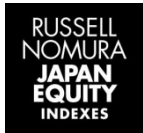


Russell/Nomura Japan Equity Indexes

EQUITY QUANTITATIVE RESEARCH (INDEX)

Performance summary July 2019



Global Markets Research

2 August 2019

Research analysts

Japan index products

Index Operations Dept. - NSC

idx_mgr@jp.nomura.com
+81 3 6703 3986

Fig. 1: Russell/Nomura Japan Equity Indexes performance summary

Total return (including dividends, as of end-July 2019)

Index	No. of stocks	Weight (%)	Index value	Returns (%) *				
				1 month	3 months	6 months	12 months	YTD
Total Market	1,591	100.00	601.45	1.03	-2.96	1.50	-8.25	6.75
Value	1,102	49.19	1,247.36	0.13	-4.44	-2.93	-10.68	2.68
Growth	875	50.81	260.07	1.93	-1.48	6.22	-5.66	11.02
Large	350	85.34	568.95	0.95	-2.86	1.58	-7.25	7.06
Large Value	223	40.57	1,142.39	-0.03	-4.34	-3.02	-9.34	3.01
Large Growth	231	44.77	267.35	1.86	-1.48	6.19	-5.17	11.04
Top	71	52.39	460.47	1.24	-1.39	3.83	-5.37	10.00
Top Value	47	24.87	1,011.29	0.24	-2.74	-0.75	-7.68	5.59
Top Growth	46	27.52	228.18	2.17	-0.13	8.42	-3.04	14.39
Mid	279	32.95	794.45	0.50	-5.12	-1.80	-10.09	2.70
Mid Value	176	15.70	1,226.47	-0.45	-6.78	-6.42	-11.94	-0.83
Mid Growth	185	17.25	383.94	1.38	-3.56	2.82	-8.38	6.14
Mid-Small	1,520	47.61	804.17	0.81	-4.62	-0.95	-11.22	3.38
Mid-Small Value	1,055	24.32	1,350.71	0.02	-6.11	-5.06	-13.56	-0.13
Mid-Small Growth	829	23.29	349.64	1.64	-3.02	3.74	-8.57	7.33
Small	1,241	14.66	820.30	1.50	-3.49	1.00	-13.60	4.96
Small Value	879	8.62	1,490.19	0.88	-4.87	-2.49	-16.61	1.17
Small Growth	644	6.04	307.04	2.40	-1.45	6.45	-8.99	10.88
Small Core	446	10.15	263.98	1.06	-4.05	-0.20	-14.18	4.03
Small Core Value	319	5.84	358.09	0.21	-5.66	-4.35	-17.25	-0.02
Small Core Growth	242	4.31	112.59	2.23	-1.76	6.05	-9.60	10.09
Micro	795	4.51	319.76	2.52	-2.21	3.81	-12.28	7.09
Micro Value	560	2.78	414.68	2.32	-3.15	1.64	-15.26	3.75
Micro Growth	402	1.74	121.46	2.85	-0.67	7.47	-7.43	12.88
Prime	993	97.20	1,683.30	1.00	-2.99	1.42	-8.07	6.74
Prime Value	700	47.60	2,039.42	0.06	-4.51	-3.11	-10.52	2.65
Prime Growth	549	49.61	1,301.96	1.92	-1.48	6.21	-5.49	11.00

Note: * Returns are not annualized.

Source: Nomura

Japanese version published on
August 1, 2019

Production Complete: 2019-08-02 06:00 UTC

What are the Russell/Nomura Japan Equity Indexes?

The Russell/Nomura Japan Equity Indexes are Japanese equity indexes developed jointly by FTSE Russell Indexes and the Global Research Division, Financial Engineering & Technology Research Center, Nomura Securities Co., Ltd.

Russell/Nomura Japan Equity Indexes should be useful in:

- Determining investment strategies (strategic asset allocation)
- Determining manager structures
- Devising asset management benchmarks
- Supporting portfolio management activities
- Evaluating the performance of various investment styles
- Managing risk

Russell/Nomura Japan Equity Indexes have the following characteristics:

- They are share price indexes that are weighted by free float-adjusted market capitalization and cover the top 98% of all listed stocks in terms of float-adjusted market capitalization, thereby offering broad market coverage.
- In addition to stocks listed on the First Section of the Tokyo Stock Exchange (TSE-1), they include stocks listed on other exchanges.
- Because the indexes take into consideration the stable shareholding ratio, they reflect the stocks that are actually available for investment.
- There are style indexes for large and small companies and for value and growth stocks.
- The Prime Index consists of the top 1,000 stocks in the Total Market Index by market cap excluding stable shareholdings.
- Stocks are selected quantitatively based on clearly defined criteria.
- The composition of each index is reviewed once a year.

Complete details of rules for the Russell/Nomura Japan Equity Index can be found in the *Russell/Nomura Japan Equity Indexes rulebook*.

Fig. 2: Russell/Nomura Japan Equity Indexes performance summary

Price return (excluding dividends, as of end-July 2019)

Index	No. of stocks	Weight (%)	Index value	Returns (%) *				
				1 month	3 months	6 months	12 months	YTD
Total Market	1,591	100.00	353.50	1.03	-3.14	0.18	-10.37	5.35
Value	1,102	49.19	688.60	0.12	-4.60	-4.48	-13.19	1.03
Growth	875	50.81	162.62	1.92	-1.70	5.18	-7.38	9.93
Large	350	85.34	333.07	0.95	-3.06	0.26	-9.45	5.66
Large Value	223	40.57	627.08	-0.04	-4.50	-4.59	-11.98	1.33
Large Growth	231	44.77	166.00	1.86	-1.71	5.13	-6.94	9.93
Top	71	52.39	261.16	1.24	-1.59	2.37	-7.83	8.46
Top Value	47	24.87	540.10	0.24	-2.89	-2.48	-10.62	3.75
Top Growth	46	27.52	136.10	2.17	-0.39	7.25	-5.04	13.15
Mid	279	32.95	484.57	0.48	-5.30	-2.93	-11.91	1.50
Mid Value	176	15.70	699.44	-0.49	-6.95	-7.76	-14.13	-2.28
Mid Growth	185	17.25	251.94	1.37	-3.73	1.94	-9.80	5.22
Mid-Small	1,520	47.61	487.46	0.79	-4.80	-2.12	-13.01	2.15
Mid-Small Value	1,055	24.32	767.99	-0.01	-6.29	-6.45	-15.68	-1.61
Mid-Small Growth	829	23.29	229.48	1.64	-3.20	2.84	-9.99	6.39
Small	1,241	14.66	488.95	1.50	-3.66	-0.27	-15.35	3.62
Small Value	879	8.62	841.64	0.87	-5.04	-3.97	-18.58	-0.37
Small Growth	644	6.04	201.41	2.40	-1.62	5.50	-10.39	9.88
Small Core	446	10.15	193.78	1.05	-4.22	-1.46	-15.92	2.71
Small Core Value	319	5.84	255.69	0.21	-5.84	-5.78	-19.19	-1.52
Small Core Growth	242	4.31	87.20	2.23	-1.94	5.06	-11.05	9.06
Micro	795	4.51	230.80	2.50	-2.39	2.50	-14.04	5.72
Micro Value	560	2.78	289.17	2.31	-3.34	0.07	-17.29	2.14
Micro Growth	402	1.74	95.77	2.82	-0.84	6.62	-8.72	11.97
Prime	993	97.20	1,184.47	0.99	-3.18	0.10	-10.21	5.34
Prime Value	700	47.60	1,374.67	0.05	-4.67	-4.66	-13.04	0.99
Prime Growth	549	49.61	954.37	1.92	-1.70	5.16	-7.23	9.90

Note: * Returns are not annualized.

