

# [NEWS RELEASE]

June 8, 2022 SMBC Nikko Securities Inc.

# Quarterly Economic Outlook for FY2022-2023(Update)

June 8, 2022(JST), *"SMBC NIKKO Japan Economic Outlook for FY2022-2023"* has been released, responding to the second preliminary of GDP (January-March 2022 period)

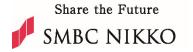
# Gradual Recovery as Covid Lingers

- Real GDP: FY22 +1.9%, FY23 +2.0%
- Nominal GDP: FY22 +1.8%, FY23 +2.7%

# Summary

# • GDP growth outlook

We revise our outlook to reflect the second preliminary Jan-Mar 2022 GDP data. We forecast real GDP growth of +1.9% YoY in FY22 and +2.0% in FY23. We revised our FY22 forecast by -0.2ppt from our previous forecast (23 May) to reflect decline in inventory contribution, and our FY23 forecast by +0.2ppt on upward revision to consumption.



This material is an English translation of Japanese announcement made on June 8, 2022. Although the company intended to faithfully translate the Japanese document into English, the accuracy and correctness of this translation are not guaranteed and thus you are encouraged to refer to the original Japanese document.

# Economic outlook

Real GDP shrank by 0.5% QoQ in Jan-Mar, the first decline in two quarters, reflecting economic restrictions from CV19. Key points ahead will be CV19, faster inflation, and easing supply constraints.

<u>CV19</u>: The mortality rate for CV19 has fallen to about 0.01%, about 1/10 that of influenza. The rate of serious cases is also low at 0.02%. Private consumption was +0.1% QoQ in Jan-Mar despite quasi-emergency and other measures, possibly due to lower CV19 risk. If variants continue to weaken in virulence, the risk of medical collapse falls and economic activity should normalize.

<u>Inflation</u>: Inflation concerns are high now, but we think a slump in consumption due to inflation is unlikely. Households currently have purchasing power of around Y311th but consumption is only around Y293th, leaving Y18th in untapped purchasing power. Assuming this year's inflation rate is +1.6% YoY (consensus), households' real disposable income would decline by about Y5th, but there would be a surplus of Y18th in purchasing power. If we consider the Y47th in excess savings, there is even more leeway. Purchasing power is more than adequate, so we do not expect consumption to be constrained by income.

<u>Supply constraints</u>: Auto production supply constraints continue to curb domestic sales and exports. Semiconductor supply/demand is key and we expect it will gradually loosen as WFH/stay-home high-tech demand fades globally as the Omicron wave subsides, and as global semiconductor majors increase capex.

In sum, we expect a solid recovery in the Japanese economy driven by waning CV19 virulence, sufficient purchasing power to withstand inflation, and easing supply constraints.

# US inflation and rate hikes

<u>Rate hikes</u>: Inflation in the US is not due to overheating demand, but rather a shortage of supply, making it difficult for rate hikes to curb inflation. Meanwhile, services prices account for about 70% of current inflation, but as services are not something you borrow to pay for the impact of rate hikes would be small. As a result, Fed rate hikes may be larger than normal. Markets are currently pricing in a rate hike to 3.22%, but the Taylor Rule implies a hike to 3.6%. Rate hikes are a way to guide the economy to a sustainable growth path, and we do not expect the economy to fall into recession. However, the scale of rate hikes this time around is larger and could have a direct impact on markets.

<u>Forex</u>: If the Fed hiked the FF rate to 3.6%, the US/Japan interest rate differential would widen, and the yen could weaken to around Y135/\$.

