

Style Cycle

'Recovery' begins

Quantitative Strategy

Style Cycle moves into 'Recovery'

The European Composite Macro Indicator (CMI) increased in March, moving the Style Cycle into the 'Recovery' phase for the first time since 2020. On average, 'Recovery' phases last for 6 months, within a range of 3-14 months. In this phase, we prefer Value over Growth, Rising Momentum, Low Quality, High Risk and Small over Large caps. For the latest 'Recovery' screens see Exhibit 42 and Appendix: additional screens.

Inputs signals split; globally synchronised upturn

The rise in the CMI this month has been driven by three inputs: PPI, GDP forecasts and the Global EPS Revision Ratio, increases in which outweighed declines in the other three: BofA Europe Leading Indicator, German IFO and 12m change in European 10Y bond yield. With the increase in the CMI, we now see all BofA quantitative models being synchronised in the upturn (see Global Wave: Moving on up 14 February 2024 and Quantitative Profiles: Title: After four years of waiting... 12 March 2024).

What re-rates the most in 'Recovery'?

During 'Recovery' episodes, European equities' 12m fwd P/E re-rates by 9.1% on average. Norway, Italy, Spain, Energy, Basic Resources and Autos historically have rerated strongly and are screening attractively in the current 'Recovery' episode (Exhibit 10 & Exhibit 11). The top Recovery stocks currently trade at a 29% 12m fwd P/E discount to the market, relative to the long-term average, and they typically re-rate by 3.7% in the 'Recovery' phase (Exhibit 49).

Exhibit 2: The European Composite Macro Indicator (CMI) up in March

European Composite Macro Indicator (CMI) and its monthly changes



Source: BofA European Equity Quant Strategy – Based on BY, GDP Forecasts, OECD, IFO Survey, PPI & EPS Revs. The sentiment indicator identified as European Composite Macro Indicator above is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research.

BofA GLOBAL RESEARCH

14 March 2024

Quant Strategy Europe

Data Analytics



Paulina Strzelinska >> Quant Strategist MLI (UK) +44 20 7996 7059 paulina.strzelinska@bofa.com

The European 'Style Cycle' marries phases of the economic cycle with investment style returns.

Exhibit 1: Summary of Europe's macro signals

3 out of 6 inputs are rising

Inputs of EU Composite Macro Indicator

Macro IndicatorDirectionBofA Europe Leading IndicatorFALLINGGerman IFO IndicatorFALLING12mth Change in Pan EU BYFALLINGProducer Price InflationRISINGPan Europe. Cons. GDP ForecastsRISINGGlobal EPS Revision RatioRISING

Source: BofA European Equity Quant Strategy.

BofA GLOBAL RESEARCH

Trading ideas and investment strategies discussed herein may give rise to significant risk and are not suitable for all investors. Investors should have experience in relevant markets and the financial resources to absorb any losses arising from applying these ideas or strategies.

>> Employed by a non-US affiliate of BofAS and is not registered/qualified as a research analyst under the FINRA rules.

Refer to "Other Important Disclosures" for information on certain BofA Securities entities that take responsibility for the information herein in particular jurisdictions.

BofA Securities does and seeks to do business with issuers covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

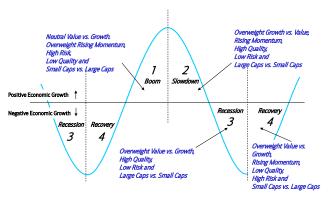
Refer to important disclosures on page 24 to 26.

Timestamp: 14 March 2024 01:30AM EDT

Summary - European Style Cycle

Exhibit 3: European Style Cycle framework

Style Cycle is currently in the 'Recovery' phase



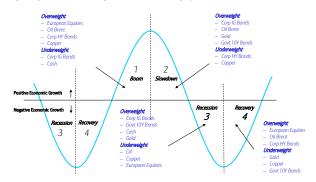
<u>Phase 1</u>- Rising & Accelerating; <u>Phase 2</u>- Rising & Decelerating; <u>Phase 3</u>- Falling & Decelerating; <u>Phase 4</u>- Falling & Accelerating; <u>Phase 4</u>- Falling & Accelerating; <u>Phase 4</u>- Falling & Decelerating; <u>Phase 4</u>- Falling

Source: BofA European Equity Quant Strategy

BofA GLOBAL RESEARCH

Exhibit 4: Suggested European cross-asset allocations in respective phases of the Style Cycle

Style Cycle is currently in the 'Recovery' phase



<u>Phase 1</u>- Rising & Accelerating; <u>Phase 2</u>- Rising & Decelerating; <u>Phase 3</u>- Falling & Decelerating; <u>Phase 4</u>- Falling & Accelerating

Source: BofA European Equity Quant Strategy

BofA GLOBAL RESEARCH

Exhibit 5: Economic signals generated over the past 18m from the EU Composite Macro Indicator

Style Cycle is currently in the 'Recovery' phase



Source: BofA European Equity Quant Strategy – Based on BY, GDP Forecasts, BofA Europe LI, IFO Survey, PPI & EPS Revision Ratio.

Macro signals were up over the month.

This month 3 out of 6 indicators are rising and 3 are falling.