Source: Nomura

Fig. 3: Russell/Nomura Japan Equity Indexes performance summary

Total return (including dividends, as of end-July 2019)

Index	No. of stocks	Weight (%)	Index value	Returns (%) *				
				1 month	3 months	6 months	12 months	YTD
Total Market	1,591	100.00	601.45	1.03	-2.96	1.50	-8.25	6.75
Value	1,102	49.19	1,247.36	0.13	-4.44	-2.93	-10.68	2.68
Growth	875	50.81	260.07	1.93	-1.48	6.22	-5.66	11.02
Large	350	85.34	568.95	0.95	-2.86	1.58	-7.25	7.06
Large Value	223	40.57	1,142.39	-0.03	-4.34	-3.02	-9.34	3.01
Large Growth	231	44.77	267.35	1.86	-1.48	6.19	-5.17	11.04
Top	71	52.39	460.47	1.24	-1.39	3.83	-5.37	10.00
Top Value	47	24.87	1,011.29	0.24	-2.74	-0.75	-7.68	5.59
Top Growth	46	27.52	228.18	2.17	-0.13	8.42	-3.04	14.39
Mid	279	32.95	794.45	0.50	-5.12	-1.80	-10.09	2.70
Mid Value	176	15.70	1,226.47	-0.45	-6.78	-6.42	-11.94	-0.83
Mid Growth	185	17.25	383.94	1.38	-3.56	2.82	-8.38	6.14
Mid-Small	1,520	47.61	804.17	0.81	-4.62	-0.95	-11.22	3.38
Mid-Small Value	1,055	24.32	1,350.71	0.02	-6.11	-5.06	-13.56	-0.13
Mid-Small Growth	829	23.29	349.64	1.64	-3.02	3.74	-8.57	7.33
Small	1,241	14.66	820.30	1.50	-3.49	1.00	-13.60	4.96
Small Value	879	8.62	1,490.19	0.88	-4.87	-2.49	-16.61	1.17
Small Growth	644	6.04	307.04	2.40	-1.45	6.45	-8.99	10.88
Small Core	446	10.15	263.98	1.06	-4.05	-0.20	-14.18	4.03
Small Core Value	319	5.84	358.09	0.21	-5.66	-4.35	-17.25	-0.02
Small Core Growth	242	4.31	112.59	2.23	-1.76	6.05	-9.60	10.09
Micro	795	4.51	319.76	2.52	-2.21	3.81	-12.28	7.09
Micro Value	560	2.78	414.68	2.32	-3.15	1.64	-15.26	3.75
Micro Growth	402	1.74	121.46	2.85	-0.67	7.47	-7.43	12.88
Prime	993	97.20	1,683.30	1.00	-2.99	1.42	-8.07	6.74
Prime Value	700	47.60	2,039.42	0.06	-4.51	-3.11	-10.52	2.65
Prime Growth	549	49.61	1,301.96	1.92	-1.48	6.21	-5.49	11.00

Note: * Returns are not annualized.

Source: Nomura

Fig. 4: Russell/Nomura index data by industrial sector

Number of stocks and weighting (as of end-July 2019)

Index	Total Market		Value		Growth		Small		Prime	
	No. of stocks	Weight (%)	No. of stocks	Weight (%)	No. of stocks	Weight (%)	No. of stocks	Weight (%)	No. of stocks	Weight (%)
Overall	1,591	100.00	1,102	100.00	875	100.00	1,241	100.00	993	100.00
Fishery, agriculture & forestry	5	0.11	5	0.09	4	0.14	5	0.78	4	0.11
Mining	5	0.27	5	0.54	0	0.00	4	0.22	2	0.26
Construction	79	2.63	75	3.68	28	1.61	66	5.16	48	2.57
Foods	65	3.84	44	1.49	42	6.11	45	4.15	41	3.82
Textiles & apparel	21	0.57	19	1.03	7	0.12	19	1.59	15	0.56
Pulp & paper	10	0.24	9	0.47	3	0.01	9	0.92	6	0.23
Chemicals	121	7.42	95	6.14	54	8.67	90	8.10	78	7.43
Pharmaceuticals	42	5.25	20	1.19	36	9.19	23	2.28	35	5.37
Oil & coal products	7	0.58	7	1.01	2	0.17	4	0.09	3	0.59
Rubber products	12	0.79	11	1.32	5	0.28	9	0.64	8	0.80
Glass & ceramics products	25	0.84	21	1.15	12	0.54	18	1.23	15	0.82
Iron & steel	20	0.77	20	1.57	1	0.00	16	1.18	15	0.78
Nonferrous metals	20	0.76	19	1.51	3	0.03	17	1.78	15	0.76
Metal products	29	0.57	27	0.83	8	0.31	24	1.22	17	0.54
Machinery	108	5.07	90	3.66	55	6.43	87	6.81	69	5.03
Electric appliances	128	15.07	97	10.24	72	19.74	88	6.93	90	15.29
Transportation equipment	53	7.12	50	12.63	15	1.79	38	3.06	39	7.27
Precision instruments	25	2.22	11	0.47	22	3.91	19	2.14	19	2.26
Other products	36	2.21	25	0.87	24	3.51	29	2.04	21	2.22
Electric power & gas	21	1.70	18	3.39	6	0.06	10	0.85	16	1.72
Land transportation	41	4.42	30	5.21	29	3.66	20	2.13	31	4.49
Marine transportation	6	0.18	6	0.36	1	0.00	4	0.29	4	0.18
Air transportation	2	0.56	2	1.04	2	0.09	0	0.00	2	0.57
Warehousing & harbor transportation services	9	0.16	8	0.31	1	0.02	8	0.70	6	0.15
Information & communications	134	10.00	36	5.59	121	14.27	112	9.18	64	9.90
Wholesale trade	109	4.69	93	8.17	42	1.32	97	7.02	54	4.58
Retail trade	145	4.56	72	2.04	106	7.00	122	9.57	95	4.46
Banks	77	5.60	77	11.31	1	0.07	63	5.69	58	5.68
Securities & commodity futures	19	0.77	14	1.26	9	0.30	16	1.09	14	0.77
Insurance	9	2.48	7	4.84	3	0.19	3	0.32	8	2.55
Other financing business	21	1.14	15	1.61	10	0.69	15	1.69	17	1.15
Real estate	49	2.21	37	3.25	24	1.21	40	2.71	22	2.15
Services	138	5.20	37	1.73	127	8.55	121	8.45	62	4.96

Source: Nomura

Fig. 5: Russell/Nomura index performance by industrial sector

Monthly return* (as of end-July 2019)