###

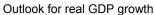
# Quarterly forecasts for Japanese economy

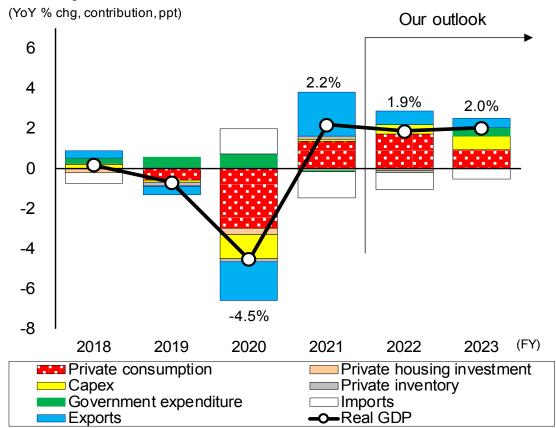
				«A	ctual》←	→ 《Fore	ecasts》							≪A»←	→《F》	(Unit:%)		
	2021				2022			2023 2				2024	2024 FY21	FY22	FY23	Comparison with previous forecasts (as at 23 May 2022)		
	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q				FY22	FY23
Real GDP growth (QoQ)	-0.4	0.6	-0.8	1.0	-0.1	0.5	1.0	0.5	0.5	0.4	0.4	0.5	0.4					
(annual rate)	-1.6	2.6	-3.2	4.0	-0.5	1.8	4.0	2.2	2.2	1.7	1.7	2.0	1.7	2.2	1.9	2.0	-0.2	0.2
Domestic demand, contribution (QoQ)	-0.5	0.9	-0.9	0.9	0.3	0.5	1.0	0.5	0.5	0.4	0.5	0.5	0.5	1.4	2.1	2.0	-0.1	0.1
Private consumption (QoQ)	-0.8	0.7	-1.0	2.4	0.1	1.2	0.9	0.5	0.4	0.3	0.4	0.5	0.4	2.6	3.3	1.7	0.0	0.2
Capex (QoQ)	1.0	1.0	-1.7	-1.1	-1.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	-1.6	-1.7	0.8	-0.1	0.0
Residential investment (QoQ)	0.5	2.0	-2.4	0.1	-0.7	2.0	1.2	1.3	1.2	0.9	0.9	0.9	0.9	0.8	2.8	4.2	0.0	0.0
Public investment (QoQ)	0.0	-3.7	-3.9	-4.7	-3.9	-1.8	0.5	0.8	0.3	0.3	0.3	0.3	0.3	-9.4	-6.6	1.5	0.7	0.5
Foreign demand, contribution (QoQ)	0.1	-0.2	0.1	0.1	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	-0.2	-0.1	0.1	0.0
Exports (QoQ)	2.6	2.8	-0.3	0.9	1.1	1.0	1.0	0.7	0.6	0.6	0.6	0.6	0.6	12.5	3.6	2.6	0.0	0.0
Imports (QoQ)	1.8	4.3	-0.8	0.3	3.3	0.8	0.8	0.6	0.5	0.5	0.8	0.8	0.8	7.2	4.3	2.6	-0.5	-0.3
Nominal GDP growth (QoQ)	-0.7	0.4	-1.1	0.3	0.2	0.4	1.1	0.6	1.0	0.7	0.4	0.5	0.5	1.2	1.8	2.7	-0.2	0.2
Industrial production (YoY)	-1.8	18.4	6.6	1.1	-0.6	1.6	4.5	4.8	6.1	4.6	4.6	4.6	4.1	5.9		4.4	0.0	0.0
Trade balance (Y tn, SAAR)	2.9	-0.4	-3.5	-5.3	-11.8	-14.9	-14.2	-14.2	-10.6	-8.2	-8.5	-8.2	-8.0	-5.2	-13.5	-8.2	0.5	0.8
Unemployment rate (%)	2.9	2.9	2.8	2.7	2.7	2.5	2.5	2.4	2.4	2.3	2.3	2.2	2.2	2.8	2.4	2.2	-0.2	-0.2
Core CPI (YoY)	-0.5	-0.6	0.0	0.4	0.6	2.1	1.8	1.8	1.0	0.5	0.5	0.6	0.8	0.1	1.7	0.6	0.3	0.0
IOER (Eop)	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.0	0.0
YCC 10y JGB yields target (Eop)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
US real GDP growth (QoQ annualized)	6.3	6.7	2.3	6.9	-1.5	3.2	2.7	2.5	2.0	2.0	2.0	2.0	2.0	5.7	2.7	0.0	0.0	0.0
US unemployment rate (%)	6.2	5.9	5.1	4.2	3.8	3.6	3.5	3.4	3.5	3.5	3.5	3.5	3.5	5.4	3.6	0.0	-0.1	0.0
US core CPI (YoY)	1.4	3.7	4.1	5.0	6.3	6.0	5.2	4.8	4.2	3.6	3.8	4.0	4.1	3.6	5.6	0.0	0.0	0.0
Fed rate (Eop)	0.125	0.125	0.125	0.125	0.375	1.375	2.375	2.875	3.375	3.375	3.375	3.375	3.375	0.125	2.875	3.375	0.0	0.00