Our European Composite Macro Indicator (CMI) is a composite index based on 6 variables:

- 1) 12m change in European bond yields,
- 2) 12m forward consensus GDP forecasts,
- 3) 12m change in BofA Europe Leading Indicator
- 4) Germany's IFO Survey,
- 5) 12m change in European PPI and
- 6) Global consensus EPS Revision Ratio

See Exhibit 63 for a complete list of the historical phases of the economic cycle according to the Composite Macro Indicator (CMI).

Exhibit 6: Style Cycle 'Recovery' preference and styles' exposures by country

As of the end of the last month

Name	Style Cycle Preference (100-Top)	Value Rank (100=Cheap)	Growth Rank (100=High)	Momentum Rank (100=Rising)	Quality Rank (100=High)	Risk Rank (100=High)	Size Rank (100=High)
Spain	92	73	63	75	28	62	49
Italy	78	77	59	61	43	64	47
Norway	77	74	39	41	44	54	33
Finland	69	65	41	44	44	52	41
Germany	61	59	49	48	41	63	50
Sweden	54	42	52	47	53	55	40
UK	54	61	43	50	47	43	50
France	41	45	48	41	50	45	53
Netherlands	35	27	68	57	65	71	53
Switzerland	26	36	39	39	60	37	54
Denmark	25	16	76	76	70	35	53

Source: BofA European Equity Quant Strategy. Note: The exposure/preference are market cap weighted average Styles ranks /Style Cycle Rank aggregated from the stock level, 100 indicates the highest exposure to the Style/Style Cycle phase, 50 is equal to market cap weighted average, while 1 indicates the lowest exposure to the Style/Style Cycle phase



Exhibit 7: Style Cycle 'Recovery' preference and styles' exposures by sector As of the end of the last month

Name	Style Cycle Preference (100-Top)	Value Rank (100=Cheap)	Growth Rank (100=High)	Momentum Rank (100=Rising)	Quality Rank (100=High)	Risk Rank (100=High)	Size Rank (100=High)
Banks (SX7P)	100	99	64	60	15	76	50
Real Estate (SX86P)	100	99	64	60	15	76	50
Utilities (SX6P)	86	80	48	76	23	26	46
Energy (S600ENP)	79	97	17	29	43	81	54
Telecoms (SXKP)	79	75	35	42	21	41	46
Basic Resources (SXPP)	79	83	18	49	61	75	45
Autos (SXAP)	78	88	44	46	56	86	50
Financial Svs (SXFP)	69	44	45	52	39	67	47
Insurance (SXIP)	64	78	55	45	31	49	50
Travel & Leisure (SXTP)	58	38	77	54	40	63	42
Construction (SXOP)	56	50	55	56	45	52	48
Retail (SXRP)	46	43	63	66	65	47	41
Chemicals (SX4P)	45	41	42	28	45	51	47
Industrial Gds & Svs (SXNP)	44	34	59	59	57	58	47
PCDG Stores (S600PDP)	27	53	44	42	55	9	49
Media (SXMP)	25	24	58	56	65	22	50
Food, Bev & Tobacco (S600FOP)	25	40	31	34	54	21	52
Technology (SX8P)	21	14	63	55	71	69	54
Consumer Pdts and Svs (S600CPP)	20	18	51	29	69	39	53
Health Care (SXDP)	19	32	54	54	65	26	54

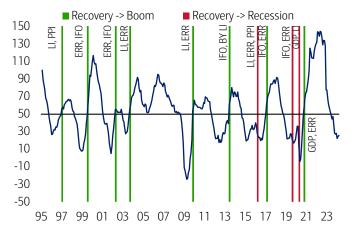
Source: BofA European Equity Quant Strategy. Note: The exposure/preference are market cap weighted average Styles ranks / Style Cycle Rank aggregated from the stock level, 100 indicates the highest exposure to the Style/Style Cycle phase, 50 is equal to market cap weighted average, while 1 indicates the lowest exposure to the Style/Style Cycle phase



Charts of the month

Exhibit 8: Historically, 'Recovery' was usually followed by 'Boom', while rarely by the 'Recession' phase

European Composite Macro Indicator and historical instances of moves from 'Recovery' into 'Boom' or 'Recession' with the main drivers of the change highlighted

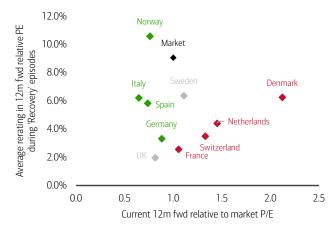


Source: BofA European Equity Quant Strategy

BofA GLOBAL RESEARCH

Exhibit 10: Norway, Italy and Spain screen attractively and have historically re-rated strongly in the 'Recovery' phase

Style Cycle 'Recovery' countries preferences (green: top, grey: neutral, red: bottom) versus current 12m trailing P/E relative to MSCI Europe and the historical average of re-rating recorded in 'Recovery' episodes