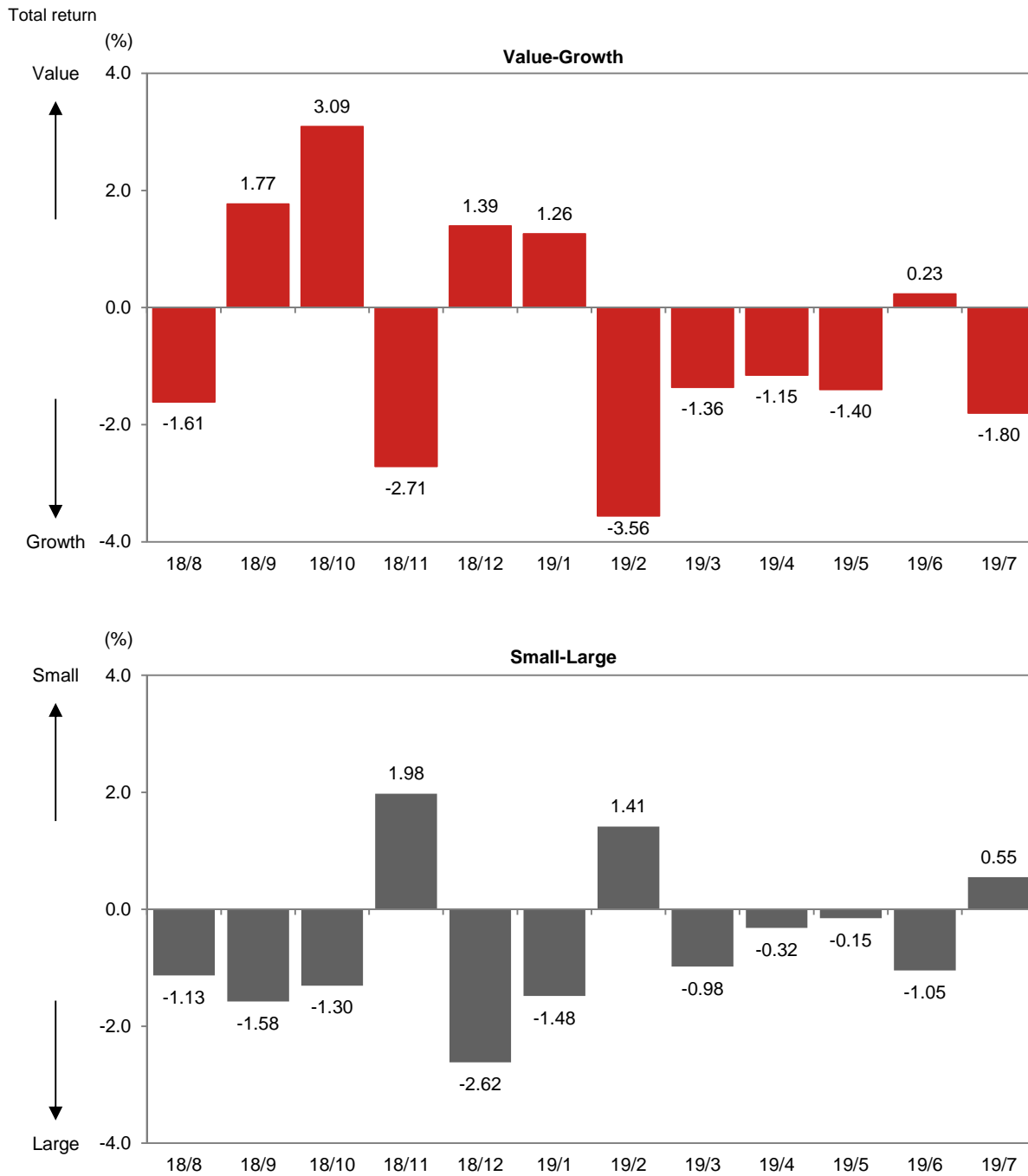
(%)

Index	Total Market		Value		Growth		Small		Prime	
	excl dividends	incl dividends	excl dividends	incl dividends	excl dividends	incl dividends	excl dividends	incl dividends	excl dividends	incl dividends
Overall	1.03	1.03	0.12	0.13	1.92	1.93	1.50	1.50	0.99	1.00
Fishery, agriculture & forestry	4.67	4.69	4.22	4.23	4.94	4.97	4.67	4.69	4.55	4.57
Mining	-1.24	-1.24	-1.24	-1.24	-	-	-2.71	-2.71	-1.27	-1.27
Construction	-0.14	0.06	-0.28	0.02	0.16	0.16	0.07	0.07	-0.36	-0.14
Foods	-0.16	-0.16	-1.01	-1.00	0.04	0.04	2.44	2.45	-0.27	-0.27
Textiles & apparel	-3.01	-3.01	-3.74	-3.74	3.41	3.41	0.97	0.97	-3.20	-3.20
Pulp & paper	-4.62	-4.62	-4.78	-4.78	4.73	4.73	-0.95	-0.95	-5.03	-5.03
Chemicals	0.58	0.58	0.63	0.63	0.54	0.54	0.24	0.24	0.55	0.55
Pharmaceuticals	4.21	4.21	1.12	1.12	4.62	4.62	3.85	3.85	4.27	4.27
Oil & coal products	-4.44	-4.44	-4.02	-4.02	-6.82	-6.82	4.17	4.17	-4.63	-4.63
Rubber products	-2.57	-2.57	-2.62	-2.62	-2.36	-2.36	1.33	1.33	-2.60	-2.60
Glass & ceramics products	-2.17	-2.17	-4.01	-4.01	1.86	1.86	0.23	0.23	-2.34	-2.34
Iron & steel	-5.82	-5.82	-5.82	-5.82	-3.98	-3.98	-2.27	-2.27	-5.97	-5.97
Nonferrous metals	-3.49	-3.49	-3.36	-3.36	-9.72	-9.72	-3.39	-3.39	-3.66	-3.66
Metal products	4.22	4.22	2.55	2.55	8.86	8.86	0.98	0.98	4.58	4.58
Machinery	-1.79	-1.79	-0.95	-0.95	-2.24	-2.24	0.75	0.75	-1.87	-1.87
Electric appliances	2.32	2.32	0.48	0.48	3.27	3.27	4.06	4.06	2.34	2.34
Transportation equipment	-0.46	-0.46	0.74	0.74	-7.97	-7.97	0.29	0.29	-0.49	-0.49
Precision instruments	1.17	1.17	-0.30	-0.30	1.34	1.34	2.96	2.96	1.14	1.14
Other products	2.58	2.62	3.02	3.02	2.47	2.53	2.16	2.16	2.62	2.66
Electric power & gas	2.87	2.87	2.87	2.87	3.00	3.00	2.58	2.58	2.87	2.87
Land transportation	-0.35	-0.35	0.58	0.58	-1.59	-1.59	0.53	0.53	-0.36	-0.36
Marine transportation	5.04	5.04	5.04	5.04	5.14	5.14	5.82	5.82	4.93	4.93
Air transportation	1.03	1.03	1.03	1.03	1.02	1.02	-	-	1.03	1.03
Warehousing & harbor transportation services	-0.29	-0.29	-0.40	-0.40	1.29	1.29	0.48	0.48	-0.46	-0.46
Information & communications	3.54	3.54	0.39	0.39	4.79	4.79	2.73	2.74	3.60	3.60
Wholesale trade	0.56	0.57	0.92	0.93	-1.55	-1.55	0.77	0.81	0.51	0.51
Retail trade	2.18	2.18	1.47	1.48	2.38	2.38	2.20	2.20	2.15	2.15
Banks	-0.06	-0.06	-0.09	-0.09	4.61	4.61	0.13	0.13	-0.09	-0.09
Securities & commodity futures	-5.18	-5.18	-5.05	-5.05	-5.70	-5.70	-1.23	-1.23	-5.42	-5.42
Insurance	4.96	4.96	5.08	5.08	2.07	2.07	-5.57	-5.57	4.96	4.96
Other financing business	-1.83	-1.83	-1.09	-1.09	-3.45	-3.45	1.28	1.28	-1.82	-1.82
Real estate	0.78	0.79	0.07	0.07	2.68	2.71	7.25	7.31	0.44	0.44
Services	0.78	0.79	-7.47	-7.47	2.58	2.58	1.52	1.53	0.63	0.63

Note: * Returns are not annualized.