Assumptions: Forex rate (annual mean): Y132/\$ in FY22 and Y128/\$ in FY23. Crude oil price (WTI annual mean): \$93/bbl in FY22 and \$85/bbl in FY23.

Notes: US GDP on a calendar basis, US unemployment rate is the average for the period, FF rate is at end of year.

Sources: Cabinet Office, Ministry of Internal Affairs and Communications, Ministry of Economy, Trade and Industry, and Bank of Japan, SMBC NIKKO estimates





Sources: Cabinet Office, SMBC NIKKO estimates

## APPENDIX

This research was prepared by non-U.S. analysts employed by SMBC Nikko Securities Inc., an unregistered broker-dealer located in Japan that is not a member of FINRA or SIPC. "SMBC NIKKO" refers to SMBC Nikko Securities, Inc., its affiliate SMBC Nikko Securities America, Inc. ("SI"), a registered U.S. broker-dealer and member firm of FINRA and SIPC, and their other affiliates, as applicable by law. To the extent a non-U.S. analyst(s) was involved in the preparation of this research report, whether in whole or in part, he or she is not registered/qualified as a research analyst with FINRA. Any such non-U.S. analyst may not be an associated person of SI and therefore may not be subject to FINRA Rule 2241 and 2242 restrictions on communications with a subject company, public appearances and trading securities held in a research analyst account.

By acceptance of this report, each investor agrees that it will not distribute or provide this report to any other person. Any person in the US receiving this report, or any other US person, who would like to trade any of the securities discussed in this report should contact SI. SI accepts responsibility for the content of this report when distributed in the US or to US persons.

### ANALYST'S CERTIFICATION

Each analyst shown on the first page of this research report prepared and issued by SMBC NIKKO is primarily responsible for the preparation and content of this research report. Each analyst certifies that the opinions contained herein accurately reflect the analyst's individual views for the subject securities and issuers. Each analyst also certifies that no part of the analyst's compensation was in the past, at present, or in the future, directly or indirectly related to the specific recommendations or views expressed in this research report.

### DISTRIBUTION OF INVESTMENT RATINGS

The following table shows (1) the distribution of investment ratings for all SMBC NIKKO coverage universe stocks and (2) the proportions of stocks of each rating to which SMBC NIKKO has provided investment banking (IB) services within the past 12 months (updated as of 07 June, 2022)

	1-Outperform	2-Neutral	3-Underperform	Others
(1) Companies under coverage	40%	56%	3%	2%
(2) Proportion of stocks of each rating in (1) with IB relationships	31%	30%	24%	20%

Note: For the purposes of mandatory regulatory disclosures, 1-Outperform corresponds to a "buy" rating, 2-Neutral to a "hold" rating, and 3-Underperform to a "sell" rating. However, SMBC NIKKO investment ratings are assigned relative to an analyst or analyst team's sector coverage as defined below and are thus different from "buy", "hold", and "sell" ratings as defined by FINRA. "Others" refers to Not Rated, Rating Suspended, and Restricted stocks.

