

ASEAN COVID-19 tracker

Pricing in a recovery?

Free to View
Economics - ASEAN

- ◆ Recent news of a potential vaccine raised investors' hope for a quick recovery, boosting equity markets across the region
- ◆ The SG-HK travel bubble is set to begin on 22 November, but flights are limited and testing requirements remain onerous
- ◆ New cases in Malaysia continue to rise, forcing the government to extend and expand lockdown restrictions

What's in the price?

News of a potential vaccine lifted equity markets across ASEAN this week as investors price in a potential recovery. Vaccine aside, however, things do appear to be improving on the ground. Daily new cases continue to decline in most countries, with the exception of Malaysia. People's mobility, on average, also continues to see moderate improvements. *Google* data show that people's mobility remains the most restricted in the Philippines, despite a reduction in new COVID-19 cases in the country. This suggests that the government has scope to further ease restrictions, which would be a welcome development. 3Q GDP data from the Philippines and Indonesia showed that lockdowns during the quarter continued to weigh on their economic recovery, so a further loosening of those restrictions should help boost growth as the year comes to a close.

The SG-HK travel bubble

The Singapore-Hong Kong "air travel bubble" will begin on 22 November. This marks the first travel bubble resulting from the pandemic. But it is nowhere near a return to normalcy. There will be only one designated flight a day in each direction, with a quota of 200 passengers per flight. Flights will increase to two a day each way from 7 December. But travellers from both cities must undergo up to three COVID-19 tests at various stages of the journey, which includes at least a four hour wait for test results upon arrival at Hong Kong International Airport (*South China Morning Post*, 11 November 2020). The three tests would also cost passengers around USD240. These limitations underline the continued constraints that travellers face despite borders re-opening and further highlight the need for a vaccine.

Malaysia's rising cases

Malaysia has extended and expanded its partial lockdown measures as COVID-19 cases continue to hit record highs. Interstate travel is not allowed and schools are closed as part of the lockdown. However, all other economic activities (industrial and business activities) are allowed to operate, with strict adherence to social distancing guidelines (*Reuters*, 7 November 2020). The restrictions, which apply to Kuala Lumpur and most states within the country, will remain in place until 6 December. To offset the effects of the lockdown, the government recently announced an expansionary budget for 2021, setting aside its previous fiscal consolidation plans.

This is a redacted version of the report published on 12-Nov-20. Please contact your HSBC representative or email AskResearch@hsbc.com for information.

Noelan Arbis

Economist

The Hongkong and Shanghai Banking Corporation Limited

Joseph Incalcaterra

Chief Economist, ASEAN

The Hongkong and Shanghai Banking Corporation Limited

Yun Liu

Economist

The Hongkong and Shanghai Banking Corporation Limited

Maitreyi Das

Associate

Bangalore

Disclosures & Disclaimer

This report must be read with the disclosures and the analyst certifications in the Disclosure appendix, and with the Disclaimer, which forms part of it.

Issuer of report: The Hongkong and Shanghai Banking Corporation Limited

View HSBC Global Research at:
<https://www.research.hsbc.com>

COVID-19 in ASEAN

Chart 1: Total infections in Indonesia tops the region at nearly 450,000 confirmed cases

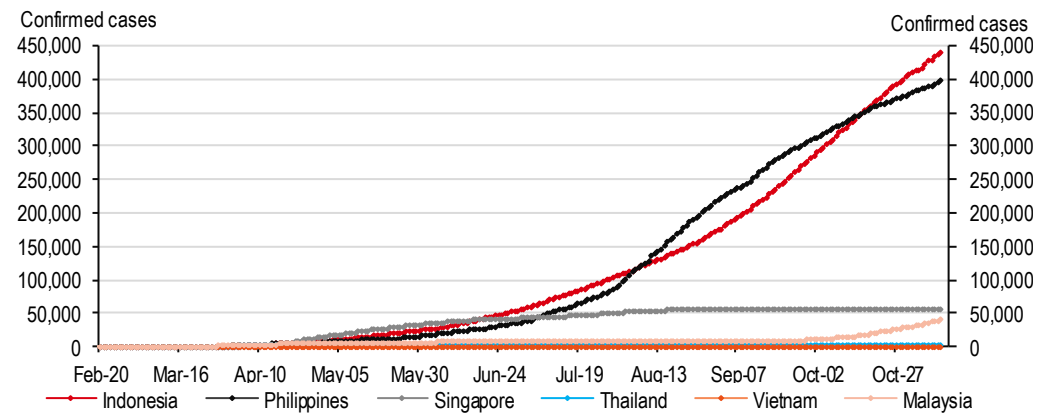


Chart 2: Testing continues to rise across all countries

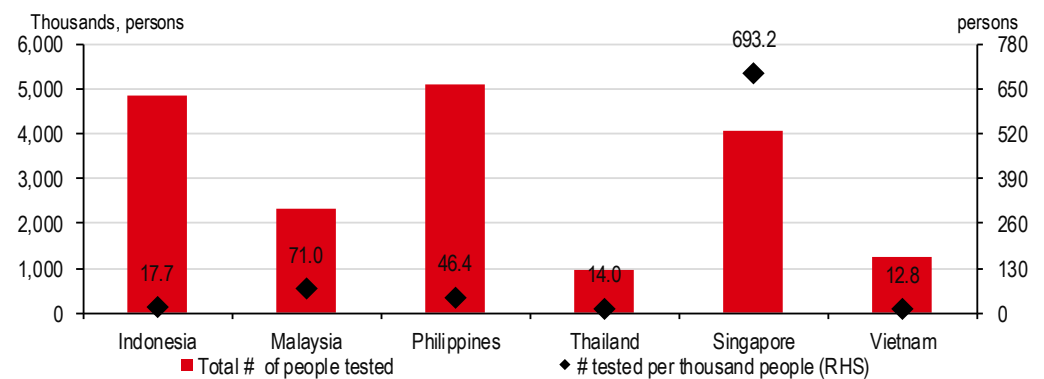


Chart 3: The mortality rate has declined across all countries, although it remains relatively high in Indonesia