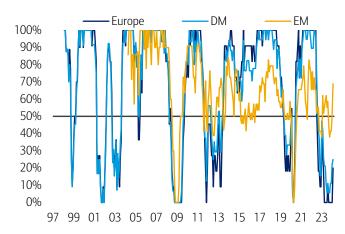


Source: BofA European Equity Quant Strategy, MSCI

BofA GLOBAL RESEARCH

Exhibit 9: February noted first European country with a reading in expansion territory - Spain

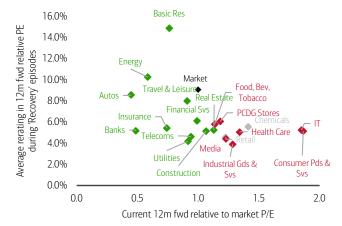
% of countries with PMI Mfg/Whole Economy readings above 50 in Developed Europe (dark blue), Developed Markets (light blue) and Emerging Markets (yellow)



Source: BofA European Equity Quant Strategy, Refinitiv, S&P. PMI surveys conducted by the S&P/Markit.

Exhibit 11: Energy, Basic Resources and Autos screen attractively and have historically re-rated strongly in the 'Recovery' phase

Style Cycle 'Recovery' sectors preferences (green: top, grey: neutral, red: bottom) versus current 12m trailing P/E relative to MSCI Europe and the historical average of re-rating recorded in 'Recovery' episodes



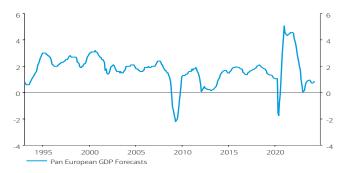
Source: BofA European Equity Quant Strategy, Refinitiv



European Composite Macro Indicator (CMI) - RISING - inputs overview

Exhibit 12: Input is RISING, z-score went up to -0.80, increasing for the third consecutive month to the highest level since Oct '23

Pan Europe – Economists' 12m fwd GDP forecasts

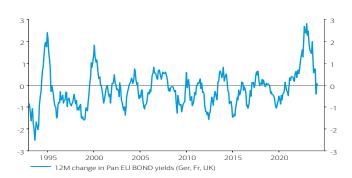


Source: BofA European Equity Quant Strategy, Consensus Economics

BofA GLOBAL RESEARCH

Exhibit 14: Input is **FALLING**, z-score fell to 0.14, but remained staying in the positive territory

12m change in 10Y European Bond Yield (average of Germany, France, UK)



Source: BofA European Equity Quant Strategy, Refinitiv

BofA GLOBAL RESEARCH

Exhibit 16: Input is RISING, z-score improved to -1.27, the highest reading since Sep '23

Pan European Inflation (PPI) - 12m change



Source: BofA European Equity Quant Strategy, Refinitiv

BofA GLOBAL RESEARCH

Exhibit 13: Input is **FALLING**, z-score dropped to 0.17, the lowest reading since Jul '23

12m change in BofA Europe Leading Indicator



Source: BofA European Equity Quant Strategy, OECD

BofA GLOBAL RESEARCH

Exhibit 15: Input is FALLING, z-score declined further to -1.65, the lowest reading since Jun '20

German IFO Indicator

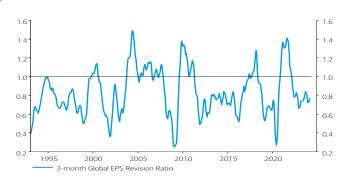


Source: BofA European Equity Quant Strategy, IFO Institute

BofA GLOBAL RESEARCH

Exhibit 17: Input is RISING, z-score increased to -0.28, the highest reading since Nov '23

Global EPS Revision Ratio (>1 = net EPS upgrades)

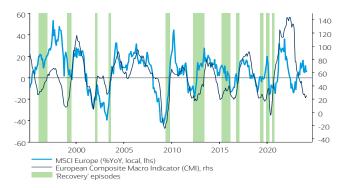


Source: BofA European Equity Quant Strategy, IBES, MSCI



Key Charts

Exhibit 18: European equities are sensitive to moves in the CMI European CMI versus MSCI Europe performance (%YoY)



Source: BofA European Equity Quant Strategy, Refinitiv

BofA GLOBAL RESEARCH

Exhibit 20: Typically, beta of best performing stocks moves in-line with CMI

European CMI versus beta of the best performing stocks over past 12m



Source: BofA European Equity Quant Strategy

BofA GLOBAL RESEARCH

Exhibit 22: European equities' lower risk premium is improving as the bond yield declines and dividend yield increases

European equities lower risk premium (lower risk premium = dividend yield minus European 10Y bond yield)

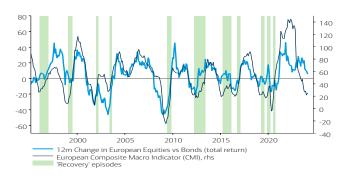


Source: BofA European Equity Quant Strategy, Refinitiv. Note: European bond yield is average of UK, France and Germany 10Y bond yields

BofA GLOBAL RESEARCH

Exhibit 19: European equities vs bonds performance is sensitive to moves in the CMI

European CMI versus European equities to bonds performance (%YoY)

