

ASIA BOND MONITOR MARCH 2017



ASIAN DEVELOPMENT BANK

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Emerging East Asian Local Currency Bond Markets: A Regional Update

Highlights

Bond Market Outlook

Local currency (LCY) government bond yields in advanced economies and emerging East Asia diverged between 31 December and 15 February.^{1,2} Yields in advanced economies rose while yields fell in most emerging East Asian bond markets due to heterogeneous economic fundamentals and changes in risk appetite.

In the United States (US), the Federal Reserve hinted that it would accelerate the pace of policy rate increases in 2017 on the back of a strengthening US economy as evidenced by steadily rising inflation and an unemployment rate that remains low. In the eurozone, gross domestic product (GDP) growth is stable and labor market conditions have improved. However, the European Central Bank indicated that monetary policy may need to remain accommodative. While the Bank of Japan raised its domestic growth outlook in January, it is also likely to maintain an easy monetary policy stance.

Emerging East Asia has shown signs of improving economic growth and rising inflation and a decline in LCY government bond yields was seen in most markets given improving investor confidence. The improved outlook could also strengthen emerging East Asia's financial markets against the possible reversal of capital flows in response to the Federal Reserve's expected monetary policy normalization.

The notable exception to the regional trend of declining yields was the People's Republic of China, where 2-year and 10-year yields rose between 31 December and 15 February as the People's Bank of China engaged in tightening measures to protect against asset and credit risks. Indonesia saw the biggest decline in yields in emerging East Asia during the review period, due to improving investor sentiment buoyed by a narrowing current account deficit in the fourth quarter (Q4) of 2016, an upgrade in sovereign rating outlooks from Fitch Ratings and Moody's Investors Service, rising international reserves, and various policy reforms initiated by the government.

Improving investor confidence also resulted in a decline in credit default swap spreads in all emerging East Asian economies except the Republic of Korea. Furthermore, all currencies in the region appreciated versus the US dollar except for the Hong Kong dollar and Philippine peso.

As the global economy starts to pick up, uncertainties remain that could pose threats to the region's bond markets. These include (i) the acceleration of rate hikes by the Federal Reserve; (ii) uncertainty over policies in major developed economies, particularly the US and the eurozone; and (iii) the depreciation of the Chinese yuan, which challenges growth prospects in Asia.

This issue of the Asia Bond Monitor includes three special discussion boxes. Box 1 discusses the risk of Federal Reserve rate hikes to emerging Asia's financial stability.³ Box 2 analyzes the risks to emerging Asia's financial markets stemming from policy and political uncertainties in the US and the eurozone. Box 3 tackles the impacts of the depreciation of the Chinese yuan.

Local Currency Bond Market Growth in Emerging East Asia

Emerging East Asia's LCY bond market reached a size of USD10,177 billion at the end of December, with growth moderating on both a quarter-on-quarter (q-o-q) and year-on-year (y-o-y) basis.

Leading the region in terms of LCY bond market size at the end of December was the People's Republic of China, whose outstanding bonds of USD7,129 billion accounted for 70.0% of the region's total. The next largest LCY bond market in the region in Q4 2016 was the Republic of Korea's, with outstanding bonds of USD1,714 billion and a regional share of 16.8% at the end of December.

Emerging East Asia's LCY bond market continued to be dominated by government bonds, which totaled USD6,572 billion and accounted for 64.6% of the regional total at the end of December. LCY corporate bonds outstanding stood at USD3,605 billion.

¹ Emerging East Asia comprises the People's Republic of China; Hong Kong, China; Indonesia; the Republic of Korea; Malaysia; the Philippines; Singapore; Thailand; and Viet Nam. ² Bond yields in many emerging East Asian markets have rebounded slightly since the end of the review period (mid-February), largely due to the United States Federal Reserve's policy rate

hike on 15 March. Nevertheless, regional bond yields were still mostly down year-to-date as of 15 March.

³ Emerging Asia comprises the People's Republic of China; Hong Kong, China; India; Indonesia; Republic of Korea; Malaysia; Philippines; Singapore; Taipei, China; Thailand; and Viet Nam.

As a share of emerging East Asia's GDP, LCY bonds outstanding were the equivalent of 68.5% of the region's GDP at the end of December, declining from 69.2% in the previous quarter due to weaker growth in the corporate bond market. The Republic of Korea maintained its position in Q4 2016 as the market with the largest LCY bonds-to-GDP share of 117.3%.

LCY bond issuance declined in Q4 2016 compared with the third quarter as most central banks and governments pared their issuance. On the other hand, corporates were more active issuers during the fourth quarter as they locked in lower borrowing costs ahead of anticipated interest rate increases in the US.

Structural Developments in Local Currency Bond Markets

At the end of December, the foreign holdings share in most emerging East Asian markets declined due to a stronger US dollar and expectations of accelerated US interest rate hikes in 2017. The share of foreign holdings in emerging bond markets fell in Indonesia, Malaysia, and Thailand at the end of December.

However, neither Indonesia nor Malaysia experienced yield upticks as a result of a foreign sell-off. These markets have become more resilient to capital outflows due to solid economic fundamentals, increased demand from domestic market participants, improved investor profiles, and better-developed local currency bond markets following the implementation of the Asian Bond Markets Initiative.

Due to risk aversion among foreign investors, foreign capital outflows were registered in Q4 2016 in all four bond markets for which data are available, with the largest net bond outflows observed in the Republic of Korea. For full-year 2016, the Republic of Korea was the only market that posted net foreign bond outflows, while Thailand recorded the largest foreign capital inflows.

Recent data from January suggest improving sentiments toward emerging market assets, with most markets experiencing a net inflow of foreign capital into their bond markets during the month. Malaysia, however, continued to experience bond outflows in January, albeit at a much slower pace than in Q4 2016.

Local Currency Bond Yields

Emerging East Asian bond yields fell for most tenors in nearly all markets between 31 December and 15 February due to improving investor sentiments resulting from strengthened economic conditions across the region.

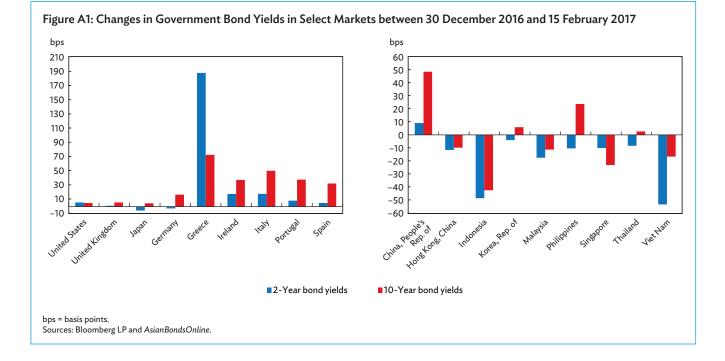
Given emerging East Asia's improved economic prospects, the 2-year versus 10-year yield spread rose in all of the region's markets except Singapore between 31 December and 15 February.

Introduction: Bond Yields Diverge Amid Heightened Global Uncertainty

Yields on global local currency government bonds varied widely between 30 December and 15 February. While yields in advanced economies largely rose during the review period, yields in most emerging East Asian economies trended downward **(Figure A1)**.^{4,5} Despite recent economic data pointing to a pickup in the global economy, the divergence in government bond yields reflects heterogeneous economic fundamentals and changes in risk appetite around the world.

In the United States (US), the Federal Reserve has conveyed that it is likely to accelerate the pace of its rate hikes in 2017 if the economy continues to strengthen. Recent data from the US suggest steadily advancing inflation and an unemployment rate that remains low. The Consumer Price Index (CPI) for full-year 2016 rose 1.6% year-on-year (y-o-y), and further climbed 2.5% y-o-y in January 2017 and 2.7% y-o-y in February 2017. While core inflation is approaching the Federal Reserve's target, the labor market is also exhibiting strong momentum. Job gains averaged 190,000 per month in the second half of 2016, rising to 235,000 in February 2017. The unemployment rate stood at 4.7% in February, which is within the estimated range of the economy's long-run natural unemployment rate. In a report to Congress in February, Federal Reserve Chair Janet Yellen indicated that the US economy's performance has moved closer to central bank targets. She stated that if the labor market and inflation continue their current trends, the Federal Reserve is likely to further increase the policy rate. In short, monetary policy is gradually being normalized in the US.

In the eurozone, gross domestic product (GDP) growth remained stable and labor market conditions improved.



⁴ Emerging East Asia comprises the People's Republic of China; Hong Kong, China; Indonesia; the Republic of Korea; Malaysia; the Philippines; Singapore; Thailand; and Viet Nam.
⁵ Bond yields in many emerging East Asian markets have rebounded slightly since the end of the review period (mid-February), largely due to the United States Federal Reserve's policy rate

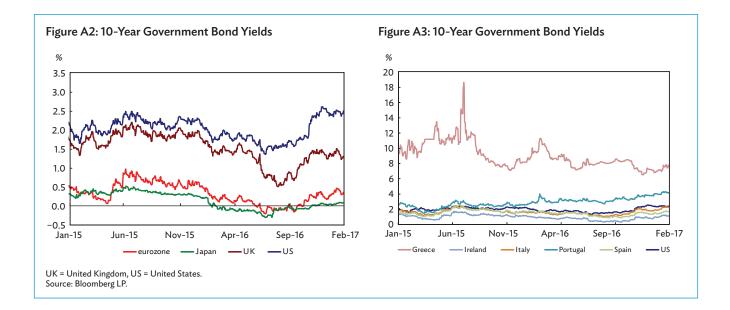
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The seasonally adjusted quarter-on-quarter growth rate was unchanged at 0.4% in the fourth quarter (Q4) of 2016. The unemployment rate remained at 9.6% in January, the lowest reading since May 2009. Inflation rose to 2.0% y-o-y in February 2017 from 1.8% y-o-y in January 2017. Excluding rising energy prices, the eurozone's y-o-y inflation rate was 1.1% and 1.2% in January 2017 and February 2017, respectively, indicating limited underlying inflationary pressures. Given policy uncertainty associated with forthcoming elections in some major European economies later this year, the European Central Bank's President Mario Draghi hinted that monetary policy is likely to remain accommodative to meet inflation targets.

The Bank of Japan (BOJ) recently raised its growth outlook for the domestic economy. Per BOJ, the Japanese economy will grow above its potential in fiscal year 2018. The inflation forecast remained unchanged and inflation is expected to hit the central bank's 2.0% target over the medium-term. Japan's quarter-onquarter GDP growth was unchanged at 0.3% in Q4 2016. GDP growth in fiscal year 2017 is expected to be higher than in fiscal year 2016.⁶ Exports also turned positive in December 2016 and January 2017, reflecting the global economic recovery. To further buoy growth and foster inflation, the BOJ maintained its accommodative monetary policy. Overall, promising signs of economic recovery in major advanced economies have pushed up long-term government bond yields since Q4 2016 (Figures A2, A3).

Emerging East Asia also saw signs of rising inflation and improving growth, fostering investor confidence. As a result, emerging East Asia may now be more resilient to potential capital outflows in response to the Federal Reserve's monetary policy normalization. Between 30 December and 15 February, yields on 2-year and 10-year local currency bonds fell in most emerging East Asian markets (Table A). One notable exception was the People's Republic of China (PRC), where yields on 2-year and 10-year bonds increased 9 bps and 48 bps, respectively. A rise in the PRC's yields was partly driven by a tightening monetary stance, reflecting the People's Bank of China's growing concerns with credit and asset price risks. To promote deleveraging, the central bank recently raised rates on its repurchase agreements by 10 bps and on its Standing Lending Facility by 35 bps. The other economies that saw an uptick in 10-year bond yields were Thailand (3 bps), the Republic of Korea (6 bps), and the Philippines (23 bps).

The largest decline in yields occurred in Indonesia, where yields slid 48 bps for the 2-year bond and 42 bps for the 10-year bond, mainly due to improving market sentiments and rising risk appetite as a result of a narrowing current



⁶ Per BOJ's January 2017 Outlook Report, Japan's Real GDP growth in 2016 and 2017 will be 1.4% and 1.5%, respectively, higher than the 1.0% and 1.3% forecasts made in October 2016. For details, see https://www.boj.or.jp/en/mopo/outlook/gor1701b.pdf

Table A: Changes in Global Financial Conditions

	2-Year Government Bond (bps)	10-Year Government Bond (bps)	5-Year Credit Default Swap Spread (bps)	Equity Index (%)	FX Rate (%)
Major Advanced Economies					
United States	6	5	-	4.9	-
United Kingdom	1	6	(1)	2.2	1.0
Japan	(6)	5	(4)	2.0	2.5
Germany	(3)	17	1	2.7	0.8
Emerging East Asia					
China, People's Rep. of	9	48	(20)	3.5	1.1
Hong Kong, China	(12)	(10)	-	9.1	(0.05)
Indonesia	(48)	(42)	(20)	1.6	1.2
Korea, Rep. of	(4)	6	2	2.8	5.6
Malaysia	(17)	(11)	(21)	4.1	0.8
Philippines	(10)	23	(23)	4.9	(0.6)
Singapore	(10)	(23)	-	7.2	2.0
Thailand	(8)	3	(14)	2.0	2.3
Viet Nam	(53)	(17)	(23)	7.0	0.03
Select European Markets					
Greece	186	72	(3)	(2.7)	0.8
Ireland	18	37	3	0.6	0.8
Italy	18	50	19	(0.9)	0.8
Portugal	8	37	9	(1.1)	0.8
Spain	5	32	(0.9)	2.5	0.8

() = negative, - = not available, bps = basis points, FX = foreign exchange. Notes:

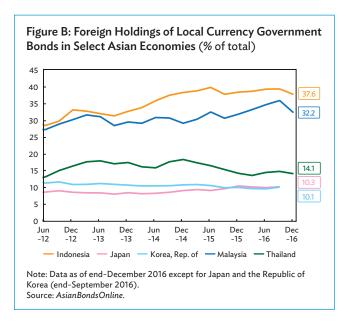
1. Data reflect changes between 30 December 2016 and 15 February 2017.

2. A positive (negative) value for the FX rate indicates the appreciation (depreciation) of the local currency against the United States dollar.

Sources: Bloomberg LP and Institute of International Finance (IIF).

account deficit in Q4 2016, an upgrade in the sovereign rating outlooks (Fitch Ratings in December 2016 and Moody's Investors Service in February 2017), expanding international reserves, and various policy reforms initiated by the government. Singapore saw a 10-bps decline in the 2-year bond yield and a 23-bps decline in the 10-year bond yield. The drops were partly driven by bolstered investor confidence as GDP growth accelerated to 2.9% y-o-y in Q4 2016 from 1.2% y-o-y in the third quarter of 2016. Malaysia also witnessed a decline in its 2-year and 10-year bond yields, partly due to strong demand from local investors despite a rise in inflation to 3.2% y-o-y and continued (but slowing) capital outflows in January.

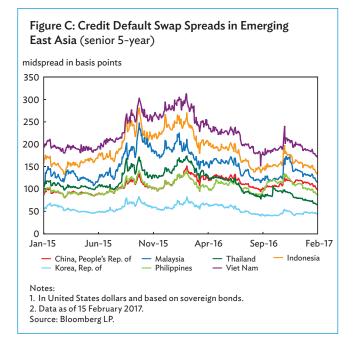
The divergence in global growth prospects, risk outlooks, and monetary stances is driving international capital flows in different directions. Recent quarters have witnessed variations in foreign holdings across Asian bond markets (Figure B). At the end of Q4 2016, the share of foreign holdings in regional bond markets fell in Indonesia, Malaysia, and Thailand, following the US dollar's appreciation and consequent depreciation pressures on local currencies. Malaysia's foreign holdings share dropped the most, shedding more than 3 percentage points to



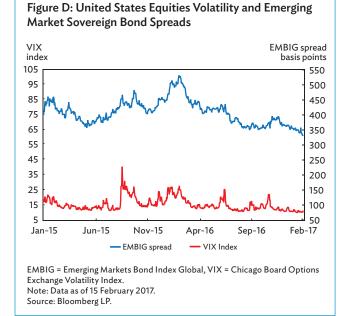
32.2% at the end of December. The share of foreign holdings in Indonesia slipped from 39.2% to 37.6% in the same period. However, neither Malaysia nor Indonesia experienced yield upticks as a result of a foreign sell-off. These markets have become more resilient to capital outflows due to solid economic fundamentals, increased demand from domestic market participants, improved investor profiles, and better-developed local currency bond markets following the implementation of the Asian Bond Markets Initiative. Even with the headwind of policy uncertainty in the US and political uncertainty in the eurozone, global capital flows have started to return to emerging East Asia in 2017. Foreign holdings in Indonesia inched up to 37.8% of the total at the end of January. In the Republic of Korea, after 5 consecutive months of foreign bond outflows, January saw the return of foreign inflows. Thailand also reported strong foreign inflows into its bond market in January.

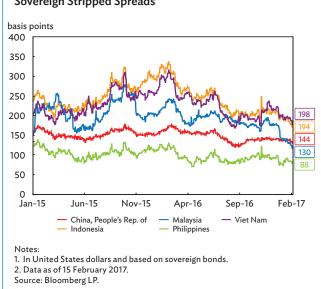
As the monetary policies of major advanced economies have diverged, Asian financial markets have benefited from improved investor confidence and rising risk appetite. Consistent with the region's promising economic prospects, credit default swap spreads declined in all markets between 30 December and 15 February except for the Republic of Korea (Figure C). The largest declines were seen in the Philippines and Viet Nam, with spreads in both markets shedding 23 bps. Malaysia's credit default swap spreads fell 21 bps, while spreads in the PRC and Indonesia shed 20 bps each.

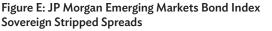
In line with the upturn in the global economy and upbeat investor sentiment, the Volatility Index has been stable and EMBIG spreads and JP Morgan EMBI Sovereign Stripped Spreads both declined between

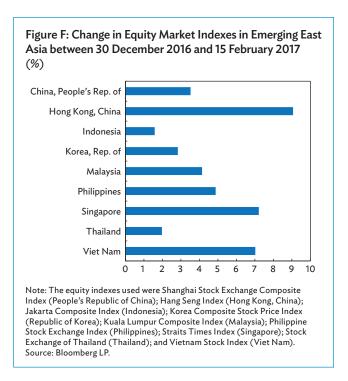


30 December and 15 February (Figures D, E). Equity markets also recovered across emerging East Asia during the review period, largely driven by healthier economic outlooks across the region. The biggest gains were seen in Hong Kong, China (9.1%); Singapore (7.2%); and Viet Nam (7.0%) (Figure F). In Hong Kong, China, much of the recovery in the stock market was due to strong demand from PRC-based investors. Trade, however, weakened, with exports decreasing 1.2% y-o-y in January





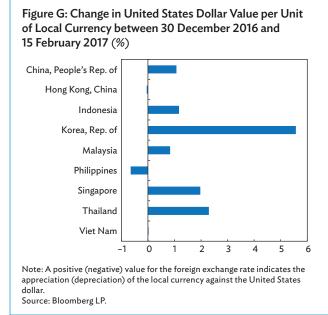




from a 10.1% y-o-y increase in December. In Singapore, the GDP growth rate accelerated to 2.9% y-o-y in Q4 2016 from 1.2% y-o-y in Q3 2016. In Viet Nam, GDP growth nudged up to 6.2% y-o-y in Q4 2016 from 5.9% in the previous quarter.

Underpinned by strengthening economic fundamentals, currencies in emerging East Asian markets have appreciated against the US dollar amid a backdrop of policy uncertainty in the US (Figure G). Among the region's economies, the Korean won gained the most between 30 December and 15 February, appreciating 5.6% during the review period, largely buoyed by positive capital inflows in January. The Thai baht also recovered some of its earlier losses, gaining 2.3% against the US dollar. The two exceptions were the Hong Kong dollar and Philippine peso, which weakened 0.05% and 0.6%, respectively. The recovery in emerging East Asian currencies can be mainly attributed to improvements in economic outlook and investor sentiment. In markets such as Indonesia, the Republic of Korea, and Thailand, positive capital inflows at the start of 2017 also contributed to currency appreciation.

As the global economy starts to pick up, uncertainty will become a key theme for investors in 2017. Different



paces of recovery and varying economic outlooks are leading to divergences in monetary policies. The possible acceleration of rate hikes by the Federal Reserve may pose risks to emerging Asian financial stability (Box 1).7 With unemployment and inflation rates approaching policy targets, the market consensus is that the Federal Reserve will raise the federal funds rate more than once this year. Higher interest rates may cause global capital to flow out of emerging Asian markets and exert depreciation pressure on local currencies. Although many regional economies are adopting a wait-and-see approach and keeping their monetary policy stable, heightened depreciation pressures may push central banks to tighten their domestic monetary stance. Since many emerging Asian economies have rapidly built up foreign and local currency debt positions in the low interest rate environment prevailing after the global financial crisis, the possible tightening of liquidity could challenge their financial stability. Nevertheless, solid economic prospects and sufficient international reserves should cushion such shocks.

Another major source of risk is policy uncertainty in developed economies. Policy and political risks in the US and eurozone will influence the global economic outlook and become a key risk to emerging Asian financial markets (Box 2). Despite a global recovery, the prices of safe-haven assets such as gold remain robust during the review period, which reflects investor concerns

⁷ Emerging Asia comprises the People's Republic of China; Hong Kong, China; India; Indonesia; Republic of Korea; Malaysia; Philippines; Singapore; Taipei, China; Thailand; and Viet Nam.

about possible policy risks in advanced economies and the sustainability of their economic recoveries.

In the US, policy uncertainty may have not been fully priced into asset prices. Changes in trade policy could trigger tensions with major trade partners, which would not only hurt US exports but also raise US inflation due to higher prices of goods. A fiscal stimulus package based on tax cuts and infrastructure investments is still subject to a great deal of uncertainty and has yet to be spelled out clearly. While stimulus would benefit growth, it might also unleash inflationary pressures, which would in turn influence the Federal Reserve's monetary policy and cause accelerated rate hikes and US dollar appreciation. Asian financial markets may further adjust and price in these risks in the future, which would exacerbate volatility.

The eurozone will see several elections in major economies in 2017. The United Kingdom is aiming to invoke Article 50 of the Lisbon Treaty by the end of March, although the timing and outcome of Brexit negotiations between the United Kingdom and the European Union remains unclear. The series of elections in some European economies and possible changes in economic policies of new governments in the eurozone may threaten the sustainability of Europe's budding recovery. The eurozone still faces major unsolved problems such as Greece's sovereign debt and the Italian banking sector's fragility, which further add to the vulnerability of the eurozone's recovery. Under this cloud of global political and policy uncertainty, Asian financial market might become more volatile and the demand for safe-haven assets such as precious metals and highly rated sovereign bonds could surge.

The Chinese yuan's depreciation also poses potential risks to the economies and financial markets of Asia (Box 3). A weaker yuan might curb the exports of Asia to the PRC, the region's largest trade partner, and intensify competition for exports to the US and other economies. In the unlikely case that the yuan's depreciation accelerates, capital may flow out of the PRC and pull down asset prices, which would weaken the balance sheets of financial institutions and challenge highly leveraged investors in the PRC. Negative investor sentiment could also spill over to other Asian markets, leading to capital outflows from the region.

