

2023 Institutional Investor All-Asia Research Team Survey

We challenge our analysts to be curious and creative in their analysis of companies, and to provide our clients with first-class service.

> Please recognize Nomura's research efforts by voting for our teams in the 2023 All-Asia Institutional Investor Awards.

> > Voting starts now



Introduction

Nomura's Asia-Pacific research team has over 200 professionals, spanning twelve countries from our home in Japan. Nomura is your natural partner for all Japan-related intelligence including political, economic, corporate and social institutions. Beyond Japan, Nomura sees the Asia-Pacific as our home market extension. Our roots in these complementary markets date back some fifty years.

Our fixed-income research team covers economics, FX, rates and quantitative strategies. This team provides forecasts on macro-economies and thought leadership on fundamental ideas. Our value proposition covers three areas: First, impactful research. Nomura aims to be one of the first in the market to publish views on freshly released economic data via our First Insights reports. Second, collaborative studies. Our economists and strategists work very closely together and co-author Asia Insights reports on the implications of new data or breaking events. Third, the team publishes close to twenty Asia Special Reports each year. These reports consider fundamental, longer-term thematic research ideas.

Nomura's APAC equity research team covers over 1,200 stocks in the region and regards itself as a market leader in a number of sectors including Industrials, TMT and Consumer. Our holistic views are often presented in our flagship Anchor Report products. These are designed to give investors more detailed industry knowledge that can help them formulate investment decisions. Our own readership data consistently advises us that this product captures most investors' attention. Our recent Anchor Reports include our 2023 APAC Equity Strategy Outlook. This report highlights a double digit gain for APAC equities as an asset class in 2023.

Nomura recognizes that investors can access a lot of information from sources that can compete with equity research products. For this reason, Nomura is pivoting its products to 'idea-driven material'. This requires our analysts to give informed opinions on industries and issuers rather than simply echo the views of company management.

Our analysts are mandated with shifting the financial discussion beyond the income statement. We think investors can be overly dependent on metrics such as EPS, which can be easily manipulated. Nomura encourages its analysts to look at company balance sheets and reconcile cash-flows from one financial year to the next. As many fund managers embrace ESG investing, we also ask our analysts to consider the role of other stakeholders of the business. This will help analysts challenge the capital allocation decisions of management and generate a considered debate over shareholder priorities.

In addition to the preparation of robust fundamental research, Nomura requires its analysts to consider the role of Japan and how it affects companies, industries and countries in the wider Asia-Pacific. We have constructed a research identity that we have named "Kokoro". "Kokoro" is a Japanese word which means "heart" in an emotional sense. Our depth of understanding of Japan is one of our strongest cards, and we mandate our analysts in the wider Asia-Pacific region to explore Japanese linkages and relevance when evaluating investment cases for listed equities. Our analysts have drawn parallels between post-bubble Japan and investor concerns in present day China and Korea. These relate to demographics, exchange rate management, trade wars and capital flight. Our Korea research team has extensively analyzed corporate governance reform prospects in Korea based on implementation of the Stewardship Code in Japan. Here, Korea and Japan have similar structures, agencies and norms, which lead to a compelling case for comparative analysis.

We see a significant change in how investors view APAC markets in the coming years. This change pivots around how major index providers classify markets. The convention of sub-dividing APAC into Asia ex-Japan and Japan will disintegrate in the next few years. This, we believe will be replaced by a single APAC equity asset class that is dominated by China in 2023. Against this background, we are tasking our analysts to view companies through a wider APAC lens, as we see companies in each sector competing and cooperating at local levels in all APAC markets.

We hope to develop our product offering in 2023 by addressing topical themes and filtering our vision through to stock selection. Our expertise in Japan will be championed to identify precedents or trends that can traverse geographies and lead stock selection in other proximate markets.

Nomura's research team is tasked with the preparation of creative and imaginative content that challenges convention. Our undertaking is to give our clients a considered opinion rather than historic commentary. We are confident that Nomura's research will make sense of the intricacies of the Asia-Pacific region. We welcome your feedback.

CW Chung Joint-Head of APAC Equity Research +82 2 3783 2333 / cwchung@nomura.com Masataka Kunugimoto Joint-Head of APAC Equity Research +81 3 6703 1163 / Masataka.kunugimoto@nomura.com

Table of Contents

ii

Research Management	1
Equity Analysts	2
China / Hong Kong	3
India	6
Malaysia	8
Singapore	9
South Korea	10
Taiwan	12
Thailand	13



Analysts by Sector

	Name	Phone	e-mail
Research Management			
Head of Global Research	Hideo Kitano	81 3 6703 1800	hideo.kitano@nomura.com
Joint-Head of APAC Equity Research	CW Chung	82 2 3783 2312	cwchung@nomura.com
Joint-Head of APAC Equity Research	Masataka Kunugimoto	81 3 6703 1163	masataka.kunugimoto@nomura.com
Equity Strategy			
Asia-Pacific	Chetan Seth, CFA	65 6433 6986	chetan.seth1@nomura.com
India	Saion Mukherjee	91 22 4037 4184	saion.mukherjee@nomura.com
India	Neelotpal Sahu	91 22 4037 4023	neelotpal.sahu1@nomura.com
Malaysia	Tushar Mohata, CFA	60 3 2027 6895	tushar.mohata@nomura.com
South Korea	CW Chung	82 2 3783 2312	cwchung@nomura.com
South Korea	Jung Cho	822 3783 2332	jung.cho@nomura.com
Autos & Auto Parts			
China	Joel Ying, CFA	852 2252 2153	joel.ying@nomura.com
India	Kapil Singh	91 22 4037 4199	kapil.singh@nomura.com
India	Siddhartha Bera, CFA	91 22 4037 4362	siddhartha.bera@nomura.com
South Korea	Angela Hong	82 2 3783 2360	angela.hong@nomura.com
Basic Materials			
India	Priyankar Biswas, CFA	91 22 4037 4992	priyankar.biswas@nomura.com
South Korea	Cindy Park	82 2 3783 2324	cindy.park@nomura.com
Southeast Asia	Ahmad Maghfur Usman	60 3 2027 6892	ahmad.maghfurusman@nomura.com
Consumer			
China / Hong Kong	Cathy Xiao	852 2252 6177	cathy.xiao@nomura.com
India	Mihir Shah	91 22 403 74232	mihir.shah1@nomura.com
Malaysia / Singapore	Tushar Mohata, CFA	60 3 2027 6895	tushar.mohata@nomura.com
South Korea	Cara Song	82 2 3783 2328	cara.song@nomura.com
Thailand	Thanatcha Jurukul	66 2 081 2799	thanatcha.jurukul.1@nomura.com
Financials (Banks, Insurance and	d non-bank financials)		
China / Hong Kong	Shengbo Tang	852 2252 6210	shengbo.tang@nomura.com
Malaysia	Tushar Mohata, CFA	60 3 2027 6895	tushar.mohata@nomura.com
Healthcare & Pharmaceuticals			
China / Hong Kong	Jialin Zhang, CFA, CPA	852 2252 6134	jialin.zhang@nomura.com
China / Hong Kong	John Nie	852 2252 6197	john.nie@nomura.com
India	Saion Mukherjee	91 22 4037 4184	saion.mukherjee@nomura.com
0 11 17	0	82 2 3783 2328	
South Korea	Cara Song	02 2 3103 2320	cara.song@nomura.com

Analysts by Sector (cont'd)