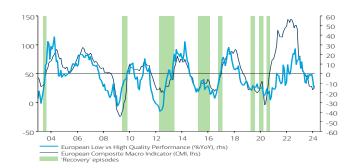


Source: BofA European Equity Quant Strategy, Refinitiv, ICE

BofA GLOBAL RESEARCH

Exhibit 21: Low versus High Quality style performance is sensitive to moves in the CMI

European CMI versus Low vs High Quality performance (%YoY)

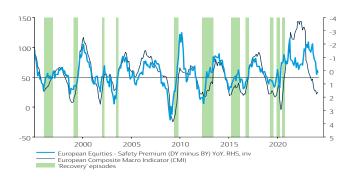


Source: BofA European Equity Quant Strategy

BofA GLOBAL RESEARCH

Exhibit 23: Typically, European lower risk premium moves in-line with CMI

European CMI versus actual yearly change in European equities lower risk premium (lower risk premium = dividend yield minus European 10Y bond yield)



Source: BofA European Equity Quant Strategy. Note: European bond yield is average of UK, France and Germany 10Y bond yields



Exhibit 24: European 12m fwd P/E is sensitive to moves in the CMI European CMI versus MSCI Europe's 12m fwd P/E

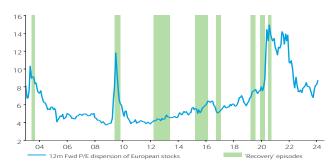


Source: BofA European Equity Quant Strategy, Refinitiv

BofA GLOBAL RESEARCH

Exhibit 26: The current P/E dispersion stands at 8.7

European stocks - standard deviation of 12m Fwd P/E excluding 1% of top and bottom extreme readings

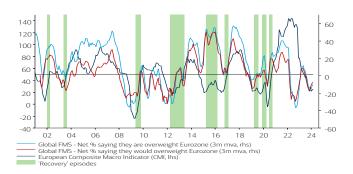


Source: BofA European Equity Quant Strategy, MSCI, I/B/E/S

BofA GLOBAL RESEARCH

Exhibit 28: Net 10% of global investors say they are underweight Europe in February and a net 9% of them intend to underweight the region over the next 12 months

Please indicate for each of the following equity markets, how overweight or underweight you consider your position to be relative to your internal benchmark:



Source: BofA European Equity Quant Strategy, BofA Global Fund Manager Survey

Exhibit 25: Typically, European YoY change in 12m fwd P/E moves in-line with CMI

European CMI versus MSCI Europe's 12m fwd P/E YoY change

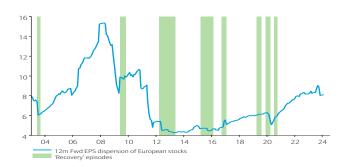


Source: BofA European Equity Quant Strategy, Refinitiv

BofA GLOBAL RESEARCH

Exhibit 27: The current 12m Fwd EPS dispersion stands at 8.1

European stocks - standard deviation of 12m Fwd EPS excluding 1% of top and bottom extreme readings

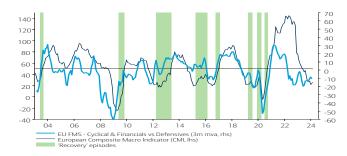


Source: BofA European Equity Quant Strategy, MSCI, I/B/E/S

BofA GLOBAL RESEARCH

Exhibit 29: Investors cut their underweight in the cyclical and financial sectors, while increasing overweight in defensive sectors in February

Please indicate for each of the following European sectors, whether you consider your position to be overweight, underweight or neutral relative to your internal benchmark



Source: BofA European Equity Quant Strategy, BofA European Fund Manager Survey. Note: The positioning is a difference between average positioning in cyclical and financial sectors (Autos, Basic Resources, Chemicals, Construction, Consumer Pds&Svs, Industrial Gds&Svs, Media, Retail, Technology, Travel&Leisure, Banks, Financial Svs, Insurance, Real Estate) and defensive sectors (Food&Beverages, Pharma/Healthcare, Telecoms, Utilities, PCDG Stores).



Exhibit 30: Value vs Growth and Small vs Large caps screen attractively in 'Recovery' phase, while being disliked by both buyand sell-side

Style Cycle 'Recovery' style preferences (green: top, grey: neutral, red: bottom) versus sell-side and buy-side stance



Source: BofA European Equity Quant Strategy, Factset, IBES

BofA GLOBAL RESEARCH

Exhibit 31: Norway and Finland screen attractively in the 'Recovery' phase, while being unpopular with both buy- and sellside

Style Cycle 'Recovery' country preferences (green: top, grey: neutral, red: bottom) versus sell-side and buy-side stance

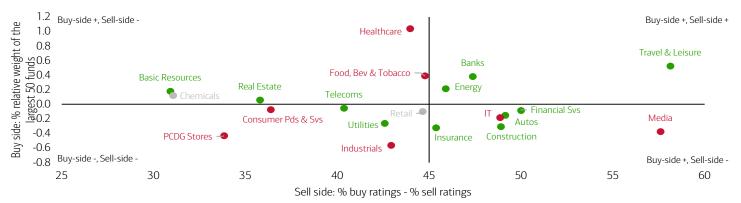


Source: BofA European Equity Quant Strategy, Factset, IBES

BofA GLOBAL RESEARCH

Exhibit 32: Utilities and Telecoms screen attractively in 'Recovery' phase while being commonly disliked by both buy- and sell-side