Box 1: Emerging Asia's Financial Stability amid the Latest Round of Interest Rate Hikes in the United States

The latest round of United States (US) interest rate hikes, which began in December 2015, accelerated in recent months with 25-basis-point hikes in both December 2016 and March 2017. The recent release of US economic data points to a robust economy. Nonfarm payroll growth surpassed expectations and unemployment remains low.^a The core Consumer Price Index, excluding food and energy, rose 2.2% year-on-year (y-o-y) in February 2017.^b Solid labor market conditions and improvements in inflation suggest upbeat growth prospects, which may lead to one or two more rate hikes in 2017.^c

Uncertainty in the International and Domestic Liquidity Environments

A strong US dollar attracts international capital flows. The gradual normalization of monetary policy and robust economic performance in the US provide support to the US dollar. Despite the retreat of the US dollar index in January 2017, the US dollar still enjoys solid economic fundamentals (Figure B1.1).^d With improving economic prospects, international capital will flow back to US dollardenominated assets, placing downward pressure on asset prices in emerging Asia.^e International capital flows are

^a https://www.bls.gov/news.release/pdf/empsit.pdf

^b https://www.bls.gov/news.release/cpi.nr0.htm

^c Details available at http://www.cmegroup.com/trading/interest-rates/countdown-to-fomc.html

^d Real trade-weighted US dollar value and nominal US effective exhange rate.

^e Emerging Asia comprises the People's Republic of China; Hong Kong, China; India; Indonesia; Republic of Korea; Malaysia; Philippines; Singapore; Taipei, China; Thailand; and Viet Nam.

Box 1: Emerging Asia's Financial Stability amid the Latest Round of Interest Rate Hikes in the United States continued

Figure B1.1: Federal Funds Target Rate and the Value of the United States Dollar 0/ Index 14 200 180 12 160 10 140 120 8 100 6 80 60 4 40 2 20 0 0 -83 -85 -87 -89 -91 -93 -95 -97 -99 -01 -03 -05 -07 -09 -11 -13 -15 -17 - Monthly average federal funds target rate (LHS) - Real trade-weighted value of the US dollar (RHS) - Nominal US effective exchange rate (RHS) LHS = left-hand side, RHS = right-hand side, US = United States. Note: Monthly average federal funds target rate and real trade-weighted value of the US dollar data are as of February 2017; nominal US effective exchange rate data is as of January 2017.

sensitive to the US dollar exchange rate. When the US dollar index was low before 2014, emerging Asia experienced net capital inflows; when the US dollar started to rise in the second half of 2014, emerging Asia witnessed net capital outflows (Figure B1.2). More interest rate hikes in the US could further drain foreign investment from emerging Asia.

Sources: Haver Analytics and Bank for International Settlements.

Emerging Asia also faces uncertainty concerning the domestic monetary stances of many regional economies that have been lowering policy rates over the past 2 years to support investment and growth. A tightening monetary stance in the US might spillover to emerging economies, especially those which have open capital accounts and flexible exchange rates. If currency depreciation pressures gain momentum, central banks may adjust domestic monetary policies in line with the Federal Reserve. Since policy rates in emerging Asia are strongly correlated with one another due to common external shocks and growing regional integration, rising interest rates may adversely affect the region's liquidity environment (Figure B1.3).

Increased Leverage in Emerging Asia in a Low Interest Rate Environment

Emerging Asia has witnessed a rapid expansion of leverage in both the public and private sectors in recent years. Rising

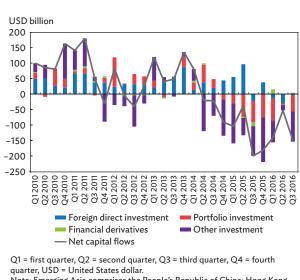
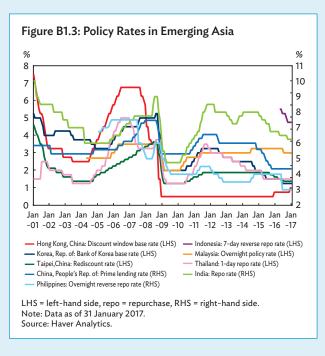


Figure B1.2: Capital Flows in Emerging Asia

Note: Emerging Asia comprises the People's Republic of China; Hong Kong, China; India; Indonesia; the Republic of Korea; Malaysia; the Philippines; Singapore; Taipei,China; Thailand; and Viet Nam. Source: Haver Analytics.



leverage poses several types of risks. The first risk is a currency mismatch associated with surging foreign currency (FCY) debt. Global monetary easing and a weak US dollar between 2010 and 2014 triggered burgeoning FCY debt in emerging Asia.

Box 1: Emerging Asia's Financial Stability amid the Latest Round of Interest Rate Hikes in the United States continued

During the period 2010–2016, the outstanding amount of FCY debt in emerging Asia doubled, with corporate debt increasing by more than 150% **(Figure B1.4)**. The rapid expansion of FCY debt exacerbates currency mismatches, which arise when domestic corporates generate profits in local currencies but repay principal and interest in foreign currencies. Heightened FCY exposure may pose a risk when the local currency depreciates in the face of US interest rate hikes.

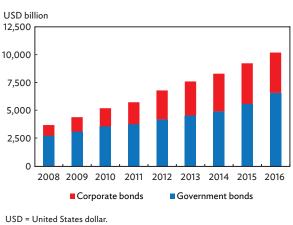
Growing domestic leverage also increases the risk exposure to interest rate hikes. Amid an accommodative monetary environment since 2012, emerging Asia's domestic leverage levels have been increasing, especially in the private sector. In terms of direct financing, the aggregate amount of outstanding corporate bonds in select emerging Asian economies rose 280% from 2008 until 2016, while outstanding government bonds rose 139% over the same period (Figure B1.5a). In terms of indirect financing, bank credit extended to the private nonfinancial sector continued to expand in many emerging Asian economies (Figure B1.5b). Higher interest rates would decrease the value of these debt assets and challenge financial stability.



Source: AsianBondsOnline.

Figure B1.4: Outstanding Foreign Currency Debt in Select Emerging Asian Economies

Figure B1.5a: Outstanding Local Currency Debt in Select Emerging Asian Economies



Notes:

1. Emerging Asia data available for the People's Republic of China; Hong Kong, China; Indonesia; the Republic of Korea; Malaysia; the

Philippines; Singapore; Thailand; and Viet Nam.

2. Data are year-end figures.

Source: AsianBondsOnline.

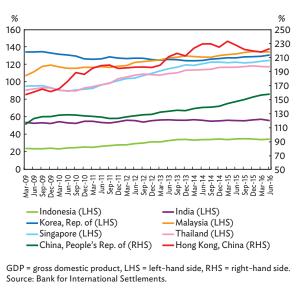


Figure B1.5b: Bank Credit Extended to the Private Nonfinancial Sector (share of GDP)

continued on next page

Box 1: Emerging Asia's Financial Stability amid the Latest Round of Interest Rate Hikes in the United States continued

Moderation in economic growth might also heighten default risks across the region. Nonperforming loan ratios have increased in some emerging Asian economies since 2012, which is ringing alarm bells across the region (Figure B1.6a). Widened credit spreads also reflect concerns of default risk as investors claim higher premiums to cover growing risks (Figure B1.6b).

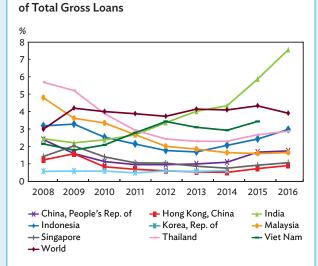
Risks are Manageable in the Short-Term; Prudent Measures are Needed in the Long-Term

Emerging Asia may be exposed to potential risks in an uncertain liquidity environment, but the risks are still manageable in the short-term.

There is policy uncertainty in the US. Despite a strong economic performance, the US dollar weakened slightly in January 2017, partly due to concerns about policy uncertainty. Fiscal stimulus may face resistance in an environment of rising interest rates. Rapid increases in interest rates would exacerbate the fiscal burden of the US government, especially with tax cuts looming. In addition, an excessively strong US dollar could harm exports and curb economic growth.

Emerging Asian economies may not tighten their monetary stance soon. According to the Asian Development Outlook

Figure B1.6a: Bank Nonperforming Loans as a Share



Sources: World Bank's World Development Indicators and the International Monetary Fund's Global Financial Stability Report.

Supplement—December 2016, developing Asia's economic growth is expected to slightly pick up to 5.7% in 2017 from 5.6% in 2016.^f With economic growth still fragile in light of global uncertainties, Asian central banks may exercise caution before tightening monetary policies. The subdued economic outlook also may not support an uptick in financing costs. Meanwhile, discrepancies in monetary policies among major developed economies indicate that global monetary easing may not end soon.^g Thus, a combination of domestic and external factors suggest that the region's liquidity environment will remain stable over the short-term.

Emerging Asia is maintaining healthy economic growth and enjoying relatively strong macroeconomic fundamentals such as large foreign reserves. Robust growth and fundamentals, aided by relatively sound prudential regulation and (in some cases) macroprudential policies, will protect emerging Asia from external shocks in the short-term. However, in light of the latent danger posed by the region's growing debt, prudential measures that gradually control leverage levels—especially in less-efficient sectors and industries suffering from overcapacity can facilitate the region's structural transformation and upgrading, and contribute to greater resilience in the long-term.

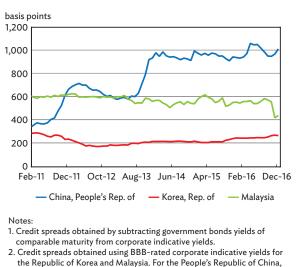


Figure B1.6b: Credit Spreads between Government Bonds and 3-Year BBB Corporate Bonds

2. Creat sprease obtained using BBB-lated Corporate Indicative yields for the Republic of Korea and Malaysia. For the People's Republic of China, BBB+ corporate indicative yields are used. Source: AsianBondsOnline.

^f Developing Asia comprises the 45 regional developing member economies of the Asian Development Bank. https://www.adb.org/sites/default/files/publication/216421/ado -supplement-dec-2016.pdf

^g At their recent monetary policy meetings, the Bank of Japan and the European Central Bank both indicated that they would keep interest rates steady and maintain existing quantitative easing programs over the short-term. http://www.boj.or.jp/en/announcements/release_2017/k170131a.pdf and https://www.ecb.europa.eu/press/pr/date/2017/html/pr170119.en.html

Box 2: Asian Financial Markets Under a Cloud of Policy Uncertainty

The year kicked off with signs of moderate economic recovery in major developed economies. In the United States (US), the Consumer Price Index (CPI) recorded a 0.6% month-on-month (m-o-m) increase in January, the largest gain since February 2013.ª Sales for retail and food services rose 0.4% m-o-m in January, while total business sales saw a m-o-m increase of 2.0% in December 2016.^b

In the eurozone, the All-Items Harmonised Indices of Consumer Prices increased 1.8% y-o-y in January, a 4-year high. The eurozone's unemployment rate of 9.6% in December 2016 and January 2017 were the lowest since May 2009.° At the same time, core inflation in the eurozone remained low and the region's 0.4% quarter-onquarter gross domestic product growth rate for the fourth quarter of 2016 was slightly lower than expectations.^d The eurozone also saw 1.6% m-o-m and 0.3% m-o-m decreases in industrial production and retail trade volume, respectively, in December 2016.^e

In Japan, the annual CPI increase in December 2016 was 0.3%. The Bank of Japan expects the CPI to increase at a pace of 1.7% y-o-y by fiscal year 2018, which would be close to the central bank's annual target level of 2.0%. Japan's real gross domestic product growth forecast was raised from 1.0% to 1.4% for fiscal year 2016 and from 1.3% to 1.5% for fiscal year 2017.^f

A somewhat more robust recovery in the US than in the eurozone and Japan is causing monetary policies to diverge. The US Federal Reserve is expected to hike policy rates two or three times in 2017, while the European Central Bank and the Bank of Japan will retain their respective quantitative easing programs. Notwithstanding heterogeneity in the speed of economic recovery among major developed economies, their overall economic prospects are positive. Yet, looming political and policy uncertainties in developed economies pose potential downside risks. Concerns over these uncertainties are engendering momentum for safehaven assets such as precious metals. Gold prices, for example, increased following the Federal Reserve's rate hike in December 2016, which was at odds with conventional price patterns (Figure B2.1).

Given the region's healthy economic outlook, emerging Asian financial markets have become more attractive amid global political and policy uncertainty.^g Since the beginning of 2017, major emerging Asian currencies have appreciated against the US dollar and regional stock markets have risen tangibly (Figures B2.2a, B2.2b). Over the course of 2017,

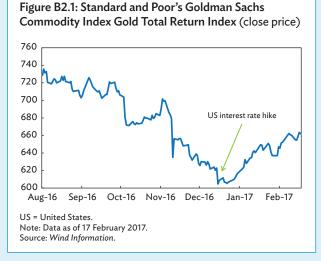
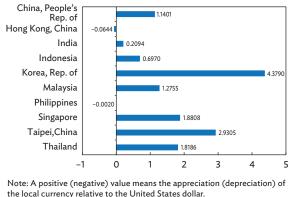


Figure B2.2a: Change in United States Dollar Value per Unit of Local Currency between 31 December 2016 and 31 January 2017 (in %)

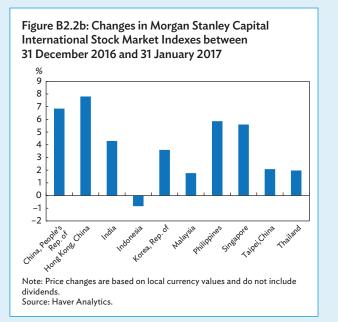


Source: Haver Analytics

- b https://www.commerce.gov/economicindicators, http://www.census.gov/retail/marts/www/marts_current.pdf, http://www.census.gov/mtis/www/data/pdf/mtis_current.pdf http://ec.europa.eu/eurostat/news/news-releases
- ^d In January, y-o-y core inflation (exclusive of energy and unprocessed food) in the eurozone was 0.9%, which was the same as December 2016 and 0.1 percentage point lower than in January 2016. http://ec.europa.eu/eurostat/documents/2995521/7885873/2-22022017-AP-EN.pdf/67b105f6-fd32-4685-ac1d-62e7a394eca1
- http://ec.europa.eu/eurostat/documents/2995521/7868348/2-14022017-BP-EN.pdf/da0c1c33-2d80-4cc2-9f34-de2dab92aac5, http://ec.europa.eu/eurostat/ documents/2995521/7868318/4-14022017-AP-EN.pdf/d735ee06-3a57-4078-9e2d-e54237b2e374, http://ec.europa.eu/eurostat/documents/2995521/7851535/4-03022017 -AP-EN.pdf/0ac0511e-b858-472d-828e-606c58d0ba7a
- ^f http://www.stat.go.jp/english/data/cpi/1581.htm, http://www.boj.or.jp/en/mopo/outlook/gor1701b.pdf
- ⁸ Emerging Asia comprises the People's Republic of China; Hong Kong, China; India; Indonesia; the Republic of Korea; Malaysia; the Philippines; Singapore; Taipei, China; Thailand; and Viet Nam.

https://www.bls.gov/news.release/cpi.nr0.htm

Box 2: Asian Financial Markets Under a Cloud of Policy Uncertainty continued

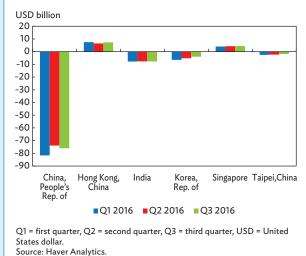


on the other hand, major political and policy events in the US and eurozone may influence emerging Asian financial markets in different ways.

Policy Uncertainty in the United States

The trade policy and fiscal stimulus of the new US administration has generated a great deal of interest and uncertainty. It is not yet clear how the new administration's approaches to trade and spending will evolve. Changes in trade policy would influence emerging Asia's growth, though the shocks could be mitigated. While its fiscal stimulus package lacks clarity at present, its mere airing has improved investment sentiment and risk appetite in the US. Such ebullience might spill over into emerging Asian financial markets.

Changes in trade policy could trigger trade tensions and conflict between the US and its major Asian trade partners. Many emerging Asian economies run trade surpluses with the US and therefore any change in trade policy would affect the region's exports and growth, and hit the earnings of many export-oriented corporations (Figure B2.3a). However, the multilateral World Trade Organization framework makes it difficult for members to unilaterally erect high tariffs and pursue other measures. Emerging Asian economies also have a long history of coping with tariff and nontariff barriers. Futhermore, many emerging Asian economies, especially members of the Figure B2.3a: Goods and Services Trade Balance with the United States



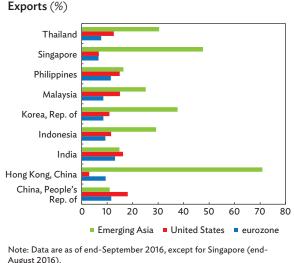


Figure B2.3b: Breakdown of Exports as Shares of Total

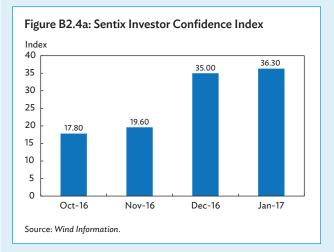
Source: Haver Analytics.

Association of Southeast Asian Nations, trade increasingly with regional partners (Figure B2.3b). There may also be resistance within the US against trade policy changes, including measures directed at manufactured goods from emerging Asia, which would raise prices and thus reduce the purchasing power of US households. Therefore, the magnitude of a US trade shock on emerging Asia may be more limited than widely feared.

Box 2: Asian Financial Markets Under a Cloud of Policy Uncertainty continued

On the fiscal front, the US administration has proposed a stimulus package to boost domestic growth. Plans include individual and corporate tax cuts as well as large-scale infrastructure investments. Once approved by Congress, these tax cuts and infrastructure investments will bolster demand. A possible downside risk is a spike in inflation given the tightening labor market, which could accelerate the interest rate hike cycle and curb investments.

Despite the lack of detail about the magnitude, composition, and implementation of a fiscal stimulus package, the positive economic outlook has improved investor sentiment and risk appetite (Figures B2.4a, B2.4b). The Sentix Investor Confidence Index has surged more than 80% since November 2016 and over the past 3 months the Standard



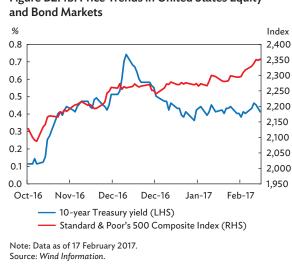


Figure B2.4b: Price Trends in United States Equity

and Poor's 500 Composite Index has gained 7.5%. Yields on 10-year US Treasury bonds initially climbed after November's election result on expectations of a stronger US economy and tightened monetary stance, before sliding due to heightened policy uncertainty. Improved investment sentiment could spill over to emerging Asian financial markets by pushing down bond prices. However, concerns over rising inflation and a tighter liquidity environment might raise bond yields in emerging Asia, leading to a mixed picture. (Figure B2.5).



Political Risks in the Eurozone

Notwithstanding signs of economic recovery, political uncertainty in the eurozone will be a major investment concern in 2017 as it tends to increase demand for less risky assets. Specific sources of uncertainty include negotiations over the terms of the United Kingdom's exit from the European Union and elections in a number of European economies (Table B2). New administrations of these European economies may shift the current policy agenda and influence the pace of recovery.

Recent opinion polls reveal the weakening of pro-European Union sentiment across the continent, further exacerbating political uncertainty. The possibility of changes in economic policies challenges the sustainability of economic recovery by adversely affecting business confidence, consumer confidence, demand, and growth. Despite some promising

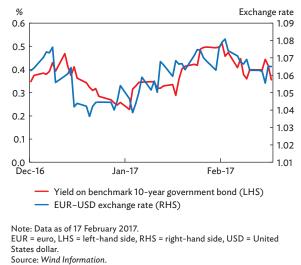
Box 2: Asian Financial Markets Under a Cloud of Policy Uncertainty continued

Date	Event	Results
Jun 2016	UK referendum on EU membership	The UK voted to leave the EU by 52% to 48%.
Dec 2016	Italian referendum on constitutional reform	Italy voted to reject constitutional reform by 59% to 41%. Prime Minister Matteo Renzi resigned.
Feb-Mar 2017	The UK Parliament voted on a bill to formally start Brexit negotiations by invoking Article 50 of the Lisbon Treaty	The UK Parliament passed the bill to invoke Article 50 of the Lisbon Treaty.
Mar 2017	General election in the Netherlands	Mark Rutte's party won the election.
Apr 2017 May 2017	Presidential election in France	
Oct 2017	General election in Germany	

Table B2: Key Political Events in the Eurozone, 2016-2017

EU = European Union, UK = United Kingdom. Source: AsianBondsOnline compilation.

signs of economic recovery in the eurozone, mounting policy risks partly contributed to the European Central Bank's decision to extend its quantitative easing program until December 2017. Both the euro exchange rate and Figure B2.6: Exchange Rate and Benchmark 10-Year Government Bond Yields in the Eurozone



yields on 10-year government bonds fell in February 2017 (Figure B2.6). Further political uncertainty in the eurozone may increase demand for safe-haven assets like precious metals and highly rated sovereign bonds.

Box 3: The Impact of the Chinese Yuan's Depreciation

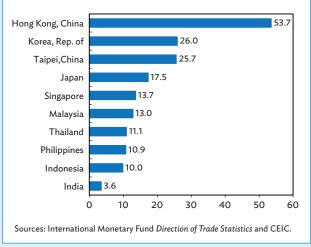
Over the past 12 months, the Chinese yuan has depreciated against the currencies of all major developed economies as well as many Asian currencies **(Figure B3.1a)**. Given the People's Republic of China's (PRC) economic weight in Asia, the yuan's depreciation poses potential risks to the region's economies and financial markets. The yuan's depreciation also poses a risk to the PRC's financial stability, especially if its depreciation were to gain speed.

The depreciation of the yuan might adversely affect the exports of Asian economies to the PRC, with the impacts most pronounced in East and Southeast Asian economies that trade heavily with the PRC. On the other hand, since the PRC imports a significant amount of parts and components from East and Southeast Asian economies for final assembly and export, these economies would also partially benefit from increased Chinese exports driven by the depreciation of the yuan. The impact on other Asian economies that trade less with the PRC, such as India, would be more subdued **(Figure B3.1b)**.

Asian exporters that compete with the PRC's exporters in markets such as the United States (US) would lose a degree of competitiveness due to a weaker Chinese yuan. The magnitude of the loss would depend on the relative depreciation of the exporter's currency vis-à-vis the yuan (**Figure B3.2**). For example, the extent to which manufacturing exporters in the Republic of Korea would



Note: A positive (negative) value means the appreciation (depreciation) of the Chinese yuan relative to other currencies. Source: Bloomberg LP. Figure B3.1b: Exports to the People's Republic of China as Share of Total Exports, 2015 (%)



be impacted would depend on the relative depreciation of the won-dollar versus the yuan-dollar exchange rate. The competitiveness effects would be felt most strongly in East and Southeast Asian economies with significant exports of manufactured goods to the US and other markets in common with PRC exporters. In principle, this could raise the specter of competitive devaluation among regional currencies.



Box 3: The Impact of the Chinese Yuan's Depreciation continued

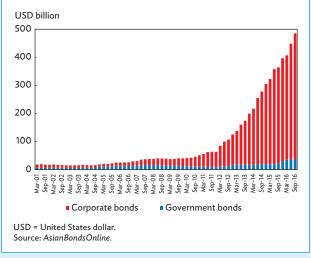
There is a risk that the depreciation of the yuan against the US dollar will further widen the US's bilateral trade deficit with the PRC, which could lead to a change in trade policy in the US. This would be a very negative development for Asia, which depends on trade and openness for its prosperity.

A weaker yuan would also reduce tourism demand across Asia. The large and growing number of tourists from the PRC is a major source of demand for many economies in the region. Reduced tourist traffic from the PRC resulting from a weaker yuan would be felt in the tourism sectors of many regional economies.