	Name	Phone	e-mail
Industrials			
China / Hong Kong	Frank Fan	852 2252 2195	frank.fan@nomura.com
India	Priyankar Biswas, CFA	91 22 4037 4992	priyankar.biswas@nomura.com
India	Neelotpal Sahu	91 22 4037 4023	neelotpal.sahu1@nomura.com
Malaysia	Tushar Mohata, CFA	60 3 2027 6895	tushar.mohata@nomura.com
Southeast Asia	Ahmad Maghfur Usman	60 3 2027 6892	ahmad.maghfurusman@nomura.com
South Korea	Eon Hwang	82 2 3783 2318	eon.hwang@nomura.com
Internet / Media			
China	Jialong Shi	852 2252 1409	jialong.shi@nomura.com
China	Thomas Shen	852 22521400	thomas.shen@nomura.com
India	Abhishek Bhandari	91 22 4037 4120	abhishek.bhandari@nomura.com
South Korea	Angela Hong	82 2 3783 2360	angela.hong@nomura.com
Oil & Gas and Chemicals			
Southeast Asia	Ahmad Maghfur Usman	60 3 2027 6892	ahmad.maghfurusman@nomura.com
India	Hemang Khanna	91 22 4037 4022	hemang.khanna@nomura.com
South Korea	Cindy Park	82 2 3783 2324	cindy.park@nomura.com
Power & Utilities			
Malaysia	Ahmad Maghfur Usman	60 3 2027 6892	ahmad.maghfurusman@nomura.com
South Korea	Cindy Park	82 2 3783 2324	cindy.park@nomura.com
Property			
China	Jizhou Dong	852 2252 1554	jizhou.dong@nomura.com
China	Stella Guo	852 2252 1419	stella.guo@nomura.com
Technology			
Asia Pacific	David Wong, CFA, Ph.D.	65 6433 9617	david.wong1@nomura.com
Greater China	Aaron Jeng, CFA	886 2 2176 9962	aaron.jeng@nomura.com
Greater China	Anne Lee, CFA	886 2 2176 9966	anne.lee@nomura.com
Greater China	Donnie Teng	852 2252 1439	donnie.teng@nomura.com
China	Joel Ying, CFA	852 2252 2153	joel.ying@nomura.com
China	Bing Duan	852 2252 2141	bing.duan1@nomura.com
China	Ethan Zhang	852 2252 2157	ethan.zhang@nomura.com
India	Abhishek Bhandari	91 22 4037 4120	abhishek.bhandari@nomura.com
Malaysia	Heng Siong Kong	603 2027 6894	hengsiong.kong@nomura.com
South Korea	CW Chung	82 2 3783 2312	cwchung@nomura.com
South Korea	Jung Cho	822 3783 2332	jung.cho@nomura.com
Telecommunications			
China	Bing Duan	852 2252 2141	bing.duan1@nomura.com
Hong Kong	Ethan Zhang	852 2252 2157	ethan.zhang@nomura.com
Malaysia	Heng Siong Kong	603 2027 6894	hengsiong.kong@nomura.com
South Korea	Angela Hong	82 2 3783 2360	angela.hong@nomura.com



Analysts by Country

	Name	Phone	e-mail
Research Management			
Head of Global Research	Hideo Kitano	81 3 6703 1800	hideo.kitano@nomura.com
Joint-Head of APAC Equity Research	CW Chung	82 2 3783 2333	cwchung@nomura.com
Joint-Head of APAC Equity Research	Masataka Kunugimoto	81 3 6703 1163	masataka.kunugimoto@nomura.com
Hong Kong			
Consumer	Cathy Xiao	852 2252 6177	cathy.xiao@nomura.com
Healthcare & Pharmaceuticals	Jialin Zhang, CFA, CPA	852 2252 6134	jialin.zhang@nomura.com
Healthcare & Pharmaceuticals	John Nie	852 2252 6197	john.nie@nomura.com
Insurance, Banks and non-bank financials	Shengbo Tang	852 2252 6210	shengbo.tang@nomura.com
Internet / Media	Jialong Shi	852 2252 1409	jialong.shi@nomura.com
Internet / Media	Thomas Shen	852 22521400	thomas.shen@nomura.com
Property	Jizhou Dong	852 2252 1554	jizhou.dong@nomura.com
Property	Stella Guo	852 2252 1419	stella.guo@nomura.com
Technology (Semiconductors)	Donnie Teng	852 2252 1439	donnie.teng@nomura.com
Technology (Semiconductors)	Aaron Jeng, CFA	886 2 2176 9962	aaron.jeng@nomura.com
Technology (Hardware)	Anne Lee, CFA	886 2 2176 9966	anne.lee@nomura.com
Technology / Telecommunications	Bing Duan	852 2252 2141	bing.duan1@nomura.com
Technology / Telecommunications	Ethan Zhang	852 2252 2157	ethan.zhang@nomura.com
Technology / Autos and Auto Parts	Joel Ying, CFA	852 2252 2153	joel.ying@nomura.com
India			
Head of India equity research,	Saion Mukherjee	91 22 4037 4184	saion.mukherjee@nomura.com
Healthcare / Strategy	Saion Mukherjee	91 22 4037 4184	saion.mukherjee@nomura.com
Strategy / Industrials	Neelotpal Sahu	91 22 403 74023	neelotpal.sahu1@nomura.com
Autos & Auto Parts / Media	Kapil Singh	91 22 4037 4199	kapil.singh@nomura.com
Autos & Auto Parts / Digital Commerce	Siddhartha Bera, CFA	91 22 4037 4362	siddhartha.bera@nomura.com
Consumer	Mihir Shah	91 22 403 74232	mihir.shah1@nomura.com
Tech / IT services & Software, Internet	Abhishek Bhandari	91 22 4037 4120	abhishek.bhandari@nomura.com
ndustrials / Metals	Priyankar Biswas, CFA	91 22 4037 4992	priyankar.biswas@nomura.com
Oil & Gas	Hemang Khanna	91 22 4037 4022	hemang.khanna@nomura.com
Malaysia			
Head of Malaysia equity research, Financials / Gaming / Construction	Tushar Mohata, CFA	60 3 2027 6895	tushar.mohata@nomura.com
Transport & Logistics / Energy & Chemi- cals / Materials / Utilities / Industrials	Ahmad Maghfur Usman	60 3 2027 6892	ahmad.maghfurusman@nomura.com
Technology / Telecoms / Rubber Gloves	Heng Siong Kong	603 2027 6894	hengsiong.kong@nomura.com