Source: Nomura

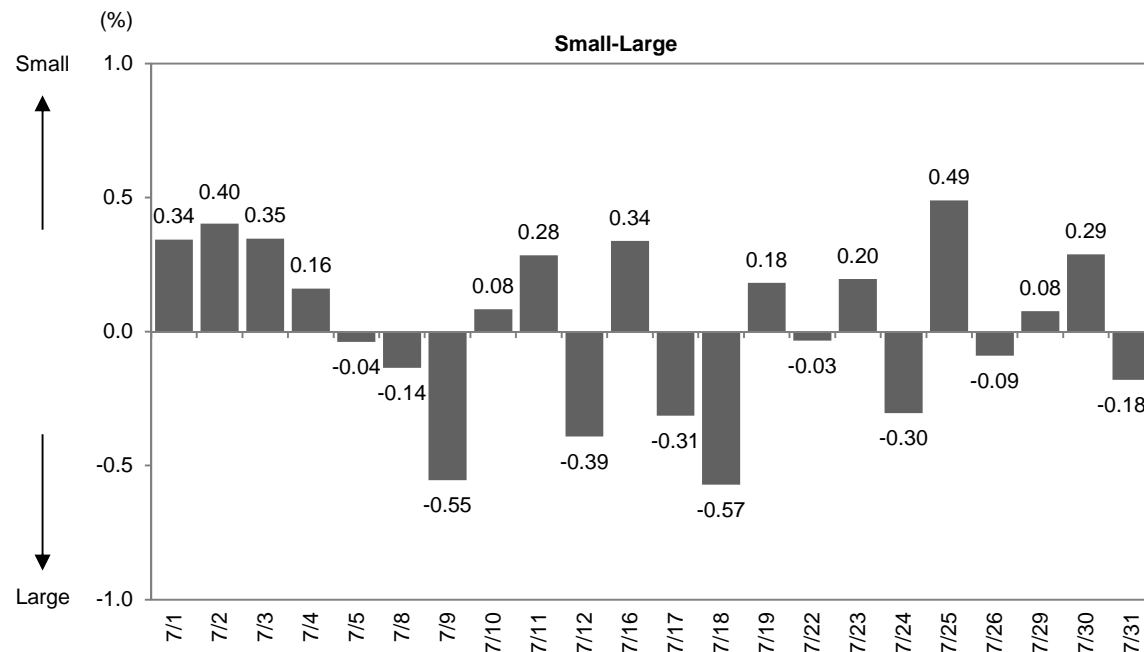
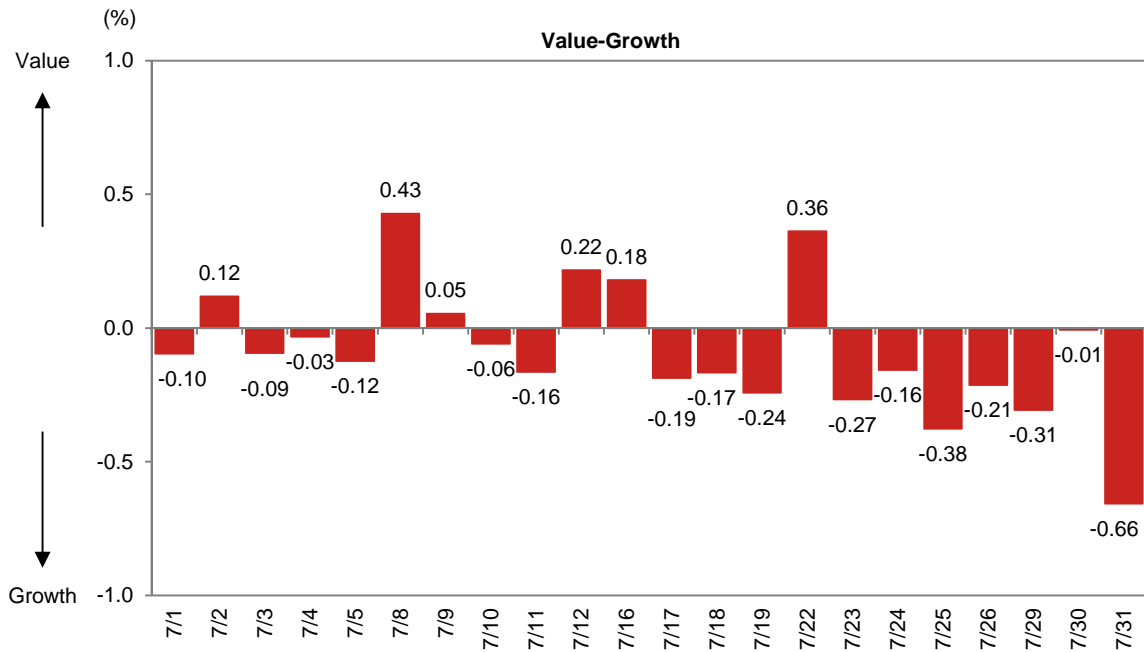
Fig. 6: Monthly performance



Note: Value-Growth is the difference between Value and Growth returns. Small-Large is the difference between Small and Large returns. Returns are not annualized.
Source: Nomura

Fig. 7: Daily performance

Total return



Note: Value-Growth is the difference between Value and Growth returns. Small-Large is the difference between Small and Large returns. Returns are not annualized.
 Source: Nomura

Fig. 8: Russell/Nomura Japan Equity Indexes

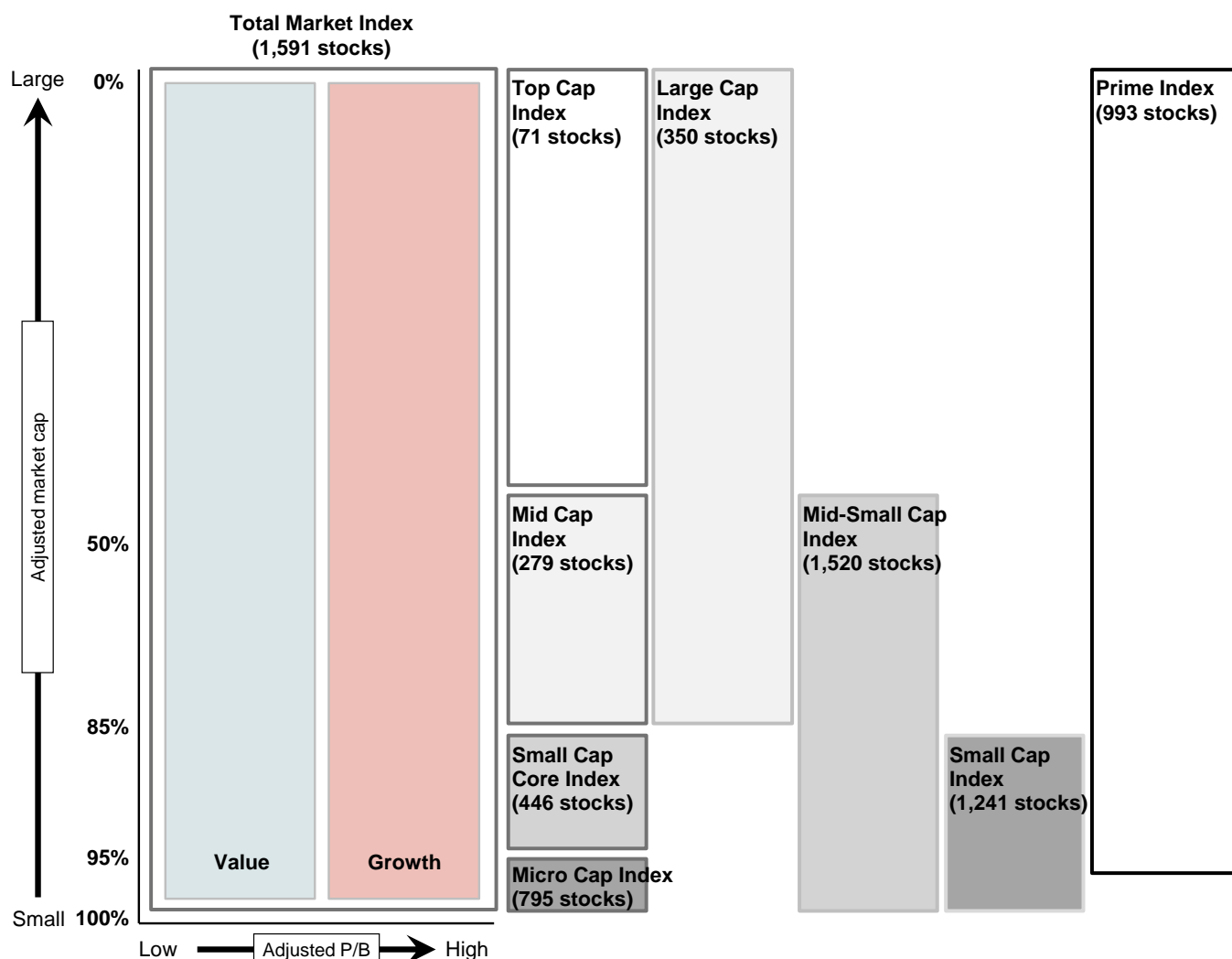
Key indicators (as of end-July 2019)