# EXPLANATION OF TARGET PRICES AND STOCK RATINGS

Target prices assigned by research analysts reflect the estimated share price level the analyst forecasts the stock to reach within the next six to12 months. For valuation methodology and risks, please refer to the report or web disclosure: https://researchdirect.smbcnikko.co.jp/disclosure/disclosure.php

Each coverage stock is assigned an investment rating relative to the analyst or analyst team's coverage sector universe which encompasses said stock. Investment ratings are defined as below; the effective rating period is six to 12 months.

1-Outperform:	An individual stock's investment return, as forecast by the research analyst, is expected to exceed the median investment return of all stocks within the coverage universe.
2-Neutral:	An individual stock's investment return, as forecast by the research analyst, is expected to be in line with the median investment return of all stocks within the coverage universe.
3-Underperform:	An individual stock's investment retum, as forecast by the research analyst, is expected to be below the median investment return of all stocks within the coverage universe.
NR:	Not Rated
RS:	Rating Suspended
Sector ratings are def	ined as below; the effective rating period is six to 12 months. The market as it pertains to Japan is TOPIX.
Overweight:	The investment return of the sector coverage universe, as forecast by the research analyst, is expected to exceed the market average.
Equal weight:	The investment return of the sector coverage universe, as forecast by the research analyst, is expected to be in line with the market average.
Underweight:	The investment return of the sector coverage universe, as forecast by the research analyst, is expected to be below the market average.

Individual stock/sector recommendations and share price forecasts contained in SMBC NIKKO's technical analysis reports are based on a variety of technical analysis techniques that take historical share price performance, position analysis, and other technical factors into consideration, but are not based on a fundamental analysis of those stocks/sectors in question. Accordingly, stock/sector recommendations and share price forecasts based on the technical analysis of individual stocks/sectors that are also within the SMBC NIKKO fundamental equity research coverage universe do not necessarily correspond to, nor are intended to match, respectively, the fundamental investment/sector ratings and target prices determined by SMBC NIKKO's fundamental equity research analysts responsible for covering those same stocks/sectors.

#### **OTHER IMPORTANT US DISCLOSURES**

Analyst compensation, including the compensation of the analyst(s) directly involved in the preparation of this report, is based upon (among other factors) the overall profitability of SMBC NIKKO, which includes the overall profitability of investment banking services.

SMBC NIKKO is not aware of any other material conflict of interest of the research analyst or SMBC NIKKO that the research analyst or an associated person of SMBC NIKKO with the ability to influence the content of this research report knows or has reason to know at the time of the publication or distribution of this report.

The information contained herein is derived from sources that SMBC NIKKO believes to be reliable, but SMBC NIKKO does not guarantee the accuracy or completeness of said information. In some cases, such information may be incomplete or summarized. Prices, numbers, and similar data contained herein include past results, estimates, and forecasts, all of which may differ from actual data. These prices, numbers, and similar data may also change without prior notification. This research report does not guarantee future performance, and the information contained herein should, for whatever purpose, be used solely at the discretion and responsibility of the client.

This research report has been produced by SMBC NIKKO for informational purposes only. It does not constitute solicitation of the sale or purchase of securities or other investments. SMBC NIKKO does not accept any liability or responsibility for any results in connection with the use of such information. This research report does not take into account specific financial situations, needs, or investment objectives of any client, and it is not intended to provide tax, legal, or investment advice. Clients are responsible for making final investment decisions and should do so at their own discretion after careful examination of all documentation delivered prior to execution, explanatory documents pertaining to listed securities, etc., prospectuses, and other relevant documents. In the US the report is intended for distribution solely to institutional investors.

Non-research departments of SMBC NIKKO may provide commentary to clients and their proprietary trading departments that are inconsistent with or incompatible with investments or opinions recommended in this research report. SMBC NIKKO may make investment decisions on the basis of such commentary. In addition, SMBC NIKKO and its employees may trade in the securities mentioned in this research report, their derivatives, or other securities issued by the same issuing companies in this research report.