Analysts by Country

	Name	Phone	e-mail
Singapore			
Equity Strategy (Asia Pacific)	Chetan Seth, CFA	65 6433 6986	chetan.seth1@nomura.com
Asia Pacific Technology Strategy	David Wong, CFA, Ph.D	65 6433 9617	david.wong1@nomura.com
Gaming	Tushar Mohata, CFA	60 3 2027 6895	tushar.mohata@nomura.com
Transport & Logistics / Industrials	Ahmad Maghfur Usman	60 3 2027 6892	ahmad.maghfurusman@nomura.com
South Korea			
Joint-Head of APAC equity research, Technology (Semiconductors/Hardware) / Strategy	CW Chung	82 2 3783 2312	cwchung@nomura.com
Technology (Semiconductors/Hardware) / Strategy	Jung Cho	822 3783 2332	jung.cho@nomura.com
Head of Korea equity research, Head of Asia Energy	Cindy Park	82 2 3783 2324	cindy.park@nomura.com
Autos / Internet / Telecommunications	Angela Hong	82 2 3783 2360	angela.hong@nomura.com
Consumer / Healthcare	Cara Song	82 2 3783 2328	cara.song@nomura.com
Industrials	Eon Hwang	82 2 3783 2318	eon.hwang@nomura.com
Taiwan			
Head of Taiwan equity research, Technology (Semiconductors)	Aaron Jeng, CFA	886 2 2176 9962	aaron.jeng@nomura.com
Technology (Hardware)	Anne Lee, CFA	886 2 2176 9966	anne.lee@nomura.com
Technology (Semiconductors/Hardware)	Donnie Teng	852 2252 1439	donnie.teng@nomura.com
Small/mid-caps (Technology/Non-Tech)	Kenny Chen	886 2 2176 9978	kenny.chen@nomura.com
Thailand			
Healthcare / Consumer-related	Thanatcha Jurukul	66 2 081 2799	thanatcha.jurukul.1@nomura.com
Industrials / Energy	Ahmad Maghfur Usman	60 3 2027 6892	ahmad.maghfurusman@nomura.com
Industrials / Energy & Chemicals / Transport & Logistics	Ahmad Maghfur Usman	60 3 2027 6892	ahmad.maghfurusman@nomura.com



Research Management



Hideo Kitano

Senior Managing Director, Nomura Securities Global Head of Research Content Company +81 3 6703 1800 / hideo.kitano@nomura.com

Hideo Kitano was appointed Global Head of Research in May 2021. Previously, Mr. Kitano was assigned as Head of Global Equities in October 2018. He was appointed Senior Managing Director in April 2017 and relocated to London as Co-Head of Global Markets, EMEA. Prior to that, he was Head of Credit Trading and Head of Global Markets Structuring within the Global Markets Division in Japan. He also was Deputy Global Head of Structured Fixed Income. Mr. Kitano started his career at Nomura Research Institute in 1993 and was seconded to Nomura Securities in 1995. After formally joining Nomura Securities in 1998, Mr. Kitano served in roles across many key areas in Global Markets: Quantitative Research, Sales, Trading, and Structuring across various asset classes such as Credit, Rates, FX, and Equity. During his career at Nomura Securities, Mr. Kitano has held various senior roles at Nomura Capital Investment, Japan, and Nomura International, London. Years in industry: 34 years

Qualifications: BE and ME in Precision Engineering (Kyoto University, Japan)



CW Chung

Joint-Head of APAC equity research +82 2 3783 2312 / cwchung@nomura.com

CW (Changwon) joined Nomura in January 2009 and was head of equity research for Korea. He covers the Korea semiconductors sectors. Prior to this, he was a technology/semiconductors analyst at Lehman Brothers. CW was ranked #1 Semiconductor Analyst in Korea by II in 2020 and 2021. Years in industry: 26 years Qualifications: BS Biochemistry;

MBA Finance (Yonsei University) *Coverage:* Technology (Semiconductors)



Masataka Kunugimoto

Joint-Head of APAC equity research Head of equity research, Japan and Head of Asia-Pacific Auto research +81 3 6703 1163 / Masataka.kunugimoto@nomura.com

Mr. Kunugimoto is the top-rated autos sector analyst in the 2014-2019 Institutional Investor Rankings. Prior to assuming coverage of the Japanese automakers in 2010, Masataka covered the Japanese auto parts and tire industry in 2000-2007 and was voted the top auto parts sector analyst in the Institutional Investor Rankings for two straight years (2006-2007). Years in industry: 22 years Qualifications: BS Economics (Keio University) MBA (Harvard University) *Coverage:* Autos Asia ex-Japan Research Analyst Directory





Years in industry: 4 years

BA in Accounting (Xi'an

Master of Finance (the

HK/China Consumer

University of Hong Kong)

Jiaotong University)

Qualifications:

Coverage:

China / Hong Kong

Consumer



Cathy Xiao

Analyst +852 2252 6177 / cathy.xiao@nomura.com

Cathy joined Nomura in January 2022 and covers the China consumer sector. Prior to this, she worked at First Shanghai Securities as a research analyst, covering the China consumer sector.

Financials (Insurance, Banks and non-bank financials)



Shengbo Tang

Head of Hong Kong and China financials research +852 2252 6210 / shengbo.tang@nomura.com

Shengbo Tang joined Nomura in 2015 as head of Hong Kong and China insurance and non-bank financials research from CICC, where he was Head of China insurance research. He has been a consistently top-ranked insurance analyst for China in various industry polls, including Institutional Investor, Asiamoney and Thomson Reuters' Starmine. Before CICC, Shengbo had worked as an actuarial manager at China Taiping Insurance. Shengbo is a Fellow of the China Association of Actuaries.

14 years *Qualifications:* BS, MS Applied Mathematics (Tongji University); Certified Fellow of the China Association of Actuaries *Coverage:* Insurance, Banks and Non-Bank Financials

Years in industry:

Healthcare



Jialin Zhang, CFA,CPA Head of China Healthcare Research +852 2252 6134 / jialin.zhang@nomura.com

Jialin joined Nomura in Sept 2021 as Head of China healthcare research after six years with ICBCI, where he built and led the healthcare research franchise. In 2019 and 2020 Institutional Investor All-China Surveys, he was awarded Runner-up and 3rd place and his team Runner-up (4th and 5th place), respectively. He is frequently interviewed by mainstream media. Previously, he worked at SAIC Finance and KPMG in Shanghai. Jialin is a CFA charterholder, a CICPA member and CSCO fellow.



John Nie Analyst

+852 2252 6169 / john.nie@nomura.com

John joined Nomura in Jan 2022 and covered China healthcare research. Prior to this, John worked at BOCOM International as an equity analyst covering healthcare.

Years in industry: 8 years

Qualifications: BBA (Shanghai Jiaotong University); MPhil in hospital management (Tsinghua University) MBA (HEC Paris) Coverage: China/HK healthcare

Years in industry: 2 years Qualifications: MSc in Finance (Johns Hopkins University) Coverage: China/HK healthcare

China / Hong Kong (cont'd)

Internet & Media



Jialong Shi

Head of China internet and media research +852 2252 1409 / jialong.shi@nomura.com

Jialong joined Nomura in October 2015 as Head of China internet research from Credit Suisse, where he covered mid-cap Chinese internet stocks. Jialong's team was a runner-up in China Internet research in the 2018 II All Asia/China poll, and he ranked the No 1 Earnings Estimator in the 2019 StarMine Analyst Awards in the Asia Interactive Media & Service category. Prior to Credit Suisse, Jialong worked at CLSA and Lehman Brothers as a research analyst in the China internet sector. Before he joined the finance industry, Jialong was a college lecturer on ecommerce technology at a Chinese university and a part-time teacher at New Oriental School. Years in industry: 15 years Qualifications: Masters of Finance (Shanghai Jiao Tong University) Coverage: Internet / Media



Thomas Shen, CFA

Associate +852 2252 1400 / thomas.shen@nomura.com

Thomas joined Nomura in 2019 and covers the China Internet sector. Prior to Nomura, he had 3 years of experience on both the sell-side and buy-side, covering the internet and technology sectors.

Years in industry: 6 years Qualifications: Bachelor of Social Science in Economics (Chinese University of Hong Kong); Master of Finance (University of Hong Kong); CFA charterholder *Coverage:* Internet / Media

Property



Jizhou Dong

Head of China property research +852 2252 1554 / jizhou.dong@nomura.com

Jizhou joined Nomura in November 2021 and leads coverage of China property and related sectors. Before joining Nomura, Jizhou was head of China property research of Huatai Hong Kong; his team reached No. 1 for two consecutive years in 2019 and 2020 Institutional Investor All-China Research ranking (mainland). Jizhou used to be a China property analyst with HSBC and Credit Suisse.