It is unlikely that the depreciation of the yuan would have a major effect on either foreign direct investment inflows or outflows in the absence of an extended and sharp depreciation since foreign direct investment is mainly driven by long-term fundamentals. However, since depreciation lowers the return on short-term portfolio investments, the PRC might experience short-term capital outflows, especially when the Federal Reserve accelerates the pace of its interest rate increases in 2017. Short-term capital outflows would further contribute to expectations of currency depreciation and may lead to more capital flight from the PRC. If such a negative feedback loop were to form, investor sentiment on the PRC would sour. Given the strong economic linkages between the PRC and many East and Southeast Asian economies, the expectations of further yuan depreciation would also lead to negative investor sentiment in the region and short-term capital outflows from Asia, including outflows from the region's bond markets. As an example of the impact of weakening investor sentiment in the region, in the third quarter of 2016, portfolio investment in Asian markets fell almost USD50 billion from the previous quarter.^a

In an unlikely case, an extended and sharp depreciation of the yuan also poses significant risk to the PRC's financial stability. The low interest rate environment globally during the past several years led to a build-up of foreign currency debt in the PRC, especially in the private sector (Figure B3.3). The yuan's rapid depreciation would increase the risk of currency mismatch in instances where US dollar loans were used to finance investments that generate revenues in yuan. This would also lead to the erosion of corporate profits. In addition, exacerbated capital outflows

Figure B3.3: Foreign-Currency-Denominated Bonds Outstanding in the People's Republic of China

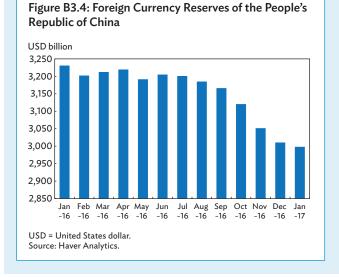


based on market expectations of further depreciation could trigger declines in asset prices, such as real estate, which would not only weaken the balance sheets of financial institutions but also heighten default risks for investors with significant leverage.

Despite the potential risks mentioned above, several factors are likely to mitigate the negative effects of a weaker yuan on Asia. First, the dominant driver of global currency markets at present is the prospect of a strong US dollar. The likely policy mix of the new US administration fiscal stimulus and trade policy combined with monetary tightening—suggests that a strong US dollar will persist for some time. Given the dominance of the dollar in exchange rate movements, other Asian currencies are also likely to remain weak and the scope for their depreciation vis-à-vis the yuan will be limited.

Second, there are indications that PRC authorities view the yuan's rapid fall negatively given the risk it poses to financial stability. Throughout 2016, the People's Bank of China intervened in foreign exchange markets to prevent the rapid depreciation of the yuan by utilizing its foreign exchange reserves (Figure B3.4). Authorities may undertake an array of measures to arrest the yuan's slide, including tightening restrictions on capital outflows. While the yuan cannot be

^a This figure was generated using data from Haver Analytics on 11 Asian economies: the People's Republic of China; Hong Kong, China; India; Indonesia; the Republic of Korea; Malaysia; the Philippines; Singapore; Taipei, China; Thailand; and Viet Nam.



Box 3: The Impact of the Chinese Yuan's Depreciation continued

exchanged freely, every citizen of the PRC has an annual currency conversion quota of up to USD50,000. In practice, authorities may conduct tighter scrutiny of this conversion allowance by more closely examining the purpose of currency exchanges. Greater inspection of capital account trades, such as international foreign exchange transfers, could also be used to manage the pace of capital outflows. These potential measures imply that the central bank could put a hard floor on the yuan's decline.

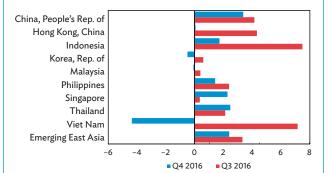
Bond Market Developments in the Fourth Quarter of 2016

Size and Composition

Emerging East Asia's local currency bonds outstanding reached USD10.2 trillion at the end of December.

The size of emerging East Asia's local currency (LCY) bond market climbed to USD10,177 billion at the end of December.⁸ Growth in the fourth quarter (Q4) of 2016 moderated to 2.4% quarter-on-quarter (q-o-q) from 3.3% q-o-q in the previous quarter **(Figure 1a)**. Singapore and Thailand posted increased q-o-q growth rates in Q4 2016, while q-o-q growth slowed in the People's Republic of China (PRC); Hong Kong, China; Indonesia; and the Philippines. LCY bond markets in the Republic of Korea, Malaysia, and Viet Nam contracted on a q-o-q basis in Q4 2016.

Figure 1a: Growth of Local Currency Bond Markets in the Third and Fourth Quarters of 2016 (q-o-q, %)



q-o-q = quarter-on-quarter, Q3 = third quarter, Q4 = fourth quarter. Notes:

- 1. Calculated using data from national sources.
- 2. Growth rates are calculated from local currency base and do not include currency effects.
- 3. Emerging East Asia growth figures are based on 31 December 2016 currency exchange rates and do not include currency effects.
- 4. For Singapore, corporate bonds outstanding data based on AsianBondsOnline estimates.

Sources: People's Republic of China (*ChinaBond* and *Wind Information*); Hong Kong, China (Hong Kong Monetary Authority); Indonesia (Bank Indonesia; Directorate General of Budget Financing and Risk Management, Ministry of Finance; and Indonesia Stock Exchange); Republic of Korea (*EDAILY BondWeb* and the Bank of Korea); Malaysia (Bank Negara Malaysia); Philippines (Bureau of the Treasury and Bloomberg LP); Singapore (Monetary Authority of Singapore, Singapore Government Securities, and Bloomberg LP); Thailand (Bank of Thailand); and Viet Nam (Bloomberg LP and Vietnam Bond Market Association). Leading the region in terms of LCY bond market size was the PRC, where outstanding bonds reached USD7,129 billion at the end of December, accounting for 70.0% of emerging East Asia's LCY bond market. The PRC's bond market expanded 3.4% q-o-q in Q4 2016, compared with 4.2% q-o-q growth in the third quarter (Q3) of 2016, largely driven by increases in the stock of Treasury and other government bonds, particularly local government bonds. Policy bank bonds and corporate bonds also contributed to growth in the PRC bond market in Q4 2016.

The next largest LCY bond market in the region was the Republic of Korea's, with outstanding bonds of USD1,714 billion at the end of December. The LCY bond market in the Republic of Korea contracted on a q-o-q basis in Q4 2016, with both its government and corporate bond segments posting declines due to maturities exceeding new issuance. Government bonds slipped 1.0% q-o-q in Q4 2016, largely driven by decreases in the stock of central bank bonds. The corporate bond market experienced a marginal drop of 0.2% q-o-q.

In Thailand, the LCY bond market expanded to reach a size of USD303 billion at the end of December on growth of 2.5% q-o-q, which stemmed largely from increases in the stock of central bank bonds and corporate bonds. In contrast, the stock of state-owned enterprise bonds contracted in Q4 2016, while government bonds and Treasury bills were broadly unchanged.

At the end of December, the outstanding size of Malaysia's LCY bond market stood at USD260 billion, contracting 0.1% q-o-q in Q4 2016. The decline was largely driven by corporate bonds and central bank bills, which saw lower issuance volumes during the quarter. On the other hand, central government bonds posted a marginal 0.7% q-o-q hike, buoyed by an increase in the stock of Malaysian Government Securities.

Sukuk (Islamic bonds) comprise more than half of Malaysia's LCY bond market. At the end of December, Malaysia remained the largest Islamic debt market in

⁸ Emerging East Asia comprises the People's Republic of China; Hong Kong, China; Indonesia; the Republic of Korea; Malaysia; the Philippines; Singapore; Thailand; and Viet Nam.

emerging East Asia. About 41.7% of total government bonds and 73.9% of total corporate bonds comprise *sukuk*.

Hong Kong, China's LCY bond market was broadly unchanged in Q4 2016 at a size of USD236 billion at the end of December. Government bonds declined as maturities exceeded new issuance of Exchange Fund Notes and Hong Kong Special Administrative Region bonds. The q-o-q growth in Hong Kong, China's LCY bond market was mostly led by corporate bonds as corporates locked in low borrowing costs. Increased demand for Hong Kong dollar-denominated assets as an investment option also encouraged corporates to borrow, following the depreciation of the Chinese yuan.

Singapore's LCY bond market climbed to a size of USD230 billion at the end of December, up 2.3% q-o-q in Q4 2016. Growth was driven largely by the government bond segment on the back of increased sales of Monetary Authority of Singapore (MAS) bills and Singapore Government Securities bills and bonds during the quarter. In contrast, the corporate bond segment contracted 2.0% q-o-q, with sentiments dampened by corporate defaults, particularly in the energy sector.

The LCY bond market in Indonesia rose to a size of USD163 billion at the end of December on 1.7% q-o-q growth. Growth was largely driven by increases in the stock of central government bonds and corporate bonds. Modest growth in the stock of government bonds came about as the government has mostly fulfilled its issuance plan for the year, resulting in fewer auctions of Treasury instruments in Q4 2016. Corporate bonds climbed at a much faster pace, albeit from a lower base, on more active issuance by corporates as they took advantage of lower borrowing costs. Central bank bills, known as *Sertifikat* Bank Indonesia, declined as Bank Indonesia opted to use other tools to manage liquidity.

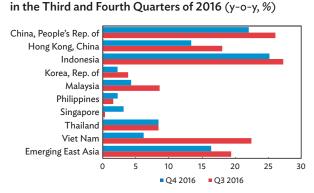
At the end of December, the Philippines' outstanding LCY bonds reached a size of USD98 billion, rising a modest 1.4% q-o-q in Q4 2016. Growth was led by increases in the stock of Treasury bonds and corporate bonds. In contrast, the stocks of Treasury bills and other government bonds declined during the review period.

The size of the LCY bond market in Viet Nam slipped to USD44 billion at the end of December as growth contracted 4.4% q-o-q, led by a drop in government bonds, particularly State Bank of Vietnam bills and stateowned enterprise bonds. On the other hand, corporate bonds outstanding rose on new issuance by six corporate entities in Q4 2016.

Growth in emerging East Asia's LCY bond market also moderated on a year-on-year (y-o-y) basis in Q4 2016, rising at a slower pace of 16.4% y-o-y compared with 19.4% y-o-y in the previous quarter **(Figure 1b)**. While all markets posted positive y-o-y growth during the review period, six out of the nine markets experienced slower rates of expansion. The exceptions to this trend were the Philippines and Singapore which both showed faster growth, and Thailand where growth was unchanged. The fastest-growing bond markets in Q4 2016 on a y-o-y basis were Indonesia (25.1%); the PRC (22.0%); and Hong Kong, China (13.4%).

Emerging East Asia's LCY bond market continued to be dominated by government bonds, which comprised the equivalent of USD6,572 billion, or 64.6% of the regional total, at the end of December **(Table 1)**. Growth moderated on both a q-o-q and y-o-y basis, easing to 3.2% q-o-q and 23.8% y-o-y from 4.8% q-o-q

Figure 1b: Growth of Local Currency Bond Markets



Q3 = third quarter, Q4 = fourth quarter, y-o-y = year-on-year Notes:

- 1. Calculated using data from national sources.
- 2. Growth rates are calculated from local currency base and do not include currency effects.
- 3. Emerging East Asia growth figures are based on 31 December 2016 currency exchange rates and do not include currency effects.
- 4. For Singapore, corporate bonds outstanding data based on AsianBondsOnline estimates.

Sources: People's Republic of China (*ChinaBond* and *Wind Information*); Hong Kong, China (Hong Kong Monetary Authority); Indonesia (Bank Indonesia; Directorate General of Budget Financing and Risk Management, Ministry of Finance; and Indonesia Stock Exchange); Republic of Korea (*EDAILY BondWeb* and the Bank of Korea); Malaysia (Bank Negara Malaysia); Philippines (Bureau of the Treasury and Bloomberg LP); Singapore (Monetary Authority of Singapore, Singapore Government Securities, and Bloomberg LP); Thailand (Bank of Thailand); and Viet Nam (Bloomberg LP and Vietnam Bond Market Association).

Table 1: Size and Composition of Local Currency Bond Markets

	Q4 2	2015	Q3 2	016	Q4 2	016	Gro	owth Rate	(LCY-base	e %)	Gro	wth Rate	(USD-bas	e %)
	Amount		Amount	%	Amount		Q4 2015 Q4 2016				Q4	2015	Q4	2016
	(USD billion)	% share	(USD billion)	share	(USD billion)	% share	q-o-q	у-о-у	q-o-q	у-о-у	q-o-q	у-о-у	q-o-q	у-о-у
China, People's Rep. of														
Total	6,248	100.0	7,178	100.0	7,129	100.0	6.8	24.0	3.4	22.0	4.5	18.5	(0.7)	14.1
Government	4,067	65.1	4,969	69.2	4,974	69.8	7.6	27.6	4.2	30.8	5.3	22.0	0.1	22.3
Corporate	2,182	34.9	2,209	30.8	2,155	30.2	5.3	17.8	1.6	5.6	3.1	12.6	(2.4)	(1.2)
Hong Kong, China	_,				_,						•		()	()
Total	208	100.0	236	100.0	236	100.0	4.2	7.3	0.1	13.4	4.2	7.3	0.1	13.3
Government	120	57.4	138	58.3	137	58.1	5.8	9.2	(0.3)	14.8	5.8	9.3	(0.3)	14.7
Corporate	89	42.6	98	41.7	99	41.9	2.0	4.8	0.5	11.5	2.0	4.8	0.5	11.4
Indonesia	07	72.0	70	71.7	,,,	71.2	2.0	4.0	0.5	11.5	2.0	4.0	0.5	11.4
Total	127	100.0	165	100.0	163	100.0	3.4	14.4	1.7	25.1	9.9	2.8	(1.5)	28.1
Government	127	85.7	103	86.7	139	85.8	4.0	14.4	0.7	25.2	10.5	3.1	(1.5)	28.1
	109		22		23									
Corporate	18	14.3	22	13.3	23	14.2	0.1	12.1	8.7	24.7	6.4	0.8	5.2	27.6
Korea, Rep. of	1 7 2 0	100.0	1.000	100.0	1 71 4	100.0	11		(0.5)	2.2	10	1.0	(01)	(0.2)
Total	1,720	100.0	1,886	100.0	1,714	100.0	1.1	8.8	(0.5)	2.3	1.9	1.0	(9.1)	(0.3)
Government	700	40.7	777	41.2	703	41.0	1.0	7.4	(1.0)	3.1	1.9	(0.2)	(9.6)	0.5
Corporate	1,020	59.3	1,109	58.8	1,011	59.0	1.1	9.7	(0.2)	1.7	2.0	1.8	(8.8)	(0.9)
Malaysia														
Total	261	100.0	282	100.0	260	100.0	4.0	1.4	(0.1)	4.3	6.5	(17.4)	(7.8)	(0.1)
Government	142	54.7	153	54.1	141	54.3	1.6	(5.5)	0.3	3.6	4.0	(23.0)	(7.5)	(0.8)
Corporate	118	45.3	130	45.9	119	45.7	7.1	11.1	(0.5)	5.2	9.6	(9.5)	(8.3)	0.7
Philippines														
Total	101	100.0	99	100.0	98	100.0	0.8	2.1	1.4	2.3	0.4	(2.7)	(0.9)	(3.3)
Government	84	82.9	82	82.4	80	81.7	0.2	1.3	0.6	0.8	(0.2)	(3.4)	(1.7)	(4.7)
Corporate	17	17.1	17	17.6	18	18.3	3.8	6.0	5.5	9.5	3.4	1.0	3.1	3.6
Singapore														
Total	228	100.0	239	100.0	230	100.0	(0.5)	0.0	2.3	3.2	(0.2)	(6.6)	(3.6)	1.2
Government	129	56.7	134	56.1	133	57.9	(2.3)	(5.7)	5.6	5.4	(2.1)	(11.8)	(0.5)	3.3
Corporate	99	43.3	105	43.9	97	42.1	2.1	8.5	(2.0)	0.3	2.3	1.4	(7.7)	(1.7)
Thailand														
Total	278	100.0	306	100.0	303	100.0	2.5	8.1	2.5	8.4	3.5	(1.2)	(1.1)	9.0
Government	208	74.9	226	73.8	222	73.1	2.5	7.8	1.5	5.9	3.5	(1.5)	(2.0)	6.5
Corporate	70	25.1	80	26.2	81	26.9	2.5	9.0	5.2	16.0	3.4	(0.4)	1.5	16.6
Viet Nam														
Total	42	100.0	47	100.0	44	100.0	10.3	5.2	(4.4)	6.2	10.2	0.03	(6.3)	4.9
Government	40	96.4	45	96.0	42	95.4	9.8	3.2	(5.0)	5.0	9.8	(1.8)	(6.9)	3.7
Corporate	1	3.6	2	4.0	2	4.6	24.4	114.3	11.1	38.2	24.3	103.9	8.8	36.5
Emerging East Asia														
Total	9,213	100.0	10,438	100.0	10,177	100.0	5.1	17.9	2.4	16.4	4.0	11.3	(2.5)	10.5
Government	5,599	60.8	6,666	63.9	6,572	64.6	5.9	20.3	3.2	23.8	4.6	13.8	(1.4)	17.4
Corporate	3,614	39.2	3,772	36.1	3,605	35.4	3.9	14.3	1.0	4.8	3.0	7.6	(4.4)	(0.3)
•	5,014	37.2	3,112	30.1	5,005	55.4	3.7	14.5	1.0	4.0	3.0	7.0	(4.4)	(0.5)
Japan Total	0 0 21	100.0	11 110	100.0	0 6 2 7	100.0	(10)	(01)	0.1	F 0	(21)	(0 A)	(12.2)	70
	8,931 8,274	100.0	11,110 10,227	100.0	9,637		(1.9)	(0.1)	0.1	5.0	(2.1)	(0.4)	(13.3)	7.9 × 4
Government	8,274	92.7	10,327	93.0	8,966	93.0	(2.0)	0.2	0.2	5.4	(2.2)	(0.2)	(13.2)	8.4
Corporate	656	7.3	783	7.0	671	7.0	(0.5)	(3.1)	(1.1)	(0.5)	(0.8)	(3.5)	(14.3)	2.2
Memo Item: India		100.0	1100	100.0	1004	100.0		10.0		17.5				
Total	1,124	100.0	1,180	100.0	1,286	100.0	3.5	10.9	11.1	17.5	2.7	5.7	8.9	14.4
Government	835	74.3	851	72.1	951	73.9	3.9	9.3	13.9	16.9	3.1	4.2	11.7	13.9
Corporate	289	25.7	329	27.9	335	26.1	2.4	15.9	3.8	19.1	1.5	10.5	1.7	16.0

() = negative, LCY = local currency, q-o-q = quarter-on-quarter, Q3 = third quarter, Q4 = fourth quarter, USD = United States dollar, y-o-y = year-on-year.

Notes:

1. For Singapore, corporate bonds outstanding data based on AsianBondsOnline estimates.

2. Corporate bonds include issues by financial institutions.

3. Bloomberg LP end-of-period LCY-USD rates are used.

4. For LCY base, emerging East Asia growth figures based on 31 December 2016 currency exchange rates and do not include currency effects.

5. Emerging East Asia comprises the People's Republic of China; Hong Kong, China; Indonesia; the Republic of Korea; Malaysia; the Philippines; Singapore; Thailand; and Viet Nam. Sources: People's Republic of China (*ChinaBond* and *Wind Information*); Hong Kong, China (Hong Kong Monetary Authority); Indonesia (Bank Indonesia; Directorate General of Budget Financing and Risk Management, Ministry of Finance; and Indonesia Stock Exchange); Republic of Korea (*EDAILY BondWeb* and the Bank of Korea); Malaysia (Bank Negara Malaysia); Philippines (Bureau of the Treasury and Bloomberg LP); Singapore (Monetary Authority of Singapore, Singapore, Government Securities, and Bloomberg LP); Thailand (Bank Nedonesia); Viet Nam (Bloomberg LP and Vietnam Bond Market Association); Japan (Japan Securities Dealers Association); and India (Securities and Exchange Board of India and Bloomberg LP). and 27.0% y-o-y in Q3 2016. The PRC led the region in terms of size, with government bonds outstanding of USD4,974 billion at the end of December. The Republic of Korea was second with outstanding bonds of USD703 billion and Thailand was next at USD222 billion. They were followed by Malaysia with government bonds valued at USD141 billion and Indonesia with USD139 billion. The government bond markets of Hong Kong, China and Singapore were the next largest, with outstanding bonds of USD137 billion and USD133 billion, respectively. The Philippines and Viet Nam have the two smallest government bond markets in emerging East Asia with government bonds outstanding of USD80 billion and USD42 billion, respectively.

LCY corporate bonds outstanding in emerging East Asia rose to USD3,605 billion at the end of December, reflecting gains of 1.0% q-o-q and 4.8% y-o-y. The region's q-o-q growth rate in Q4 2016 was up from 0.7% q-o-q in Q3 2016 despite q-o-q contractions in the corporate bond markets of the Republic of Korea, Malaysia, and Singapore. All other emerging East Asian markets experienced positive q-o-q growth rates, which helped offset the decline. Higher growth in corporate bonds in Q4 2016 was due to increased issuance ahead of potential Federal Reserve rate increases in 2017.

The corporate bond segment's share of the region's overall LCY bond market stood at 35.4% at the end of December. The PRC accounts for the lion's share of corporate bonds in emerging East Asia, comprising 59.8% of the region's total outstanding stock of corporate bonds, followed by the Republic of Korea at 28.0%.

As a share of GDP, emerging East Asia's LCY bond market was the equivalent of 68.5% at the end of December, down from 69.2% in the previous quarter (Table 2). The decline was due to much weaker growth in the corporate bond market. Corporate bonds as a share of GDP fell to 24.3% in Q4 2016 from 25.0% in Q3 2016, while the share of government bonds to GDP was broadly unchanged at 44.2%. The Republic of Korea was a significant driver of the decline. Despite this, it maintained its position as the market with the largest share of bonds to GDP at 117.3% in Q4 2016, although this was down from 129.1% in the previous quarter, stemming from a decline in the share of corporate bond to GDP from 75.9% in Q3 2016 to 69.2% in Q4 2016. Malaysia's LCY bond market as a share of GDP was the second largest in the region at 94.9%.

Table 2: Size and Composition of Local Currency Bond Markets (% of GDP)

	Q4 2015	Q3 2016	Q4 2016
China, People's Rep. of			
Total	58.9	66.0	66.5
Government	38.3	45.7	46.4
Corporate	20.6	20.3	20.1
Hong Kong, China			
Total	67.4	74.5	73.6
Government	38.7	43.4	42.8
Corporate	28.7	31.1	30.8
Indonesia			
Total	15.2	17.7	17.7
Government	13.0	15.4	15.1
Corporate	2.2	2.4	2.5
Korea, Rep. of			
Total	129.6	129.1	117.3
Government	52.7	53.2	48.1
Corporate	76.9	75.9	69.2
Malaysia			
Total	96.7	96.9	94.9
Government	52.9	52.4	51.5
Corporate	43.8	44.5	43.4
Philippines			
Total	35.8	34.0	33.7
Government	29.7	28.0	27.5
Corporate	6.1	6.0	6.2
Singapore			
Total	79.2	80.0	81.3
Government	44.9	44.8	47.1
Corporate	34.3	35.1	34.2
Thailand			
Total	73.2	74.7	75.6
Government	54.8	55.1	55.3
Corporate	18.4	19.6	20.3
Viet Nam			
Total	22.4	23.8	22.1
Government	21.6	22.8	21.1
Corporate	0.8	0.9	1.0
Emerging East Asia			
Total	63.6	69.2	68.5
Government	38.6	44.2	44.2
Corporate	24.9	25.0	24.3
Japan			
Total	202.4	210.4	209.8
Government	187.5	195.6	195.2
Corporate	14.9	14.8	14.6

GDP = gross domestic product, Q3 = third quarter, Q4 = fourth quarter. Notes:

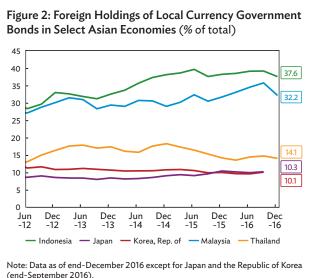
1. Data for GDP is from CEIC. Q4 2016 GDP figure carried over from Q3 2016 for the Republic of Korea.