Style Cycle 'Recovery' sectors preferences (green: top, grey: neutral, red: bottom) versus sell-side and buy-side stance

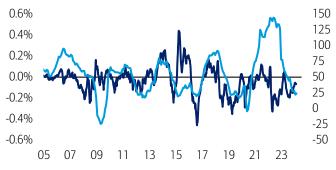


Source: BofA European Equity Quant Strategy, Factset, IBES

BofA GLOBAL RESEARCH

Exhibit 33: Usually, when Style Cycle is in 'Recovery' phase, **European equity funds note slowing outflows**

European Composite Macro Indicator (light blue line, rhs) vs rolling 8w flows into Europe-focused equity funds as % of mcap (dark blue line, lhs)

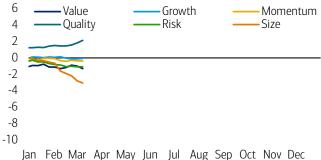


Source: BofA European Equity Quant Strategy, EPFR Global

BofA GLOBAL RESEARCH

Exhibit 34: Flows increased for Quality the most over the past 4w, while declined the most for Size (Low)

Rolling 8w flows into European styles (I/s) this year



Source: BofA European Equity Quant Strategy, EPFR Global

European Style Cycle - performance

Style Cycle: The European 'Style Cycle' links phases of the economic cycle with performance of investment style. Stocks are screened based on their equal weighted rank of Value, Growth, Momentum, Quality, Risk and Size.

Exhibit 35: Top & Bottom Style Cycle relative price performance

Relative price performance to largest 250 European stocks (price, EUR, equally weighted)



Source: BofA European Equity Quant Strategy, FactSet. The shaded area on the chart above shows back-tested results during the period from Mar-95 to Dec-03. The un-shaded portion represents actual performance since Jan-04. The Style Cycle back-testing is a rolling monthly performance based on the changing phases of the Style Cycle. This performance is back-tested and does not represent the actual performance of any account or fund. Back-tested performance depicts the theoretical (not actual) performance of a particular strategy over the time period indicated. No representation is being made that any actual portfolio is likely to have achieved returns similar to those shown herein. The data displayed in this exhibit depends in part on certain monthly screens and other data that were not previously published. Please see Style Cycle: Boom persists 30 June 2021 for details and relevant data.

BofA GLOBAL RESEARCH

Exhibit 36: Last month Top stocks have underperformed Bottom stocks by 1.8% Excess Price Returns (%)

	1 M	3M	6M	12M	YTD	3 Yrs	5 Yrs	Incept.
Top Style Cycle	-3.0	-4.9	-4.4	4.2	-2.5	2.2	8.0	91.3
Bottom Style Cycle	-1.2	-0.4	-1.1	-8.1	-2.7	-7.5	4.6	-52.7
Top vs Bottom Style Cycle	-1.8	-4.6	-3.4	13.4	0.2	10.5	-3.6	304.1

Source: BofA European Equity Quant Strategy, FactSet. * - Inception = January 2004. Note: Month end data used for performance of stock screen. Performance based on equal weight portfolios, monthly rebalanced, no transaction costs are included, and performances based on price returns and not total returns (dividends are not included). Performance is shown not as a guide to any past recommendation, but as confirmation of each phase's characteristics

BofA GLOBAL RESEARCH

Exhibit 37: Top vs Bottom Recession stocks outperformed in 10 out of 20 sectors and in 6 out of 8 countries in Feb-24

% of SXXP supersectors and countries where the Recession top vs bottom stocks are outperforming



BofA European Equity Quant Strategy, FactSet. Note: countries included: France, Germany, Italy, Netherlands, Spain, Sweden, Switzerland and UK. Performances are based on the top / bottom quintile/or minimum 5 stocks in each group of stocks ranked by the Recession ranks or in sectors/countries.

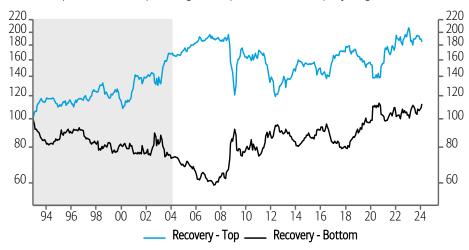


Style Cycle - Recovery

Style Cycle - Recovery: The European 'Style Cycle' links phases of the economic cycle with performance of investment style. The stocks below are screened by the characteristics of the 'Recovery' phase. Stocks are screened on their equal-weighted rank of Value, Growth, Momentum, Quality, Risk and Size.

Exhibit 38: Top & Bottom Recovery relative price performance

Price relative performance vs top 250 largest European stocks (EUR, equally weighted)



Source: BofA European Equity Quant Strategy, FactSet. Inception – January 2004. The shaded area shows back-tested results during the period from Dec-92 to Dec-03. The unshaded portion represents actual performance since Jan-04. This performance is back-tested and does not represent the actual performance of any account or fund. Back-tested performance depicts the theoretical (not actual) performance of a particular strategy over the time period indicated. No representation is being made that any actual portfolio is likely to have achieved returns similar to those shown herein. The data displayed in this exhibit depends in part on certain monthly screens and other data that were not previously published. Please see Style Cycle: Boom persists 30 June 2021 for details and relevant data.