Stella Guo Analyst

+852 2252 1419 / stella.guo@nomura.com

Stella joined Nomura in March 2019 as part of the China property team. Previously, she worked at CITIC Securities.

Years in industry:

9 years *Qualifications:* Bachelor of Economics & Finance (The University of Hong Kong); CFA charterholder

Coverage: Property

Years in industry: 6 years Qualifications: MSc in Finance (The Chinese University of Hong Kong) *Coverage:* China Property



Years in industry: 10 years

Administration, M.S in

Industrial Engineering

(National Taiwan

(Semiconductors/ Hardware)

Years in industry: 7 years

(Nottingham University)

MBA (London Business

Qualifications: BA Hons in Finance

School) *Coverage:* Solar/Technology/ Industrial

University)

Coverage:

Technology

Qualifications: Bachelor of Business

China / Hong Kong (cont'd)

Technology (Semiconductors/Hardware)



Donnie Teng Vice President

+852 2252 1439 / donnie.teng@nomura.com

Donnie has about nine years of buy- and sell-side experience in global semiconductor and technology research after working with UMC for two-and-ahalf years. Donnie now covers Greater China Semiconductor and Tech companies. Donnie was a runner-up in Taiwan information technology research in the 2020 II All Asia poll. He ranked #1 in the 2020 Top Stock picker for semiconductors and electronic equipment industry by Refinitiv StarMine Analyst Award, and the ranked analyst of China technology/hardware research in the 2021/2022 II All Asia poll.



Frank Fan Associate

+852 2252 2195 / frank.fan@nomura.com

Frank joined Nomura in May 2022 and covers solar, industrial and technology sectors. Prior to this, he worked at Bank of America as an equity associate focusing on technology companies.

Technology / Telecoms



Joel Ying, CFA Vice President

+852 2252 2153 / joel.ying@nomura.com

Joel joined Nomura in August 2015 and covers the China auto and auto parts, technology and telecom sectors. Joel worked in Barclays from May 2014 as an Assistant Vice President in the regional autos and capital goods research team; prior to that, he spent four years working in Asian telecoms equity research in Shanghai.



Bing Duan

Vice President +852 2252 2141 / bing.duan1@nomura.com

Bing joined Nomura in January 2017 and covers the China technology and telecom sectors. Bing worked at China UnionPay from February 2012 as a risk manager; prior to that, he has worked at China Telecom and in Morgan Stanley's technology department.

Years in industry: 12 years Qualifications: BS Law (Fudan University); CFA charterholder *Coverage:* Auto & Auto Parts/ Technology/Telecoms

Years in industry: 7 years

Qualifications: MS Computer Science (Shanghai Jiaotong University); MBA (Hong Kong University of Science and Technology)

Coverage: Technology/Telecoms



Ethan Zhang Associate

+852 2252 2157 / ethan.zhang@nomura.com

Ethan joined Nomura in October 2017 and covers the China technology and telecom sectors. Prior to this, he worked at Ernst & Young as an auditor focusing on corporates.

Years in industry: 6 years

Qualifications: BBA in Accountancy (City University of Hong Kong); CFA charterholder

Coverage: Technology/Telecoms

India

Healthcare / Strategy



Saion Mukherjee

Head of India equity research +91 22 4037 4184 / saion.mukherjee@nomura.com

Saion joined Nomura in October 2008. He is head of India equity research and covers the India healthcare and pharmaceuticals sectors. Prior to this, he covered the pharmaceuticals and construction sectors at Lehman Brothers.



Neelotpal Sahu

Associate +91 22 4037 4023 / neelotpal.sahu1@nomura.com

Neelotpal joined Nomura in November 2017. She is a part of the India strategy research team. Prior to joining Nomura, she was associated with J.P Morgan India Pvt. Ltd, where she worked as a part of the Asia and Emerging Markets Equity Strategy team. She holds a Master's of Science in Economics from the Indian Institute of Technology, Kharagpur. She is a CFA charterholder.

Autos & Auto Parts / Media



Kapil Singh Executive Director +91 22 4037 4199 / kapil.singh@nomura.com

Kapil Singh has been amongst the top-ranked auto sector analysts in India. He was ranked #1 in his sector by Institutional Investor Magazine in 2015 and 2016 and #2 in 2017. Recently he has also assumed the role as head of Consumer and Digital Commerce for Nomura. He has completed his PGDM from IIM Lucknow and Master's in Management from ESCP-EAP, Paris. He has been at Nomura since 2008, and has previously worked at Lehman Brothers covering the same sector.

Consumer Durables / Autos & Auto Parts / Digital Commerce



Siddhartha Bera, CFA Vice President

+91 22 4037 4362 / siddhartha.bera@nomura.com

Siddhartha has covered multiple sectors at Nomura over the past five years and has previously worked at Edelweiss. He has overall equity research experience of nearly 10 years. He has completed his PGDM from MDI, Gurgaon. At Nomura, he covers nearly 20 companies, and has developed strong relationships with corporates and industry experts. He is a CFA charterholder.

Consumer



Mihir P. Shah

Vice President +91 22 403 74232 / mihir.shah1@nomura.com

Mihir joined Nomura in January 2020 and covers the India Consumer Staples & Discretionary (Retail, Paints, QSR) sector. Prior to this, he has worked with Deutsche Equities, Axis Capital, Daiwa Capital Markets, Reliance Equities International covering the same sector since 2007. He has consistently been a part of Top Rated India Consumer Analyst teams by Institutional Investor and Asia Money.

Years in industry: 18 years Qualifications: BTech Chemical Engineering (IIT, Delhi); PGDM (IIM, Ahmedabad) Coverage:

Healthcare and Strategy

Years in industry: 7 years Qualifications: Master's of Science in Economics (Indian Institute of Technology Kharagpur) Coverage: India Equity Strategy & Industrials

Years in industry: 16 years

Qualifications: BTech IT (IET, Lucknow); MMgmt (ESCP EAP, Paris)

PGDM (IIM, Lucknow)

Coverage: Autos & Auto Parts and Media

Years in industry: 11 years

Qualifications: B-Tech, MBA (Finance), CFA charterholder

Coverage: Consumer Durables, Autos & Auto Parts and Digital Commerce

Years in industry: 15 years

Qualifications: MBA - Finance, Diploma in Marketing Mgm B.Com (Vocational Tax)

Coverage: India Consumers



India (cont'd)

Industrials & Metals



Priyankar Biswas, CFA

Vice President +91 22 4037 4992 / priyankar.biswas@nomura.com

Priyankar joined Nomura in April 2015 after three years at HSBC. He is lead for the Indian industrials, transportation, metals and capital goods equity research team based out of Mumbai. He started his career with Reliance Infrastructure Limited (2008-2010) in project management before completing his MBA from IIM Kozhikode (2010-2012). After his MBA, Priyankar joined HSBC (2012-2015) and worked with the Global Oil & Gas equity research team. He ranked #3 in the 2020 Top Stock pickers for the Indian diversified Industrials by Refinitiv/Thomson Reuters.