2. For Singapore, corporate bonds outstanding data based on AsianBondsOnline estimates.

Sources: People's Republic of China (*ChinaBond* and *Wind Information*); Hong Kong, China (Hong Kong Monetary Authority); Indonesia (Bank Indonesia; Directorate General of Budget Financing and Risk Management, Ministry of Finance; and Indonesia Stock Exchange); Republic of Korea (*EDAILY BondWeb* and the Bank of Korea); Malaysia (Bank Negara Malaysia); Philippines (Bureau of the Treasury and Bloomberg LP); Singapore (Monetary Authority of Singapore, Singapore Government Securities, and Bloomberg LP); Thailand (Bank of Thailand); Viet Nam (Bloomberg LP and Vietnam Bond Market Association); and Japan (Japan Securities Dealers Association).

Foreign holding shares in emerging East Asian government bond markets fell amid volatile market conditions in Q4 2016.

The share of foreign holdings in most emerging East Asian markets declined in Q4 2016 due to a stronger US dollar and expectations of accelerated US interest rate hikes in 2017. At the end of December, nonresident holdings of LCY government bonds had declined on a q-o-q basis for most markets for which data are available **(Figure 2)**. Recent data in January indicated a partial reversal, reflecting improving sentiments for emerging market assets.

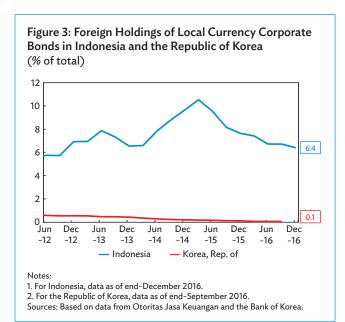


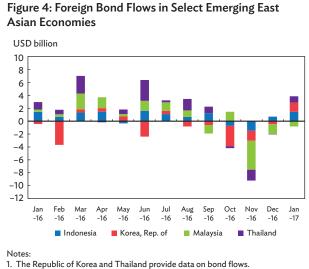
Source: AsianBondsOnline.

At the end of December, the largest decline was noted in Malaysia, where foreign investors' holdings fell by more than 3 percentage points to 32.2%. In the same period, the share of foreign holdings in Indonesia slipped by 1.6 percentage points to 37.6%. In both Indonesia and Malaysia, a large share of government bonds is held by foreign investors, making these markets susceptible to capital flight during market sell-offs. This was evident in Q4 2016, when volatile financial market conditions persisted and the foreign holdings share in these two markets declined more rapidly than in regional markets with lower foreign holding shares. At the same time, the Indonesian and Malaysian markets were not severely affected by these outflows as demand from domestic investors remained strong. Furthermore, market players have already priced in more aggressive rate hikes by the Federal Reserve in 2017 and the selloffs tend to be short-lived. In January, for example, foreign investors shored up their holdings of Indonesian government bonds with their share rising to 37.8% of the total.

Thailand's foreign holdings share slipped to 14.1% at the end of December from 14.8% at the end of September. In the Republic of Korea, the foreign holdings share inched up to 10.1% at the end of September from a share of 9.7% at the end of June.

For LCY corporate bonds, the negligible share of offshore investors is in stark contrast to foreign holdings of government bonds. In Indonesia, nonresident holdings accounted for only 6.4% of the total at the end of December, down slightly from 6.7% at the end of September (Figure 3). Since reaching a peak of 10.5% at the end of March 2015, the foreign holdings share of the corporate bond market in Indonesia has steadily declined. The share of nonresident investor holdings in the Republic of Korea's LCY corporate bond market was a negligible 0.1% at the end of September.





The Republic of Korea and Thailand provide data on bond flows.
 For Indonesia and Malaysia, month-on-month changes in foreign holdings of

local currency government bonds were used as a proxy for bond flows. 3. Data provided as of end-January 2017.

 Figures were computed based on 31 January 2017 exchange rates to avoid currency effects.

Sources: Directorate General of Budget Financing and Risk Management, Ministry of Finance; Financial Supervisory Service; Bank Negara Malaysia; and Thai Bond Market Association.

Foreign capital outflows from emerging East Asian bond markets were observed in Q4 2016.

As global financial markets were mostly volatile in Q4 2016, foreign investors became risk averse, which resulted in capital outflows in all four markets for which data on capital flows are available **(Figure 4)**. Negative investor sentiments dragged down the region's bond markets on account of the uncertain direction of US economic policies and expectations of more frequent interest rate hikes by the Federal Reserve.

The largest bond outflows were noted in the Republic of Korea, where offshore investors reduced their bond holdings by USD5.1 billion in Q4 2016 following outflows of USD0.9 billion in Q3 2016. Data from the Financial Supervisory Service indicated that the outflows from the Republic of Korea's bond market were due largely to redemptions of maturing debt securities, particularly Korean Treasury Bonds and Monetary Stabilization Bonds (MSBs).

In Malaysia, capital outflows from the bond market totaled USD4.5 billion in Q4 2016, a reversal from inflows of USD1.0 billion in Q3 2016. Thailand posted net outflows of USD2.1 billion and Indonesia recorded bond outflows of USD1.4 billion.

For full-year 2016, the Republic of Korea's bond market was the only one in the region to post net foreign capital outflows at USD10.6 billion. Thailand had the largest foreign capital inflows in 2016, which amounted to USD9.4 billion. Indonesia and Malaysia also posted foreign capital inflows in 2016 at USD8.0 billion and USD3.3 billion, respectively.

More recent data suggest improved sentiments in the region's bond markets, with most experiencing a net inflow of foreign capital in January. Indonesia had the largest inflows in the region, with foreign investors adding USD1.5 billion to their holdings of IDR-denominated bonds. Rebounding strongly in January was the Republic of Korea, which after 5 months of posting capital outflows recorded net inflows of USD1.4 billion in January, due partly to a lower volume of bond redemptions. Thailand lodged net inflows of USD1.0 billion in its bond market in the first month of the year. The only exception to this trend among markets for which data are available was Malaysia, which continued to post capital outflows in January, albeit a much smaller USD0.8 billion. Malaysia posted outflows due to maturing bonds exceeding new issuances, leading to a smaller supply of available bonds to reinvest in.

Local currency bond issuance in emerging East Asia was down in the fourth quarter of 2016, driven by the decline in issuance of government bonds in most markets.

Issuance of LCY bonds in emerging East Asia was down 14.8% q-o-q to USD946 billion in Q4 2016 **(Table 3)**. The decline was driven by a 23.0% q-o-q contraction in the issuance of government bonds to USD608 billion, while corporate bond issuance rose 5.3% q-o-q to USD338 billion. Issuance in the region fell 8.4% y-o-y on lower volumes of new issues in both the government and corporate bond markets.

Issuance of central government bonds—Treasury bills, Treasury bonds, and other government securities amounted to USD368 billion in Q4 2016, comprising 38.9% of total LCY bond issuance in the region. This was down 31.9% from the volume issued in Q3 2016. Almost all markets in the region exhibited the same trend. The only exceptions were in Hong Kong, China and Singapore,

Table 3: Local-Currency-Denominated Bond Issuance (gross)

	Q4 2	015	Q3 2	016	Q4 2	016	Growt (LCY-t	h Rate base %)	Growth Rate (USD-base %)	
	Amount (USD	% share	Amount (USD	% share	Amount (USD	% share	Q42			2016
	billion)		billion)		billion)		p-o-q	у-о-у	p-o-q	у-о-у
China, People's Rep. of										
Total	665	100.0	717	100.0	532	100.0	(22.7)	(14.4)	(25.7)	(20.0)
Government	381	57.3	491	68.5	314	59.0	(33.4)	(11.8)	(36.0)	(17.5)
Central Bank	0	0.0	0	0.0	0	0.0	-	-	-	-
Treasury and Other Govt.	381	57.3	491	68.5	314	59.0	(33.4)	(11.8)	(36.0)	(17.5)
Corporate	284	42.7	226	31.5	218	41.0	0.6	(18.0)	(3.3)	(23.3)
Hong Kong, China										
Total	90	100.0	99	100.0	104	100.0	4.3	15.6	4.3	15.5
Government	80	88.5	91	91.3	93	89.4	2.1	16.7	2.1	16.6
Central Bank	79	87.5	90	90.7	92	88.6	1.8	17.0	1.8	16.9
Treasury and Other Govt.	0.9	1.0	0.6	0.6	0.8	0.8	35.4	(9.7)	35.4	(9.8)
Corporate	10	11.5	9	8.7	11	10.6	27.5	7.3	27.5	7.2
Indonesia										
Total	8	100.0	15	100.0	9	100.0	(35.8)	12.9	(37.9)	15.6
Government	7	90.3	13	85.8	6	68.6	(48.8)	(14.3)	(50.4)	(12.3)
Central Bank	1	14.1	4	24.2	1	15.1	(60.0)	20.6	(61.3)	23.4
Treasury and Other Govt.	6	76.2	9	61.6	5	53.5	(44.3)	(20.8)	(46.1)	(18.9)
Corporate	0.8	9.7	2	14.2	3	31.4	42.4	267.5	37.8	276.1
Korea, Rep. of										
Total	160	100.0	144	100.0	139	100.0	5.5	(11.3)	(3.6)	(13.5)
Government	72	44.6	70	48.5	56	40.6	(11.8)	(19.4)	(19.4)	(21.4)
Central Bank	37	22.9	35	24.2	27	19.1	(16.5)	(26.0)	(23.8)	(27.9)
Treasury and Other Govt.	35	21.7	35	24.4	30	21.5	(7.1)	(12.4)	(15.1)	(14.6)
Corporate	89	55.4	74	51.5	82	59.4	21.9	(4.7)	11.3	(7.2)
Malaysia										
Total	22	100.0	16	100.0	11	100.0	(25.0)	(46.9)	(30.8)	(49.2)
Government	9	39.6	6	39.9	4	39.2	(26.4)	(47.5)	(32.1)	(49.8)
Central Bank	3	11.6	1	6.0	0.7	6.0	(25.0)	(72.5)	(30.8)	(73.7)
Treasury and Other Govt.	6	28.0	5	33.9	4	33.1	(26.7)	(37.2)	(32.4)	(39.8)
Corporate	13	60.4	10	60.1	7	60.8	(24.0)	(46.5)	(29.9)	(48.8)
Philippines										
Total	4	100.0	8	100.0	4	100.0	(44.6)	22.8	(45.8)	16.2
Government	3	82.6	7	87.9	3	64.9	(59.0)	(3.5)	(60.0)	(8.7)
Central Bank	0	0.0	0	0.0	0	0.0	-	-	-	-
Treasury and Other Govt.	3	82.6	7	87.9	3	64.9	(59.0)	(3.5)	(60.0)	(8.7)
Corporate	0.6	17.4	0.9	12.1	1	35.1	60.3	148.0	56.7	134.5
Singapore										
Total	59	100.0	65	100.0	62	100.0	1.4	7.4	(4.4)	5.3
Government	59	95.5	62	95.4	62	98.4	4.6	7.4 10.6	(4.4)	5.3 8.4
Central Bank	50	95.5 87.4	58	95.4 89.2	56	90.4	2.7	10.8	(1.4)	8.7
Treasury and Other Govt.	52	87.4	4	6.2	50	90.2 8.1	32.7	7.4	(3.5) 25.0	5.3
Corporate	3	4.5	3	4.6	1	1.6	(63.9)	(61.0)	(66.0)	(61.7)
Thailand	5	т.5	5	4.0	1	1.0	(05.9)	(01.0)	(00.0)	(01.7)
	(0	100.0	70	100.0	70	100.0	(())	16.0		17 -
Total	60 50	100.0	78	100.0	70	100.0	(6.3)	16.8	(9.5)	17.5
Government	50	83.0	64	82.5	56	80.1	(9.1)	12.6	(12.2)	13.3
Central Bank	35	59.3	55	70.6	51	72.2	(4.2)	42.3	(7.5)	43.1
Treasury and Other Govt.	14	23.8	9	11.9	6	7.9	(37.9)	(61.2)	(40.1)	(61.0)
Corporate	10	17.0	14	17.5	14	19.9	7.0	37.3	3.3	38.

continued on next page

Table 3 continued

	Q4 2015		Q3 2016		Q4 2016		Growth Rate (LCY-base %)		Growth Rate (USD-base %)	
	Amount		Amount		Amount	% share	Q4 2016		Q4 2016	
	(USD billion)	% share	(USD billion)	% share	(USD billion)		q-o-q	у-о-у	q-o-q	у-о-у
Viet Nam										
Total	14	100.0	18	100.0	14	100.0	(22.1)	2.5	(23.7)	1.3
Government	14	98.6	18	99.3	14	98.6	(22.7)	2.5	(24.3)	1.3
Central Bank	7	52.7	15	83.3	13	90.1	(15.7)	75.3	(17.4)	73.2
Treasury and Other Govt.	6	45.9	3	16.0	1	8.4	(59.0)	(81.1)	(59.8)	(81.4)
Corporate	0.2	1.4	0.1	0.7	0.2	1.4	69.7	3.4	66.2	2.2
Emerging East Asia										
Total	1,082	100.0	1,160	100.0	946	100.0	(14.8)	(8.4)	(18.5)	(12.6)
Government	671	62.0	822	70.9	608	64.3	(23.0)	(5.4)	(26.0)	(9.4)
Central Bank	213	19.7	258	22.2	240	25.4	(3.6)	13.5	(6.9)	12.4
Treasury and Other Govt.	457	42.3	564	48.7	368	38.9	(31.9)	(14.7)	(34.8)	(19.6)
Corporate	411	38.0	338	29.1	338	35.7	5.3	(13.3)	0.1	(17.8)
Japan										
Total	434	100.0	509	100.0	413	100.0	(6.2)	(7.3)	(18.7)	(4.7)
Government	410	94.7	454	89.3	389	94.1	(1.1)	(7.8)	(14.3)	(5.2)
Central Bank	0	0.0	0	0.0	0	0.0	-	-	-	-
Treasury and Other Govt.	410	94.7	454	89.3	389	94.1	(1.1)	(7.8)	(14.3)	(5.2)
Corporate	23	5.3	55	10.7	24	5.9	(48.7)	1.6	(55.6)	4.4

() = negative, - = not applicable, LCY = local currency, q-o-q = quarter-on-quarter, Q3 = third quarter, Q4 = fourth quarter, USD = United States dollar, y-o-y = year-on-year. Notes:

1. Corporate bonds include issues by financial institutions.

2. Bloomberg LP end-of-period LCY-USD rates are used.

3. For LCY-base, emerging East Asia growth figures are based on 31 December 2016 currency exchange rates and do not include currency effects.

Sources: People's Republic of China (ChinaBond); Hong Kong, China (Hong Kong Monetary Authority); Indonesia (Bank Indonesia; Directorate General of Budget Financing and Risk Management, Ministry of Finance; and Indonesia Stock Exchange); Republic of Korea (EDAILY Bondweb and the Bank of Korea); Malaysia (Bank Negara Malaysia); Philippines (Bloomberg LP and Bureau of the Treasury); Singapore (Singapore Government Securities and Bloomberg LP); Thailand (Bank of Thailand and Thailand Bond Market Association); Viet Nam (Bloomberg LP and Vietnam Bond Market Association); and Japan (Japan Securities Dealers Association).

which issue central government bonds to provide yield curve guidance for the pricing of private debt securities, unlike other governments in the region that issue bonds to fund budget deficits. The q-o-q increases in issuances in Hong Kong, China and Singapore were part of their programmed issuance plans for the year.

The main driver of the q-o-q contraction in central government bonds was the 33.4% q-o-q decline in issuance by the PRC. The PRC accounts for 85.4% of the region's total issuance of central government paper. The slowdown was most evident in the issuance of local government bonds, which fell to CNY959 billion in Q4 2016 from CNY1,508 billion in Q3 2016. This was partly due to the implementation of a quota by the Ministry of Finance in bond swaps of local government bank loans into bonds, which is part of efforts to restructure local government debt. The auctions of Treasury bonds, particularly during the latter part of the year, was met with low demand mostly due to tight domestic liquidity conditions and the expected Federal Reserve rate hikes. Issuance of policy bank bonds also fell in Q4 2016.

Issuance of central bank bonds, which account for 25.4% of the region's issuance total, also declined in Q4 2016, albeit at a slower pace of 3.6% q-o-q, to USD240 billion. Most central banks in the region issued fewer bonds in Q4 2016 as liquidity conditions were tight. The largest drop in volume was in the issuance of MSBs by the Bank of Korea, which reduced its planned auctions to help stabilize the market after the US elections. The decline in volume was capped by the relatively stable issuance of the two largest issuers of central bank bonds in emerging East Asia, the Hong Kong Monetary Authority and MAS, which together account for 61.7% of the region's total.

In contrast, corporate bond issuance in emerging East Asia rose 5.3% q-o-q to reach USD338 billion in Q4 2016, driven by the 21.9% q-o-q surge in new corporate bond issues in the Republic of Korea, the second largest corporate bond issuer in the region. Its corporate bond market accounted for nearly one fourth of the region's corporate issuance total. Most markets in the region posted double-digit q-o-q growth in Q4 2016.

The PRC corporate bond market, which accounted for nearly two thirds of new corporate bond issuance in the region, posted marginal growth of 0.6% q-o-q. Malaysia and Singapore posted q-o-q contractions of 24.0% and 63.9%, respectively, in Q4 2016. The tepid issuance in Singapore was partly due to bond defaults in the second half of the year leading to risk aversion in the corporate bond sector.

Most markets in the region issued lower volumes of LCY bonds in Q4 2016 compared with the previous quarter. The exceptions were Hong Kong, China; the Republic of Korea; and Singapore.

The PRC remained the largest issuer of LCY bonds in Q4 2016 with total issuance of USD532 billion, comprising 56.3% of the regional total. Issuance for the quarter fell 22.7% q-o-q and 14.4% y-o-y. The q-o-q contraction was mainly due to lower issuance volumes for government bonds while new corporate bond issues were almost unchanged from the previous quarter. The tepid issuance of corporate bonds in Q4 2016 was a result of some companies canceling or postponing planned bond sales due to market volatility and liquidity concerns. The y-o-y decline was driven by falling issuance of both government and corporate bonds.

The Republic of Korea was the second largest issuer in Q4 2016 with total issuances up 5.5% q-o-q to USD139 billion. The rise in corporate bond issuance was capped by a decline in issuance of government securities. The government and the Bank of Korea decreased issuance of Korea Treasury Bonds and MSBs, respectively, to help stabilize market volatility after the US elections in November. On a y-o-y basis, total issuance fell 11.3%, with declines in both the government and corporate bond sectors.

In Hong Kong, China, total LCY bond issuance rose 4.3% q-o-q to USD104 billion. The Hong Kong Monetary Authority issued more Exchange Fund Bills in Q4 2016 in response to increased demand from banks amid rising liquidity in the market. Corporate bond issuance was also up in Q4 2016 as companies took advantage of relatively lower interest rates. Compared to a year earlier, growth in LCY bond issuance in Hong Kong, China accelerated to 15.6% y-o-y.

Singapore's LCY bond issuance of USD62 billion in Q4 2016 was almost at par with that of Q3 2016, inching up 1.4% q-o-q, as the rise in issuance of government bonds was capped by lower issuance of corporate bonds. On a y-o-y basis, issuance in Singapore rose 7.4%, led by MAS bills, which are used to mop up excess liquidity and manage currency volatility.

Bond issuance in Thailand amounted to USD70 billion, down 6.3% q-o-q on fewer planned auctions of central government paper and Bank of Thailand bonds. In addition, a number of the auctions were only partially awarded and met with weak demand as Q4 2016 saw the lowest average bid coverage ratios for auctions of government and central bank bonds. Meanwhile, issuance of corporate bonds rose 7.0% q-o-q. On a y-o-y basis, Thailand's bond issuance rose 16.8%, as both the government and corporate bond segments posted growth.

In Viet Nam, LCY bond issuance dropped 22.1% q-o-q to USD14 billion due to reduced issuance by the central government and the State Bank of Vietnam. The corporate bond sector recorded a surge in issuance in Q4 2016 that was driven by two firms. Compared to the same period a year earlier, issuance in Viet Nam inched up 2.5%.

Malaysia's LCY bond issuance in Q4 2016 was down 25.0% q-o-q to USD11 billion as both government and corporate bond issuance fell. Issuance of central government bonds dropped partly due to a smaller budget deficit target as part of Malaysia's fiscal consolidation efforts. Total issuance in Malaysia's LCY bond market fell 46.9% y-o-y on declines in both sectors.

In Indonesia, total LCY bond issuance fell 35.8% q-o-q to USD9 billion, largely driven by fewer scheduled auctions of central government bonds in Q4 2016 as the government had mostly met its program goals for the year through a frontloading policy in which it issues more bonds during the first half of the year. Issuance of central bank bonds also declined in Q4 2016 as Bank Indonesia continued to use other monetary policy tools to manage liquidity. Meanwhile, new corporate bond issues surged 42.4% q-o-q in Q4 2016 as corporates took advantage of lower borrowing costs. On a y-o-y basis, Indonesia's bond

issuance rose 12.9%, driven by a jump in new corporate bond issues.

Total LCY bond issuance dropped the most in the Philippines, declining 44.6% q-o-q to USD4 billion. This was partly the result of a high base in Q3 2016 when the Government of the Philippines issued PHP100 billion worth of retail Treasury bonds. The Bureau of the Treasury also rejected or only partially awarded most of its scheduled auctions of Treasury bills and bonds in Q4 2016 as market participants sought higher yields given uncertainty in the market. Bonds issued by Philippine corporates rose 60.3% q-o-q in Q4 2016 as they opted to increase borrowing in anticipation of higher interest rates. Total issuance rose 22.8% y-o-y, driven mainly by growth in the corporate bond sector.

Total cross-border bond issuance in emerging East Asia amounted to USD2.2 billion, reflecting contractions of 37.5% q-o-q and 12.5% y-o-y in Q4 2016.

Three PRC-based financial firms sold HKD864 million (USD111 million) worth of bonds denominated in Hong Kong dollars in Q4 2016, while five institutions from Hong Kong, China issued a combined CNY7.5 billion of yuan-denominated bonds with tenors of between 3 months and 5 years.

Issuers from the Republic of Korea sold Hong Kong dollar debt securities worth HKD1.6 billion and yuandenominated bonds amounting to CNY1 billion. Stateowned Korea Development Bank was the largest crossborder issuer, with issuance in both Hong Kong dollars and Chinese yuan.

The Lao People's Democratic Republic (Lao PDR) issued a multi-tranche sovereign bond amounting to THB11 billion. The longest tenor was 12 years with a coupon rate of 5.15%. It was the fifth issuance in Thai baht by the Government of the Lao PDR since it first began such issuances in May 2013.

