112	N/A	N/A	N/A				
9	0.0%	9	100.0%	-	N/A	N/A	N/A				
234	0.4%	234	100.0%	-	N/A	N/A	N/A				
14	0.0%	14	100.0%	-	N/A	N/A	N/A				
-	0.0%	-	0.0%	-	-	-	0.0%				
	0.0%	-	0.0%	-	N/A	N/A	N/A				

				K	ey ratios			
				Perform	ance measure	s		
	HK\$ millions	Year ended	Net customer Ioan/deposit ratio	Net interest income/ average total assets	Non-interest income/total operating income	Cost/ income ratio	ROA	
37	Citibank, N.A.	31-Dec-18	43.9%	1.4%	26.8%	40.0%	0.9%	
38	Commerzbank AG	31-Dec-18	322.1%	0.7%	74.3%	83.4%	0.5%	
39	Commonwealth Bank of Australia	30-Jun-18	171.5%	0.8%	10.2%	67.3%	0.3%	
40	Coöperatieve Rabobank U.A.	31-Dec-18	284.0%	0.7%	30.0%	62.4%	-0.3%	
41	Coutts & Co AG	31-Dec-18	0.0%	0.0%	100.0%	3800.0%	-46.5%	
42	Credit Agricole Corporate And Investment Bank	31-Dec-18	155.4%	0.1%	90.5%	72.9%	0.2%	
43	Crédit Industriel et Commercial	31-Dec-18	1,002.2%	0.4%	34.7%	68.0%	0.1%	
44	Credit Suisse AG	31-Dec-18	56.0%	0.8%	62.8%	69.0%	0.5%	
45	CTBC Bank Co., Ltd.	31-Dec-18	36.5%	1.7%	24.9%	29.9%	1.4%	
46	DBS Bank Ltd.	31-Dec-18	415.7%	0.9%	28.5%	17.9%	0.9%	
47	Deutsche Bank Aktiengesellschaft	31-Dec-18	158.2%	0.9%	87.4%	94.7%	0.4%	
48	DZ BANK AG Deutsche Zentral-Genossenschaftsbank, Frankfurt Am Main	31-Dec-18	1,621.3%	0.6%	28.3%	48.2%	0.6%	
49	E.Sun Commercial Bank, Ltd.	31-Dec-18	43.1%	1.8%	33.3%	23.8%	1.6%	
50	East West Bank	31-Dec-18	58.5%	2.2%	16.0%	66.0%	0.7%	
51	EFG Bank AG	31-Dec-18	62.9%	0.3%	83.8%	92.2%	0.1%	
52	Erste Group Bank AG	31-Dec-18	N/A	0.7%	-29.3%	46.3%	0.2%	
53	Far Eastern International Bank	31-Dec-18	66.3%	1.4%	18.4%	31.6%	0.9%	
54	First Abu Dhabi Bank PJSC	31-Dec-18	166.6%	0.3%	53.0%	52.2%	0.4%	
55	First Commercial Bank, Ltd.	31-Dec-18	64.9%	2.0%	9.3%	11.5%	1.4%	
56	HDFC Bank Limited	31-Mar-18	336.7%	1.0%	0.0%	26.5%	0.9%	
57	HSBC Private Bank (Suisse) SA	31-Dec-18	0.0%	0.0%	N/A	N/A	-6.5%	
58	Hua Nan Commercial Bank, Ltd.	31-Dec-18	32.2%	1.6%	7.1%	15.5%	1.0%	
59	ICBC Standard Bank Plc	31-Dec-18	0.0%	0.0%	100.0%	93.8%	5.3%	
60	ICICI Bank Limited	31-Mar-18	520.7%	0.8%	51.0%	21.3%	0.5%	
61	Indian Overseas Bank	31-Mar-18	226.3%	0.7%	61.6%	16.6%	0.3%	
62	Industrial And Commercial Bank of China Limited	31-Dec-18	N/A	0.6%	13.0%	19.9%	0.4%	
63	Industrial Bank Co., Ltd.	31-Dec-18	79.8%	0.7%	55.6%	17.4%	1.0%	
64	Industrial Bank of Korea	31-Dec-18	99.0%	0.8%	49.7%	18.9%	0.9%	
65	ING Bank N.V.	31-Dec-18	528.9%	0.6%	41.8%	46.1%	0.4%	
66	Intesa Sanpaolo S.p.A.	31-Dec-18	966.7%	0.7%	34.3%	27.9%	0.6%	
67	JPMorgan Chase Bank, National Association	31-Dec-18	24.8%	0.3%	94.2%	85.5%	0.7%	
68	KBC Bank N.V.	31-Dec-18	162.4%	1.0%	27.0%	55.6%	0.6%	