Index	P/E (x)	P/B (x)	Dividend yield (%)	ROE (%)	Rec profit growth (%)
Total Market	13.51	1.13	2.54	8.59	3.71
Value	10.36	0.76	3.24	7.48	5.84
Growth	19.13	2.16	1.86	11.71	0.14
Large	13.37	1.16	2.59	8.97	3.09
Large Value	10.09	0.77	3.36	7.88	5.45
Large Growth	18.96	2.14	1.90	11.72	-0.68
Top	12.95	1.16	2.78	9.21	3.16
Top Value	9.77	0.77	3.59	8.12	7.08
Top Growth	18.37	2.11	2.05	11.91	-2.76
Mid	14.09	1.17	2.30	8.58	2.98
Mid Value	10.65	0.78	3.00	7.49	2.82
Mid Growth	19.97	2.19	1.66	11.41	3.24
Mid-Small	14.18	1.10	2.28	7.96	4.38
Mid-Small Value	11.05	0.74	2.89	6.85	4.46
Mid-Small Growth	20.11	2.22	1.64	11.46	4.22
Small	14.38	0.96	2.23	6.82	7.74
Small Value	11.88	0.68	2.68	5.83	8.01
Small Growth	20.50	2.29	1.59	11.63	7.10
Small Core	14.23	0.98	2.26	7.04	10.37
Small Core Value	11.89	0.69	2.70	5.93	11.38
Small Core Growth	19.40	2.24	1.66	12.02	8.22
Micro	14.72	0.91	2.16	6.35	2.17
Micro Value	11.87	0.66	2.64	5.65	1.63
Micro Growth	23.87	2.43	1.39	10.56	3.91
Prime	13.48	1.13	2.55	8.66	3.74
Prime Value	10.33	0.76	3.26	7.54	5.97
Prime Growth	19.04	2.15	1.87	11.73	0.05

Note: All financial data are based on current-FY forecasts (with preference given to consolidated figures).

Source: Nomura

Fig. 9: Russell/Nomura Japan Equity Indexes



Note: No. of stocks in each index is as of end-July 2019.

Source: Nomura

All the indexes (Total Market, the capitalization indexes, Value, Growth, and Prime) also have indexes based on the 33 industrial sectors. Divisions based on market cap exclude the value of stable shareholdings. Value and Growth indexes are defined in terms of P/B ratios adjusted for unrealized gains/losses.

For composition rules and other information, please refer to *Russell/Nomura Japan Equity Indexes rulebook*.

Fig. 10: Russell/Nomura Japan Equity Indexes performance summary

Price return (excluding dividends), US dollar basis (as of end-July 2019)

Index	No. of stocks	Weight (%)	Index value	Returns (%) *				
				1 month	3 months	6 months	12 months	YTD
Total Market	1,591	100.00	781.22	0.17	-0.36	0.34	-8.02	7.15
Value	1,102	49.19	1,521.76	-0.73	-1.86	-4.33	-10.92	2.74
Growth	875	50.81	359.38	1.06	1.13	5.34	-4.96	11.80
Large	350	85.34	736.07	0.09	-0.27	0.42	-7.07	7.45
Large Value	223	40.57	1,385.81	-0.89	-1.76	-4.44	-9.67	3.05
Large Growth	231	44.77	366.85	1.00	1.12	5.30	-4.50	11.80
Top	71	52.39	577.14	0.39	1.24	2.54	-5.41	10.30
Top Value	47	24.87	1,193.58	-0.61	-0.10	-2.32	-8.28	5.51
Top Growth	46	27.52	300.77	1.31	2.47	7.42	-2.55	15.07
Mid	279	32.95	1,070.87	-0.37	-2.57	-2.77	-9.60	3.23
Mid Value	176	15.70	1,545.73	-1.32	-4.28	-7.61	-11.88	-0.62
Mid Growth	185	17.25	556.78	0.52	-0.97	2.10	-7.44	7.01
Mid-Small	1,520	47.61	1,077.27	-0.06	-2.06	-1.97	-10.73	3.88
Mid-Small Value	1,055	24.32	1,697.22	-0.85	-3.59	-6.30	-13.47	0.06
Mid-Small Growth	829	23.29	507.13	0.78	-0.41	3.01	-7.63	8.20
Small	1,241	14.66	1,080.54	0.64	-0.89	-0.11	-13.13	5.38
Small Value	879	8.62	1,859.98	0.02	-2.32	-3.81	-16.45	1.33
Small Growth	644	6.04	445.11	1.53	1.20	5.67	-8.04	11.75
Small Core	446	10.15	182.21	0.20	-1.47	-1.30	-13.72	4.46
Small Core Value	319	5.84	240.42	-0.64	-3.13	-5.63	-17.07	0.16
Small Core Growth	242	4.31	81.99	1.36	0.88	5.23	-8.72	10.92
Micro	795	4.51	217.02	1.64	0.42	2.66	-11.79	7.52
Micro Value	560	2.78	271.91	1.44	-0.56	0.23	-15.12	3.87
Micro Growth	402	1.74	90.05	1.95	2.01	6.79	-6.32	13.87
Prime	993	97.20	1,265.43	0.14	-0.39	0.26	-7.86	7.13
Prime Value	700	47.60	1,468.63	-0.80	-1.93	-4.51	-10.77	2.71
Prime Growth	549	49.61	1,019.60	1.06	1.12	5.33	-4.79	11.77

Note: * Returns are not annualized.