Malaysia's KNM Group, a metal processing and fabrication company, raised THB2.78 billion worth of 5-year bonds at a 3.0% coupon, while Maybank issued HKD378 million worth of 5-year bonds with a 2.05% coupon. In Singapore, new cross-border bonds were mainly issued by two financial institutions in Q4 2016. Standard Chartered Bank sold a multi-tranche bond comprising yuan-denominated (CNY554 million) and rupiahdenominated (IDR386 billion) tranches. Nomura International Funding held a dual-tranche sale of KRW120 billion worth of bonds with a 15-year maturity.

Total G3 currency bond issuance in emerging East Asia climbed to USD216 billion in 2016.

G3 currency bond issuance in emerging East Asia in Q4 2016 amounted to USD62.6 billion, up 14.7% q-o-q and 25.0% y-o-y.⁹ Bond sales denominated in G3 currencies in 2016 reached USD216 billion, topping the USD183 billion recorded in 2015 **(Table 4)**.

US dollar-denominated bonds continued to account for the largest share in emerging East Asia's G3 currency bond market, comprising 90.1% of the total issuance in 2016. Bond sales increased 17.3% y-o-y to USD194.3 billion from USD165.6 billion in 2015. The issuance of eurodenominated bonds, which comprised 8.6% of total G3 issuance, rose 30% y-o-y to USD18.4 billion. Japanese yen bond issuance, which made up 1.3% of the total, increased 1.9% y-o-y to USD2.9 billion.

The larger G3 currency bond sales in 2016, particularly in Q4 2016, were mainly due to issuers taking advantage of low funding costs ahead of the Federal Reserve talking a more aggressive monetary policy stance in 2017. The PRC had the highest G3 currency bond sales in 2016 and in Viet Nam there was no G3 issuance during the year. All other markets in the region registered increased G3 currency bond issuance in 2016 compared to a year earlier, except for Malaysia and the Philippines.

Despite the slowdown in the PRC's economy in 2016, it continued to fuel the growth of the region's G3 currency bond market. The PRC issued a total of USD120 billion in 2016, an increase of 15.9% over the amount issued in 2015. The PRC accounted for more than half of the total G3 currency bond issuance in the region in 2016 and about 92% of this issuance was denominated in US dollars. Firms in the PRC took advantage of low funding costs for US dollar debt to pay off maturing

 $^{^{9}\,}$ G3 currency bonds are bonds denominated in either euros, Japanese yen, or US dollars.

Table 4: G3 Currency Bond Issuance

2015			2016				
lssuer	Amount (USD million)	Issue Date	lssuer	Amount (USD million)	Issue Date		
China, People's Rep. of	103,527		China, People's Rep. of	120,019			
China Construction Bank 4.65% Perpetual	3,050	16-Dec-15	China Cinda Asset Management 4.45% Perpetual	3,200	30-Sep-16		
Sinopec 2.5% 2020	2,500	28-Apr-15	Proven Honour Capital 4.125% 2026	2,000	6-May-16		
Bank of Communications 5% Perpetual	2,450	29-Jul-15	China Minsheng Banking 4.95% Perpetual	1,439	14-Dec-16		
China Construction Bank 3.875% 2025	2,000	13-May-15	Huarong Finance 3.625% 2021	1,350	22-Nov-16		
CNOOC Finance 3.5% 2025	2,000	5-May-15	Sinopec 2% 2021	1,300	29-Sep-16		
ICBC 4.875% 2025	2,000	21-Sep-15	Export-Import Bank of China 2% 2021	1,250	26-Apr-16		
China Cinda Finance (2015) 4.25% 2025	1,700	23-Apr-15	Export-Import Bank of China 0.25% 2019	1,209	2-Dec-16		
Evergrande Real Estate Group 9% Perpetual	1,500	29-Dec-15	Sinopec 1.75% 2019	1,100	29-Sep-16		
Others	86,327		Others	107,171			
Hong Kong, China	18,702		Hong Kong, China	29,204			
Shimao Property 8.375% 2022	1,100	10-Feb-15	China Overseas Finance 0% 2023	1,500	5-Jan-16		
Hong Kong, China (Sovereign) Sukuk 1.894% 2020	1,000	3-Jun-15	CK Hutchison 1.25% 2023	1,420	8-Apr-16		
Others	16,602		Others	26,284			
Indonesia	15,572		Indonesia	17,888			
Indonesia (Sovereign) 4.75% 2026	2,250	8-Dec-15	Perusahaan Penerbit SBSN Sukuk 4.55% 2026	1,750	29-Mar-16		
Indonesia (Sovereign) 4.125% 2025	2,000		Indonesia (Sovereign) 2.625% 2023	1,578	14-Jun-16		
Indonesia (Sovereign) 5.125% 2045	2,000		Indonesia (Sovereign) 3.75% 2028	1,578	14-Jun-16		
Perusahaan Penerbit SBSN Sukuk 4.325% 2025	2,000		Indonesia (Sovereign) 5.25% 2047	1,500	8-Dec-16		
Indonesia (Sovereign) 3.375% 2025	1,397	,	Indonesia (Sovereign) 4.35 2027	1,250	8-Dec-16		
Others	5,925	50 501 15	Others	10,233	0 200 10		
Korea, Rep. of	23,348		Korea, Rep. of	28,593			
Korea Eximbank 2.875% 2025	1,250	21-Jan-15	Korea Development Bank 3% 2026	1,000	13-Jan-16		
Korea Eximbank 2.25% 2020	1,000	21-Jan-15	•	1,000	26-May-16		
Korea Eximbank 3.25% 2020	1,000	10-Nov-15		1,000	26-May-16		
Others	20,098	10-1404-15	Others	25,593	20-111ay-10		
Lao People's Dem. Rep.	182		Lao People's Dem. Rep.	312			
	8,496		Malaysia	6,026			
Malaysia	1,500	18-Mar-15	Malaysia Malaysia (Sovereign) Sukuk 3.179% 2026	1,000	27-Apr-16		
Petronas Capital 3.5% 2025			Danga Capital 3.035% 2021	750	1-Mar-16		
Petronas Capital 4.5% 2045 Petronas Global Sukuk 2.707% 2020	1,500			750	19-Oct-16		
	1,250	10- <i>I</i> VId[-15	TNB Global Ventures Capital 3.244% 2026	3,526	19-001-10		
Others Division	4,246		Others Delivering				
Philippines	4,256	20 Jan 15	Philippines	2,675	1-Mar-16		
Philippines (Sovereign) 3.95% 2040	2,000	20-Jan-15		2,000	1- <i>I</i> viar-16		
Royal Capital BV 5.5% Perpetual	450	26-Aug-15		675			
Others	1,806		Singapore	9,636	27 4 14		
Singapore	8,346		BOC Aviation 3.875% 2026	750	27-Apr-16		
Global Logistics Properties 3.875% 2025	1,000		DBS Group 3.6% Perpetual	750	7-Sep-16		
DBS Bank 1.625% 2018	1,000	6-Aug-15		8,136			
BOC Aviation 3% 2020	750	30-Mar-15		1,225			
Others	5,596		Kasikorn Bank PLC 2.375% 2022	400	6-Oct-16		
Thailand	176		Others	825			
Emerging East Asia Total	182,605		Emerging East Asia Total	215,579			
Memo Items:			Memo Items:				
India	10,919		India	8,354			
Bharti Airtel 4.375% 2025	1,000	10-Jun-15	Export-Import Bank of India 3.375% 2026	1,000	5-Aug-16		
Others	9,919		Others	7,354			
Sri Lanka	3,649		Sri Lanka	2,916			
LISD = United States dollar							

USD = United States dollar.

Notes:

1. Emerging East Asia comprises the People's Republic of China; Hong Kong, China; Indonesia; the Republic of Korea; the Lao People's Democratic Republic; Malaysia; the Philippines; Singapore; Thailand; and Viet Nam.

2. Data exclude certificates of deposit. 3. G3 currency bonds are bonds denominated in either euros, Japanese yen, or US dollars. Source: *AsianBondsOnline* calculations based on Bloomberg LP data.

debt or refinance existing debt. There was also an implicit tightening in the PRC's domestic credit, thus prompting companies to tap the US dollar bond market. China Development Bank was the PRC's largest issuer of G3 currency bonds in 2016, raising more than USD6.3 billion from the combined sale of euro- and US dollar-denominated bonds.

Hong Kong, China overtook the Republic of Korea as the second largest G3 currency bond issuer in emerging East Asia in 2016 with total issuance of USD29.2 billion, up 56.2% from the preceding year. Most G3 currency bond issuance in Hong Kong, China came from the financial sector. The full-year 2016 amount was shored up by issuances during Q4 2016, which saw the highest quarterly bond sales of the year at USD11.7 billion, a 66.3% q-o-q increase from Q3 2016. China Great Wall International Holdings was the largest bond issuer in Q4 2016 with a total of USD1.5 billion comprising a USD800 million 5-year bond with a 2.625% coupon and a USD700 million 3-year bond with a 2.25% coupon.

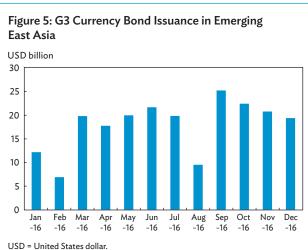
The Republic of Korea's G3 currency bond issuance increased 22.5% y-o-y to USD28.6 billion in 2016. In Q4 2016, the Republic of Korea's G3 bond issuance reached USD7.7 billion with the government-owned Korea Export-Import Bank selling a total of USD3.1 billion.

Markets in the Association of Southeast Asian Nations (ASEAN) saw total sales of G3 currency bonds increase slightly in 2016 to USD37.8 billion from USD37.0 billion in 2015. Indonesia continued to lead all ASEAN economies, accounting for almost half of its aggregate G3 bond issuance. Indonesia's new G3 issuances in 2016 increased 14.9% y-o-y to USD17.9 billion while a total of USD5.6 billion was issued in Q4 2016. Among this quarterly total, Indonesia issued a triple-tranche sovereign bond—consisting of USD1.5 billion of 30-year bonds, USD1.25 billon of 10-year bonds, and USD750 million of 5-year bonds—to prefund its 2017 state budget.

Singapore issued USD9.6 billion of G3 currency bonds in 2016 on growth of 15.5% y-o-y. In Q4 2016, the economy's G3 bond issuance dropped 66.3% q-o-q, which was reflective of a traditionally slow period. A large part of the Q4 2016 issuance came from SingTel Group Treasury, which sold USD500 million worth of bonds. In Thailand, USD1.2 billion worth of G3 currency bonds were sold in 2016 and USD550 million in Q4 2016. The Lao PDR had no G3 bond sales in Q4 2016; all of its issuance during the year took place in Q3 2016.

The Philippines' G3 currency bond sales declined 37.1% y-o-y to USD2.7 billion in 2016, with the remaining sales during the year coming in Q4 2016 following the USD2.0 billion sovereign bond issuance in the first quarter. Sales in Q4 2016 came from corporate entities issuing a total of USD675 million. In Malaysia, G3 currency bond issuance was down to USD6.0 billion on a 29.0% y-o-y drop. The decline was contributed to by the low issuance volume in Q3 2016, but the recent recovery in oil prices and the stabilization of the Malaysian ringgit is helping to dispel negative investor sentiment.

On a monthly basis, the lowest volumes of G3 currency bond issuance in emerging East Asian economies were registered in February and August at USD6.9 billion and USD9.5 billion, respectively **(Figure 5)**. The decline in August was followed by a sharp rise in issuance in September to USD25.2 billion. Succeeding months saw a gradual fall in G3 currency bond issuance, although the monthly amounts remained above the 2016 monthly average bond sales of USD17.9 billion. This trend may have been the result of issuers taking advantage of low borrowing costs ahead of the accelerated pace of rate hikes by the Federal Reserve in 2017.



Notes:

1. Emerging East Asia comprises the People's Republic of China; Hong Kong, China; Indonesia; the Republic of Korea; the Lao People's Democratic Republic;

Malaysia; the Philippines; Singapore; Thailand; and Viet Nam. 2. G3 currency bonds are bonds denominated in either euros, Japanese yen, or

US dollars.

3. Figures were computed based on 31 December 2016 currency exchange rates and do not include currency effects.

Source: AsianBondsOnline calculations based on Bloomberg LP data.

Government bond yield curves in most emerging East Asian markets fell for most tenors on improving investor sentiment.

Markets in emerging East Asia are experiencing renewed optimism as there are signs that global economic growth is gaining momentum, leading to increased risk appetite in a number of emerging East Asian economies.

In the US, due to the trend of economic growth in the latter half of 2016 and in the early months of 2017, the Federal Reserve has hinted that it would accelerate the pace of its rate hikes in 2017. Job gains averaged 190,000 in the second half of 2016 and rose to 235,000 in February. In addition, the unemployment rate stood at 4.7% in February, which was within range of estimates of the US economy's natural rate of unemployment. US GDP growth, however, was weaker, with annualized growth in Q4 2016 at 1.9% y-o-y, down from 3.5% y-o-y in Q3 2016.

Inflation in the US has shown signs of firming. In full-year 2016, consumer price inflation was 1.6%, but it rose to 2.5% y-o-y in January and 2.7 y-o-y in February.

In February, Federal Reserve Chair Janet Yellen indicated that if these trends continue, an adjustment in the policy rate would be most likely, suggesting that the Federal Reserve will be accelerating the pace of its rate hike this year. Other statements from members of the Federal Reserve suggest the same. Cleveland Federal Reserve President Loretta Mester announced the following week that she would be comfortable with a rate hike if unemployment and inflation continue along their current trends. Federal Reserve Governor Jerome Powell noted that the US economy is currently near the Federal Reserve's employment targets and is on track to meet the inflation target.

In other advanced economies, downside risks have also diminished though some remain. In the eurozone, GDP growth for Q4 2016 was stable at 0.4% q-o-q, the same rate as in the prior quarter. Inflation rose to 2.0% y-o-y in February on rising energy prices as the underlying trend remained unchanged. Mario Draghi, President of the European Central Bank, said that monetary stimulus would still be needed to support the central bank's targets.

In Japan, the central bank raised its economic growth forecasts. For fiscal year 2016, the growth forecast was raised to 1.4% from 1.0%, while for fiscal year 2017 it was raised to 1.5% from 1.3%. For fiscal year 2018, the growth forecast was raised to 1.1% from 0.9%. While there was no change in the forecast for consumer price inflation, the central bank noted that long-term inflation expectations had stopped declining.

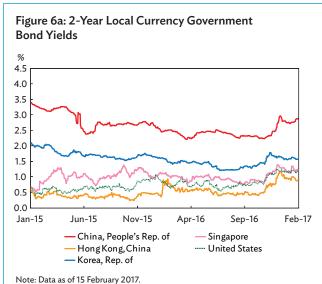
Japan's GDP data showed that growth was unchanged at 0.3% q-o-q in Q4 2016 from the previous quarter. Even more encouraging, exports from Japan increased 5.4% y-o-y in December and 1.3% y-o-y in January following 14 months of y-o-y declines, showing that global demand is improving.

In emerging East Asia, there are signs of improving growth in some markets. In Hong Kong, China, GDP growth rose to 3.1% y-o-y in Q4 2016 from 2.0% y-o-y in the prior quarter. Malaysia's GDP growth also accelerated to 4.5% y-o-y from 4.3% y-o-y over the same period. In Singapore, GDP grew 2.9% y-o-y in Q4 2016, up from 1.2% y-o-y growth in Q3 2016. Viet Nam reported GDP growth of 6.2% for 2016, up from 5.9% y-o-y growth in the first 3 quarters of 2016. As a result of the better growth outlook, risk appetite has been returning to the region.

The improved outlook has led to declines in 2-year yields in all markets except the PRC (Figures 6a, 6b). For 10-year yields, declines were noted in all markets except for the PRC, the Republic of Korea, the Philippines, and Thailand (Figures 7a, 7b).¹⁰

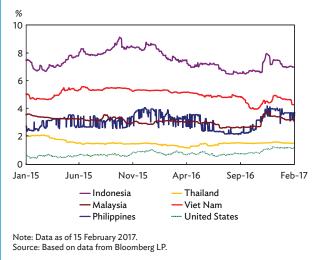
Improved investor sentiment was also evident in gains in foreign exchange and equity markets in most emerging East Asian economies. This has also led to downward shifts in most yield curves in the region **(Figure 8)**. The yield curve shifted downward for all tenors in Hong Kong, China; Singapore; and Viet Nam; and for most tenors in Indonesia, the Republic of Korea, Malaysia, the Philippines, and Thailand. The PRC was the sole market where the entire yield curve shifted upward.

¹⁰ Bond yields in many emerging East Asian markets have rebounded slightly since the end of the review period (mid-February), largely due to the United States Federal Reserve's policy rate hike on 15 March. Nevertheless, regional bond yields were still mostly down year-to-date as of 15 March.



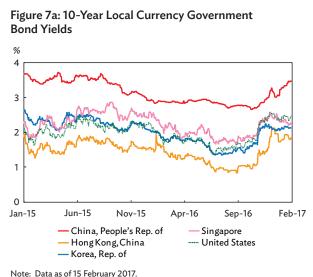






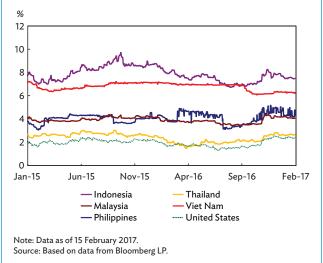
The PRC has been the exception to the fall in yields seen in most emerging East Asian markets as the People's Bank of China (PBOC) has been largely concerned with managing credit and asset price risk. In February, the PBOC raised rates on its repurchase agreements by 10 basis points (bps) and by 35 bps on its Standing Lending Facility.

The largest yield declines were seen in Indonesia, despite slower GDP growth in Q4 2016. This was largely due to improving market sentiments due to the current account deficit narrowing in Q4 2016, an upgrade in sovereign



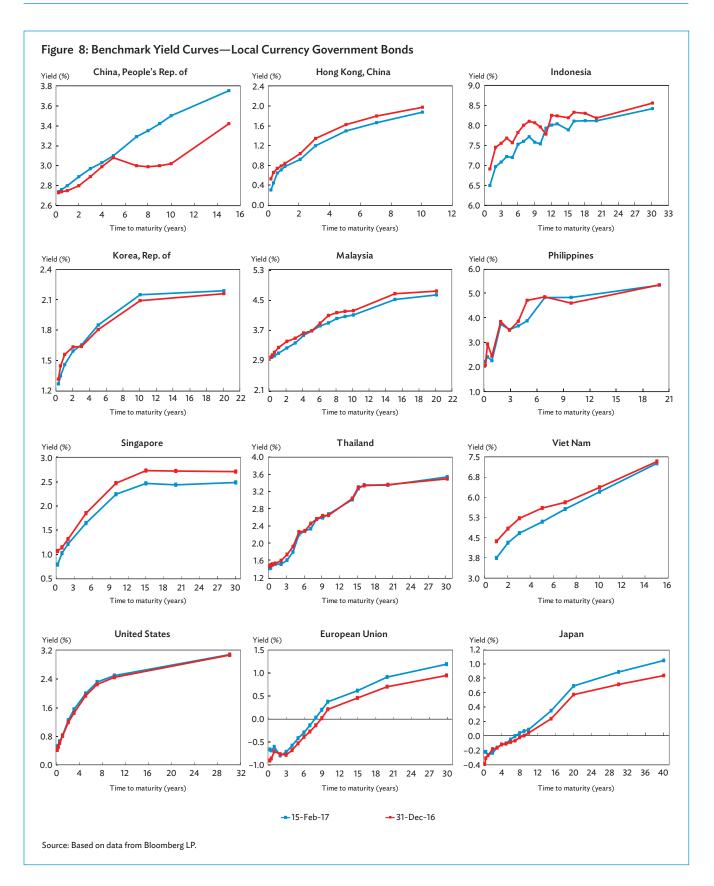
Source: Based on data from Bloomberg LP.

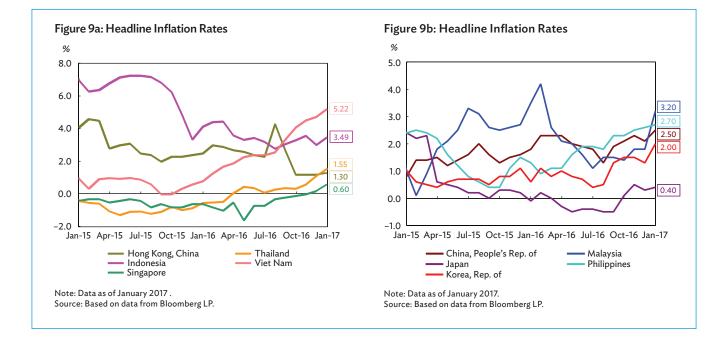




rating outlooks (Fitch Ratings in December and Moody's Investors Service in February 2017), higher international reserves, and various structural reforms initiated by the government.

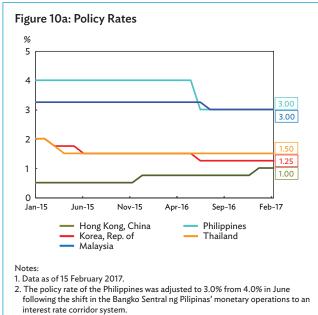
In addition, improving economic growth and rising energy prices have resulted in steadily rising inflation rates. Most emerging East Asian markets showed a rise in their inflation rate in January (Figures 9a). Rising prices have pushed Singapore out of deflation. Malaysia had the most rapid rise in y-o-y inflation in January versus December (Figure 9b).



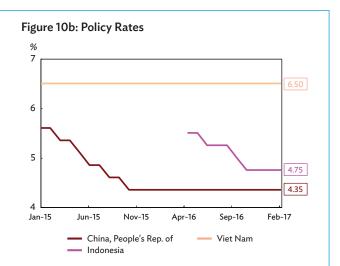


While there have been improvements in the global economy, central banks have largely maintained their existing monetary policy stances while awaiting greater clarity on the possible direction and impacts of US monetary policy. Central bank policy rates were unchanged in Q4 2016 in all emerging East Asian markets except Hong Kong, China, which raised its policy rate in December following the Federal Reserve rate hike (Figures 10a, 10b). The PRC's policy rates were unchanged as the PBOC has been using other tools, such as adjusting rates on reverse repurchase agreements, to guide monetary policy.

Given the improved economic prospects, the 2-year versus 10-year yield spread rose in nearly all regional markets except for Singapore between 31 December and 15 February **(Figure 11)**.



Source: Based on data from Bloomberg LP.

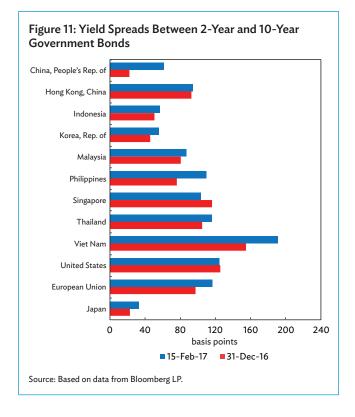


Notes:

1. Data as of 15 February 2017.

2. Bank Indonesia shifted its policy rate to the 7-day reverse repurchase rate effective 19 August 2016.

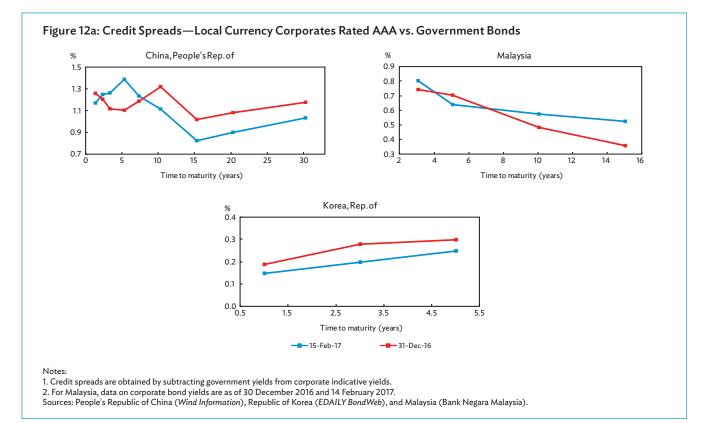
Source: Based on data from Bloomberg LP.