Loan asset quality							
Impaired advances / Stage 3 advances					Stage	e 2 Advances (HK	FRS 9)
Gross impaired advances	Gross impaired advances/ Advances to customers	Stage 3 expected credit loss allowance made against impaired advances	Stage 3 expected credit loss allowance made against impaired advances	Collaterals for impaired advances	Gross advances in Stage 2	Expected credit loss allowance made against Stage 2 advances	Stage 2 expected credit loss allowances as a percentage of gross stage 2 advances
-	0.0%	-	0.0%	-	N/A	N/A	N/A
-	0.0%	-	0.0%	-	N/A	N/A	N/A
-	0.0%	-	0.0%	-	N/A	N/A	N/A
1,356	3.2%	897	66.2%	467	N/A	N/A	N/A
-	0.0%	-	0.0%	-	-	-	0.0%
434	1.3%	333	76.7%	N/A	N/A	N/A	N/A
-	0.0%	N/A	N/A	-	N/A	N/A	N/A
266	0.4%	249	93.6%	21	N/A	N/A	N/A
196	0.8%	-	0.0%	2	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
413	0.9%	27	6.5%	381	N/A	N/A	N/A
85	1.2%	59	69.4%	-	N/A	N/A	N/A
-	0.0%	-	0.0%	-	N/A	N/A	N/A
28	0.5%	28	98.0%	-	N/A	N/A	N/A
	0.0%	-	0.0%	-	-		0.0%
N/A	N/A	-	N/A	N/A	N/A	N/A	N/A
	0.0%	-	0.0%	-	N/A	N/A	N/A
-	0.0%	-	0.0%	-	N/A	N/A	N/A
19	0.2%	19	100.0%	-	N/A	N/A	N/A
-	0.0%	-	0.0%	N/A	N/A	N/A	N/A
-	0.0%	-	0.0%	-	-	-	0.0%
N/A	N/A	-	N/A	-	N/A	N/A	N/A
	0.0%	-	0.0%	-	-		0.0%
1,640	15.7%	311	19.0%	1,605	N/A	N/A	N/A
1,003	10.6%	479	47.8%	891	N/A	N/A	N/A
30	0.0%	30	100.0%	-	N/A	N/A	N/A
N/A	N/A	8	N/A	N/A	N/A	N/A	N/A
6	0.4%	N/A	N/A	N/A	N/A	N/A	N/A
	0.0%	-	0.0%	-	-	-	0.0%
848	6.2%	452	53.3%	-	N/A	N/A	N/A
-	0.0%	-	0.0%		-	-	0.0%
12	0.3%	12	100.0%	-	N/A	N/A	N/A