Oil & Gas, Chemicals and Cement



Hemang Khanna

Vice President +91 22 4037 4022 / hemang.khanna@nomura.com

Hemang joined Nomura in September 2022 and covers the Indian Oil and Gas and Telecommunication Services sector. Hemang has over 7.5 years of experience covering the Indian Oil and Gas sector over his two stints at ICICI Securities and Kotak Institutional Equities (KIE). During his tenure at KIE, he has also covered specialty chemicals and commodity chemical sectors for over 2.5 years, the building materials sector for ~4 years and telecommunication services for 1.5 years.

Technology, Tech / IT services & Software, Internet



Abhishek Bhandari, CFA

Vice President +91 22 4037 4120 / abhishek.bhandari@nomura.com

Abhishek joined Nomura in Dec 2021 and leads the research for the Technology sector. He spent 12 years at Macquarie Group in Mumbai, where he covered Indian technology and internet space. Prior to his MBA, Abhishek has worked in Novell Software, a world leader in enterprise software. Abhishek has been ranked highly in external surveys like II surveys and Asia Money polls, and has 15 years' experience in sell side research in India. Abhishek is a gold medallist in both his B Tech degree in Computer Science from NIT Trichy and MBA from IIM, Indore. He is also a CFA charter holder.

Years in industry: 9 years Qualifications: BTech Electronics & Communication Engineering (NIT Durgapur); PGDIM (IIM Kozhikode)

Coverage: Industrials, Infrastructure, Metals, Transport and logistics

Years in industry: 8 years Qualifications: PGDM (IIM Calcutta). B.Tech (VJTI)

Coverage: Oil and Gas, Telecommunication Services

Years in industry: 15 years Qualifications: MBA (IIM Indore), B Tech in Computer Science (NIT Trichy), CFA (CFA Institute, USA) *Coverage:* IT Services, Internet, Technology

Malaysia

Financials / Construction / Gaming



Tushar Mohata, CFA

Head of Malaysia equity research +60 3 2027 6895 / tushar.mohata@nomura.com

Tushar joined Nomura Malaysia in December 2011 and covers the financials, construction and gaming sectors, along with equity strategy. He also writes ESG country strategy for Malaysia. He has 14 years of ASEAN research experience covering a wide range of sectors such as transportation, property and consumer. He is a CFA charterholder.

Industrials / Transport / Energy and Chemicals / Utilities



Ahmad Maghfur Usman

Vice President +60 3 2027 6892 / ahmad.maghfurusman@nomura.com

Ahmad Maghfur Usman joined Nomura in December 2015 as an equity research analyst and currently looks at industrials, transportation, energy, chemicals and utilities sectors in ASEAN. He joined from RHB Research Institute (Malaysia). He has 15 years of sell-side research experience, primarily covering the ASEAN transportation sector, first at OSK, and then at RHB after the latter's acquisition of OSK.

Telco / Rubber Gloves / Technology / Small/mid-caps



Heng Siong Kong Associate

+603 2027 6894 / hengsiong.kong@nomura.com

Kong Heng Siong joined Nomura Malaysia in July 2018 and currently looks at the Malaysia telco, rubber gloves, technology, and small/mid-caps sectors. In his previous stints, he covered sectors such as healthcare, rubber gloves, gaming, construction and utilities, focusing predominantly on the Malaysian market.

Years in industry: 15 years

Years in industry: 14 years

Communication

(BIT. Ranchi, India)

CFA charterholder

MBA (IIM, Kozhikode);

Financials, Construction

Qualifications: BEng Electronics and

Engineering

Coverage:

and Gaming

Years in industry:

University, Jordan

Industrials, Transport,

Energy and Chemicals,

Qualifications: BBA from Yarmouk

15 years

Coverage:

Utilities

Qualifications: Bachelor of Commerce – Actuarial Studies

Coverage:

Malaysia Telco, Rubber Gloves, Technology and Small/mid-caps



Singapore

Equity Strategy



Chetan Seth, CFA

Vice President +65 6433 6986 / chetan.seth1@nomura.com

Chetan joined Nomura in Dec 2017 and is firm's lead Asia-Pacific Regional Equity Strategist based in Singapore. He has been a full-time regional equity strategist for more than a decade. Prior to Nomura, Chetan held a similar role as an Asia ex JP/ Global Equities Strategist at Macquarie's highly rated equity strategy team in Hong Kong (2013-2017). Chetan's investment framework draws heavily from his global macro experience and a data-driven/facts based approach to form an investment view on equities in the region. He started his career in 2002 at McKinsey, before joining the equities business in 2006 at Lehman Brothers. He is a qualified Chartered Accountant, and also a CFA charterholder. Years in industry: 16 years *Qualifications:* CFA charterholder, Chartered Accountant (ICAI), B.Com (Hons)

Coverage: Asia Pacific Equity Strategy

Technology



David Wong

Co-Head of APAC Technology Research +65 6433 9617 / david.wong1@nomura.com

David joined Nomura in Singapore in 2021, from Instinet/Nomura in New York. Prior to this he was at Wells Fargo (where he was ranked runner-up for semiconductors on the Institutional Investor All-America Research Team in multiple years), UBS/ PaineWebber, Needham and Merrill Lynch on the sell-side, and State Street Research on the buy side. Before moving to the financial industry, he worked as an engineer at Cypress Semiconductor. Years in industry: 26 years Qualifications: BA (Cambridge University); Ph.D. (Carnegie Mellon University); CFA charterholder

Coverage: Asia Pacific Technology Strategy

South Korea

Technology (Semiconductors)



CW Chung

Joint-Head of APAC equity research; Head of pan-Asia Tech/Semiconductors research +82 2 3783 2312 / cwchung@nomura.com

CW (Changwon) joined Nomura in January 2009 and is head of equity research for Korea. He also covers the Korea technology and semiconductors sectors. Prior to this, he was a technology/semiconductors analyst at Lehman Brothers. CW was ranked #1 Semiconductor Analyst in Korea by II in 2020 and 2021.



Jung Cho Analyst

+822 3783 2332 / jung.cho@nomura.com

Jung Cho joined Nomura in December 2018 and covers the Korea technology and semiconductor sectors. Prior to this, he was at Daiwa Securities covering the Korea tech sector.

Oil & Gas and Chemicals / Steel / Utility



Cindy Park

Head of Korea equity research, Head of Asia Energy, Asia ex Japan +82 2 3783 2324 / cindy.park@nomura.com

Cindy joined Nomura in 2004 and is regional head of basic materials, energy and EV battery research. She leads research and price forecasts for oil & gas/chemical and metals, in addition to her stock coverage. Prior to joining Nomura, she was with Merrill Lynch and Samsung Corporation's chemical trading division.

Autos & Auto Parts / Internet / Telecommunications



Angela Hong Executive Director

+82 2 3783 2360 / angela.hong@nomura.com

Angela joined Nomura in September 2011 and is the Korea autos, internet and telecom analyst. Prior to her current role, she was at HSBC covering Korean autos stocks and before that was at JP Morgan covering internet and telecom stocks. Angela also held a consultant role at Accenture in Seoul, Korea and Munich, Germany, and advised global TMT companies on establishing business strategies.

Consumer / Healthcare



Cara Song

Executive Director +82 2 3783 2328 / cara.song@nomura.com

Cara joined Nomura in 2005 and covers the Korea consumer sector, including discretionary retail (department stores, duty free stores), food retail (hypermarkets), online retail, F&B (tobacco, confectionery, beverage), cosmetics (brands, ODMs), medical beauty (botox, fillers), furniture and healthcare sectors. Prior to this, she spent three years as an investor relations manager at Hankook Tire and four-and-a-half years as a customer service manager for freight forwarding company, Skygate Express.