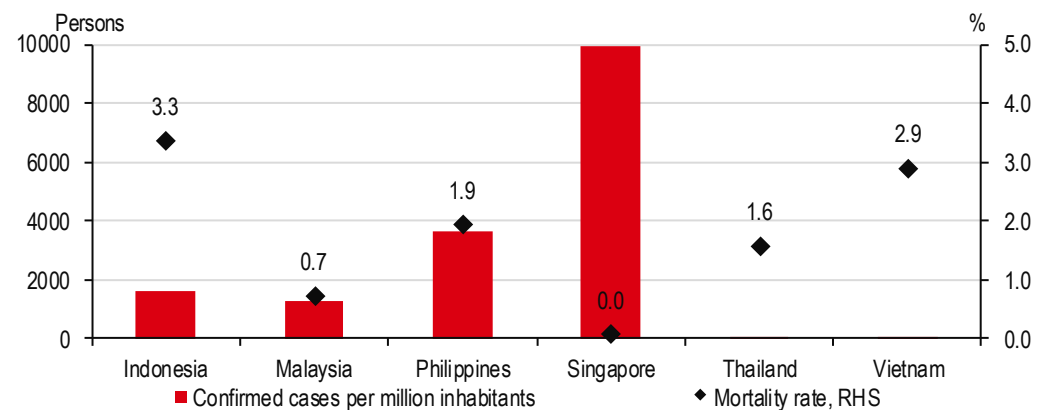
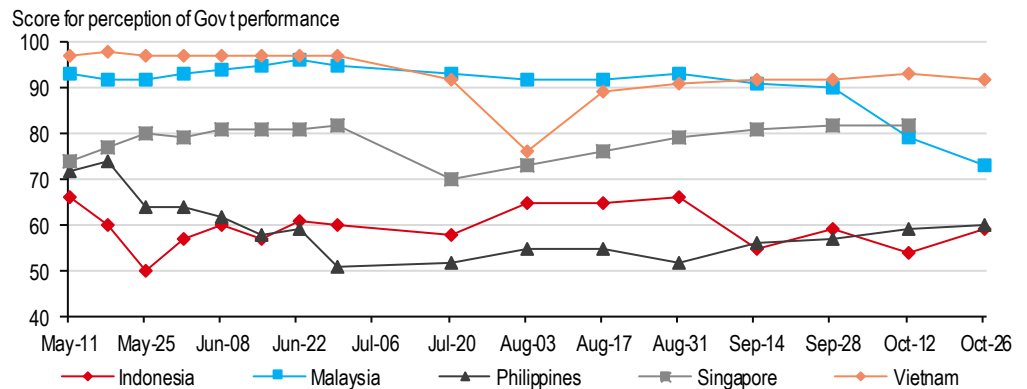
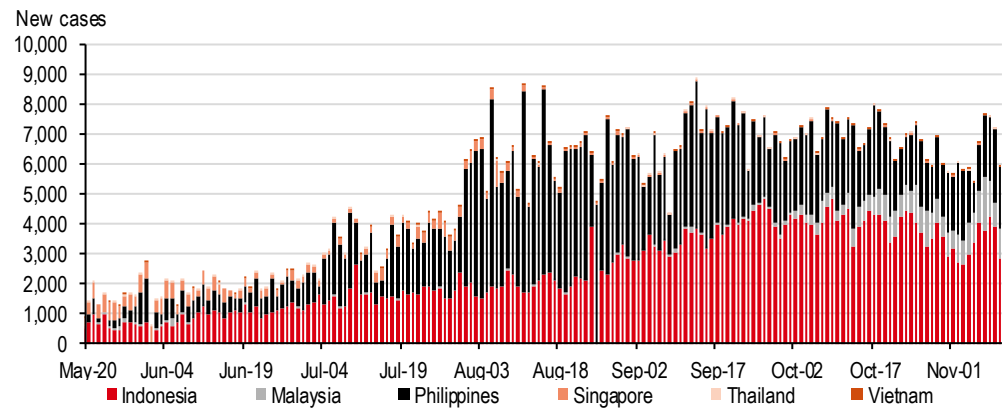


Chart 4: Perception of government performance in Malaysia has declined substantially



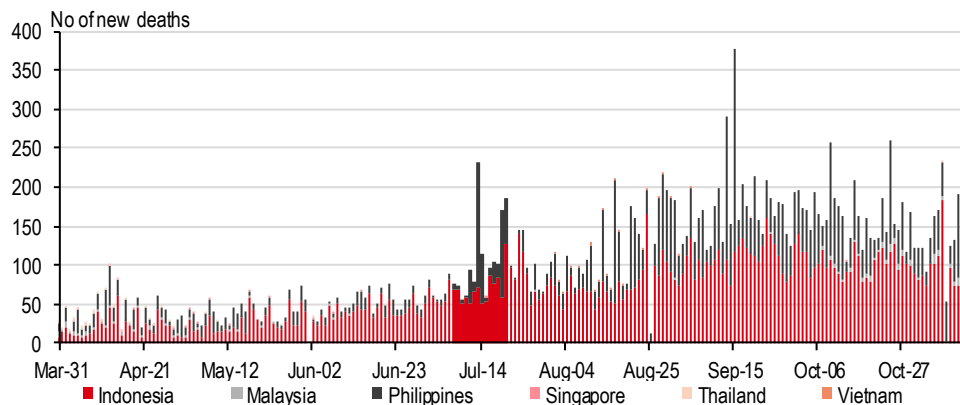
Source: YouGov survey, HSBC

Chart 5: Total new daily cases in ASEAN now appears to be declining, despite recent spikes