Source: Nomura

Fig. 11: Russell/Nomura Japan Equity Indexes performance summary

Total return (including dividends), US dollar basis (as of end-July 2019)

Index	No. of stocks	Weight (%)	Index value	Returns (%) *				
				1 month	3 months	6 months	12 months	YTD
Total Market	1,591	100.00	1,329.18	0.18	-0.17	1.66	-5.84	8.56
Value	1,102	49.19	2,756.59	-0.72	-1.69	-2.77	-8.34	4.43
Growth	875	50.81	574.73	1.07	1.35	6.39	-3.19	12.91
Large	350	85.34	1,257.34	0.10	-0.07	1.74	-4.82	8.88
Large Value	223	40.57	2,524.61	-0.87	-1.60	-2.86	-6.97	4.76
Large Growth	231	44.77	590.82	1.00	1.35	6.36	-2.68	12.93
Top	71	52.39	1,017.62	0.39	1.45	4.00	-2.89	11.87
Top Value	47	24.87	2,234.88	-0.61	0.05	-0.59	-5.26	7.38
Top Growth	46	27.52	504.27	1.31	2.74	8.60	-0.50	16.33
Mid	279	32.95	1,755.70	-0.35	-2.39	-1.65	-7.74	4.44
Mid Value	176	15.70	2,710.43	-1.29	-4.10	-6.26	-9.63	0.86
Mid Growth	185	17.25	848.49	0.52	-0.78	2.99	-5.98	7.94
Mid-Small	1,520	47.61	1,777.17	-0.04	-1.88	-0.80	-8.89	5.14
Mid-Small Value	1,055	24.32	2,984.98	-0.83	-3.41	-4.91	-11.29	1.57
Mid-Small Growth	829	23.29	772.68	0.79	-0.23	3.91	-6.18	9.16
Small	1,241	14.66	1,812.81	0.65	-0.71	1.17	-11.34	6.74
Small Value	879	8.62	3,293.24	0.03	-2.13	-2.33	-14.43	2.89
Small Growth	644	6.04	678.55	1.54	1.38	6.62	-6.60	12.76
Small Core	446	10.15	248.22	0.20	-1.29	-0.04	-11.93	5.80
Small Core Value	319	5.84	336.72	-0.64	-2.95	-4.20	-15.08	1.68
Small Core Growth	242	4.31	105.87	1.37	1.06	6.22	-7.23	11.97
Micro	795	4.51	300.67	1.66	0.60	3.98	-9.98	8.91
Micro Value	560	2.78	389.92	1.46	-0.37	1.81	-13.03	5.52
Micro Growth	402	1.74	114.21	1.98	2.18	7.64	-5.01	14.80
Prime	993	97.20	1,798.35	0.15	-0.20	1.58	-5.66	8.55
Prime Value	700	47.60	2,178.82	-0.78	-1.76	-2.95	-8.18	4.39
Prime Growth	549	49.61	1,390.95	1.06	1.35	6.38	-3.01	12.89

Note: * Returns are not annualized.

Source: Nomura

Data publication services

Data for the Russell/Nomura Japan Equity Indexes can be obtained via the following channels.¹

Index values are published in the following media:

- Bloomberg (RNJI)
- Jiji (RNSI/12400, RNSIIDV/12400)
- QUICK (NRIJ500–503, 510–517)
- Reuters (FRCNRI01, FRCNRI02, FRCNRI03, FRCNRI04, .JRNP, .JRNS)
- Our website (<http://qr.nomuraholdings.com/en/frcnri/index.html>)

Daily index values for the Russell/Nomura Prime Index are published in the following media:

- Bloomberg (RNPJ <INDEX>)
- Jiji (RNP/NOMURA)
- QUICK (140)

Daily index values for the Russell/Nomura Small Cap Core Index are published in the following media:

- QUICK (130)

More detailed data

More detailed data on index values and individual stock information can be obtained through Nomura Research Institute services Aurora, e-Aurora, and IDS.

For information, contact:

Nomura Research Institute
Investment Information Systems Business Department
+81-45-613-7200
e-mail: ids-sales@nri.co.jp

Other reports:

Russell/Nomura Japan Equity Indexes rulebook
Russell/Nomura Japan Equity Indexes handbook

While every effort is made to ensure that the information used in this report and all published information is based on reliable data, it should be noted that, at times, data may have changed or been amended.

¹ Published data are all for reference only.

Contact:

Nomura Securities, Tokyo

Global Research Division, Financial Engineering & Technology Research Center

Index Operations Dept.

TEL : +81 (0)3 6703 3986 e-mail: idx_mgr@jp.nomura.com

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 accuracy, completeness, 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.

Appendix A-1

Analyst Certification

I, Index Operations Dept., hereby certify (1) that the views expressed in this Research report accurately reflect my personal views about any or all of the subject securities or issuers referred to in this Research report, (2) no part of my compensation was, is or will be directly or indirectly related to the specific recommendations or views expressed in this Research report and (3) no part of my compensation is tied to any specific investment banking transactions performed by Nomura Securities International, Inc., Nomura International plc or any other Nomura Group company.

Important Disclosures

The lists of issuers that are affiliates or subsidiaries of Nomura Holdings Inc., the parent company of Nomura Securities Co., Ltd., issuers that have officers who concurrently serve as officers of Nomura Securities Co., Ltd., issuers in which the Nomura Group holds 1% or more of any class of common equity securities and issuers for which Nomura Securities Co., Ltd. has lead managed a public offering of equity or equity linked securities in the past 12 months are available at <https://www.nomuraholdings.com/report/>. Please contact the Research Production Operation Dept. of Nomura Securities Co., Ltd. for additional information.

Online availability of research and conflict-of-interest disclosures

Nomura Group research is available on www.nomuranow.com/research, Bloomberg, Capital IQ, Factset, Reuters and ThomsonOne. Important disclosures may be read at <http://go.nomuranow.com/research/globalresearchportal/pages/disclosures/disclosures.aspx> or requested from Nomura Securities International, Inc., or Instinet, LLC on 1-877-865-5752. If you have any difficulties with the website, please email grpsupport@nomura.com for help.

The analysts responsible for preparing this report have received compensation based upon various factors including the firm's total revenues, a portion of which is generated by Investment Banking activities. Unless otherwise noted, the non-US analysts listed at the front of this report are not registered/qualified as research analysts under FINRA rules, may not be associated persons of NSI or ILLC, and may not be subject to FINRA Rule 2241 restrictions on communications with covered companies, public appearances, and trading securities held by a research analyst account.

Nomura Global Financial Products Inc. ("NGFP") Nomura Derivative Products Inc. ("NDPI") and Nomura International plc. ("NIplc") are registered with the Commodities Futures Trading Commission and the National Futures Association (NFA) as swap dealers. NGFP, NDPI, and NIplc are generally engaged in the trading of swaps and other derivative products, any of which may be the subject of this report.

Distribution of ratings (Nomura Group)

The distribution of all ratings published by Nomura Group Global Equity Research is as follows:

51% have been assigned a Buy rating which, for purposes of mandatory disclosures, are classified as a Buy rating; 46% of companies with this rating are investment banking clients of the Nomura Group*. 0% of companies (which are admitted to trading on a regulated market in the EEA) with this rating were supplied material services** by the Nomura Group.

44% have been assigned a Neutral rating which, for purposes of mandatory disclosures, is classified as a Hold rating; 55% of companies with this rating are investment banking clients of the Nomura Group*. 0% of companies (which are admitted to trading on a regulated market in the EEA) with this rating were supplied material services by the Nomura Group

5% have been assigned a Reduce rating which, for purposes of mandatory disclosures, are classified as a Sell rating; 14% of companies with this rating are investment banking clients of the Nomura Group*. 0% of companies (which are admitted to trading on a regulated market in the EEA) with this rating were supplied material services by the Nomura Group.

As at 30 June 2019.

*The Nomura Group as defined in the Disclaimer section at the end of this report.

** As defined by the EU Market Abuse Regulation

Distribution of ratings (Instinet, LLC)

The distribution of all ratings published by Instinet, LLC Equity Research is as follows:

54% have been assigned a Buy rating which, for purposes of mandatory disclosures, are classified as a Buy rating; Instinet LLC has provided investment banking services to 0% of companies with this rating within the previous 12 months.

42% have been assigned a Neutral rating which, for purposes of mandatory disclosures, is classified as a Hold rating; Instinet LLC has provided investment banking services to 0% of companies with this rating within the previous 12 months.

4% have been assigned a Reduce rating which, for purposes of mandatory disclosures, are classified as a Sell rating; Instinet LLC has provided investment banking services to 0% of companies with this rating within the previous 12 months.