				Key ratios				
			Performance measures					
	HK\$ millions	Year ended	Net customer Ioan/deposit ratio	Net interest income/ average total assets	Non-interest income/total operating income	Cost/ income ratio	ROA	
69	KEB Hana Bank	31-Dec-18	382.2%	0.8%	36.9%	12.9%	1.3%	
70	Kookmin Bank	31-Dec-18	682.0%	0.8%	29.7%	34.4%	0.9%	
71	LGT Bank AG	31-Dec-18	41.4%	0.5%	81.8%	94.7%	0.1%	
72	Macquarie Bank Limited	31-Mar-18	0.0%	-0.1%	104.8%	119.5%	-0.4%	
73	Malayan Banking Berhad	31-Dec-18	73.8%	0.8%	28.9%	40.3%	1.0%	
74	Mega International Commercial Bank Co., Ltd.	31-Dec-18	30.7%	1.6%	15.6%	19.3%	1.1%	
75	Mitsubishi UFJ Trust And Banking Corporation	31-Mar-18	352.5%	0.5%	16.0%	28.4%	0.5%	
76	Mizuho Bank, Ltd.	31-Mar-18	123.5%	0.1%	69.9%	41.9%	0.2%	
77	MUFG Bank, Ltd.	31-Mar-18	175.2%	0.2%	55.4%	67.1%	0.1%	
78	National Australia Bank Limited	30-Sep-18	38.0%	0.6%	57.2%	57.8%	0.5%	
79	Natixis	31-Dec-18	663.9%	0.2%	132.5%	-379.0%	-1.9%	
80	NatWest Markets Plc	31-Dec-18	0.0%	0.0%	100.0%	106.9%	-3.4%	
81	O-Bank Co., Ltd.	31-Dec-18	88.0%	2.0%	15.2%	48.7%	1.0%	
82	Oversea-Chinese Banking Corporation Limited	31-Dec-18	221.7%	0.8%	19.9%	26.3%	0.2%	
83	Pictet & Cie (Europe) S.A.	31-Dec-18	177.5%	1.1%	74.1%	89.2%	0.4%	
84	Punjab National Bank	31-Mar-18	935.3%	0.4%	19.1%	9.7%	0.0%	
85	Royal Bank of Canada	31-Oct-18	16.5%	-0.3%	111.5%	90.8%	0.2%	
86	Shanghai Commercial & Savings Bank, Ltd. (The)	31-Dec-18	76.5%	1.8%	24.0%	25.3%	1.4%	
87	Shanghai Pudong Development Bank Co., Ltd.	31-Dec-18	106.1%	0.7%	29.7%	17.8%	0.7%	
88	Shinhan Bank	31-Dec-18	383.4%	0.6%	39.3%	11.1%	0.9%	
89	Societe Generale	31-Dec-18	658.0%	0.1%	94.1%	65.5%	0.5%	
90	State Bank of India	31-Mar-18	713.0%	0.3%	36.3%	49.1%	0.0%	
91	State Street Bank And Trust Company	31-Dec-18	0.3%	0.3%	85.8%	87.2%	0.2%	
92	Sumitomo Mitsui Banking Corporation	31-Mar-18	156.4%	0.4%	21.9%	36.6%	0.3%	
93	Sumitomo Mitsui Trust Bank, Limited	31-Mar-18	94.5%	-0.3%	223.7%	27.2%	0.1%	
94	Taipei Fubon Commercial Bank Co., Ltd.	31-Dec-18	53.2%	1.3%	36.7%	18.1%	1.3%	
95	Taishin International Bank Co., Ltd	31-Dec-18	51.3%	1.2%	40.3%	40.7%	1.2%	
96	Taiwan Business Bank, Ltd	31-Dec-18	71.6%	2.4%	8.0%	19.3%	1.7%	
97	Taiwan Cooperative Bank, Ltd.	31-Dec-18	108.0%	2.3%	6.3%	13.5%	1.7%	
98	Taiwan Shin Kong Commercial Bank Co., Ltd.	31-Dec-18	62.6%	1.8%	9.6%	32.5%	1.0%	