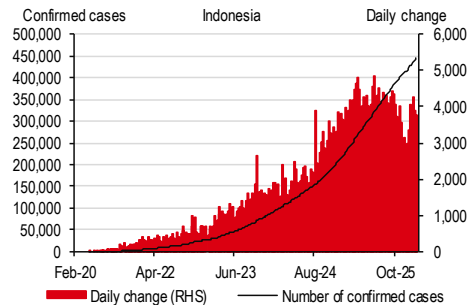
Source: CEIC, HSBC

Chart 6: The number of daily fatalities also appears to be abating



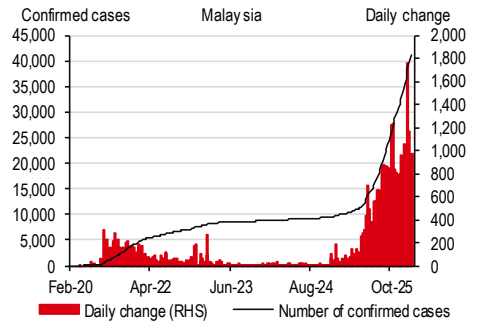
Source: CEIC HSBC

Chart 7: New cases in Indonesia remain stable at around 4,000 per day



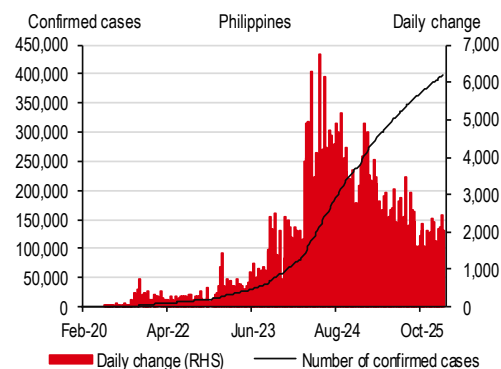
Source: CEIC, HSBC

Chart 8: Malaysia's new cases are still on the rise



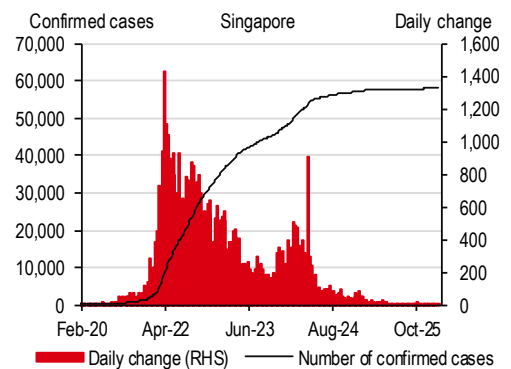
Source: CEIC, HSBC

Chart 9: New cases in the Philippines continue to trend downwards



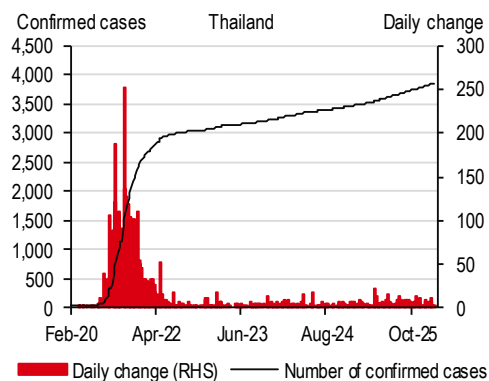
Source: CEIC, HSBC

Chart 10: New cases in Singapore now appear to be broadly contained



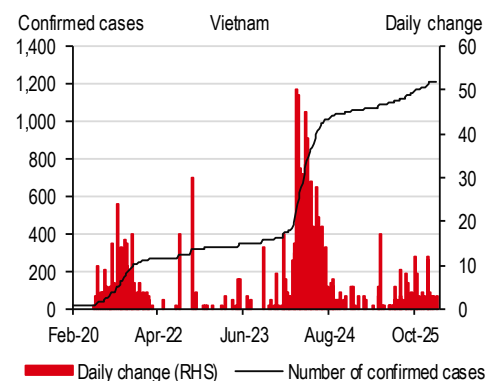
Source: CEIC, HSBC

Chart 11: Thailand's daily new cases remain in single digits



Source: CEIC, HSBC

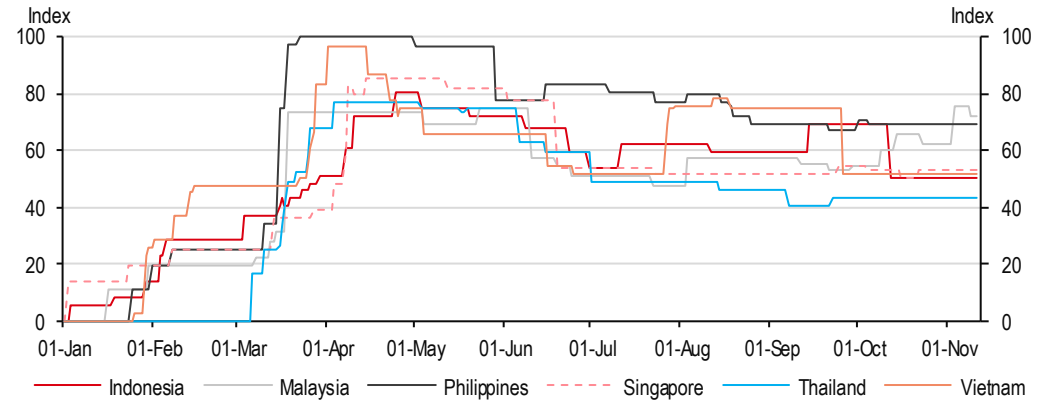
Chart 12: Vietnam's new cases have mostly been imported