### OTHER IMPORTANT NON-US DISCLOSURES

This research report has been produced by SMBC NIKKO for informational purposes only. It does not constitute solicitation of the sale or purchase of securities or other investments. SMBC NIKKO does not accept any liability or responsibility for any results in connection with the use of such information. This research report does not take into account specific financial situations, needs, or investment objectives of any client, and it is not intended to provide tax, legal, or investment advice. Clients are responsible for making final investment decisions and should do so at their own discretion after careful examination of all documentation delivered prior to execution, explanatory documents pertaining to listed securities, etc., prospectuses, and other relevant documents. Non-research departments of SMBC NIKKO may provide commentary to clients and their proprietary trading departments that are inconsistent with or incompatible with investments or opinions recommended in this research report. SMBC NIKKO may make investment decisions on the basis of such commentary. In addition, SMBC NIKKO, as well as its employees, may trade in the securities mentioned in this research report, their derivatives, or other securities issued by the same issuing companies in this research report. SMBC NIKKO is not a party to an agreement with the issuer(s) relating to production of a recommendation.

This research report is distributed by SMBC NIKKO. The information contained herein is for client use only. SMBC Nikko Securities Inc. holds the copyright on this research report. Any unauthorized use or transmission of any part of this research report for any reason, whether by digital, mechanical, or any other means, is prohibited. If you have any questions, please contact your sales representative. Additional information is available upon request

Certain company names, product and/or service names that appear in this research report are trademarks or registered trademarks of SMBC NIKKO or other companies mentioned in the report.

### Important notes concerning Article 37 of the Financial Instruments and Exchange Act (Advertising Regulations, etc.)

**Commissions** (below figures do not apply to certain customers, such as non-residents in Japan and professional investors under FIEA, for whom commissions are set on an individual basis)

When a trade is executed based on information contained in this research report, a predetermined brokerage commission may be charged. For example, when an order is placed at a branch to buy or sell a stock or other security on a securities exchange in Japan (with the exception of odd-lot remainders), a commission of up to a maximum of 1.265% of the contract settlement amount (Note: The minimum commission is 5,500 yen) is charged to the client for each product trade executed. Clients will only be charged for the purchase price of a bond, stock or other security in trades executed as part of a primary offering, secondary distribution, or with a counterparty (Note: In the case of bonds, the trade may require that the client pay accrued interest if separate from the purchase price). For trades involving products denominated in foreign currencies, an exchange of products denominated in yen and another currency, or an exchange of products denominated in different currencies, the applicable exchange rate will be determined by SMBC Nikko Securities Inc. For fees mentioned above that are subject to consumption tax, the rates and amounts include the consumption tax portion.

#### Risks

Each product entails the risk of a partial loss of the amount of invested capital (the risk of a partial loss of principal) or a loss equal to or greater than the amount of invested capital (the risk of a loss equal to or exceeding principal) due to a variety of factors, which may include price variance and fluctuations in stock markets, interest rates, exchange rates, real estate markets, and commodity markets, and deterioration in the creditworthiness (including the financial and management condition) of issuers of securities. When executing margin or derivative transactions ("derivatives"), there is a risk the amount of derivatives transaction exposure could exceed the client's margin collateral or margin deposit ("margin collateral amount"), and there is also a risk of loss exceeding the client's margin collateral should prices of securities or values of indexes underlying such transactions fluctuate (the risk of a loss equal to or exceeding principal). When executing over-the-counter derivative transactions, there may be a spread between the ask and bid prices on financial instruments quoted by SMBC Nikko Securities Inc. For asset-backed securities, interest, dividends, repayment of principal and other elements may be affected by changes in conditions in certain assets. Such changes may result in losses relating to early sale or redemption of such assets.

Aforementioned commissions and risks differ by financial instrument and clients should carefully examine all relevant documentation, including documentation delivered prior to execution, prospectuses, and other material provided. Clients may contact any SMBC Nikko Securities Inc. branch for questions regarding such documentation.

#### Company Name

SMBC Nikko Securities Inc. is a financial instruments dealer governed by the Financial Instruments and Exchange Act, registered with the Kanto Local Finance Bureau, Registration No. 2251.