Years in industry: 21 years Qualifications: BS Biochemistry, MBA Finance (Yonsei University) *Coverage:* Technology (Semiconductors)

Years in industry: 4 years Qualifications: BBA at Boston college *Coverage:* Technology (Semiconductors)

Years in industry: 26 years

Qualifications: BA Economics (Yonsei University)

Coverage: Oil & Gas and Chemicals, Steel, Utility

Years in industry: 18 years

Qualifications: BA Economics (Yonsei University); MBA (The Wharton School, University of Pennsylvania)

Coverage: Autos, Internet, Telecoms

Years in industry: 16 years Qualifications: BBA (Hansung University) Coverage: Consumer, Healthcare



South Korea (cont'd)

Industrials



Eon Hwang

Vice President +82 2 3783 2318 / eon.kwang@nomura.com

Eon Hwang joined Nomura's Research team in April 2022 and covers Korea industrials, including shipbuilding, shipping and defense. Prior to that, he covered industrials at Shinhan Securities. He was ranked #1 industrials analyst by Hankook Economy and Mail Economy from 2018 to 2021. Eon received his BA degree in Industrial Engineering System from KAIST. Years in industry: 9 years Qualifications: BA Industrial & Systems Engineering (KAIST) *Coverage:* Industrials (Shipbuilding, Shipping, Defense)

Taiwan

Technology (Semiconductors)



Aaron Jeng, CFA

Head of Taiwan equity research; Greater China semiconductor analyst +886 2 2176 9962 / aaron.jeng@nomura.com

Aaron joined Nomura in 2010 and has 16 years' technology research experience. He is the lead sector analyst for Greater China semiconductor research and Head of Taiwan equity research. Aaron's often contrarian structural approach to research has made him an opinion leader in the Greater China semiconductor space. Aaron does not pursue the ranking of any external research survey, and only focus on the judgement of cycle and the generation of alpha-making stock calls. Il voters can vote him only when they have high regards on Aaron's research and stock calls. Through 2021, Aaron's consistent view on the unprecedented semi cycle was proven correct despite of tons of Street noises. His prediction of cycle peaking from 1Q22 and collapse from late 2Q22 was also discerning.

Technology (Hardware)



Anne Lee, CFA

Executive Director; Greater China Hardware/Handset analyst +886 2 2176 9966 / anne.lee@nomura.com

Anne joined Nomura in 2007 and covers the Greater China hardware sector. With a background in small- and mid-cap companies, her strength lies in monitoring market dynamics through broad channel checks and tracking of high volatility mid-cap names. In recent years, she has been focusing on Apple supply chain, China handsets, and PC/ server ODMs and components.

Small/mid-caps (Technology/Non-Tech)



Kenny Chen Associate

+886 2 2176 9978 / kenny.chen@nomura.com

Kenny Chen joined Nomura in August 2022, covering small/mid-caps in Taiwan in both the tech and non-tech sectors. He now covers automotive and industrial automation companies and will expand coverage. Before joining Nomura, Kenny was at Yuanta Investment Consulting covering automotive and industrial automation industries. He holds a Bachelor of Arts in Economics degree from National Chengchi University and a Master of Science in Finance degree from the Simon Business School, University of Rochester. Years in industry: 16 years Qualifications: BBA Finance (National Central University); MBA International Finance (National Chengchi University); CFA charterholder

Coverage: Technology (Semiconductors)

Years in industry: 16 years Qualifications: BA Finance, MBA in Finance (National Taiwan University); CFA charterholder *Coverage:* Technology (Hardware)

Years in industry: 8 years

Qualifications: BA Economics (National Chengchi University), MS in Finance (University of Rochester)

Coverage: Small/mid-caps (tech/ non-tech)



Thailand

Healthcare / Consumer-related



Thanatcha Jurukul

Research analyst +66 2 081 2799 / thanatcha.jurukul.1@nomura.com

Thanatcha joined Nomura in June 2013 and covers the healthcare and consumerrelated sectors. Prior to this she was an intern at KPMG Thailand's financial service audit department. Years in industry: 9 years Qualifications: Master of Science in Global Finance (New York University & The Hong Kong University of Science and Technology)

Coverage: Healthcare / Consumer related

Disclaimers

This publication contains material that has been prepared by the Nomura Group entity identified on page 1 and, if applicable, with the contributions of one or more Nomura Group entities whose employees and their respective affiliations are specified on page 1 or identified elsewhere in this publication. The term "Nomura Group" used herein refers to Nomura Holdings, Inc. and its affiliates and subsidiaries including: (a) Nomura Securities Co., Ltd. ('NSC') Tokyo, Japan, (b) Nomura Financial Products Europe GmbH ('NFPE'), Germany, (c) Nomura International plc ('NIplc'), UK, (d) Nomura Securities International, Inc. ('NSI'), New York, US, (e) Nomura International (Hong Kong) Ltd. ('NIHK'), Hong Kong, (f) Nomura Financial Investment (Korea) Co., Ltd. ('NFIK'), Korea (Information on Nomura analysts registered with the Korea Financial Investment Association ('KOFIA') can be found on the KOFIA Intranet at http://dis.kofia.or.kr, (g) Nomura Singapore Ltd. ('NSL'), Singapore (Registration number 197201440E, regulated by the Monetary Authority of Singapore) (h) Nomura Australia Ltd. ('NAL'), Australia (ABN 48 003 032 513), regulated by the Australian Securities and Investment Commission (ASIC) and holder of an Australian financial services licence number 246412, (i) Nomura Securities Malaysia Sdn. Bhd. ('NSM'), Malaysia, (j) NIHK, Taipei Branch ('NITB'), Taiwan, (k) Nomura Financial Advisory and Securities (India) Private Limited ('NFASL'), Mumbai, India (Registered Address: Ceejay House, Level 11, Plot F, Shivsagar Estate, Dr. Annie Besant Road, Worli, Mumbai- 400 018, India; Tel: 91 22 4037 4037, Fax: 91 22 4037 4111; CIN No: U74140MH2007PTC169116, SEBI Registration No. for Stock Broking activities : INZ000255633; SEBI Registration No. for Merchant Banking : INM000011419; SEBI Registration No. for Research: INH000001014. 'CNS Thailand' next to an analyst's name on the front page of a research report indicates that the analyst is employed by Capital Nomura Securities Public Company Limited ('CNS') to provide research assistance services to NSL under an agreement between CNS and NSL. 'NSFSPL' next to an employee's name on the front page of a research report indicates that the individual is employed by Nomura Structured Finance Services Private Limited to provide assistance to certain Nomura entities under inter-company agreements. 'Verdhana' next to an individual's name on the front page of a research report indicates that the individual is employed by PT Verdhana Sekuritas Indonesia ('Verdhana') to provide research assistance to NIHK under a research partnership agreement and neither Verdhana nor such individual is licensed outside of Indonesia. For the avoidance of doubt and for the purpose of disclosure, Nomura Orient International Securities Co., Ltd ("NOI"), a joint venture amongst Nomura Group, Orient International (Holding) Co., Ltd and Shanghai Huangpu Investment Holding (Group) Co., Ltd is excluded from the definition of Nomura Group. An individual name printed next to NOI on the front page of a research report indicates that individual is employed by NOI to provide research assistance to NIHK under a research partnership agreement and neither NOI or such individual is licensed outside of Mainland China, PRC.