BofA GLOBAL RESEARCH

Exhibit 39: Top Recovery stocks underperformed Bottom Recovery stocks by -5.1% last month

Excess Price Returns (%)

	1M	3M	6M	12M	YTD	3 Vrs	5 Yrs	Since Incept.
		J.111	0.11	1 2 141	110	3 113	3 113	шсере.
Top Recovery	-2.3	-4.8	-2.7	-9.8	-2.5	8.6	12.8	10.2
Bottom Recovery	3.0	5.7	7.4	12.0	5.2	14.3	23.9	50.8
Top vs Bottom Recovery	-5.1	-10.0	-9.4	-19.5	-7.3	-4.9	-9.0	-26.9

Source: BofA European Equity Quant Strategy, FactSet. * - Inception = January 2004

BofA GLOBAL RESEARCH

Exhibit 40: Median Top Recovery

Latest valuations for Top Recovery stocks

	Fwd P/E	DY	RoE	ERR	Size	Beta
Тор	14.3	3.5	25.2	2.1	58.7	8.0
LT Avg	11.4	3.5	7.7	1.6	7.5	1.3
EU Market	15.1	2.8	14.6	0.7	19.2	1.1

Source: BofA European Equity Quant Strategy, FactSet

Exhibit 41: Median Bottom RecoveryLatest valuations for Bottom Recovery stocks

	Fwd P/E	DY	RoE	ERR	Size	Beta
Bottom	17.8	2.6	7.3	0.2	9.8	1.4
LT Avg	20.1	2.2	25.9	0.6	33.3	0.7
EU Market	15.1	2.8	14.6	0.7	19.2	1.1

BofA GLOBAL RESEARCH BofA GLOBAL RESEARCH

Exhibit 42: Style Cycle - Recovery screens for Mar '24 (data as of 29/02/2024)

Top and Bottom Style Cycle Recovery stocks

Top Stocks (Good Value, High Risk, Low Quality & Small Size)

Bottom Stocks (Poor Value, Low Risk, High Quality & Large Size)

BBG Ticker	Name	Recovery Rank	Value Rank	ERR	Beta	RoE	Price	BBG Ticker	Name	Recovery Rank	Value Rank	ERR	Beta	RoE	Price
MAERSKB DC	A.P. Moller - Maersk B	100	95	-0.15	1.4	6.5	9746.0	OR FP	L'Oreal	1	5	-0.26	0.9	22.0	441.7
URW FP	Unib-Rodam	100	71	0.11	2.2	-10.4	67.6	MC FP	LVMH	1	15	-0.25	1.2	26.1	842.8
AGN NA	Aegon	99	88	-0.14	1.4	-14.3	5.5	REL LN	RELX	1	10	-0.10	0.8	49.2	34.6
MT NA	ArcelorMittal	99	89	0.12	2.0	1.7	24.1	ROG SW	Roche	2	47	-0.30	0.3	40.1	232.0
AV/ LN	Aviva	98	79	-0.03	1.2	-7.7	4.5	WKL NA	Wolters Kluwer	2	6	-0.10	0.5	49.6	145.9
BT/A LN	BT	98	100	0.01	1.0	12.8	1.0	ATCOA SS	Atlas Copco	3	6	-0.17	1.2	32.7	179.8
ACA FP	Credit Agricole	98	86	0.08	1.7	8.6	12.5	COLOB DC	Coloplast	3	6	-0.21	0.5	37.4	915.6
CNA LN	Centrica	97	84	-0.13	1.4	160.6	1.3	RACE US	Ferrari	3	5	0.07	0.8	44.3	389.9
FME GR	Fresenius	97	72	0.02	1.1	5.5	35.4	NOVOB DC	Novo Nordisk	3	5	0.05	0.4	88.1	819.7
ACS SM	ACS Actividades	96	69	0.03	1.2	14.3	37.9	RMS FP	Hermes	4	1	0.04	0.9	31.2	2313.0
EBS AV	Erste Group Bank	96	96	0.05	1.7	14.8	36.9	DGE LN	Diageo	5	19	-0.17	0.7	47.8	29.6
BIRG ID	Bank of Ireland	95	96	0.02	1.4	13.2	8.1	SIKA SW	Sika	5	9	-0.31	1.0	19.5	255.5
DBK GR	Deutsche Bank	95	82	0.05	1.3	6.4	12.4	ULVR LN	Unilever	5	46	-0.03	0.5	34.6	38.7
VOW GR	Volkswagen	95	100	-0.02	1.4	10.6	125.3	AI FP	Air Liquide	6	18	-0.12	0.9	12.8	187.9
AC FP	Accor	94	52	0.16	1.5	14.7	40.1	PGHN SW	Partners	6	13	-0.25	1.4	37.8	1269.0
LDO IM	Leonardo	94	58	-0.10	1.3	9.2	19.8	ASML NA	ASML	7	4	0.06	1.2	59.0	870.5
MRO LN	Melrose Industries	94	17	0.24	1.8	-4.2	6.4	CPG LN	Compass	7	34	-0.10	1.0	23.9	21.7
LGEN LN	Legal & General	93	74	-0.01	1.6	20.7	2.4	NESN SW	Nestle	7	33	-0.21	0.5	28.8	91.8
WPP LN	WPP	93	73	-0.13	1.4	3.1	7.1	DSY FP	Dassault Systemes	8	4	-0.13	0.8	13.8	43.2
FRE GR	Fresenius SE	92	83	-0.10	1.3	-3.0	25.9	SU FP	Schneider Electric	8	19	-0.16	1.2	15.4	209.8
NWG LN	NatWest	92	92	-0.25	1.5	11.9	2.4	ALC SW	Alcon	9	17	-0.12	0.8	4.9	75.2
VNA GR	Vonovia	92	59	-0.07	1.0	-2.0	25.8	AZN LN	AstraZeneca	9	39	-0.15	0.5	15.6	99.8
CON GR	Continental	91	80	-0.03	1.6	0.5	74.1	CFR SW	Richemont	9	24	-0.27	1.3	1.6	140.6
NN NA	NN	91	94	-0.14	1.0	6.4	41.3	ITX SM	Inditex	10	33	0.28	1.3	25.2	41.0
CBK GR	Commerzbank	90	94	-0.05	1.4	8.1	10.7	NSISB DC	Novonesis	10	7	0.07	0.7	21.7	388.8