Source: CEIC, HSBC

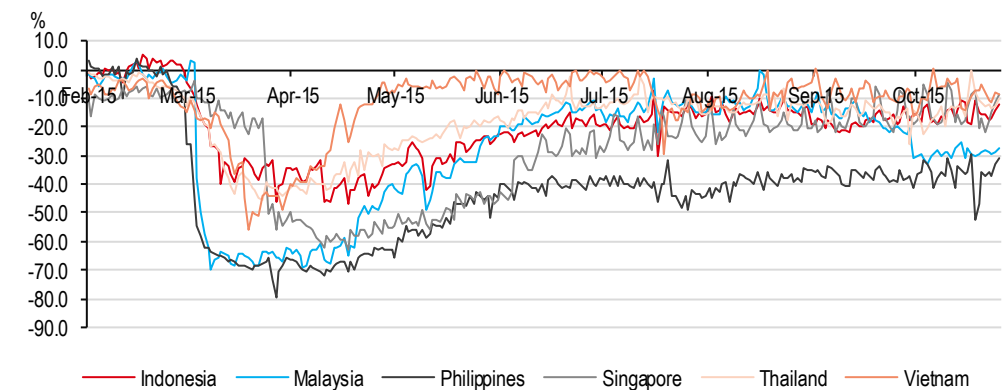
Economic indicators

Chart 13: Stringency measures continue to vary across the region, with Thailand having the fewest number of restrictions



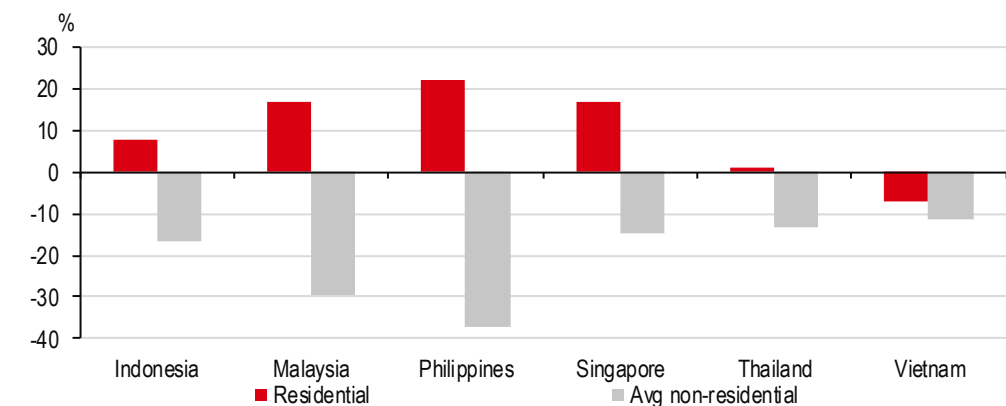
Note: Data as of 10 November 2020.
 Source: Oxford COVID-19 Government Response Tracker

Chart 14: People's mobility, on average, continues to see moderate improvements in most countries (except in Malaysia)



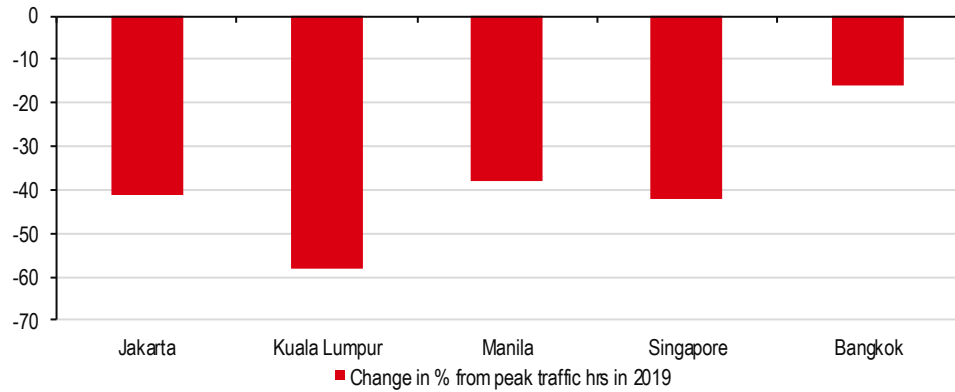
Note: Comparison to Google baseline. The baseline is the median value, for the corresponding day of the week, during the five-week period of 3 January 2020-6 February 2020.
 Source: Google COVID-19 Community Mobility Report

Chart 15: People's mobility, on average, in the Philippines is still the most restricted in ASEAN



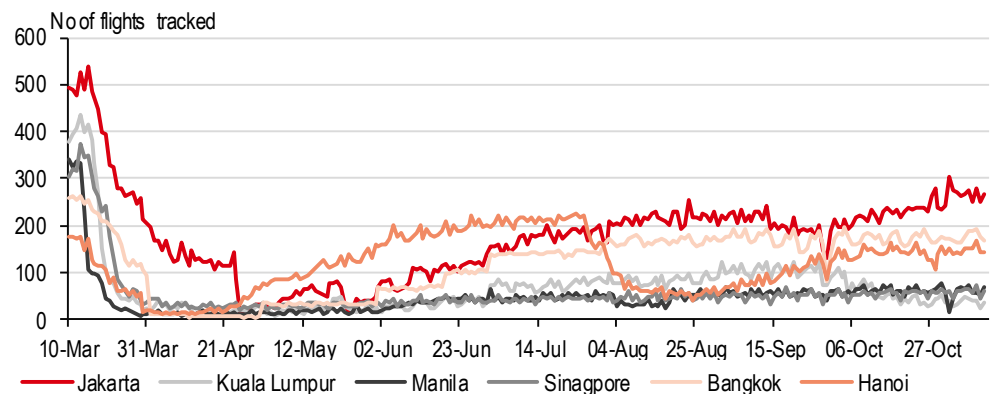
Note: Comparison to Google baseline. The baseline is the median value, for the corresponding day of the week, during the five-week period of 3 January 2020-6 February 2020.
 Source: Google COVID-19 Community Mobility Report

Chart 16: Traffic congestion in Kuala Lumpur and Jakarta have declined most in the region