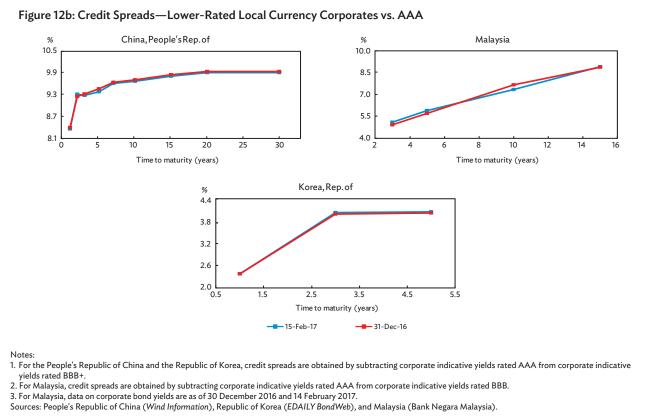


The AAA-rated corporate yield versus government yield spread fell in the PRC and the Republic of Korea, but rose in Malaysia.

Yield spreads of AAA-rated corporate yields versus government yields fell between 31 December and 15 February in the PRC on the back of improving confidence as the PBOC attempts to reduce leverage in the financial system. Improving investor sentiments in the Republic of Korea also led to a decline in spreads over the same period (Figure 12a). Malaysia was one of the few bond markets that experienced outflows in the early part of 2017, leading to a rise in AAA-rated credit spreads for most tenors.

In all three markets for which data are available, the yield spreads between AAA-rated corporates and lower-rated corporates were mostly unchanged between 31 December and 15 February (Figure 12b).





Policy and Regulatory Developments

People's Republic of China

People's Bank of China Lowers Reporting Threshold for Certain Financial Transactions

In December, the People's Bank of China lowered the threshold—from CNY200,000 to CNY50,000—at which banks must notify the central bank of any domestic deposit, withdrawal, or transfer. In addition, the central bank announced that banks must report to the central bank cross-border transfers of CNY200,000 and above.

The People's Republic of China Allows Foreign Investors to Invest in Currency Derivatives

In February, the People's Republic of China's State Administration of Foreign Exchange announced that it would allow foreign institutions investing in the People's Republic of China's interbank bond market to purchase currency forwards, currency swaps, cross-currency swaps, and currency options. Investors will be only allowed to purchase these derivatives to hedge their bond investments.

Hong Kong, China

Hong Kong Monetary Authority Raises Countercyclical Capital Requirement for Banks

In January, the Hong Kong Monetary Authority raised the countercyclical capital buffer requirement for banks from 1.25% to 1.875% as part of its implementation of Basel III. The Hong Kong Monetary Authority said that domestic risks remain due to current credit levels and property prices.

Indonesia

Ministry of Finance Announces Government Bond Issuance Plan for 2017

In November, the Ministry of Finance announced that it would continue its frontloading policy for the issuance of government bonds in 2017. The ministry plans to issue about 60% of its gross issuance target for 2017 in the first 7 months of the year. The adoption of the frontloading policy aims to provide funding for government expenditures in the early part of the year given the seasonality in the timing of government revenues. The government bond issuance plan for 2017 calls for 20% of the total to be raised from the international market and the remaining from the domestic market. In the first quarter of 2017, the government is looking to raise IDR155 trillion worth of conventional and Islamic government bonds.

Bank Indonesia Signs Memoranda of Understanding with Bank Negara Malaysia and Bank of Thailand to Promote Local Currency Settlement Framework

Bank Indonesia, Bank Negara Malaysia (BNM), and the Bank of Thailand (BOT) signed two memoranda of understanding in December to promote the settlement of cross-border trade and direct investment in their respective local currencies. The agreements' goal is to help reduce financial costs and improve trade and investment.

Republic of Korea

Financial Services Commission Announces Measures to Improve Derivatives Market

In November, the Financial Services Commission announced measures to further develop the Republic of Korea's derivatives markets, including the simplification of the listing procedures and diversification of derivatives that can be issued in the exchange-traded derivatives market and increased flexibility in the requirements for investors. For the over-the-counter (OTC) derivatives market, Korea Exchange will allow certain non KRWdenominated OTC derivatives to be centrally cleared in the exchange. The Financial Services Commission will also consider introducing electronic trading platforms for the OTC derivatives market and will continue to strengthen risk management of both equity-linked and derivativeslinked securities by conducting regular stress tests of securities firms.

The Republic of Korea Will Frontload Spending in the First Half of 2017

In December, the Republic of Korea's Ministry of Strategy and Finance announced that it will frontload the spending of 68.0% of the government's 2017 budget of KRW339.7 trillion in the first half of the year. KRW123.4 trillion (36.3%) will be spent in the first quarter and KRW107.5 trillion (31.7%) in the second quarter. According to the ministry, the frontloading will be used to spur economic growth, with allocations earmarked for increasing employment, completing Social Overhead Capital projects, and improving safety.

Malaysia

Bank Negara Malaysia Restricts Activities in the Nondeliverable Forward Market

In November, BNM moved to discourage trading of Malaysian ringgit in the nondeliverable forward (NDF) market. The central bank sees it as speculative activity that can potentially destabilize the Malaysian ringgit. According to BNM, while the foreign exchange administration is unchanged and no new measures were introduced, existing rules that prohibit facilitation of Malaysian ringgit NDFs will be reinforced. Transactions relating to offshore Malaysian ringgit NDF market activities will not be recognized as the Malaysian ringgit is not an internationalized currency.

Exporters Can Retain Up to 25% of Proceeds in Foreign Currency

On 2 December, BNM announced that exporters can retain up to 25% of export proceeds in a foreign currency and the rest must be converted to Malaysian ringgit. Exporters may hold higher balances in a foreign currency to meet payment requirements with approval from BNM. A special deposit facility is being offered by BNM for Malaysian ringgit proceeds that pays a higher deposit rate of 3.25% per annum. The facility will be available until 31 December 2017 and is subject to further review. Other BNM measures include a requirement that domestic trade in goods and services by resident exporters be paid in Malaysian ringgit and that exporters are allowed to hedge and unhedge up to 6 months of their foreign currency obligations.

Philippines

Government Set to Borrow PHP631.3 billion in 2017

The Government of the Philippines plans to borrow PHP631.3 billion in 2017 to support its expenditures and loan payments. Of the total amount, 80% will come from domestic borrowing and 20% will be tapped from foreign sources. The government will boost its spending, particularly in infrastructure, to sustain the economy's growth momentum. It plans to raise the budget deficit to about 3% of gross domestic product in 2017.

Bangko Sentral ng Pilipinas Discontinues Trust Entities' Access to Deposit Facility

Bangko Sentral ng Pilipinas (BSP) decided in November to discontinue the access of trust entities to its Overnight Deposit Facility and Term Deposit Facility beginning 1 July 2017 in an effort to rationalize the use of the deposit facility as a liquidity management tool.

Bangko Sentral ng Pilipinas Will Adopt Liquidity Coverage Ratio Framework

Universal and commercial banks will formally adopt a Liquidity Coverage Ratio beginning 1 January 2018 as part of the BSP's move to liberalize liquidity rules. According to the BSP, once the formal adoption is in place, the following guidelines could be lifted: (i) liquid assets should be equivalent to at least half of government deposits and other liabilities, (ii) foreign-currency-denominated liquid assets should be equivalent to at least 30% of foreign currency deposit unit liabilities, and (iii) foreigncurrency-denominated assets should be equivalent to 70% of foreign currency deposit unit liabilities in the same currency as the liability. The Liquidity Coverage Ratio framework will require universal and commercial banks to hold sufficient high-quality liquid assets that can easily be converted into cash to service liquidity requirements over a 30-day stress period.

Singapore

Monetary Authority of Singapore Launches Asian Bond Grant Scheme

On 17 November, the Monetary Authority of Singapore announced its Asian Bond Grant Scheme that will run

from 2017 until 2019. To qualify under the scheme, the following criteria, among others, must be met: (i) issuers should be a first-time Asian company or nonbank financial institution with global headquarters in a member of the Association of Southeast Asian Nations, Australia, the People's Republic of China, India, Japan, the Republic of Korea, or New Zealand; (ii) bond issuance must be at least SGD200 million (or its equivalent in the respective local currency or a G3 currency); and (iii) bonds must have a maturity of at least 3 years. Also, the bonds should be listed on the Singapore Exchange, while SGD-denominated bonds should be rated by either Fitch Ratings, Moody's Investors Service, or Standard and Poor's.

Those who meet these criteria may apply for the grant to help offset 50% of the one-time issuance costs, which include international legal fees, arrangers' fees, auditors' fees, credit rating fees, and listing fees. The objective of the scheme is to broaden the issuer base in the Singapore bond market.

Monetary Authority of Singapore and Bank of Japan Establish Bilateral Local Currency Swap Agreement

On 30 November, the Monetary Authority of Singapore and Bank of Japan signed an agreement allowing for the exchange of local currencies of up to SGD15 billion or JPY1.1 trillion. The swap agreement, which will be in effect for 3 years, aims to enhance financial stability and provide liquidity to cross-border transactions of financial institutions based in both markets.

Thailand

Thailand's Securities and Exchange Commission Strengthens Measures against Shadow Banking

Thailand's Securities and Exchange Commission introduced a measure, effective 16 January, limiting intermediary holdings to one third for every new issuance of unrated debt securities falling below investment grade. In addition, intermediaries are restricted from being the main creditor of the debt issuer. Intermediaries are given 120 days to comply and are instructed to examine the quality of the unrated debt securities, verify and conduct due diligence regarding the issuer's financial health, and make the information available to investors. According to the Securities and Exchange Commission, the regulation is meant to stop intermediaries, such as asset management firms, from getting involved in shadow banking activities, especially with regard to unrated noninvestment grade debt.

Bank of Thailand Releases Planned Issuance Program for Bonds in the First Half of 2017

For the first half of 2017, the BOT announced that auction days and issuance frequencies for all types of BOT bonds will remain unchanged from the previous year. A new issue of the 3-year floating-rate bond was opened in February, while the opening of new 1-year bills will be moved to the last month of each quarter to accommodate seasonal liquidity factors and the monthly reopenings will continue to enhance secondary market liquidity. Beginning in the second quarter of 2017, the BOT plans to introduce a postauction option for successful competitive bidders of bonds with maturities of at least 1 year in which additional purchases will be possible at a weighted-average accepted yield.

Viet Nam

Ministry of Finance to Submit 2017–2020 Roadmap for the Local Currency Bond Market

In January, Viet Nam's Ministry of Finance disclosed that it plans to submit its 4-year roadmap for the local currency bond market. The 2017–2020 roadmap is expected to improve fiscal and monetary policy coordination for better supervision of Viet Nam's financial markets. The roadmap includes, among other activities, the launch of bond derivatives in the first quarter of 2017, issuance of floating-rate government bonds in the second quarter, and creation of a corporate bond database to provide greater transparency.

Viet Nam to Issue VND183.3 Trillion of Government Bonds in 2017

In February, the State Treasury of Viet Nam announced its bond issuance plan for 2017 amounting to VND183.3 trillion. Of the total issuance, 15% will comprise bonds with maturities of 3 years or less, 60% will comprise bonds with maturities of between 5 years and 10 years, and the remaining 25% will comprise bonds with maturities of 15 years to 30 years.

Market Summaries

People's Republic of China

The amount of local currency (LCY) bonds outstanding in the People's Republic of China (PRC) grew 3.4% quarter-on-quarter (q-o-q) and 22.0% year-on-year (y-o-y) to reach CNY49.5 trillion (USD7.1 trillion) at the end of December. The expansion was driven mostly by Treasury bonds and other government bonds, which grew 5.9% q-o-q and 47.8% y-o-y. Growth in the latter category was fueled mainly by local government bonds, which grew 9.3% q-o-q and 220.2% y-o-y as local governments continued to refinance existing debt and issue new bonds. Central bank bonds outstanding were substantially lower at the end of December; the People's Bank of China has ceased issuing bonds as remaining bonds mature.

		C	outstanding A	.mount (billio	on)		Growth Rates (%)			
	Q4 2015		Q3 2	Q3 2016		Q4 2016		2015	Q4 2016	
	CNY	USD	CNY	USD	CNY	USD	q-o-q	у-о-у	q-o-q	у-о-у
Total	40,576	6,248	47,890	7,178	49,510	7,129	6.8	24.0	3.4	22.0
Government	26,408	4,067	33,154	4,969	34,545	4,974	7.6	27.6	4.2	30.8
Treasury Bonds	14,984	2,307	20,912	3,134	22,142	3,188	13.0	45.4	5.9	47.8
Central Bank Bonds	428	66	27	4	6	1	0.0	0.0	(78.2)	(98.6)
Policy Bank Bonds	10,996	1,693	12,215	1,831	12,397	1,785	1.3	10.4	1.5	12.7
Corporate	14,168	2,182	14,736	2,209	14,965	2,155	5.3	17.8	1.6	5.6
Policy Bank Bonds										
China Development Bank	6,601	1,017	7,051	1,057	7,081	1,020	(0.1)	5.4	0.4	7.3
Export-Import Bank of China	1,852	285	2,028	304	2,133	307	1.9	16.9	5.2	15.2
Agricultural Devt. Bank of China	2,543	392	3,136	470	3,184	458	4.7	20.6	1.5	25.2

Table 1: Size and Composition of the Local Currency Bond Market in the People's Republic of China

() = negative, CNY = Chinese yuan, LCY = local currency, q-o-q = quarter-on-quarter, Q3 = third quarter, Q4 = fourth quarter, USD = United States dollar, y-o-y = year-on-year. Notes:

1. Calculated using data from national sources.

2. Treasury bonds include savings bonds and local government bonds.

3. Bloomberg LP end-of-period LCY-USD rate is used.

4. Growth rates are calculated from an LCY base and do not include currency effects.

Sources: Bloomberg LP, ChinaBond, and Wind Information.

Corporate bond issuance totaled CNY1.5 trillion in the fourth quarter of 2016 on 0.6% q-o-q growth as some companies were hesitant to borrow amidst tighter liquidity.

Table 2: Notable Local Currency Corporate Bond Issuance in the Fourth Quarter of 2016

Corporate Issuers	Coupon Rate (%)	Issued Amount (CNY billion)	Corporate Issuers	Coupon Rate (%)	Issued Amount (CNY billion)
China Railway			1-year bond	2.99	10.0
10-year bond	3.01	15.0	3-year bond	2.80	5.0
10-year bond	3.35	15.0	3-year bond	2.80	5.0
10-year bond	3.00	15.0	3-year bond	2.99	5.0
10-year bond	3.69	15.0	5-year bond	2.99	5.0
10-year bond	3.10	15.0	5-year bond	3.15	5.0
20-year bond	3.54	5.0	Bank of Communications		
20-year bond	3.31	5.0	3-year bond	2.94	10.0
20-year bond	3.88	5.0	5-year bond	3.25	20.0
30-year bond	3.40	5.0	Postal Savings Bank of China		
30-year bond	3.53	5.0	10-year bond	3.30	30.0
State Grid Corporation of China			China Huarong Asset Management		
178-day bond	2.59	5.0	3-year bond	3.35	12.5
180-day bond	3.49	5.0	5-year bond	3.54	12.5

CNY = Chinese yuan. Source: Bloomberg LP.

LCY corporate bonds outstanding among the top 30 corporate bond issuers in the PRC reached CNY6.0 trillion at the end of December, accounting for about 40% of the total LCY corporate bond market. The largest issuer remained China Railway with CNY1.4 trillion of bonds outstanding.

	Outstandi	ng Amount	State-	Listed	
lssuers	LCY Bonds (CNY billion)	LCY Bonds (USD billion)	State- Owned	Listed Company	Type of Industry
. China Railway	1,363.5	196.33	Yes	No	Transportation
2. State Grid Corp of China	497.1	71.58	Yes	No	Public Utilities
. China National Petroleum	365.0	52.56	Yes	No	Energy
. Agricultural Bank of China	278.0	40.03	Yes	Yes	Banking
. Industrial & Commercial Bank of China	268.0	38.59	Yes	Yes	Banking
. Bank of China	258.9	37.27	Yes	Yes	Banking
Industrial Bank	231.0	33.26	No	Yes	Banking
Bank of Communications	224.0	32.25	No	Yes	Banking
China Construction Bank	212.0	30.53	Yes	Yes	Banking
0. Shanghai Pudong Development Bank	184.6	26.58	No	Yes	Banking
I. PetroChina	181.0	26.06	Yes	Yes	Energy
. China Minsheng Banking	175.1	25.21	No	Yes	Banking
5. State Power Investment	162.2	23.36	Yes	No	Energy
. Bank of Beijing	122.9	17.70	Yes	Yes	Banking
. Central Huijin Investment	109.0	15.69	Yes	No	Asset Management
. China CITIC Bank	107.5	15.48	No	Yes	Banking
Shenhua Group	104.5	15.05	Yes	No	Energy
. China Huarong Asset Management	102.0	14.69	Yes	Yes	Asset Management
China Three Gorges	97.5	14.04	Yes	No	Public Utilities
). Shaanxi Coal and Chemical Industry Group	97.0	13.97	Yes	Yes	Energy
China United Network Communications	97.0	13.97	Yes	Yes	Telecommunications
 Tianjin Infrastructure Construction & Investment Group 	94.9	13.66	Yes	No	Industrial
. China Petroleum & Chemical	94.5	13.61	Yes	Yes	Energy
. China Datang	91.7	13.20	Yes	Yes	Energy
. China Everbright Bank	89.0	12.81	Yes	Yes	Banking
. China Guangfa Bank	86.5	12.46	No	Yes	Banking
. Guotai Junan Securities	85.0	12.24	Yes	Yes	Brokerage
. Haitong Securities	84.0	12.10	Yes	Yes	Brokerage
 Beijing State-owned Capital Operation and Management Center 	80.5	11.59	Yes	No	Asset Management
). Huaxia Bank	80.4	11.58	Yes	No	Banking
tal Top 30 LCY Corporate Issuers	6,024.30	867.43			
otal LCY Corporate Bonds	14,964.97	2,154.78			
op 30 as % of Total LCY Corporate Bonds	40.3%	40.3%			

Table 3: Top 30 Issuers of Local Currency Corporate Bonds in the People's Republic of China

CNY = Chinese yuan, LCY = local currency, USD = United States dollar.

Notes:

1. Data as of end-December 2016.

2. State-owned firms are defined as those in which the government has more than a 50% ownership stake.

Source: AsianBondsOnline calculations based on Bloomberg LP data.

Hong Kong, China

The amount of local currency (LCY) bonds outstanding in Hong Kong, China increased to HKD1.8 trillion (USD236 billion) at the end of December. Total bonds outstanding grew only 0.1% quarter-on-quarter (q-o-q), due to declines in Exchange Fund Notes and Hong Kong Special Administrative Region bonds, and 13.4% year-on-year (y-o-y). Among government bonds, only Exchange Fund Bills showed an increase, rising 0.4% q-o-q and 18.8% y-o-y.

Outstanding Amount (billion) Growth Rate (%) Q4 2015 Q4 2016 Q4 2015 Q3 2016 Q4 2016 HKD USD HKD USD HKD USD q-o-q у-о-у q-o-q у-о-у Total 1,616 208 1,830 236 1,832 236 4.2 7.3 0.1 13.4 9.2 927 120 1,067 138 1,064 137 5.8 (0.3) 14.8 Government Exchange Fund Bills 99 911 117 915 118 0.4 770 8.2 12.6 18.8 8 7 **Exchange Fund Notes** 59 51 48 6 (4.9) (14.7) (5.9) (17.7) **HKSAR Bonds** 99 13 105 14 101 13 (4.2) 2.5 (3.8)2.4 Corporate 689 89 764 98 767 99 2.0 4.8 0.5 11.5

Table 1: Size and Composition of the Local Currency Bond Market in Hong Kong, China

() = negative, HKD = Hong Kong dollar, HKSAR = Hong Kong Special Administrative Region, LCY = local currency, q-o-q = quarter-on-quarter, Q3 = third quarter, Q4 = fourth quarter, USD = United States dollar, y-o-y = year-on-year.

Notes:

1. Calculated using data from national sources.

2. Bloomberg LP end-of-period LCY-USD rates are used.

3. Growth rates are calculated from an LCY base and do not include currency effects.

Sources: Hong Kong Monetary Authority and Bloomberg LP.

Corporate bond issuance totaled HKD85.5 billion in the fourth quarter of 2016, up from HKD67.1 billion in the prior quarter, as companies locked in borrowing rates ahead of expected Federal Reserve rate hikes.

in the routin Quarter of 2010		
Corporate Issuers	Coupon Rate (%)	Issued Amount (HKD billion)
Hong Kong Mortgage Corporation		
2-year bond	1.00	0.10
3-year bond	1.60	0.35
Swire Pacific MTN Financing		
5-year bond	1.98	0.45
Hong Kong Interbank Clearing		
3-year bond	1.45	0.20
5-year bond	1.85	0.20

Table 2: Notable Local Currency Corporate Bond Issuance in the Fourth Quarter of 2016

HKD = Hong Kong dollar, MTN = medium-term note.

Source: Central Moneymarkets Unit, Hong Kong Monetary Authority.

LCY corporate bonds outstanding among the top 30 nonbank corporate bond issuers in Hong Kong, China reached HKD136.3 billion at the end of December, accounting for about 17.8% of the total LCY corporate bond market. The largest issuer remained Hong Kong Mortgage Corporation, with HKD24.0 billion of bonds outstanding.