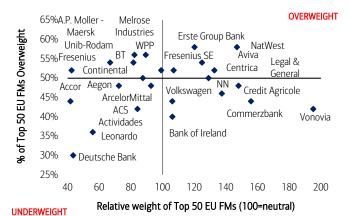
Source: BofA European Equity Quant Strategy, FactSet, Price in Local Currency. Companies listed represent the top and bottom 10% of the largest 250 European stocks. The screen identified as Style Cycle – Recovery above is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. This screen was not created to act as a benchmark.

BofA GLOBAL RESEARCH

Recovery characteristics

Exhibit 43: There are 6 stocks from Top Recovery list which are unpopular with investors

Top Recovery stocks ownership

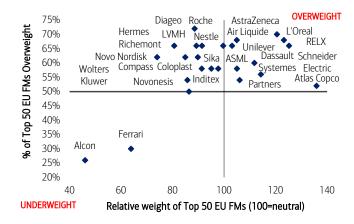


Source: BofA European Equity Quant Strategy

BofA GLOBAL RESEARCH

Exhibit 44: There are 10 stocks from Bottom Recovery list which are highly popular with investors

Bottom Recovery stocks ownership

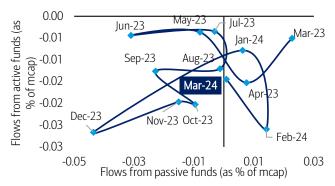


Source: BofA European Equity Quant Strategy



Exhibit 45: So far in March, Top Recovery stocks saw \$0.05bn outflows from the active funds and \$0.00bn inflows from passive funds

Top Recovery stocks flows over the past 12 months as % of mcap

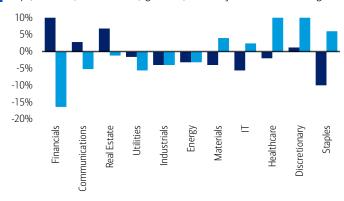


Source: BofA European Equity Quant Strategy, EPFR Global

BofA GLOBAL RESEARCH

Exhibit 47: Top Recovery stocks are most OW Financials, while bottom stocks are most OW Discretionary

Top (dark blue) and bottom (light blue) Recovery relative sector weights



Source: BofA European Equity Quant Strategy

BofA GLOBAL RESEARCH

Exhibit 49: Top Recovery stocks trade at a 29% P/E discount to the market relative to the long term average

Top Recovery stocks P/E relative to market

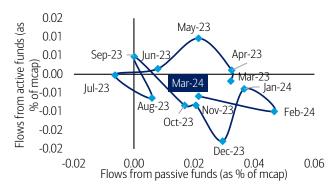


Source: BofA European Equity Quant Strategy

BofA GLOBAL RESEARCH

Exhibit 46: So far in March, Bottom Recovery stocks saw \$0.17bn outflows from the active funds and \$0.62bn inflows from passive funds

Bottom Recovery stocks flows over the past 12 months as % of mcap

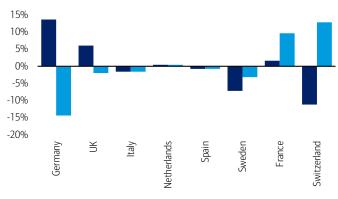


Source: BofA European Equity Quant Strategy, EPFR Global

BofA GLOBAL RESEARCH

Exhibit 48: Top Recovery stocks are most OW Germany, while bottom stocks are most OW Switzerland

Top (dark blue) and bottom (light blue) Recovery relative country weights



Source: BofA European Equity Quant Strategy

BofA GLOBAL RESEARCH

Exhibit 50: Bottom Recovery stocks trade at a 27% P/E premium to the market relative to the long term average