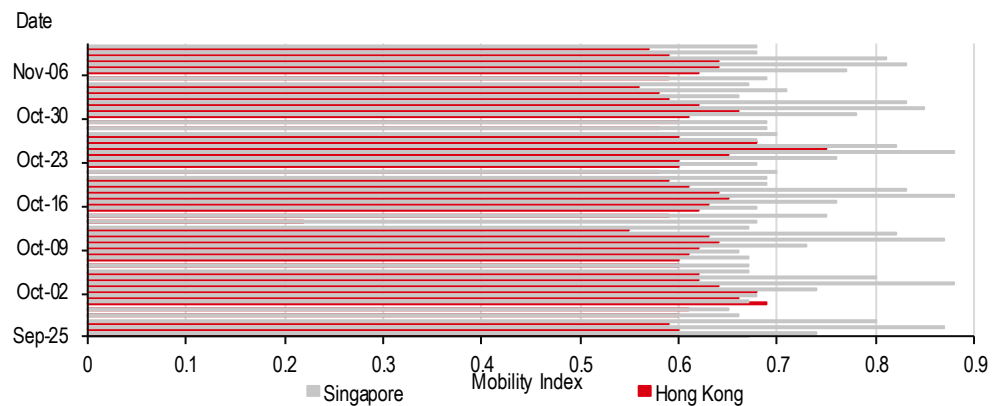
Source: TomTom, HSBC

Chart 17: Air traffic in Indonesia is steadily rising; relatively constant elsewhere in the region



Source: Flight Tracker, HSBC

Chart 18: Mobility in Singapore and Hong Kong are almost back to pre-pandemic levels



Source: Citymapper, HSBC

Policy responses to COVID-19

Table 1: Lockdown measures in Indonesia have been eased beginning 1 June

Measure	Details
Lockdown restrictions	Indonesia temporarily banned domestic air and sea travel beginning on 24 April until early June to stop non-essential travel during Ramadan. These measures have now been eased. There is no country-wide lockdown implemented, but regional governments have imposed their own social restrictions, known as PSBB, from mid-April. On 10 September, it was announced that Jakarta is re-implementing PSBB measures, which lasted until 25 October.
Fiscal stimulus	The government temporarily removed the deficit limit and will target a deficit of 6.3% this year. It has provided a fiscal package of IDR405trn (2.4% of GDP), which includes support for both households and businesses. Households will receive increased non-cash and food subsidies (0.7% of GDP). Businesses will receive tax breaks, import credits, and lower electricity and fuel costs (0.4% of GDP). Health sector workers will receive incentives and death benefits (0.4% of GDP). President Jokowi also tabled the 2021 budget targeting a deficit of 5.5% of GDP keeping in mind the recovery strategy.
Monetary policy	Bank Indonesia (BI) has reduced its policy rate by 100bp to 4.00% so far this year. It has also cut the reserve requirement ratio (RRR) by 200bp, with IDR10.2bn of fresh liquidity directed into the government bond market. BI will also increase its purchases of government bonds through term repos as part of open market operations (OMOs). It has been making outright purchases of government bonds (GBs) in the secondary market as part of its triple intervention to support the currency and financial market amid outflows. We expect another 25bp of policy rate cuts this year and a further 100bp RRR cut.

Source: IMF, HSBC

Table 2: Malaysia's total fiscal package ranks the highest in the region at 19.5% of GDP

Measure	Details
Lockdown restrictions	The Movement Control Order (MCO) was put in place for 18-31 March and subsequently extended twice – first until 14 April and until 9 June. All border checkpoints (including with Singapore) are closed. Inter-district travel has been banned and non-essential businesses have been shut within Sabah following an outbreak after a regional election on 26 September. The government also imposed movement restrictions in Kuala Lumpur, Putrajaya, and Selangor beginning 13 October.
Fiscal stimulus	The government announced a total package of MYR305bn (c20% of GDP), including c3.8% of GDP of fresh federal expenditure to be spent on cash handouts, wage subsidies, and tax breaks. This includes cash handouts worth 2% of GDP mostly targeted at lower-income households and affected workers. Non-federal expenditure includes a reduction in mandatory pension contributions to inject 0.7% of GDP into the economy, subsidised loans for SMEs, broad discounts for business costs, and subsidised wage costs for businesses. Also, an additional 0.2% of GDP in rural infrastructure spending is to be disbursed imminently.
Monetary policy	Bank Negara Malaysia (BNM) has lowered the Overnight Policy Rate (OPR) by 125bp this year, taking it to a record low of 1.75%. It has also cut banks' reserve requirement by 150bp (since November 2019), injecting a total of MYR22bn of liquidity into the market. We forecast a further 25bp rate cut to 1.50% by the end of 1Q21.

Source: IMF, HSBC

Table 3: The Philippines awaits passage of fiscal stimulus after GDP contracted in 1Q20

Measure	Details
Lockdown restrictions	On 16 March, the authorities placed Luzon Island, including the Metro Manila area, in a month-long "enhanced community quarantine", which involved travel restrictions, the cancellation of public gatherings, and an 8pm to 5am curfew. The strictest quarantine measures have been loosened in less affected areas beginning 15 May. Lockdown measures in Metro Manila were also loosened beginning 1 June but have been reinstated from early to mid-August as a result of the recent surge in new cases. As of 19 August, the lockdown in Metro Manila was eased back into a general community quarantine.
Fiscal stimulus	The government has announced a PHP27.1bn fiscal package (0.2% of GDP), which includes measures to purchase additional COVID-19 test kits and protection for vulnerable workers. In addition, the government is proposing a PHP1.5trn stimulus programme (8% of GDP), which includes wage subsidies, credit guarantees for affected businesses, loan assistance, tax extensions, and health-related expenditures, just to name a few. The government expects the fiscal deficit to widen to 5.3% of GDP in 2020 from 3.5% in 2019.
Monetary policy	The Bangko Sentral ng Pilipinas (BSP) has reduced its policy rate by a total of 175bp so far in 2020 to 2.25%, and we expect an additional 25bp cut in 1Q21. In March, the BSP purchased PHP300bn of government bonds directly from the Bureau of Treasury (BTr) under a three-month repurchase agreement (extendable for another three months) to both help finance the government's additional borrowing needs and to supply much-needed liquidity to the government bond market. The BSP has also announced several relief measures for the banking sector, including a temporary relaxation on compliance regulations and easier access to the BSP's rediscounting facility. On 30 March, the BSP reduced the reserve requirement ratio (RRR) for banks by 200bp, bringing it down to 12%. We forecast an additional 200bp of RRR cuts this year.