	Outstandi	ng Amount	C L L	11.4	
lssuers	LCY Bonds (HKD billion)	LCY Bonds (USD billion)	State- Owned	Listed Company	Type of Industry
1. The Hong Kong Mortgage Corporation	24.04	3.10	Yes	No	Finance
2. Sun Hung Kai Properties (Capital Market)	9.35	1.21	No	No	Real Estate
3. Swire Pacific MTN Financing	8.62	1.11	No	Yes	Diversified
4. The Link Finance (Cayman) 2009	8.09	1.04	No	No	Finance
5. CLP Power Hong Kong Financing	7.81	1.01	No	No	Finance
6. HKCG (Finance)	7.80	1.01	No	No	Finance
7. Hongkong Electric Finance	7.69	0.99	No	No	Finance
8. MTR Corporation (C.I.)	7.02	0.91	Yes	Yes	Transportation
9. Wharf Finance	5.70	0.73	No	No	Finance
10. NWD (MTN)	5.50	0.71	No	Yes	Finance
11. Swire Properties MTN Financing	4.34	0.56	No	No	Finance
12. Vanke Real Estate (Hong Kong)	3.65	0.47	No	No	Real Estate
13. Wheelock Finance	3.60	0.46	No	No	Finance
14. Kowloon-Canton Railway	3.40	0.44	Yes	No	Transportation
15. Urban Renewal Authority	3.30	0.43	Yes	No	Real Estate
16. Emperor International Holdings	2.75	0.35	No	Yes	Real Estate
17. Cathay Pacific MTN Financing	2.70	0.35	No	Yes	Finance
18. Leading Affluence	2.30	0.30	No	No	Real Estate
19. Tencent Holdings	2.20	0.28	No	Yes	Comunications
20. Bohai International Capital	2.00	0.26	No	No	Iron and Steel
21. China Energy Reserve and Chemicals Grou	up Overseas 2.00	0.26	No	No	Oil
22. Hong Kong Science and Technology Parks	1.71	0.22	Yes	No	Real Estate
23. Value Success International	1.55	0.20	No	No	Finance
24. Chueng Kong Finance (MTN)	1.50	0.19	No	No	Finance
25. Airport Authority Hong Kong	1.45	0.19	Yes	No	Transportation
26. Hysan (MTN)	1.40	0.18	No	Yes	Real Estate
27. Wharf Finance (No. 1)	1.33	0.17	No	No	Finance
28. Nan Fung Treasury	1.31	0.17	No	No	Finance
29. Henderson Land MTN	1.19	0.15	No	Yes	Finance
30. Cheung Kong Bond Securities (02)	1.00	0.13	No	No	Finance
Total Top 30 Nonbank LCY Corporate Issuers	136.26	17.57			
Total LCY Corporate Bonds	767.48	98.95			
Top 30 as % of Total LCY Corporate Bonds	17.8%	17.8%			

Table 3: Top 30 Nonbank Issuers of Local Currency Corporate Bonds in Hong Kong, China

HKD = Hong Kong dollar, LCY = local currency, USD = United States dollar.

1. Data as of end-December 2016.

2. State-owned firms are defined as those in which the government has more than a 50% ownership stake.

Source: AsianBondsOnline calculations based on Hong Kong Monetary Authority data.

Notes:

Indonesia

Indonesia's local currency (LCY) bond market reached a size of IDR2,190 trillion (USD163 billion) at the end of the fourth quarter (Q4) of 2016, up 1.7% quarter-on-quarter and 25.1% year-on-year. Growth stemmed from increases in the stock of central government bonds and corporate bonds.

		(Outstanding Am	ount (billio		Growth Rate (%)				
	Q4 20	Q4 2015		016	Q4 20)16	5 Q4 2015		Q4 2	2016
	IDR	USD	IDR	USD	IDR	USD	q-o-q	у-о-у	q-o-q	у-о-у
Total	1,750,306	127	2,153,035	165	2,190,326	163	3.4	14.4	1.7	25.1
Government	1,500,426	109	1,866,325	143	1,878,648	139	4.0	14.8	0.7	25.2
Central Govt. Bonds	1,461,846	106	1,749,384	134	1,773,279	132	5.0	20.8	1.4	21.3
of which: Sukuk	159,236	12	239,868	18	245,708	18	5.9	43.8	2.4	54.3
Central Bank Bills	38,580	3	116,941	9	105,369	8	(23.4)	(60.2)	(9.9)	173.1
of which: Sukuk	6,280	0.5	9,442	0.7	10,788	0.8	(18.7)	(22.8)	14.3	71.8
Corporate	249,880	18	286,710	22	311,679	23	0.1	12.1	8.7	24.7
of which: Sukuk	9,802	0.7	10,744	0.8	11,578	0.9	18.3	38.0	7.8	18.1

Table 1: Size and Composition of the Local Currency Bond Market in Indonesia

() = negative, IDR = Indonesian rupiah, LCY = local currency, q-o-q = quarter-on-quarter, Q3 = third quarter, Q4 = fourth quarter, USD = United States dollar, y-o-y = year-on-year. Notes:

1. Calculated using data from national sources.

2. Bloomberg LP end-of-period LCY-USD rates are used.

3. Growth rates are calculated from an LCY base and do not include currency effects.

4. The total stock of nontradable bonds as of end-December stood at IDR238.2 trillion.

Sources: Bank Indonesia; Directorate General of Budget Financing and Risk Management, Ministry of Finance; Indonesia Stock Exchange; Otoritas Jasa Keuangan; and Bloomberg LP.

In Q4 2016, new corporate debt issues totaled IDR38.9 trillion, up on both a quarter-on-quarter and year-on-year basis. A total of 27 corporate entities locked in lower borrowing costs by raising funds from the debt market in Q4 2016. As in past quarters, banking and financial institutions dominated the list of new corporate debt issuers in Q4 2016.

Table 2: Notable Local Currency Corporate Bond Issuance in the Fourth Quarter of 2016

Corporate Issuers	Coupon Rate (%)	Issued Amount (IDR billion)	Corporate Issuers	Coupon Rate (%)	Issued Amoun (IDR billion)
Bank Mandiri			Angkasa Pura I		
5-year bond	7.95	1,100	5-year bond	8.10	622
7-year bond	8.50	1,500	5-year sukuk ijarah	8.10	268
10-year bond	8.65	2,400	7-year bond	8.40	389
Sarana Multi Infrastruktur			7-year sukuk ijarah	8.40	55
3-year bond	7.85	2,298	10-year bond	8.55	1,489
5-year bond	8.20	1,328	10-year sukuk ijarah	8.55	177
10-year bond	8.65	700	Indonesia Eximbank		
15-year bond	8.90	674	370-day bond	7.15	672
Bank Rakyat Indonesia			3-year bond	7.85	540
370-day bond	7.25	616	5-year bond	8.20	282
3-year bond	8.00	964	7-year bond	8.50	1,038
5-year bond	8.20	193			
7-year bond	8.65	477			
10-year bond	8.90	2,350			

IDR = Indonesian rupiah.

Note: Sukuk Ijarah refers to Islamic bonds backed by lease agreements.

Source: Indonesia Stock Exchange.

At the end of December, the top 30 LCY corporate bond issuers in Indonesia had an aggregate bond stock of IDR228.0 trillion, accounting for 73.2% of the total LCY corporate bond market. Leading the list was Indonesia Eximbank with outstanding bonds of IDR31.4 trillion at the end of December. Climbing to the second spot was Bank Rakyat Indonesia. Both Indonesia Eximbank and Bank Rakyat Indonesia raised additional funds from the LCY debt market in Q4 2016. Telecommunications firm Indosat had the third largest stock of outstanding bonds at the end of December.

	Outstandi	ng Amount	6	11.1.1	
lssuers	LCY Bonds (IDR billion)	LCY Bonds (USD billion)	State- Owned	Listed Company	Type of Industry
. Indonesia Eximbank	31,402	2.33	Yes	No	Banking
2. Bank Rakyat Indonesia	15,945	1.18	Yes	Yes	Banking
3. Indosat	13,721	1.02	No	Yes	Telecommunications
4. Bank Tabungan Negara	12,950	0.96	Yes	Yes	Banking
. PLN	11,733	0.87	Yes	No	Energy
. Bank Pan Indonesia	9,685	0.72	No	Yes	Banking
. Astra Sedaya Finance	9,475	0.70	No	No	Finance
. Telekomunikasi Indonesia	8,995	0.67	Yes	Yes	Telecommunications
Federal International Finance	8,893	0.66	No	No	Finance
D. Adira Dinamika Multifinance	8,638	0.64	No	Yes	Finance
I. Bank Internasional Indonesia	7,320	0.54	No	Yes	Banking
2. Perum Pegadaian	6,792	0.50	Yes	No	Finance
3. Sarana Multigriya Finansial	6,530	0.48	Yes	No	Finance
4. Medco-Energi International	6,274	0.47	No	Yes	Petroleum and Natural Gas
5. Bank CIMB Niaga	6,230	0.46	No	Yes	Banking
5. Sarana Multi Infrastruktur	6,000	0.45	Yes	No	Finance
7. Bank Permata	5,810	0.43	No	Yes	Banking
3. Waskita Karya	5,575	0.41	Yes	Yes	Building Construction
9. Bank Mandiri	5,000	0.37	Yes	Yes	Banking
0. Bank OCBC NISP	4,785	0.36	No	Yes	Banking
1. Jasa Marga	4,500	0.33	Yes	Yes	Toll Roads, Airports, and Harbors
2. Toyota Astra Financial Services	4,421	0.33	No	No	Finance
3. Indofood Sukses Makmur	4,000	0.30	No	Yes	Food and Beverages
4. Agung Podomoro Land	3,700	0.27	No	Yes	Property and Real Estate
5. Permodalan Nasional Madani	3,433	0.25	Yes	No	Finance
6. Mandiri Tunas Finance	3,325	0.25	No	No	Finance
7. Bumi Serpong Damai	3,315	0.25	No	Yes	Property and Real Estate
8. Maybank Indonesia Finance	3,225	0.24	No	No	Finance
9. Bank UOB Indonesia	3,200	0.24	No	No	Banking
0. Surya Artha Nusantara Finance	3,150	0.23	No	No	Finance
otal Top 30 LCY Corporate Issuers	228,022	16.92			
otal LCY Corporate Bonds	311,679	23.13			
op 30 as % of Total LCY Corporate Bonds	73.2%	73.2%			

Table 3: Top 30 Issuers of Local Currency Corporate Bonds in Indonesia

IDR = Indonesian rupiah, LCY = local currency, USD = United States dollar.

Notes:

1. Data as of end-December 2016.

2. State-owned firms are defined as those in which the government has more than a 50% ownership stake.

Source: AsianBondsOnline calculations based on Indonesia Stock Exchange data.

Republic of Korea

The Republic of Korea's local currency (LCY) bond market declined 0.5% quarter-on-quarter (q-o-q) to KRW2,066 trillion (USD1,714 billion) at the end of the fourth quarter (Q4) of 2016. The decline was most notable in the government bond sector, which fell 1.0% q-o-q to KRW848 trillion, largely driven by a decrease in central bank bonds outstanding. Corporate bonds also declined 0.2% q-o-q to KRW1,219 trillion. On a year-on-year basis, the Republic of Korea's LCY bond market grew 2.3% in Q4 2016.

			Outstanding Ar	nount (billi	on)		Growth Rate (%)			
	Q4 2015		Q3 2	Q3 2016 Q		Q4 2016		Q4 2015		2016
	KRW	USD	KRW	USD	KRW	USD	q-o-q	у-о-у	q-o-q	у-о-у
Total	2,020,522	1,720	2,076,602	1,886	2,066,453	1,714	1.1	8.8	(0.5)	2.3
Government	821,993	700	855,763	777	847,537	703	1.0	7.4	(1.0)	3.1
Central Government Bonds	485,104	413	517,267	470	516,908	429	(9.6)	10.7	(0.1)	6.6
Central Bank Bonds	180,930	154	179,680	163	168,390	140	(2.9)	1.6	(6.3)	(6.9)
Others	155,959	133	158,816	144	162,239	135	72.6	4.8	2.2	4.0
Corporate	1,198,529	1,020	1,220,839	1,109	1,218,916	1,011	1.1	9.7	(0.2)	1.7

Table 1: Size and Composition of the Local Currency Bond Market in the Republic of Korea

() = negative, KRW = Korean won, LCY = local currency, q-o-q = quarter-on-quarter, Q3 = third quarter, Q4 = fourth quarter, USD = United States dollar, y-o-y = year-on-year. Notes:

1. Calculated using data from national sources.

2. Bloomberg LP end-of-period LCY-USD rates are used.

3. Growth rates are calculated from an LCY base and do not include currency effects.

4. "Others" comprise Korea Development Bank bonds, National Housing bonds, and Seoul Metro bonds.

5. Corporate bonds include equity-linked securities and derivatives-linked securities.

Sources: The Bank of Korea and ÉDAILY BondWeb.

Corporate bond issuance in the Republic of Korea rose to KRW99,354 billion in Q4 2016 from KRW81,513 billion in the third quarter of 2016.

Table 2: Notable LCY Corporate Bond Issuance in the Fourth Quarter of 2016

Corporate Issuers	Coupon Rate (%)	Issued Amount (KRW billion)	Corporate Issuers	Coupon Rate (%)	lssued Amount (KRW billion)
ndustrial Bank of Korea			Woori Bank		
1.5-year bond	1.47	270	2-year bond	1.62	500
1.5-year bond	1.50	370	2-year bond	1.81	90
20-year bond	2.05	50	2-year bond	1.84	100
20-year bond	2.07	30	2-year bond	1.93	200
20-year bond	2.20	70	3-year bond	1.65	150
20-year bond	2.40	80	Daewoo Shipbuilding and Marine	e Engineering	
20-year bond	2.50	50	30-year bond	3.00	1,000
20-year bond	2.81	300	National Federation of Fisheries	Cooperatives	
perpetual bond	2.88	50	1.5-year bond	1.79	60
perpetual bond	3.27	250	5-year bond	1.87	550
			7-year bond	1.94	100
			10-year bond	2.06	150

KRW = Korean won.

Source: Based on data from Bloomberg LP.

LCY bonds outstanding among the top 30 corporate bond issuers in the Republic of Korea reached KRW787,910 billion at the end of December, representing 64.6% of total corporate bonds outstanding.

	Outstandi	ng Amount	State	List	ed on	
Issuers	LCY Bonds (KRW billion)	LCY Bonds (USD billion)	State- Owned	KOSPI	KOSDAQ	Type of Industry
1. Korea Housing Finance Corporation	105,761	87.7	Yes	No	No	Housing Finance
2. NH Investment & Securities	62,888	52.2	Yes	Yes	No	Securities
3. Mirae Asset Daewoo Co.	55,951	46.4	No	Yes	No	Securities
4. Korea Investment and Securities	51,579	42.8	No	No	No	Securities
5. Korea Land & Housing Corporation	47,324	39.2	Yes	No	No	Real Estate
6. Industrial Bank of Korea	39,871	33.1	Yes	Yes	No	Banking
7. Mirae Asset Securities	39,369	32.6	No	Yes	No	Securities
8. Hana Financial Investment	36,898	30.6	No	No	No	Securities
9. Korea Deposit Insurance Corporation	29,290	24.3	Yes	No	No	Insurance
10. KB Securities	25,551	21.2	No	No	No	Securities
11. Korea Electric Power Corporation	22,470	18.6	Yes	Yes	No	Electricity, Energy, and Power
12. Korea Highway	20,910	17.3	Yes	No	No	Infrastructure
13. Samsung Securities	19,517	16.2	No	Yes	No	Securities
14. Shinhan Bank	18,952	15.7	No	No	No	Banking
15. Korea Rail Network Authority	18,600	15.4	Yes	No	No	Transport Infrastructure
16. Woori Bank	17,625	14.6	Yes	Yes	No	Banking
17. Kookmin Bank	17,346	14.4	No	No	No	Banking
18. Daishin Securities	16,716	13.9	No	Yes	No	Securities
19. NongHyup Bank	16,100	13.4	Yes	No	No	Banking
20. Korea Gas Corporation	14,469	12.0	Yes	Yes	No	Gas Utility
21. The Export-Import Bank of Korea	13,160	10.9	Yes	No	No	Banking
22. Small & Medium Business Corporation	12,500	10.4	Yes	No	No	SME Development
23. Korea Student Aid Foundation	11,660	9.7	Yes	No	No	Student Loan
24. Standard Charted Bank Korea	11,110	9.2	No	No	No	Banking
25. Shinhan Card	10,746	8.9	No	No	No	Credit Card
26. Korea Water Resources Corporation	10,545	8.7	Yes	No	No	Water
27. Hyundai Capital Services	10,494	8.7	No	No	No	Consumer Finance
28. NongHyup	10,440	8.7	Yes	No	No	Diversified
29. KEB Hana Bank	10,270	8.5	No	No	No	Banking
30. Korea Railroad Corporation	9,800	8.1	Yes	No	No	Transport Infrastructure
Total Top 30 LCY Corporate Issuers	787,910	653				
Total LCY Corporate Bonds	1,218,916	1,011				
Top 30 as % of Total LCY Corporate Bonds	64.6%	64.6%				

Table 3: Top 30 Issuers of Local Currency Corporate Bonds in the Republic of Korea

KOSDAQ = Korean Securities Dealer Automated Quotations, KOSPI = Korea Composite Stock Price Index, KRW = Korean won, LCY = local currency, SME = small and medium-sized enterprises, USD = United States dollar.

Notes:

1. Data as of end-December 2016.

2. State-owned firms are defined as those in which the government has more than a 50% ownership stake.

3. Corporate bonds include equity-linked securities and derivatives-linked securities.

4. Data do not reflect the acquisition of Mirae Asset Securities by Mirae Asset Daewoo in January 2017.

Source: AsianBondsOnline calculations based on Bloomberg LP and EDAILY BondWeb data.

Malaysia

Total local currency (LCY) bonds outstanding in Malaysia stood at MYR1,167 billion (USD260 billion) at the end of the fourth quarter (Q4) of 2016, a decrease of 0.1% quarter-on-quarter (q-o-q) but an increase of 4.3% year-on-year (y-o-y). The q-o-q contraction was due to corporate bonds falling 0.5% q-o-q, offsetting the 0.3% q-o-q increase in government bonds. Government and corporate bonds outstanding grew 3.6% y-o-y and 5.2% y-o-y, respectively. *Sukuk* (Islamic bonds) comprised 41.7% of total LCY government bonds outstanding and 73.9% of total LCY corporate bonds outstanding at the end of December.

		0	utstanding A	mount (billi	on)		Growth Rate (%)			
	Q4 2015		Q3 :	Q3 2016 Q4 2016		2016	Q4 2015		Q4	2016
	MYR	USD	MYR	USD	MYR	USD	q-o-q	у-о-у	q-o-q	у-о-у
Total	1,119	261	1,168	282	1,167	260	4.0	1.4	(0.1)	4.3
Government	612	142	632	153	634	141	1.6	(5.5)	0.3	3.6
Central Government Bonds	559	130	592	143	596	133	1.9	7.6	0.7	6.7
of which: sukuk	216	50	236	57	236	53	4.8	15.0	0.0	9.4
Central Bank Bills	25	6	11	3	9	2	(1.2)	(77.1)	(18.6)	(64.3)
of which: sukuk	1	0.1	0	0	0	0	(70.6)	(98.8)	-	(100.0)
Sukuk Perumahan Kerajaan	28	7	28	7	28	6	0.0	39.2	0.0	0.0
Corporate	507	118	537	130	534	119	7.1	11.1	(0.5)	5.2
of which: sukuk	361	84	393	95	395	88	6.0	11.7	0.3	9.3

Table 1: Size and Composition of the Local Currency Bond Market in Malaysia

() = negative, - = not applicable, LCY = local currency, MYR = Malaysian ringgit, q-o-q = quarter-on-quarter, Q3 = third quarter, Q4 = fourth quarter, USD = United States dollar, y-o-y = year-on-year.

Notes:

1. Calculated using data from national sources.

2. Bloomberg LP end-of-period LCY-USD rate is used.

3. Growth rates are calculated from an LCY base and do not include currency effects.

4. Sukuk Perumahan Kerajaan are Islamic bonds issued by the government to refinance funding for housing loans to government employees and to extend new housing loans. Sources: Bank Negara Malaysia Fully Automated System for Issuing/Tendering and Bloomberg LP.

Corporate bond issuance fell to MYR30.3 billion in Q4 2016 from MYR39.9 billion in Q3 2016.

Table 2: Notable Local Currency Corporate Bond Issuance in the Fourth Quarter of 2016

Corporate Issuers	Coupon Rate (%)	Issued Amount (MYR million)
Danainfra Nasional		
7-year Islamic MTN	3.92	400
10-year Islamic MTN	4.09	600
15-year Islamic MTN	4.48	700
20-year Islamic MTN	4.65	800
25-year Islamic MTN	4.78	1,000
30-year Islamic MTN	4.95	1,000
Maxis Broadband		
4-year Islamic MTN	4.70	500
6-year Islamic MTN	5.00	2,450

MTN = medium-term note, MYR = Malaysian ringgit.

Source: Bank Negara Malaysia Bond Info Hub.

The amount outstanding of the top 30 corporate bonds issuers summed to MYR292.9 billion at the end of December, comprising 54.9% of the total LCY corporate bonds outstanding. The finance industry was the sector with the largest share of LCY corporate bonds outstanding among the top 30 corporate issuers, accounting for a cumulative MYR128.2 billion at the end of December.

	Outstandi	ng Amount	C ()	11.1	
lssuers	LCY Bonds (MYR billion)	LCY Bonds (USD billion)	State- Owned	Listed Company	Type of Industry
. Project Lebuhraya Usahasama	30.6	6.8	No	No	Transport, Storage, and Communications
. Danainfra Nasional	29.7	6.6	Yes	No	Finance
. Cagamas	25.6	5.7	Yes	No	Finance
4. Prasarana	18.7	4.2	Yes	No	Transport, Storage, and Communications
. Khazanah	18.0	4.0	Yes	No	Finance
. Perbadanan Tabung Pendidikan Tinggi Nasional	14.5	3.2	Yes	No	Finance
7. Maybank	14.0	3.1	No	Yes	Banking
. Pengurusan Air	14.0	3.1	Yes	No	Energy, Gas, and Water
9. Sarawak Energy	9.5	2.1	Yes	No	Energy, Gas, and Water
0. CIMB Group Holdings	9.5	2.1	Yes	No	Finance
1. Jimah East Power	9.0	2.0	Yes	No	Energy, Gas, and Water
2. Public Bank	7.4	1.6	No	No	Banking
3. Sarawak Hidro	6.5	1.5	Yes	No	Energy, Gas, and Water
4. Aman Sukuk	6.1	1.4	Yes	No	Construction
5. Rantau Abang Capital	6.0	1.3	Yes	No	Finance
6. Bank Pembangunan Malaysia	5.9	1.3	Yes	No	Banking
7. CIMB Group Holdings	5.4	1.2	Yes	No	Finance
8. Turus Pesawat	5.3	1.2	Yes	No	Transport, Storage, and Communications
9. RHB Bank	5.2	1.1	No	No	Banking
0. Putrajaya Holdings	5.1	1.1	Yes	No	Property and Real Estate
1. 1Malaysia Development	5.0	1.1	Yes	No	Finance
2. Celcom Networks	5.0	1.1	No	No	Transport, Storage, and Communications
3. Danga Capital	5.0	1.1	Yes	No	Finance
4. ValueCap	5.0	1.1	Yes	No	Finance
5. YTL Power International	4.8	1.1	No	Yes	Energy, Gas, and Water
6. GOVCO Holdings	4.6	1.0	Yes	No	Finance
7. Jambatan Kedua	4.6	1.0	Yes	No	Transport, Storage, and Communications
8. Manjung Island Energy	4.5	1.0	No	No	Energy, Gas, and Water
9. Malakoff Power	4.3	1.0	No	No	Energy, Gas, and Water
0. BGSM Management	4.3	1.0	No	No	Transport, Storage, and Communications
otal Top 30 LCY Corporate Issuers	292.9	65.3			
Fotal LCY Corporate Bonds	533.7	119.0			
Fop 30 as % of Total LCY Corporate Bonds	54.9%	54.9%			

Table 3: Top 30 Issuers of Local Currency Corporate Bonds in Malaysia

Notes:

1. Data as of end-December 2016.

2. State-owned firms are defined as those in which the government has more than a 50% ownership stake.

Source: AsianBondsOnline calculations based on Bank Negara Malaysia Fully Automated System for Issuing/Tendering data.

Philippines

The Philippines' local currency (LCY) bond market grew 1.4% quarter-on-quarter (q-o-q) and 2.3% year-onyear (y-o-y) in the fourth quarter (Q4) of 2016, amounting to PHP4,869 billion (USD98 billion) at the end of December 2016. Government bonds outstanding reached PHP3,978 billion, up 0.6% q-o-q and 0.8% y-o-y, primarily driven by growth in Treasury bonds. The corporate bond market registered faster growth than the government bond market, expanding 5.5% q-o-q and 9.5% y-o-y.