Definition of Nomura Group's equity research rating system and sectors

The rating system is a relative system, indicating expected performance against a specific benchmark identified for each individual stock, subject to limited management discretion. An analyst's target price is an assessment of the current intrinsic fair value of the stock based on an appropriate valuation methodology determined by the analyst. Valuation methodologies include, but are not limited to, discounted cash flow analysis, expected return on equity and multiple analysis. Analysts may also indicate expected absolute upside/downside relative to the stated target price, defined as (target price - current price)/current price.

STOCKS

A rating of '**Buy**', indicates that the analyst expects the stock to outperform the Benchmark over the next 12 months. A rating of '**Neutral**', indicates that the analyst expects the stock to perform in line with the Benchmark over the next 12 months. A rating of '**Reduce**', indicates that the analyst expects the stock to underperform the Benchmark over the next 12 months. A rating of '**Suspended**', indicates that the rating, target

price and estimates have been suspended temporarily to comply with applicable regulations and/or firm policies. Securities and/or companies that are labelled as **'Not rated'** or shown as **'No rating'** are not in regular research coverage. Investors should not expect continuing or additional information from Nomura relating to such securities and/or companies. Benchmarks are as follows: **United States/Europe/Asia ex-Japan**: please see valuation methodologies for explanations of relevant benchmarks for stocks, which can be accessed at: <http://go.nomuranow.com/research/globalresearchportal/pages/disclosures/disclosures.aspx>; **Global Emerging Markets (ex-Asia)**: MSCI Emerging Markets ex-Asia, unless otherwise stated in the valuation methodology; **Japan**: Russell/Nomura Large Cap.

SECTORS

A **'Bullish'** stance, indicates that the analyst expects the sector to outperform the Benchmark during the next 12 months. A **'Neutral'** stance, indicates that the analyst expects the sector to perform in line with the Benchmark during the next 12 months. A **'Bearish'** stance, indicates that the analyst expects the sector to underperform the Benchmark during the next 12 months. Sectors that are labelled as **'Not rated'** or shown as **'N/A'** are not assigned ratings. Benchmarks are as follows: **United States**: S&P 500; **Europe**: Dow Jones STOXX 600; **Global Emerging Markets (ex-Asia)**: MSCI Emerging Markets ex-Asia. **Japan/Asia ex-Japan**: Sector ratings are not assigned.

Target Price

A Target Price, if discussed, indicates the analyst's forecast for the share price with a 12-month time horizon, reflecting in part the analyst's estimates for the company's earnings. The achievement of any target price may be impeded by general market and macroeconomic trends, and by other risks related to the company or the market, and may not occur if the company's earnings differ from estimates.

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 the publication. The term "Nomura Group" used herein refers to Nomura Holdings, Inc. and its affiliates and subsidiaries including: Nomura Securities Co., Ltd. ('NSC') Tokyo, Japan; Nomura Financial Products Europe GmbH ('NFPE'), Germany; Nomura International plc ('Nlplc'), UK; Nomura Securities International, Inc. ('NSI'), New York, US; Instinet, LLC ('ILLC'); Nomura International (Hong Kong) Ltd. ('NIHK'), Hong Kong; 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>); Nomura Singapore Ltd. ('NSL'), Singapore (Registration number 197201440E, regulated by the Monetary Authority of Singapore); 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; PT Nomura Sekuritas Indonesia ('PTNSI'); Nomura Securities Malaysia Sdn. Bhd. ('NSM'), Malaysia; NIHK, Taipei Branch ('NITB'), Taiwan; 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. The "BDO-NS" (which stands for "BDO Nomura Securities, Inc.") placed next to an analyst's name on the front page of a research report indicates that the analyst is employed by BDO Unibank Inc. ("BDO Unibank") who has been seconded to BDO-NS, to provide research assistance services to NSL under an agreement between BDO Unibank, NSL and BDO-NS. BDO-NS is a Philippines securities dealer, which is a joint venture between BDO Unibank and the Nomura Group.

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 SECURITY 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 or represent that the document is accurate, complete, reliable, fit for any particular purpose or merchantable and does not accept liability for any act (or decision not to act) resulting from use of this document and related data. To the maximum extent permissible all warranties and other assurances by the Nomura Group are hereby excluded and the Nomura Group shall have no liability for the use, misuse, or distribution of this information.

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 is under no duty to update 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 and employees, 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 ratings from credit ratings agencies such as Standard & Poor's. 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 guarantee the accuracy, completeness, timeliness or availability of any information, including ratings, and are not responsible for any errors or omissions (negligent or otherwise), regardless of the cause, or for the results obtained from the use 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 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 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 reproduced, re-disseminated or used to create any financial products, including 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 warranties of originality, accuracy, completeness, merchantability or fitness for a particular purpose with respect to any of this information. 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 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 accuracy, completeness, 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 performance. Where the information contains an indication of future performance, such forecasts may not be a reliable indicator of future 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 NIPIC. NIPIC is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and the Prudential Regulation Authority. NIPIC 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 NIIHK, which is regulated by the Hong Kong Securities and Futures Commission, for distribution in Hong Kong by NIIHK. 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. NSL accepts legal responsibility for the content of this document, where it concerns securities, futures and foreign exchange, issued by their foreign affiliates in respect of recipients who are not accredited, expert or institutional investors as defined by the Securities and Futures Act (Chapter 289). Recipients of this document in Singapore should contact NSL in respect of matters arising from, or in connection with, this document. 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 the Qatar Financial Centre Regulatory Authority) in the State of Qatar ('Qatar') by Nomura Saudi Arabia, NIPIC 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 Canadian Investors: This research report was approved for distribution to Canadian investors by Instinet Canada Limited ("ICL"), member of the Investment Industry Regulatory Organization of Canada ("IIROC") and member of the Canadian Investor Protection Fund. An affiliate of ICL prepared the research report (an "Affiliate Research Report") in accordance with the regulatory requirements applicable to research in the affiliate's local jurisdiction, which include conflict of interest disclosure. ICL reviewed this Affiliate Research Report for the purpose of ensuring Canadian disclosures required by IIROC are included. ICL does not receive compensation in respect of the distribution of Affiliate Research Reports. Pursuant to ICL's policies and procedures regarding the dissemination of research, ICL makes available Affiliate Research Reports to ICL clients and prospective clients only, in electronic and/or in printed form. ICL endeavours to make available and/or distribute Affiliate Research Reports to all intended recipients at the same time. This Affiliate Research Report is not a recommendation and does not take into account the investment objectives, financial situation or particular needs of any particular account.

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.**

NO PART OF THIS MATERIAL MAY BE (I) COPIED, PHOTOCOPIED, OR DUPLICATED IN ANY FORM, BY ANY MEANS; OR (II) 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 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.

Disclaimers required in Japan

Credit ratings in the text that are marked with an asterisk (*) are issued by a rating agency not registered under Japan's Financial Instruments and Exchange Act ("Unregistered Ratings"). For details on Unregistered Ratings, please contact the Research Product Management Dept. of Nomura Securities Co., Ltd.

Investors in the financial products offered by Nomura Securities may incur fees and commissions specific to those products (for example, transactions involving Japanese equities are subject to a sales commission (all figures on a tax-inclusive basis) of up to 1.404% of the transaction amount or a commission of ¥2,808 for transactions of ¥200,000 or less, while transactions involving investment trusts are subject to various fees, such as commissions at the time of purchase and asset management fees (trust fees), specific to each investment trust). In addition, all products carry the risk of losses owing to price fluctuations or other factors. Fees and risks vary by product. Please thoroughly read the written materials provided, such as documents delivered before making a contract, listed securities documents, or prospectuses.