Source: IMF, HSBC

Table 4: Singapore's "Circuit Breaker" measures have been lifted

Measure	Details
Lockdown restrictions	The government imposed a "Circuit Breaker" period from 7 April to 4 May and subsequently extended it until 1 June. From 10 April, all returnees (Singapore citizens, PR (permanent residents), or long-term passholders) were required to serve their Stay-Home Notice in government-designated facilities. All short-term visitors are not allowed to enter or transit through Singapore, effective 23 March. Restrictions on some businesses and services have been gradually eased from 5 May. A three-phased re-opening plan commenced on 2 June.
Fiscal stimulus	Since February, the government announced four stimulus packages close to 20% of GDP, including wage subsidies (up to 75% of wage cost) and corporate rebates for businesses, as well as direct cash handouts and GST vouchers for households. Additional wage subsidies and foreign labour levy and rebates are given in response to the extended "Circuit Breaker".
Monetary policy	On 14 October, the MAS kept its monetary policy settings unchanged. The MAS announced a USD60bn swap facility to inject USD liquidity. We forecast no monetary policy change throughout 2021.

Source: IMF, HSBC

Table 5: Bank of Thailand has employed considerable measures to support the economy

Measure	Details
Lockdown restrictions	The government imposed a month-long state of emergency, beginning 26 March (up to 30 April), which was extended thrice to 31 July. A state of emergency allows the government to impose more stringent restrictions on people's everyday life, such as curfews. Following recent political protests, a state of emergency was reinstated in Bangkok on 15 October but was lifted a week later on 22 October. The government has now eased much of its movement restrictions and is in the early stages of forming "travel bubbles" with countries that have successfully contained the virus.
Fiscal stimulus	The government has announced three rounds of fiscal stimulus totaling at least 8.9% of GDP, or THB1.5tn. It includes THB600bn for health-related measures, THB400bn to support the broader economy, and support for individuals and businesses through soft loans, just to name a few. While part of the stimulus would be financed within the original FY20 budget, THB1tn in additional borrowing has also been authorised by Royal Decree for FY20 and FY21.
Monetary policy	The Bank of Thailand (BoT) has reduced the benchmark rate by 75bp so far this year to 0.50%. We expect no further rate cuts barring a second wave of COVID-19 cases and/or a double-dip in economic activity. The BoT has implemented several measures to support the economy, including: (1) soft loans to financial institutions, amounting to THB500bn; and (2) a relaxation of repayment conditions for businesses. Moreover, the BoT has implemented several unprecedented/rare measures to support financial market stability, such as: (1) the establishment of a THB400bn (USD12bn) Corporate Bond Stabilisation Fund, which enables the BoT to purchase high-quality corporate bonds in the primary market; (2) its greater purchase of government bonds to ensure the normal functioning of the bond market; (3) the reduction/cancellation of BoT bill issuances; and (4) the establishment of a facility to provide liquidity for bond mutual funds.

Source: IMF, HSBC

Table 6: Vietnam started to ease some of its lockdown measures on 23 April

Measure	Details
Lockdown restrictions	A nationwide lockdown was put in place from 1 April to 22 April. From 23 April, Vietnam started to ease social distancing measures but some restrictions remain. It has temporarily banned all foreigners (including overseas Vietnamese and their non-citizen spouses and children who have visa exemptions) from entering, effective 22 March. Vietnamese carriers resumed all domestic operations, with national carrier Vietnam Airlines launching six new domestic routes. Following successful containment, Vietnam plans to resume international flights with Guangzhou, Seoul, Tokyo, Taipei, Phnom Penh, and Vientiane, with further details to be released. On 21 October, Vietnam and Japan agreed to waive the quarantine requirement for certain groups of short-term travelers (e.g. business), effective from 1 November.
Fiscal stimulus	The government introduced a stimulus package worth 4.4% of GDP, with tax cuts (VAT, CIT, and PIT) and land rental payment deferrals for five months' worth 2.8% of GDP. Affected firms and workers are also allowed to defer their contribution for up to 12 months to the pension fund without incurring interest penalties. In addition, the government has introduced a USD2.6bn (0.8% of GDP) direct cash handout for poor households.
Monetary policy	The State Bank of Vietnam (SBV) has cut its benchmark policy rate by 200bp so far in 2020, lowering it to 4.00%. We forecast no rate cuts throughout 2021.

Source: IMF, HSBC

Disclosure appendix

Analyst Certification

The following analyst(s), economist(s), or strategist(s) who is(are) primarily responsible for this report, including any analyst(s) whose name(s) appear(s) as author of an individual section or sections of the report and any analyst(s) named as the covering analyst(s) of a subsidiary company in a sum-of-the-parts valuation certifies(y) that the opinion(s) on the subject security(ies) or issuer(s), any views or forecasts expressed in the section(s) of which such individual(s) is(are) named as author(s), and any other views or forecasts expressed herein, including any views expressed on the back page of the research report, accurately reflect their personal view(s) and that no part of their compensation was, is or will be directly or indirectly related to the specific recommendation(s) or views contained in this research report: Noelan Arbis, Joseph Incalcaterra and Yun Liu

Important disclosures

This document has been prepared and is being distributed by the Research Department of HSBC and is not for publication to other persons, whether through the press or by other means.