#### **Member Associations**

SMBC Nikko Securities Inc. is a member of the Japan Securities Dealers Association, the Japan Investment Advisers Association, the Financial Futures Association of Japan, the Type II Financial Instruments Firms Association, and the Japan Security Token Offering Association.

#### **Regional Specific Disclosures**

Reports sent to clients outside Japan are intended only for institutional investors. The definition of 'institutional investor' varies from country to country. Neither this research report nor the information contained in it is intended to be an offer, an inducement or an attempt to induce any person to enter into any agreement to acquire, dispose of, subscribe for or underwrite securities.

**Canada** Under no circumstances should this material be construed as an offer or sale of securities. This material is a general discussion of the merits and risks of a security or securities only, and is not in any way meant to be tailored to the needs and circumstances of any recipient. This material is not a recommendation to purchase a specific security, service, or product and should not be construed as such.

Hong Kong This research report is distributed by SMBC Nikko Securities (Hong Kong) Limited and is intended to be distributed to professional investors (as defined in the Securities and Futures Ordinance and its subsidiary legislation) only.

**China** The distribution of this research report has not been licensed or approved by the Chinese Securities and Regulatory Commission and this research report is not meant to be distributed in China directly or indirectly to investors in China, except that, subject to the applicable laws and regulations, this research report will be sent to certain investors in China on an invitation basis. Chinese investors making investments outside China may be subject to foreign exchange control approvals and filing requirements under the relevant Chinese foreign exchange regulations, as well as offshore investment approval requirements.

Taiwan The distribution of this research report from the jurisdiction outside of Taiwan has not been licensed or approved by the regulators of Taiwan.

U.K., Europe, Middle East and Africa ("EMEA") This material and any attached presentations from third parties is distributed within the EMEA region by SMBC Nikko Capital Markets Limited ("CMLN") or SMBC Nikko Capital Markets Europe GmbH ("CMFRA"). For the avoidance of doubt, unless otherwise specifically agreed with the relevant client, distribution to any UK incorporated client is made by CMLN only. The materials contains the current opinions of the writer but not necessarily of CMLN and CMFRA (as applicable). CMLN and CMFRA may or may not own the securities referenced and, if such securities are owned, no representation is being made that such securities will continue to be held. SMBC Nikko Capital Markets Limited, One New Change, London EC4M 9AF, tel +44 (0)20 3527 7000. Registered in England No.02418137. Authorised and regulated by the Financial Conduct Authority, 12 Endeavour Square, London, E20 1JIN.

### http://www.smbcnikko-cm.com/corporate/our-policies/mifid-ii.html

SMBC Nikko Capital Markets Europe GmbH is a company incorporated under the laws of Germany (HRB 110304 AG Frankfurt) and has its registered office at Neue Mainzer Straße 52-58, 60311 Frankfurt, Germany. The company is authorised and regulated by the Federal Financial Supervisory Authority (Bundesanstalt für Finanzdienstleistungsaufsicht ("BaFin")). http://www.de.smbcnikko-cm.com/our-policies.html

**United Arab Emirates:** This information does not constitute or form part of any offer to issue or sell, or any solicitation of any offer to subscribe for or purchase, any securities or investment products in the UAE (including the Dubai International Financial Centre) and accordingly should not be construed as such. Furthermore, this information is being made available on the basis that the recipient acknowledges and understands that the entities and securities to which it may relate have not been approved, licensed by or registered with the UAE Central Bank, Emirates Securities and Commodities Authority or the Dubai Financial Services Authority or any other relevant licensing authority or governmental agency in the UAE. The content of this report has not been approved by or filed with the UAE Central Bank or Dubai Financial Services Authority.