		(Outstanding A	mount (billic		Growth Rate (%)				
	Q42	Q4 2015		Q3 2016 Q4 2016			Q4	2015	Q4 2016	
	РНР	USD	РНР	USD	РНР	USD	q-o-q	у-о-у	q-o-q	у-о-у
Total	4,760	101	4,800	99	4,869	98	0.8	2.1	1.4	2.3
Government	3,946	84	3,955	82	3,978	80	0.2	1.3	0.6	0.8
Treasury Bills	264	6	293	6	288	6	(6.4)	(6.1)	(1.7)	8.9
Treasury Bonds	3,596	77	3,587	74	3,621	73	0.5	2.5	1.0	0.7
Others	86	2	76	2	69	1	7.5	(16.8)	(8.4)	(19.5)
Corporate	814	17	845	17	891	18	3.8	6.0	5.5	9.5

Table 1: Size and Composition of the Local Currency Bond Market in the Philippines

() = negative, LCY = local currency, PHP = Philippine peso, q-o-q = quarter-on-quarter, Q3 = third quarter, Q4 = fourth quarter, USD = United States dollar, y-o-y = year-on-year. Notes:

1. Calculated using data from national sources.

2. Bloomberg end-of-period LCY-USD rates are used.

3. Growth rates are calculated from an LCY base and do not include currency effects.

4. "Others" comprise bonds issued by government agencies, entities, and corporations for which repayment is guaranteed by the Government of the Philippines. This includes bonds issued by Power Sector Assets and Liabilities Management (PSALM) and the National Food Authority, among others.

5. Peso Global Bonds (PHP-denominated bonds payable in US dollars) are not included.

Sources: Bloomberg LP and Bureau of the Treasury.

Total LCY corporate bond issuance reached PHP71.9 billion in Q4 2016, an increase of 60.3% q-o-q and 147.9% y-o-y.

Corporate Issuers	Coupon Rate (%)	Issued Amount (PHP billion)
SM Investments		
7-year bond	5.159	20.00
Petron		
5-year bond	4.003	9.75
7-year bond	4.522	5.25
Ayala Land		
3-year bond	3.000	3.00
7-year bond	3.892	7.00
China Bank		
6-year bond	3.250	9.59

Table 2: Notable Local Currency Corporate Bond Issuance in the Fourth Quarter of 2016

PHP = Philippine peso.

Source: Bloomberg LP.

The outstanding LCY bonds of the top 30 corporate issuers at the end of December 2016 summed to PHP774.9 billion, which comprised 86.9% of the total LCY corporate bond market. The bulk of the LCY bond stock in the top 30 list emanates from the banking industry, followed by property and holding firms. Ayala Land remained the largest corporate bond issuer in the Philippines in 2016.

	Outstandi	ng Amount	C		
lssuers	LCY Bonds (PHP billion)	LCY Bonds (USD billion)	State- Owned	Listed Company	Type of Industry
1. Ayala Land	80.3	1.6	No	Yes	Property
2. Metrobank	55.4	1.1	No	Yes	Banking
3. SM Prime	55.0	1.1	No	Yes	Property
4. SM Investments	47.3	1.0	No	Yes	Holding Firms
5. Ayala Corporation	40.0	0.8	No	Yes	Holding Firms
6. San Miguel Brewery	37.8	0.8	No	No	Brewery
7. BDO Unibank	37.5	0.8	No	Yes	Banking
8. Philippine National Bank	34.5	0.7	No	Yes	Banking
9. JG Summit	30.0	0.6	No	Yes	Holding Firms
10. Filinvest Land	29.0	0.6	No	Yes	Property
11. Aboitiz Equity Ventures	24.0	0.5	No	Yes	Holding Firms
12. Meralco	23.5	0.5	No	Yes	Electricity, Energy, and Power
13. Security Bank	23.0	0.5	No	Yes	Banking
14. Rizal Commercial Banking Corporation	22.1	0.4	No	Yes	Banking
15. GT Capital	22.0	0.4	No	Yes	Holding Firms
16. Petron	18.6	0.4	No	Yes	Electricity, Energy, and Power
17. South Luzon Tollway	18.3	0.4	No	No	Transport
18. Globe Telecom	17.0	0.3	No	Yes	Telecommunications
19. East West Bank	16.8	0.3	No	Yes	Banking
20. Maynilad Water Service	16.2	0.3	No	No	Water
21. MCE Leisure (Philippines)	15.0	0.3	No	No	Casinos and Gaming
22. Philippines Long Distance Telephone Compa	any 15.0	0.3	No	Yes	Telecommunications
23. SMC Global Power	15.0	0.3	No	No	Electricity, Energy, and Power
24. Union Bank of the Philippines	14.0	0.3	No	Yes	Banking
25. First Metro Investment Corporation	12.0	0.2	No	No	Banking
26. Robinsons Land	12.0	0.2	No	Yes	Property
27. Manila North Tollways	11.9	0.2	No	No	Transport
28. MTD Manila Expressway	11.5	0.2	No	No	Transport
29. Vista Land and Lifescapes	10.2	0.2	No	Yes	Property
30. Aboitiz Power	10.0	0.2	No	Yes	Electricity, Energy, and Power
Total Top 30 LCY Corporate Issuers	774.9	15.6			
Total LCY Corporate Bonds	891.2	18.0			
Top 30 as % of Total LCY Corporate Bonds	86.9%	86.9%			

Table 3: Top 30 Issuers of Local Currency Corporate Bonds in the Philippines

LCY = local currency, PHP = Philippine peso, USD = United States dollar.

Notes:

1. Data as of end-December 2016.

2. State-owned firms are defined as those in which the government has more than a 50% ownership stake.

Source: AsianBondsOnline calculations based on Bloomberg LP data.

Singapore

Singapore's local currency (LCY) bond market reached a size of SGD333 billion (USD230 billion) at the end of December 2016, reflecting a rise of 2.3% quarter-on-quarter and 3.2% year-on-year in the fourth quarter (Q4) of 2016. Growth in the LCY bond market was driven by an increase in the stock of Monetary Authority of Singapore bills and government bonds. Corporate bonds declined 2.0% quarter-on-quarter but rose 0.3% year-on-year. Depressed oil prices significantly affected energy companies in 2016, causing some corporate debt defaults and contributing to the stagnant growth seen in the corporate debt sector.

•										
		O	utstanding A	mount (billio	Growth Rate (%)					
	Q41	Q4 2015 Q3 2016		2016	Q4 2016		Q4 2015		Q4 2016	
	SGD	USD	SGD	USD	SGD	USD	q-o-q	у-о-у	q-o-q	у-о-у
Total	323	228	326	239	333	230	(0.5)	0.0	2.3	3.2
Government	183	129	183	134	193	133	(2.3)	(5.7)	5.6	5.4
SGS Bills and Bonds	106	75	107	78	110	76	2.7	7.7	2.8	4.1
MAS Bills	78	55	76	56	83	57	(8.5)	(19.4)	9.6	7.2
Corporate	140	99	143	105	140	97	2.1	8.5	(2.0)	0.3

Table 1: Size and Composition of the LCY Bond Market in Singapore

() = negative, LCY = local currency, MAS = Monetary Authority of Singapore, q-o-q = quarter-on-quarter, Q3 = third quarter, Q4 = fourth quarter, SGD = Singapore dollar, SGS = Singapore Government Securities, USD = United States dollar, y-o-y = year-on-year.

Notes:

1. Government bonds are calculated using data from national sources. Corporate bonds are based on AsianBondsOnline estimates.

2. SGS bills and bonds do not include the special issue of Singapore Government Securities held by the Singapore Central Provident Fund.

3. Bloomberg LP end-of-period LCY-USD rates are used.

4. Growth rates are calculated from an LCY base and do not include currency effects.

Sources: Bloomberg LP, Monetary Authority of Singapore, and Singapore Government Securities.

New corporate bond issuance in Singapore amounted to SGD1.5 billion in Q4 2016, declining from SGD4.1 billion in the previous quarter. The state-owned Housing and Development Board had the largest corporate issuance in Q4 2016.

Table 2: Notable Local Currency Corporate Bond Issuance in the Fourth Quarter of 2016

Corporate Issuers	Coupon Rate (%)	Issued Amount (SGD million)
Housing and Development Board		
5-year bond	2.22	900
Singapore Airlines		
10-year bond	3.13	430
Mapletree Commercial Trust		
7-year bond	2.80	85
Starhill Global REIT		
10-year bond	3.14	70

REIT = real estate investment trust, SGD = Singapore dollar. Source: Bloomberg LP.

LCY bonds outstanding from the top 30 corporate issuers in Singapore amounted to SGD69.1 billion at the end of December, representing 49.2% of the total corporate bond stock.

Table 3: Top 30 Issuers of Local Currency Corporate Bonds in Singapore

	Outstandi	ng Amount		Lines		
Issuers	LCY Bonds (SGD billion)	LCY Bonds (USD billion)	State-Owned	Listed Company	Type of Industry	
1. Housing & Development Board	22.5	15.6	Yes	No	Real Estate	
2. United Overseas Bank	4.7	3.2	No	Yes	Banking	
3. Temasek Financial I	3.6	2.5	Yes	No	Finance	
I. Land Transport Authority	3.5	2.4	Yes	No	Transportation	
. Capitaland	2.8	1.9	No	Yes	Real Estate	
. FCL Treasury	2.4	1.6	No	No	Finance	
. DBS Bank	2.2	1.5	No	Yes	Banking	
. SP Powerassets	1.9	1.3	No	No	Utilities	
. Olam International	1.7	1.2	No	Yes	Consumer Goods	
D. Keppel Corporation	1.7	1.2	No	Yes	Diversified	
1. DBS Group Holdings	1.5	1.1	No	Yes	Banking	
2. Oversea-Chinese Banking Corporation	1.5	1.0	No	Yes	Banking	
3. City Developments Limited	1.5	1.0	No	Yes	Real Estate	
4. Hyflux	1.5	1.0	No	Yes	Utilities	
5. Singapore Airlines	1.4	1.0	No	Yes	Transportation	
6. Public Utilities Board	1.4	1.0	Yes	No	Utilities	
7. Neptune Orient Lines	1.3	0.9	No	Yes	Transportation	
8. Capitaland Treasury	1.2	0.8	No	No	Finance	
9. Mapletree Treasury Services	1.1	0.8	No	No	Finance	
0. CMT MTN	1.1	0.7	No	No	Finance	
1. Capitamalls Asia Treasury	1.0	0.7	No	No	Finance	
2. National University of Singapore	1.0	0.7	No	No	Education	
3. Ascendas REIT	1.0	0.7	No	Yes	Finance	
4. Sembcorp Financial Services	1.0	0.7	No	No	Engineering	
5. Singtel Group Treasury	0.9	0.6	No	No	Finance	
6. GLL IHT	0.8	0.6	No	No	Real Estate	
7. Overseas Union Enterprise	0.8	0.6	No	Yes	Real Estate	
8. Sembcorp Industries	0.8	0.6	No	Yes	Shipbuilding	
9. Global Logistic Properties	0.8	0.5	No	Yes	Real Estate	
0. SMRT Capital	0.8	0.5	No	No	Transportation	
otal Top 30 LCY Corporate Issuers	69.1	47.7				
otal LCY Corporate Bonds	140.4	97.0				
op 30 as % of Total LCY Corporate Bonds	49.2%	49.2%				

LCY = local currency, SGD = Singapore dollar, USD = United States dollar.

Notes:

1. Data as of end-December 2016.

2. State-owned firms are defined as those in which the government has more than a 50% ownership stake.

Source: AsianBondsOnline calculations based on Bloomberg LP data.

Thailand

Thailand's local currency (LCY) bond market had a total value of THB10,856 billion (USD303 billion) at the end of December 2016, reflecting an expansion of 2.5% quarter-on-quarter and 8.4% year-on-year. The rise mainly came from relatively strong growth in corporate bonds and central bank bonds.

		Outstanding Amount (billion)						Growth Rate (%)			
	Q4 2015		Q3 2	Q3 2016 Q4 2		.016	Q4 2	Q4 2015		2016	
	тнв	USD	тнв	USD	ТНВ	USD	q-o-q	у-о-у	q-o-q	у-о-у	
Total	10,012	278	10,593	306	10,856	303	2.5	8.1	2.5	8.4	
Government	7,494	208	7,819	226	7,938	222	2.5	7.8	1.5	5.9	
Government Bonds and Treasury Bills	3,888	108	4,035	117	4,036	113	5.1	13.9	0.03	3.8	
Central Bank Bonds	2,823	78	2,961	86	3,136	88	(1.4)	2.9	5.9	11.1	
State-Owned Enterprise and Other Bonds	782	22	822	24	765	21	4.1	(1.4)	(6.9)	(2.2)	
Corporate	2,517	70	2,775	80	2,919	81	2.5	9.0	5.2	16.0	

Table 1: Size and Composition of the Local Currency Bond Market in Thailand

() = negative, LCY = local currency, q-o-q = quarter-on-quarter, Q3 = third quarter, Q4 = fourth quarter, THB = Thai baht, USD = United States dollar, y-o-y = year-on-year. Notes:

1. Calculated using data from national sources.

2. Bloomberg end-of-period LCY-USD rates are used.

3. Growth rates are calculated from an LCY base and do not include currency effects.

Sources: Bank of Thailand and Bloomberg LP.

Newly issued LCY corporate bonds amounted to THB502.5 billion in Q4 2016, an increase from THB469.6 billion in Q3 2016. The five largest LCY corporate bond issues came from various industry groups encompassing food and beverages, cement production, communications, transportation, and banking.

Table 2: Notable Local Currency Corporate Bond Issuance in the Fourth Quarter of 2016

Corporate Issuers	Coupon Rate (%)	Issued Amount (THB billion)	Corporate Issuers	Coupon Rate (%)	Issued Amount (THB billion)
Berli Jucker			Bangkok Mass Transit System		
3.5-year bond	2.71	17,920	3-year bond	2.46	5,500
5-year bond	3.06	3,050	5-year bond	2.85	2,200
7-year bond	3.77	2,100	7-year bond	3.30	4,100
9-year bond	4.09	1,200	10-year bond	3.87	10,200
10-year bond	4.27	3,720	Bank of Ayudhya		
Siam Cement			2-year bond	1.94	9,000
4-year bond	3.00	25,000	3-year bond	2.09	6,000
True Move H Universal Commu	nication				
5-year bond	4.50	10,975			
7-year bond	5.00	4,545			
10-year bond	5.50	7,480			

THB = Thai baht.

Source: Bloomberg LP.

The LCY bonds outstanding of Thailand's top 30 corporate issuers had a combined total of THB1,628.9 billion at the end of December 2016, constituting 55.8% of the total LCY corporate bond stock. CP All was the top corporate issuer in 2016.

Table 3: Top 30 Issuers of LCY Corporate Bonds in Thailand

		Outstandi	ng Amount			
lss	uers	LCY Bonds (THB billion)	LCY Bonds (USD billion)	State-Owned	Listed Company	Type of Industry
1. CP All		198.0	5.5	No	Yes	Commerce
2. Siam Cement		166.5	4.6	Yes	Yes	Construction Materials
3. PTT		137.4	3.8	Yes	Yes	Energy and Utilities
4. Bank of Ayudhya		92.3	2.6	No	Yes	Banking
5. Charoen Pokphand Fo	oods	85.0	2.4	No	Yes	Food and Beverage
6. Berli Jucker		82.0	2.3	No	Yes	Food and Beverage
7. Thai Airways Internat	ional	59.3	1.7	Yes	Yes	Transportation and Logistics
8. Kasikorn Bank		50.0	1.4	No	Yes	Banking
9. Tisco Bank		49.5	1.4	No	No	Banking
10. Indorama Ventures		47.4	1.3	No	Yes	Petrochemicals and Chemicals
11. Krungthai Card		46.5	1.3	Yes	Yes	Banking
12. True Move H Univers	al Communication	43.0	1.2	No	No	Communications
13. Banpu		41.3	1.2	No	Yes	Energy and Utilities
14. Toyota Leasing Thaila	nd	40.9	1.1	No	No	Finance and Securities
15. The Siam Commercia	l Bank	40.0	1.1	No	Yes	Banking
16. Mitr Phol Sugar		37.9	1.1	No	No	Food and Beverage
17. Land & Houses		36.3	1.0	No	Yes	Property and Construction
18. CPF Thailand		32.6	0.9	No	Yes	Food and Beverage
19. Thanachart Bank		32.5	0.9	No	No	Banking
20. PTT Exploration and I	Production Company	32.1	0.9	Yes	Yes	Energy and Utilities
21. TPI Polene		32.0	0.9	No	Yes	Property and Construction
22. Advanced Wireless		31.6	0.9	No	Yes	Communications
23. True Corp		31.2	0.9	No	Yes	Communications
24. CH. Karnchang		29.0	0.8	No	Yes	Property and Construction
25. Thai Oil		28.0	0.8	Yes	Yes	Energy and Utilities
26. Thai Union Group		26.3	0.7	No	Yes	Food and Beverage
27. Minor International		25.8	0.7	No	Yes	Food and Beverage
28. TMB Bank		25.4	0.7	No	Yes	Banking
29. Glow Energy		24.6	0.7	No	Yes	Energy and Utilities
30. Quality Houses		24.5	0.7	No	Yes	Property and Construction
Total Top 30 LCY Corporate	e Issuers	1,628.9	45.5			
Total LCY Corporate Bonds		2,918.9	81.5			
Top 30 as % of Total LCY Co	orporate Bonds	55.8%	55.8%			

LCY = local currency, THB = Thai baht, USD = United States dollar.

Notes:

1. Data as of end-December 2016.

2. State-owned firms are defined as those in which the government has more than a 50% ownership stake.

Source: AsianBondsOnline calculations based on Bloomberg LP data.

Viet Nam

Viet Nam's local currency (LCY) bond market was valued at VND996 trillion (USD44 billion) at the end of December. On a quarter-on-quarter basis, growth contracted 4.4% in the fourth quarter of 2016, due largely to a decline in central bank bonds outstanding as redemptions exceeded new issuance.

		Outstanding Amount (billion)						Growth Rate (%)			
	Q4 2	Q4 2015		Q3 2016 Q4		016	Q4 2015		Q4 2016		
	VND	USD	VND	USD	VND	USD	q-o-q	у-о-у	q-o-q	у-о-у	
Total	937,601	42	1,041,024	47	995,720	44	10.3	5.2	(4.4)	6.2	
Government	904,310	40	999,630	45	949,725	42	9.8	3.2	(5.0)	5.0	
Treasury Bonds	599,300	27	719,847	32	736,932	32	11.8	14.1	2.4	23.0	
Central Bank Bonds	98,191	4	69,999	3	8,000	0.4	8.8	(26.9)	(88.6)	(91.9)	
State-Owned Enterprise Bonds	206,818	9	209,784	9	204,792	9	4.9	(4.4)	(2.4)	(1.0)	
Corporate	33,292	1	41,394	2	45,996	2	24.4	114.3	11.1	38.2	

Table 1: Size and Composition of the Local Currency Bond Market in Viet Nam

() = negative, LCY = local currency, q-o-q = quarter-on-quarter, Q3 = third quarter, Q4 = fourth quarter, USD = United States dollar, VND = Vietnamese dong, y-o-y = year-on-year. Notes:

1. Bloomberg LP end-of-period LCY-USD rates are used.

2. Growth rates are calculated from an LCY base and do not include currency effects.

Sources: Bloomberg LP and Vietnam Bond Market Association.

In the fourth quarter of 2016, new corporate bond issues reached VND4.6 trillion, higher on both a quarter-on-quarter and year-on-year basis. Leading the list of new corporate debt issuers was Vietcombank, which issued 10-year bonds worth VND2.0 trillion in November.

Corporate Issuer	Coupon Rate (%)	Issued Amount (VND billion)	
Vietcombank			
10-year bond	floating	2,000	
Vietnam Electrical Equipment			
3-year bond	floating	1,800	
Sai Gon Thuong Tin Real Estate			
2-year bond	12.00	200	
4-year bond	10.50	400	

Table 2: Notable Local Currency Corporate Bond Issuance in the Fourth Quarter of 2016

VND = Viertnamese dong.

Sources: Bloomberg LP and Vietnam Bond Market Association.

Viet Nam's corporate bond market comprised a total of 27 corporate firms, with outstanding bonds valued at VND46.0 trillion at the end of December. The largest corporate issuer was Masan Consumer Holdings with outstanding bonds of VND11.1 trillion, representing 24.1% of the aggregate stock of corporate bonds.

		Outstanding Amount				
	lssuers	LCY Bonds (VND billion)	LCY Bonds (USD billion)	State-Owned	Listed Company	Type of Industry
1.	Masan Consumer Holdings	11,100	0.49	No	No	Diversified Operations
2.	Vingroup JSC	8,000	0.35	No	Yes	Real Estate
3.	Asia Commercial Joint Stock	4,600	0.20	No	No	Finance
4.	Hoang Anh Gia Lai	4,000	0.18	No	Yes	Real Estate
5.	Techcom Bank	3,000	0.13	No	No	Banking
6.	Ho Chi Minh City Infrastructure	2,102	0.09	No	Yes	Infrastructure
7.	Vietcombank	2,000	0.09	Yes	Yes	Banking
8.	Vietnam Electrical Equipment	1,800	0.08	No	Yes	Manufacturing
9.	Agro Nutrition International	1,300	0.06	No	No	Agriculture
10.	DIC Corporation	1,000	0.04	Yes	No	Chemicals
11.	Ocean Group	980	0.04	No	Yes	Consulting Services
12.	Saigon-Hanoi Securities Corporation	950	0.04	No	Yes	Finance
13.	Sai Gon Thuong Tin Real Estate	600	0.03	No	Yes	Real Estate
14.	Khang Dien House Trading and Investment	534	0.02	No	Yes	Building and Construction
15.	Hoangquan	500	0.02	No	Yes	Real Estate
16.	Saigon Securities	500	0.02	No	Yes	Finance
17.	Tasco Corporation	500	0.02	No	Yes	Engineering and Construction
18.	Vietinbank Securities	500	0.02	Yes	Yes	Finance
19.	An Phat Plastic & Green Environment	450	0.02	No	Yes	Industrial
20.	Sotrans Corporation	400	0.02	No	No	Logistics
21.	Vietnam Investment Construction and Trading	350	0.02	No	Yes	Building and Construction
22.	Hung Vuong Corp.	300	0.01	No	Yes	Food
23.	Ha Do Corporation	200	0.01	No	Yes	Construction
24.	Son Ha International	110	0.005	No	Yes	Building and Construction
25.	Dongnai Plastic	100	0.004	No	Yes	Industrial
26.	Fecon	70	0.003	No	Yes	Engineering and Construction
27.	Construction Joint Stock Company No. 3	50	0.002	No	Yes	Real Estate
Tota	I LCY Corporate Issuers	45,996	2.02			

Table 3: Corporate Issuers of Local Currency Corporate Bonds in Viet Nam

LCY = local currency, USD = United States dollar, VND = Vietnamese dollar.

Notes:

1. Data as of end-December 2016.

2. State-owned firms are defined as those in which the government has more than a 50% ownership stake.

Sources: AsianBondsOnline calculations based on Bloomberg LP and Vietnam Bond Market Association data.

Asia Bond Monitor

March 2017

This publication reviews recent developments in East Asian local currency bond markets along with the outlook, risks, and policy options. It covers the 10 members of the Association of Southeast Asian Nations and the People's Republic of China; Hong Kong, China; and the Republic of Korea.

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