This document is for information purposes only and it should not be regarded as an offer to sell or as a solicitation of an offer to buy the securities or other investment products mentioned in it and/or to participate in any trading strategy. Advice in this document is general and should not be construed as personal advice, given it has been prepared without taking account of the objectives, financial situation or needs of any particular investor. Accordingly, investors should, before acting on the advice, consider the appropriateness of the advice, having regard to their objectives, financial situation and needs. If necessary, seek professional investment and tax advice.

Certain investment products mentioned in this document may not be eligible for sale in some states or countries, and they may not be suitable for all types of investors. Investors should consult with their HSBC representative regarding the suitability of the investment products mentioned in this document and take into account their specific investment objectives, financial situation or particular needs before making a commitment to purchase investment products.

The value of and the income produced by the investment products mentioned in this document may fluctuate, so that an investor may get back less than originally invested. Certain high-volatility investments can be subject to sudden and large falls in value that could equal or exceed the amount invested. Value and income from investment products may be adversely affected by exchange rates, interest rates, or other factors. Past performance of a particular investment product is not indicative of future results.

HSBC and its affiliates will from time to time sell to and buy from customers the securities/instruments, both equity and debt (including derivatives) of companies covered in HSBC Research on a principal or agency basis or act as a market maker or liquidity provider in the securities/instruments mentioned in this report.

Analysts, economists, and strategists are paid in part by reference to the profitability of HSBC which includes investment banking, sales & trading, and principal trading revenues.

Whether, or in what time frame, an update of this analysis will be published is not determined in advance.

For disclosures in respect of any company mentioned in this report, please see the most recently published report on that company available at www.hsbcnet.com/research. HSBC Private Banking clients should contact their Relationship Manager for queries regarding other research reports. In order to find out more about the proprietary models used to produce this report, please contact the authoring analyst.

Additional disclosures

- 1 This report is dated as at 12 November 2020.
- 2 All market data included in this report are dated as at close 11 November 2020, unless a different date and/or a specific time of day is indicated in the report.
- 3 HSBC has procedures in place to identify and manage any potential conflicts of interest that arise in connection with its Research business. HSBC's analysts and its other staff who are involved in the preparation and dissemination of Research operate and have a management reporting line independent of HSBC's Investment Banking business. Information Barrier procedures are in place between the Investment Banking, Principal Trading, and Research businesses to ensure that any confidential and/or price sensitive information is handled in an appropriate manner.
- 4 You are not permitted to use, for reference, any data in this document for the purpose of (i) determining the interest payable, or other sums due, under loan agreements or under other financial contracts or instruments, (ii) determining the price at which a financial instrument may be bought or sold or traded or redeemed, or the value of a financial instrument, and/or (iii) measuring the performance of a financial instrument or of an investment fund.

Disclaimer

Legal entities as at 1 September 2020

'UAE' HSBC Bank Middle East Limited, DIFC; HSBC Bank Middle East Limited, Dubai; 'HK' The Hongkong and Shanghai Banking Corporation Limited, Hong Kong; 'TW' HSBC Securities (Taiwan) Corporation Limited; 'CA' HSBC Securities (Canada) Inc.; HSBC France, S.A., Madrid, Milan, Stockholm; 'DE' HSBC Trinkaus & Burkhardt AG, Düsseldorf; 000 HSBC Bank (RR), Moscow; 'IN' HSBC Securities and Capital Markets (India) Private Limited, Mumbai; 'JP' HSBC Securities (Japan) Limited, Tokyo; 'EG' HSBC Securities Egypt SAE, Cairo; 'CN' HSBC Investment Bank Asia Limited, Beijing Representative Office; The Hongkong and Shanghai Banking Corporation Limited, Singapore Branch; The Hongkong and Shanghai Banking Corporation Limited, Seoul Securities Branch; The Hongkong and Shanghai Banking Corporation Limited, Seoul Branch; HSBC Securities (South Africa) (Pty) Ltd, Johannesburg; HSBC Bank plc, London, Tel Aviv; 'US' HSBC Securities (USA) Inc., New York; HSBC Yatirim Menkul Degerler AS, Istanbul; HSBC México, SA, Institución de Banca Múltiple, Grupo Financiero HSBC; HSBC Bank Australia Limited; HSBC Bank Argentina SA; HSBC Saudi Arabia Limited; The Hongkong and Shanghai Banking Corporation Limited, New Zealand Branch incorporated in Hong Kong SAR; The Hongkong and Shanghai Banking Corporation Limited, Bangkok Branch; PT Bank HSBC Indonesia; HSBC Qianhai Securities Limited; Banco HSBC S.A.

Issuer of report

The Hongkong and Shanghai Banking Corporation Limited

Level 19, 1 Queen's Road Central
 Hong Kong SAR

Telephone: +852 2843 9111

Fax: +852 2801 4138

Website: www.research.hsbc.com

The Hongkong and Shanghai Banking Corporation Limited ("HSBC") has issued this research material. The Hongkong and Shanghai Banking Corporation Limited is regulated by the Hong Kong Monetary Authority. If it is received by a customer of an affiliate of HSBC, its provision to the recipient is subject to the terms of business in place between the recipient and such affiliate.

In the UK, this publication is distributed by HSBC Bank plc for the information of its Clients (as defined in the Rules of FCA) and those of its affiliates only. Nothing herein excludes or restricts any duty or liability to a customer which HSBC Bank plc has under the Financial Services and Markets Act 2000 or under the Rules of FCA and PRA. A recipient who chooses to deal with any person who is not a representative of HSBC Bank plc in the UK will not enjoy the protections afforded by the UK regulatory regime. HSBC Bank plc is regulated by the Financial Conduct Authority and the Prudential Regulation Authority. In Australia, this publication has been distributed by The Hongkong and Shanghai Banking Corporation Limited (ABN 65 117 925 970, AFSL 301737) for the general information of its "wholesale" customers (as defined in the Corporations Act 2001). Where distributed to retail customers, this research is distributed by HSBC Bank Australia Limited (ABN 48 006 434 162, AFSL No. 232595). These respective entities make no representations that the products or services mentioned in this document are available to persons in Australia or are necessarily suitable for any particular person or appropriate in accordance with local law. No consideration has been given to the particular investment objectives, financial situation or particular needs of any recipient. This publication is distributed in New Zealand by The Hongkong and Shanghai Banking Corporation Limited, New Zealand Branch incorporated in Hong Kong SAR.