Hong Kong (in respect of recipients who are Private Wealth clients of SMBC Nikko Securities (Singapore) Pte Ltd.) This research report is distributed by SMBC Nikko Securities (Singapore) Pte Ltd., which is an entity licensed with the Monetary Authority of Singapore, from Singapore. It is intended to be distributed to professional investors (as defined in the Securities and Futures Ordinance and its subsidiary legislation) only. The report has been provided solely at the recipient 's request for informational purposes only and shall not be copied or redistributed to any other person without the prior written consent of SMBC Nikko Securities, Inc. or its affiliates.

**Singapore** This research report is distributed by SMBC Nikko Securities (Singapore) Pte Ltd. ("NKSG"), an exempt financial adviser as defined under the Financial Advisers Act (Cap 110) ("FAA") of Singapore, among other things, and regulated by the Monetary Authority of Singapore. NKSG may distribute this research report produced by its foreign affiliates pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations ("FAR"). By accepting this research report, the recipient confirms they are an "institutional investor", "accredited investor" and/or "expert investor" (each as defined under the FAR) and agree to be bound by the foregoing limitations. The recipient acknowledges that NKSG is exempted from complying with certain compliance requirements under the FAA, the FAR and the relevant Notices and Guidelines issued thereunder, in respect of any financial advisory service which NKSG may provide. These include exemptions from complying with:(i) Section 25 of the FAA (pursuant to Regulation 33(1) of the FAR); (ii) Section 27 of the FAA (pursuant to Regulation 34(1) of the FAR); (ii) Section 36 of the FAA (pursuant to Regulation 35(1) of the FAR). Neither this research report nor the information contained in it is intended to be an offer to make with any person, or to induce or attempt to induce any person to enter into or to offer to enter into any agreement for or with a view to acquiring, disposing of, subscribing for or underwriting securities in Singapore. Recipients of this research report in Singapore should contact NKSG in respect of any matters arising from, or in connections with, this research report.

Thailand This research report is intended for the recipient only and no other person may act upon it. It has been provided solely at the request of the recipient for informational purposes only and shall not be copied or redistributed to any other person without the prior consent of SMBC Nikko Securities, Inc. or its affiliates. No information has been approved or registered with the Securities and Exchange Commission of Thailand or any other regulatory authorities of Thailand. It is not intended to be and in no way constitutes an offer, solicitation, advertisement, invitation for subscription, sale, or advice of, or in relation to, the relevant securities or products specified herein, or a solicitation to use any services, by SMBC Nikko Securities, Inc. or its affiliates in Thailand. Neither SMBC Nikko Securities, Inc., any of its representatives, directors, employees, nor any other entities involved with SMBC Nikko Securities, Inc. make any representations or warranties, expressed or implied, with respect to the oral port, the information contained in this research report or any other information, whether communicated in written oral form, transferred or made available to the recipients.

**Malaysia** This research report is distributed in Malaysia on a cross-border basis. Any services provided to residents of Malaysia are provided solely on an offshore basis from outside Malaysia, as a result of "reverse enquiry" on the part of the Malaysian residents arising from a specific request to provide such services and thus this research report is not to be further distributed. As an integral part of the provision of such services from outside Malaysia, SMBC Nikko Singapore may from time to time make available to such residents documents and information making reference to capital markets products in such documents and information and nothing in this report constitutes the making available, or offer for subscription or purchase, or invitation to subscribe for or purchase, or sale of the products described therein in Malaysia. The distribution of this report and the material therein has not been reviewed or approved by the Securities Commission of Malaysia.

Indonesia The information in this research report contains general information only and shall not be in any way construed as an offer or sale or recommendation to purchase or subscribe for any specific securities (as defined in the Indonesian capital markets laws and regulations), or any financial services or products within Indonesian territories. It is not in any way meant to be tailored to the needs and circumstances of any recipient. The content of this research report is neither licensed, approved, nor confirmed (on its validity or adequacy), by the relevant authorities in Indonesia.

Clients may request all relevant and current disclosures by contacting a SMBC NIKKO or branch representative, or by sending a request to the following postal address: Equity Research Division, SMBC Nikko Securities Inc., 1-5-1 Marunouchi, Chiyoda-ku, Tokyo, 100-6519