Transactions involving Japanese equities (including Japanese REITs, Japanese ETFs, and Japanese ETNs) are subject to a sales commission of up to 1.404% of the transaction amount (or a commission of ¥2,808 for transactions of ¥200,000 or less). When Japanese equities are purchased via OTC transactions (including offerings), only the purchase price shall be paid, with no sales commission charged. However, Nomura Securities may charge a separate fee for OTC transactions, as agreed with the customer. Japanese equities carry the risk of losses owing to price fluctuations. Japanese REITs carry the risk of losses owing to fluctuations in price and/or earnings of underlying real estate. Japanese ETFs carry the risk of losses owing to fluctuations in the underlying indexes or other benchmarks.

Transactions involving foreign equities are subject to a domestic sales commission of up to 1.026% of the transaction amount (which equals the local transaction amount plus local fees and taxes in the case of a purchase or the local transaction amount minus local fees and taxes in the case of a sale) (for transaction amounts of ¥750,000 and below, maximum domestic sales commission is ¥7,668). Local fees and taxes in foreign financial instruments markets vary by country/territory. When foreign equities are purchased via OTC transactions (including offerings), only the purchase price shall be paid, with no sales commission charged. However, Nomura Securities may charge a separate fee for OTC transactions, as agreed with the customer. Foreign equities carry the risk of losses owing to factors such as price fluctuations and foreign exchange rate fluctuations.

Margin transactions are subject to a sales commission of up to 1.404% of the transaction amount (or a commission of ¥2,808 for transactions of ¥200,000 or less), as well as management fees and rights handling fees. In addition, long margin transactions are subject to interest on the purchase amount, while short margin transactions are subject to fees for the lending of the shares borrowed. A margin equal to at least 30% of the transaction amount (at least 33% for online transactions) and at least ¥300,000 is required. With margin transactions, an amount up to roughly 3.3x the margin (roughly 3x for online transactions) may be traded. Margin transactions therefore carry the risk of losses in excess of the margin owing to share price fluctuations. For details, please thoroughly read the written materials provided, such as listed securities documents or documents delivered before making a contract.

Transactions involving convertible bonds are subject to a sales commission of up to 1.08% of the transaction amount (or a commission of ¥4,320 if this would be less than ¥4,320). When convertible bonds are purchased via OTC transactions (including offerings), only the purchase price shall be paid, with no sales commission charged. However, Nomura Securities may charge a separate fee for OTC transactions, as agreed with the customer. Convertible bonds carry the risk of losses owing to factors such as interest rate fluctuations and price fluctuations in the underlying stock. In addition, convertible bonds denominated in foreign currencies also carry the risk of losses owing to factors such as foreign exchange rate fluctuations.

When bonds are purchased via public offerings, secondary distributions, or other OTC transactions with Nomura Securities, only the purchase price shall be paid, with no sales commission charged. Bonds carry the risk of losses, as prices fluctuate in line with changes in market interest rates. Bond prices may also fall below the invested principal as a result of such factors as changes in the management and financial circumstances of the issuer, or changes in third-party valuations of the bond in question. In addition, foreign currency-denominated bonds also carry the risk of losses owing to factors such as foreign exchange rate fluctuations.

When Japanese government bonds (JGBs) for individual investors are purchased via public offerings, only the purchase price shall be paid, with no sales commission charged. As a rule, JGBs for individual investors may not be sold in the first 12 months after issuance. When JGBs for individual investors are sold before maturity, an amount calculated via the following formula will be subtracted from the par value of the bond plus accrued interest: (1) for 10-year variable rate bonds, an amount equal to the two preceding coupon payments (before tax) x 0.79685 will be used, (2) for 5-year and 3-year fixed rate bonds, an amount equal to the two preceding coupon payments (before tax) x 0.79685 will be used.

When inflation-indexed JGBs are purchased via public offerings, secondary distributions (uridashi deals), or other OTC transactions with Nomura Securities, only the purchase price shall be paid, with no sales commission charged. Inflation-indexed JGBs carry the risk of losses, as prices fluctuate in line with changes in market interest rates and fluctuations in the nationwide consumer price index. The notional principal of inflation-indexed JGBs changes in line with the rate of change in nationwide CPI inflation from the time of its issuance. The amount of the coupon payment is calculated by multiplying the coupon rate by the notional principal at the time of payment. The maturity value is the amount of the notional principal when the issue becomes due. For J17 and subsequent issues, the maturity value shall not undercut the face amount. Purchases of investment trusts (and sales of some investment trusts) are subject to a purchase or sales fee of up to 5.4% of the transaction amount. Also, a direct cost that may be incurred when selling investment trusts is a fee of up to 2.0% of the unit price at the time of redemption. Indirect costs that may be incurred during the course of holding investment trusts include, for domestic investment trusts, an asset management fee (trust fee) of up to 5.4% (annualized basis) of the net assets in trust, as well as fees based on investment performance. Other indirect costs may also be incurred. For foreign investment trusts, indirect fees may be incurred during the course of holding such as investment company compensation.

Investment trusts invest mainly in securities such as Japanese and foreign equities and bonds, whose prices fluctuate. Investment trust unit prices fluctuate owing to price fluctuations in the underlying assets and to foreign exchange rate fluctuations. As such, investment trusts carry the risk of losses. Fees and risks vary by investment trust. Maximum applicable fees are subject to change; please thoroughly read the written materials provided, such as prospectuses or documents delivered before making a contract.

In interest rate swap transactions and USD/JPY basis swap transactions ("interest rate swap transactions, etc."), only the agreed transaction payments shall be made on the settlement dates. Some interest rate swap transactions, etc. may require pledging of margin collateral. In some of these cases, transaction payments may exceed the amount of collateral. There shall be no advance notification of required collateral value or collateral ratios as they vary depending on the transaction. Interest rate swap transactions, etc. carry the risk of losses owing to fluctuations in market prices in the interest rate, currency and other markets, as well as reference indices. Losses incurred as such may exceed the value of margin collateral, in which case margin calls may be triggered. In the event that both parties agree to enter a replacement (or termination) transaction, the interest rates received (paid) under the new arrangement may differ from those in the original arrangement, even if terms other

than the interest rates are identical to those in the original transaction. Risks vary by transaction. Please thoroughly read the written materials provided, such as documents delivered before making a contract and disclosure statements.

In OTC transactions of credit default swaps (CDS), no sales commission will be charged. When entering into CDS transactions, the protection buyer will be required to pledge or entrust an agreed amount of margin collateral. In some of these cases, the transaction payments may exceed the amount of margin collateral. There shall be no advance notification of required collateral value or collateral ratios as they vary depending on the financial position of the protection buyer. CDS transactions carry the risk of losses owing to changes in the credit position of some or all of the referenced entities, and/or fluctuations of the interest rate market. The amount the protection buyer receives in the event that the CDS is triggered by a credit event may undercut the total amount of premiums that he/she has paid in the course of the transaction. Similarly, the amount the protection seller pays in the event of a credit event may exceed the total amount of premiums that he/she has received in the transaction. All other conditions being equal, the amount of premiums that the protection buyer pays and that received by the protection seller shall differ. In principle, CDS transactions will be limited to financial instruments business operators and qualified institutional investors. No account fee will be charged for marketable securities or monies deposited. Transfers of equities to another securities company via the Japan Securities Depository Center are subject to a transfer fee of up to ¥10,800 per issue transferred depending on volume.

Nomura Securities Co., Ltd.

Financial instruments firm registered with the Kanto Local Finance Bureau (registration No. 142)

Member associations: Japan Securities Dealers Association; Japan Investment Advisers Association; The Financial Futures Association of Japan; and Type II Financial Instruments Firms Association.

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 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 © 2019 Nomura Securities Co., Ltd. All rights reserved.