THIS MATERIAL IS: (I) FOR YOUR PRIVATE INFORMATION, AND WE ARE NOT SOLICITING ANY ACTION BASED UPON IT; (II) NOT TO BE CONSTRUED AS AN OFFER TO SELL OR A SOLICITATION OF AN OFFER TO BUY ANY SECURITIES IN ANY JURISDICTION WHERE SUCH OFFER OR SOLICITATION WOULD BE ILLEGAL; AND (III) OTHER THAN DISCLOSURES RELATING TO THE NOMURA GROUP, BASED UPON INFORMATION FROM SOURCES THAT WE CONSIDER RELIABLE, BUT HAS NOT BEEN INDEPENDENTLY VERIFIED BY NOMURA GROUP.

Other than disclosures relating to the Nomura Group, the Nomura Group does not warrant, represent or undertake, express or implied, that the document is fair, accurate, complete, correct, reliable or fit for any particular purpose or merchantable, and to the maximum extent permissible by law and/or regulation, does not accept liability (in negligence or otherwise, and in whole or in part) for any act (or decision not to act) resulting from use of this document and related data. To the maximum extent permissible by law and/or regulation, all warranties and other assurances by the Nomura Group are hereby excluded and the Nomura Group shall have no liability (in negligence or otherwise, and in whole or in part) for any loss howsoever arising from the use, misuse, or distribution of this material or the information contained in this material or otherwise arising in connection therewith.

Opinions or estimates expressed are current opinions as of the original publication date appearing on this material and the information, including the opinions and estimates contained herein, are subject to change without notice. The Nomura Group, however, expressly disclaims any obligation, and therefore is under no duty, to update or revise this document. Any comments or statements made herein are those of the author(s) and may differ from views held by other parties within Nomura Group. Clients should consider whether any advice or recommendation in this report is suitable for their particular circumstances and, if appropriate, seek professional advice, including tax advice. The Nomura Group does not provide tax advice.

The Nomura Group, and/or its officers, directors, employees and affiliates, may, to the extent permitted by applicable law and/or regulation, deal as principal, agent, or otherwise, or have long or short positions in, or buy or sell, the securities, commodities or instruments, or options or other derivative instruments based thereon, of issuers or securities mentioned herein. The Nomura Group companies may also act as market maker or liquidity provider (within the meaning of applicable regulations in the UK) in the financial instruments of the issuer. Where the activity of market maker is carried out in accordance with the definition given to it by specific laws and regulations of the US or other jurisdictions, this will be separately disclosed within the specific issuer disclosures.

This document may contain information obtained from third parties, including, but not limited to, ratings from credit ratings agencies such as Standard & Poor's. The Nomura Group hereby expressly disclaims all representations, warranties or undertakings of originality, fairness, accuracy, completeness, correctness, merchantability or fitness for a particular purpose with respect to any of the information obtained from third parties contained in this material or otherwise arising in connection therewith, and shall not be liable (in negligence or otherwise, and in whole or in part) for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including lost income or profits and opportunity costs) in connection with any use or misuse of any of the information obtained from third parties contained in this material or otherwise arising in connection therewith. Reproduction and distribution of third-party content in any form is prohibited except with the prior written permission of the related third-party. Third-party content providers do not, express or implied, guarantee the fairness, accuracy, completeness, correctness, timeliness or availability of any information, including ratings, and are not in any way responsible for any errors or omissions (negligent or otherwise), regardless of the cause, or for the results obtained from the use or misuse of such content. Third-party content providers give no express or implied warranties, including, but not limited to, any warranties of merchantability or fitness for a particular purpose or use. Third-party content providers shall not be liable (in negligence or otherwise, and in whole or in part) for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including lost income or profits and opportunity costs) in connection with any use or misuse of their content, including ratings. Credit ratings are statements of opinions and are not statements of fact or recommendations to purchase hold or sell securities. They do not address the suitability of securities or the suitability of securities for investment purposes, and should not be relied on as investment advice.

Any MSCI sourced information in this document is the exclusive property of MSCI Inc. ('MSCI'). Without prior written permission of MSCI, this information and any other MSCI intellectual property may not be duplicated, reproduced, re-disseminated, redistributed or used, in whole or in part, for any purpose whatsoever, including creating any financial products and any indices. This information is provided on an "as is" basis. The user assumes the entire risk of any use made of this information. MSCI, its affiliates and any third party involved in, or related to, computing or



compiling the information hereby expressly disclaim all representations, warranties or undertakings of originality, fairness, accuracy, completeness, correctness, merchantability or fitness for a particular purpose with respect to any of this material or the information contained in this material or otherwise arising in connection therewith. Without limiting any of the foregoing, in no event shall MSCI, any of its affiliates or any third party involved in, or related to, computing or compiling the information have any liability (in negligence or otherwise, and in whole or in part) for any damages of any kind. MSCI and the MSCI indexes are services marks of MSCI and its affiliates.

The intellectual property rights and any other rights, in Russell/Nomura Japan Equity Index belong to Nomura Securities Co., Ltd. ("Nomura") and Frank Russell Company ("Russell"). Nomura and Russell do not guarantee fairness, accuracy, completeness, correctness, reliability, usefulness, marketability, merchantability or fitness of the Index, and do not account for business activities or services that any index user and/or its affiliates undertakes with the use of the Index.

Investors should consider this document as only a single factor in making their investment decision and, as such, the report should not be viewed as identifying or suggesting all risks, direct or indirect, that may be associated with any investment decision. Nomura Group produces a number of different types of research product including, among others, fundamental analysis and quantitative analysis; recommendations contained in one type of research product may differ from recommendations contained in other types of research product, whether as a result of differing time horizons, methodologies or otherwise. The Nomura Group publishes research product in a number of different ways including the posting of product on the Nomura Group portals and/or distribution directly to clients. Different groups of clients may receive different products and services from the research department depending on their individual requirements.

Figures presented herein may refer to past performance or simulations based on past performance which are not reliable indicators of future or likely performance. Where the information contains an expectation, projection or indication of future performance and business prospects, such forecasts may not be a reliable indicator of future or likely performance. Moreover, simulations are based on models and simplifying assumptions which may oversimplify and not reflect the future distribution of returns. Any figure, strategy or index created and published for illustrative purposes within this document is not intended for "use" as a "benchmark" as defined by the European Benchmark Regulation.

Certain securities are subject to fluctuations in exchange rates that could have an adverse effect on the value or price of, or income derived from, the investment.

With respect to Fixed Income Research: Recommendations fall into two categories: tactical, which typically last up to three months; or strategic, which typically last from 6-12 months. However, trade recommendations may be reviewed at any time as circumstances change. 'Stop loss' levels for trades are also provided; which, if hit, closes the trade recommendation automatically. Prices and yields shown in recommendations are taken at the time of submission for publication and are based on either indicative Bloomberg, Reuters or Nomura prices and yields at that time. The prices and yields shown are not necessarily those at which the trade recommendation can be implemented.

The securities described herein may not have been registered under the US Securities Act of 1933 (the '1933 Act'), and, in such case, may not be offered or sold in the US or to US persons unless they have been registered under the 1933 Act, or except in compliance with an exemption from the registration requirements of the 1933 Act. Unless governing law permits otherwise, any transaction should be executed via a Nomura entity in your home jurisdiction.