			Loan ass	et quality			
	dvances / Stage 3 a	Stage 2 Advances (HKFRS 9)					
Gross impaired advances	Gross impaired advances/ Advances to customers	Stage 3 expected credit loss allowance made against impaired advances	Stage 3 expected credit loss allowance made against impaired advances	Collaterals for impaired advances	Gross advances in Stage 2		Stage 2 expected credit loss allowances as a percentage of gross stage 2 advances
-	0.0%	-	0.0%	-	N/A	N/A	N/A
-	0.0%	-	0.0%	-	N/A	N/A	N/A
-	0.0%	-	0.0%	-	N/A	N/A	N/A
-	0.0%	-	0.0%	-	-	-	0.0%
11	0.1%	11	100.0%	N/A	N/A	N/A	N/A
-	0.0%	-	0.0%	-	N/A	N/A	N/A
-	0.0%	-	0.0%	-	-	-	0.0%
211	0.1%	77	36.5%	-	N/A	N/A	N/A
52	0.0%	28	53.8%	-	N/A	N/A	N/A
-	0.0%	-	0.0%	-	N/A	N/A	N/A
-	0.0%	-	0.0%	-	N/A	N/A	N/A
-	0.0%	-	0.0%	-		-	0.0%
-	0.0%	-	0.0%	-	N/A	N/A	N/A
1,331	2.9%	779	58.5%	-	N/A	N/A	N/A
-	0.0%	-	0.0%	-	N/A	N/A	N/A
1,177	4.9%	1,132	96.2%	428	N/A	N/A	N/A
-	0.0%	-	0.0%	-	-	-	0.0%
17	0.4%	8	47.1%		N/A	N/A	N/A
-	0.0%	-	0.0%	-	114	114	100.0%
-	0.0%	-	0.0%	-	N/A	N/A	N/A
149	0.3%	91	61.1%	-	N/A	N/A	N/A
394	1.1%	221	56.1%	384	N/A	N/A	N/A
-	0.0%	-	0.0%	-	-	-	0.0%
68	0.1%	68	100.0%	-	N/A	N/A	N/A
-	0.0%	-	0.0%	-	-	-	0.0%
388	1.9%	88	22.7%	62	N/A	N/A	N/A
-	0.0%	-	0.0%	-	N/A	N/A	N/A
15	0.5%	4	26.7%	-	N/A	N/A	N/A
	0.0%	-	0.0%	-	N/A	N/A	N/A
12	0.4%	6	50.0%	-	N/A	N/A	N/A

				Key ratios					
			Performance measures						
	HK\$ millions	Year ended	Net customer Ioan/deposit ratio	Net interest income/ average total assets	Non-interest income/total operating income	Cost/ income ratio	ROA		
99	UBS AG	31-Dec-18	93.3%	0.7%	87.6%	75.8%	1.0%		
100	UCO Bank	31-Mar-18	185.1%	0.9%	15.9%	18.9%	0.0%		
101	UniCredit Bank AG	31-Dec-18	456.2%	0.8%	-39.2%	86.7%	0.1%		
102	Union Bancaire Privée, UBP SA	31-Dec-18	76.8%	1.0%	60.7%	91.3%	0.2%		
103	Union Bank of India	31-Mar-18	1,358.9%	0.6%	12.0%	26.4%	-2.0%		
104	United Overseas Bank Ltd.	31-Dec-18	188.0%	0.9%	44.9%	25.9%	0.9%		
105	Wells Fargo Bank, National Association	31-Dec-18	814.8%	0.3%	92.1%	89.7%	0.3%		
106	Westpac Banking Corporation	30-Sep-18	118.1%	0.1%	83.8%	91.3%	0.0%		
107	Woori Bank	31-Dec-18	792.9%	0.7%	30.1%	17.0%	1.1%		
108	Yuanta Commercial Bank Co., Ltd.	31-Dec-18	72.0%	1.6%	21.8%	43.6%	0.8%		
	TOTAL	2018	117.4%	0.7%	54.2%	54.6%	0.5%		

Loan asset quality								
Impaired advances / Stage 3 advances					Stage 2 Advances (HKFRS 9)			
Gross impaired advances	Gross impaired advances/ Advances to customers	Stage 3 expected credit loss allowance made against impaired advances	Stage 3 expected credit loss allowance made against impaired advances	Collaterals for impaired advances	Gross advances in Stage 2	Expected credit loss allowance made against Stage 2 advances	Stage 2 expected credit loss allowances as a percentage of gross stage 2 advances	
15	0.0%	15	100.0%	-	N/A	N/A	N/A	
532	4.5%	382	71.8%	442	N/A	N/A	N/A	
-	0.0%	-	0.0%	-	-	-	0.0%	
-	0.0%	-	0.0%	-	-	-	0.0%	
3,232	16.2%	1,377	42.6%	N/A	N/A	N/A	N/A	
280	0.2%	243	86.8%	2	N/A	N/A	N/A	
-	0.0%	-	0.0%	-	-	-	0.0%	
-	0.0%	-	0.0%	-	N/A	N/A	N/A	
-	0.0%	-	0.0%	-	N/A	N/A	N/A	
-	0.0%	-	0.0%	-	N/A	N/A	N/A	
30,692	0.8%	20,614	67.2%	7,465	114	114	100.0%	

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