This material is distributed in Japan by HSBC Securities (Japan) Limited. HSBC Securities (USA) Inc. accepts responsibility for the content of this research report prepared by its non-US foreign affiliate. The information contained herein is under no circumstances to be construed as investment advice and is not tailored to the needs of the recipient. All US persons receiving and/or accessing this report and intending to effect transactions in any security discussed herein should do so with HSBC Securities (USA) Inc. in the United States and not with its non-US foreign affiliate, the issuer of this report. In Korea, this publication is distributed by either The Hongkong and Shanghai Banking Corporation Limited, Seoul Securities Branch ("HBAP SLS") or The Hongkong and Shanghai Banking Corporation Limited, Seoul Branch ("HBAP SEL") for the general information of professional investors specified in Article 9 of the Financial Investment Services and Capital Markets Act ("FSCMA"). This publication is not a prospectus as defined in the FSCMA. It may not be further distributed in whole or in part for any purpose. Both HBAP SLS and HBAP SEL are regulated by the Financial Services Commission and the Financial Supervisory Service of Korea. In Singapore, this publication is distributed by The Hongkong and Shanghai Banking Corporation Limited, Singapore Branch for the general information of institutional investors or other persons specified in Sections 274 and 304 of the Securities and Futures Act (Chapter 289) ("SFA") and accredited investors and other persons in accordance with the conditions specified in Sections 275 and 305 of the SFA. Only Economics or Currencies reports are intended for distribution to a person who is not an Accredited Investor, Expert Investor or Institutional Investor as defined in SFA. The Hongkong and Shanghai Banking Corporation Limited, Singapore Branch accepts legal responsibility for the contents of reports pursuant to Regulation 32C(1)(d) of the Financial Advisers Regulations. This publication is not a prospectus as defined in the SFA. This publication is not a prospectus as defined in the SFA. It may not be further distributed in whole or in part for any purpose. The Hongkong and Shanghai Banking Corporation Limited Singapore Branch is regulated by the Monetary Authority of Singapore. Recipients in Singapore should contact a "Hongkong and Shanghai Banking Corporation Limited, Singapore Branch" representative in respect of any matters arising from, or in connection with this report. Please refer to The Hongkong and Shanghai Banking Corporation Limited Singapore Branch's website at www.business.hsbc.com.sg for contact details. HSBC México, S.A., Institución de Banca Múltiple, Grupo Financiero HSBC is authorized and regulated by Secretaría de Hacienda y Crédito Público and Comisión Nacional Bancaria y de Valores (CNBV).

In Canada, this document has been distributed by HSBC Securities (Canada) Inc. (member IIROC), and/or its affiliates. The information contained herein is under no circumstances to be construed as investment advice in any province or territory of Canada and is not tailored to the needs of the recipient. No securities commission or similar regulatory authority in Canada has reviewed or in any way passed judgment upon these materials, the information contained herein or the merits of the securities described herein, and any representation to the contrary is an offense. In Brazil, this document has been distributed by Banco HSBC S.A. ("HSBC Brazil"), and/or its affiliates. As required by Instruction No. 598/18 of the Securities and Exchange Commission of Brazil (Comissão de Valores Mobiliários), potential conflicts of interest concerning (i) HSBC Brazil and/or its affiliates; and (ii) the analyst(s) responsible for authoring this report are stated on the chart above labelled "HSBC & Analyst Disclosures".

Any recommendations contained in it are intended for the professional investors to whom it is distributed. This material is not and should not be construed as an offer to sell or the solicitation of an offer to purchase or subscribe for any investment. HSBC has based this document on information obtained from sources it believes to be reliable but which it has not independently verified; HSBC makes no guarantee, representation or warranty and accepts no responsibility or liability as to its accuracy or completeness. Expressions of opinion are those of HSBC only and are subject to change without notice. From time to time research analysts conduct site visits of covered issuers. HSBC policies prohibit research analysts from accepting payment or reimbursement for travel expenses from the issuer for such visits. The decision and responsibility on whether or not to invest must be taken by the reader. HSBC and its affiliates and/or their officers, directors and employees may have positions in any securities mentioned in this document (or in any related investment) and may from time to time add to or dispose of any such securities (or investment). HSBC and its affiliates may act as market maker or have assumed an underwriting commitment in the securities of any companies discussed in this document (or in related investments), may sell them to or buy them from customers on a principal basis and may also perform or seek to perform banking or underwriting services for or relating to those companies. This material may not be further distributed in whole or in part for any purpose. No consideration has been given to the particular investment objectives, financial situation or particular needs of any recipient. (070905)

If you are an HSBC Private Banking ("PB") customer with approval for receipt of relevant research publications by an applicable HSBC legal entity, you are eligible to receive this publication. To be eligible to receive such publications, you must have agreed to the applicable HSBC entity's terms and conditions ("KRC Terms") for access to the KRC, and the terms and conditions of any other internet banking service offered by that HSBC entity through which you will access research publications using the KRC. Distribution of this publication is the sole responsibility of the HSBC entity with whom you have agreed the KRC Terms.

If you do not meet the aforementioned eligibility requirements please disregard this publication and, if you are a customer of PB, please notify your Relationship Manager. Receipt of research publications is strictly subject to the KRC Terms, which can be found at <https://research.privatebank.hsbc.com/> – we draw your attention also to the provisions contained in the Important Notes section therein.

© Copyright 2020, The Hongkong and Shanghai Banking Corporation Limited, ALL RIGHTS RESERVED. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, on any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of The Hongkong and Shanghai Banking Corporation Limited. MCI (P) 016/02/2020, MCI (P) 087/10/2020.

[1159707]