This document has been approved for distribution in the UK as investment research by Nlplc. Nlplc is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. Nlplc is a member of the London Stock Exchange. This document does not constitute a personal recommendation within the meaning of applicable regulations in the UK, or take into account the particular investment objectives, financial situations, or needs of individual investors. This document is intended only for investors who are 'eligible counterparties' or 'professional clients' for the purposes of applicable regulations in the UK, and may not, therefore, be redistributed to persons who are 'retail clients' for such purposes.

This document has been approved for distribution in the European Economic Area as investment research by Nomura Financial Products Europe GmbH ("NFPE"). NFPE is a company organized as a limited liability company under German law registered in the Commercial Register of the Court of Frankfurt/Main under HRB 110223. NFPE is authorized and regulated by the German Federal Financial Supervisory Authority (BaFin).

This document has been approved by NIHK, which is regulated by the Hong Kong Securities and Futures Commission, for distribution in Hong Kong by NIHK. This document is intended only for investors who are 'professional investors' for the purposes of applicable regulations in Hong Kong and may not, therefore, be redistributed to persons who are not 'professional investors' for such purposes.

This document has been approved for distribution in Australia by NAL, which is authorized and regulated in Australia by the ASIC.

This document has also been approved for distribution in Malaysia by NSM.

In Singapore, this document has been distributed by NSL, an exempt financial adviser as defined under the Financial Advisers Act (Chapter 110), among other things, and regulated by the Monetary Authority of Singapore. NSL may distribute this document produced by its foreign affiliates pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations. Where the recipient of this document is not an accredited, expert or institutional investor as defined by the Securities and Futures Act (Chapter 289), NSL accepts legal responsibility for the contents of this document in respect of such recipient only to the extent required by law. Recipients of this document in Singapore should contact NSL in respect of matters arising from, or in connection with, this document. THIS DOCUMENT IS INTENDED FOR GENERAL CIRCULATION. IT DOES NOT TAKE INTO ACCOUNT THE SPECIFIC INVESTMENT OBJECTIVES, FINANCIAL SITUATION OR PARTICULAR NEEDS OF ANY PARTICULAR PERSON. RECIPIENTS SHOULD TAKE INTO ACCOUNT THEIR SPECIFIC INVESTMENT OBJECTIVES, FINANCIAL SITUATION OR PARTICULAR NEEDS BEFORE MAKING A COMMITMENT TO PURCHASE ANY SECURITIES, INCLUDING SEEKING ADVICE FROM AN INDEPENDENT FINANCIAL ADVISER REGARDING THE SUITABILITY OF THE INVESTMENT, UNDER A SEPARATE ENGAGEMENT, AS THE RECIPIENT DEEMS FIT.

Unless prohibited by the provisions of Regulation S of the 1933 Act, this material is distributed in the US, by NSI, a US-registered broker-dealer, which accepts responsibility for its contents in accordance with the provisions of Rule 15a-6, under the US Securities Exchange Act of 1934. The entity that prepared this document permits its separately operated affiliates within the Nomura Group to make copies of such documents available to their clients.

This document has not been approved for distribution to persons other than 'Authorised Persons', 'Exempt Persons' or 'Institutions' (as defined by the Capital Markets Authority) in the Kingdom of Saudi Arabia ('Saudi Arabia') or a 'Market Counterparty' or a 'Professional Client' (as defined by the Dubai Financial Services Authority) in the United Arab Emirates ('UAE') or a 'Market Counterparty' or a 'Business Customer' (as defined by

Asia ex-Japan Research Analyst Directory

the Qatar Financial Centre Regulatory Authority) in the State of Qatar ('Qatar') by Nomura Saudi Arabia, NIplc or any other member of the Nomura Group, as the case may be. Neither this document nor any copy thereof may be taken or transmitted or distributed, directly or indirectly, by any person other than those authorised to do so into Saudi Arabia or in the UAE or in Qatar or to any person other than 'Authorised Persons', 'Exempt Persons' or 'Institutions' located in Saudi Arabia or a 'Market Counterparty' or a 'Professional Client' in the UAE or a 'Market Counterparty' or a 'Business Customer' in Qatar. Any failure to comply with these restrictions may constitute a violation of the laws of the UAE or Saudi Arabia or Qatar.

For report with reference of TAIWAN public companies or authored by Taiwan based research analyst:

THIS DOCUMENT IS SOLELY FOR REFERENCE ONLY. You should independently evaluate the investment risks and are solely responsible for your investment decisions. NO PORTION OF THE REPORT MAY BE REPRODUCED OR QUOTED BY THE PRESS OR ANY OTHER PERSON WITHOUT WRITTEN AUTHORIZATION FROM NOMURA GROUP. Pursuant to Operational Regulations Governing Securities Firms Recommending Trades in Securities to Customers and/or other applicable laws or regulations in Taiwan, you are prohibited to provide the reports to others (including but not limited to related parties, affiliated companies and any other third parties) or engage in any activities in connection with the reports which may involve conflicts of interests. INFORMATION ON SECURITIES / INSTRUMENTS NOT EXECUTABLE BY NOMURA INTERNATIONAL (HONG KONG) LTD., TAIPEI BRANCH IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT BE CONSTRUED AS A RECOMMENDATION OR A SOLICITATION TO TRADE IN SUCH SECURITIES / INSTRUMENTS.

This material may not be distributed in Indonesia or passed on within the territory of the Republic of Indonesia or to persons who are Indonesian citizens (wherever they are domiciled or located) or entities of or residents in Indonesia in a manner which constitutes a public offering under the laws of the Republic of Indonesia. The securities mentioned in this document may not be offered or sold in Indonesia or to persons who are citizens of Indonesia (wherever they are domiciled or located) or entities of or residents in Indonesia in a manner which constitutes a public offering under the laws of the Republic of Indonesia.

This document is prepared by Nomura Group or its subsidiary or affiliate (collectively, "Offshore Issuers") that is not licensed in the People's Republic of China ("PRC", excluding Hong Kong, Macau and Taiwan, for the purpose of this document) to provide securities research and this research report is not approved or intended to be circulated in the PRC. The A-share related analysis (if any) is not produced for any persons located or incorporated in the PRC. The recipients should not rely on any information contained in the research report in making investment decisions and Offshore Issuers take no responsibility in this regard.

NO PART OF THIS MATERIAL MAY BE (I) COPIED, PHOTOCOPIED, REPRODUCED OR DUPLICATED IN ANY FORM, BY ANY MEANS; OR (II) REDISSEMINATED, REPUBLISHED OR REDISTRIBUTED WITHOUT THE PRIOR WRITTEN CONSENT OF A MEMBER OF THE NOMURA GROUP. If this document has been distributed by electronic transmission, such as e-mail, then such transmission cannot be guaranteed to be secure or error-free as information could be intercepted, corrupted, lost, destroyed, arrive late or incomplete, or contain viruses. The sender therefore does not accept liability (in negligence or otherwise, and in whole or in part) for any errors or omissions in the contents of this document, which may arise as a result of electronic transmission. If verification is required, please request a hard-copy version.

The Nomura Group manages conflicts with respect to the production of research through its compliance policies and procedures (including, but not limited to, Conflicts of Interest, Chinese Wall and Confidentiality policies) as well as through the maintenance of Chinese Walls and employee training.

Additional information regarding the methodologies or models used in the production of any investment recommendations contained within this document is available upon request by contacting the Research Analysts of Nomura listed on the front page. Disclosures information is available upon request and disclosure information is available at the Nomura Disclosure web page: http://go.nomuranow.com/research/globalresearchportal/pages/disclosures/disclosures.aspx

Copyright © 2022 Nomura International plc. All rights reserved.

Disclosures as of December 2022.