Bottom Recovery stocks P/E relative to market



Source: BofA European Equity Quant Strategy



Appendix: additional screens

Style Cycle screen for European SMIDs

Exhibit 51: Style Cycle SMID - Recovery screens for Mar '24 (data as of 29/02/2024)

Top and Bottom Style Cycle SMID Recovery stocks

	Top Stocks (Good Value, High I	Risk, Low C	uality	& Sma	all Siz	e)	Bottom Stocks (Poor Value, Low Risk, High Quality & Large Size)								<u>+</u>)
BBG Ticker	Name	Recovery Rank	Value Rank	ERR	Beta	RoE	Price	BBG Ticker	Name	Recovery Rank	Value Rank	ERR	Beta	RoE	Price
AT1 GR	Aroundtown	100	80	-0.10	1.7	2.9	1.6	BEAN SW	BELIMO	1	5	-0.50	1.2	26.8	419.6
GOGL US	Golden Ocean	100	48	0.11	1.3	4.6	135.6	ELISA FH	Elisa	1	33	-0.22	0.3	29.1	41.7
PNDXB SS	Pandox	100	34	0.08	2.8	1.0	156.0	ITRK LN	Intertek	1	21	-0.09	8.0	29.0	46.2
RBI AV	Raiffeisen Bank	100	100	0.30	1.8	21.3	19.2	SPX LN	Spirax-Sarco Engineering	1	6	-0.23	0.9	23.6	103.3
SCYR SM	Sacyr	100	72	0.10	1.8	11.4	3.0	AUTO LN	Auto Trader	2	5	0.05	8.0	48.9	7.4
AMS SW	ams-OSRAM	99	72	-0.23	2.4	-18.8	1.3	QIA GR	QIAGEN	2	13	-0.24	0.1	9.8	39.6
BALDB SS	Fastighets Balder	99	32	0.22	1.4	1.4	64.3	ROR LN	Rotork	2	20	-0.12	1.2	21.3	3.1
IVG IM	lveco	99	89	0.25	1.8	11.1	11.4	EMSN SW	EMS-CHEMIE	3	10	-0.26	0.7	24.2	616.5
PIRC IM	Pirelli & C.	99	83	0.12	1.8	7.9	5.5	NIBEB SS	NIBE Industrier	3	16	-0.27	1.4	16.6	57.8
SESG FP	SES	99	80	0.04	1.3	1.7	6.0	SMIN LN	Smiths	3	40	-0.10	0.9	14.3	16.1
UNI SM	Unicaja Banco	99	99	0.00	1.2	4.0	0.9	ADDTB SS	Addtech	4	5	0.06	1.5	27.4	229.0
BPSO IM	Banca Popolare di Sondrio	98	94	0.29	1.8	12.1	6.9	BVI FP	Bureau Veritas	4	21	-0.06	1.2	26.2	26.9
CCL LN	Carnival	98	37	0.04	3.0	-1.1	11.2	CPR IM	Davide Campari-Milano	4	8	-0.20	0.7	10.2	9.4
COL SM	Inmobiliaria Colonial	98	41	0.07	1.5	1.0	5.0	IMI LN	IMI	4	37	-0.02	1.4	33.6	17.3
PAG LN	Paragon Banking	98	90	0.23	1.7	19.0	6.4	SXS LN	Spectris	4	35	-0.03	1.0	14.4	35.1
IDS LN	International Distributions Services	98	70	0.07	2.0	-11.3	2.4	AM FP	Dassault Aviation	5	35	-0.28	1.0	13.4	182.9
FABG SS	Fabege	97	30	0.33	1.1	1.8	84.6	PSON LN	Pearson	5	49	-0.17	0.4	9.4	9.6
FGP LN	FirstGroup	97	85	0.28	1.8	15.2	1.6	RMV LN	Rightmove	5	7	0.02	1.1	272.0	5.7
HUFVA SS	Hufvudstaden	97	29	0.10	1.2	3.1	123.0	TECN SW	Tecan	5	9	-0.42	0.5	9.4	344.8
TKA GR	thyssenkrupp	97	88	-0.20	2.3	-7.6	4.7	DEMANT DC	Demant	6	11	0.01	1.2	27.6	345.1
UTDI GR	United Internet	97	82	0.10	0.8	5.0	22.4	IMCD NA	IMCD	6	18	-0.17	1.3	19.0	140.9
VGP BB	VGP	97	29	-0.06	1.1	-3.9	101.4	ADM LN	Admiral	7	16	0.01	0.2	30.1	26.7
AVOL SW	Avolta	96	58	-0.09	2.2	2.3	34.6	AFX GR	Carl Zeiss Meditec	7	5	-0.15	1.1	13.4	113.8
COV FP	Covivio	96	84	-0.01	1.9	6.5	41.5	G1A GR	GEA Group	7	50	-0.02	1.2	19.8	37.3
EZJ LN	easyJet	96	81	0.42	3.1	12.3	5.4	SQN SW	Swissquote	7	23	-0.08	1.4	23.6	235.0

Source: BofA European Equity Quant Strategy, FactSet, Price in Local Currency. Companies listed represent the top and bottom 25 stocks within European SMIDs (companies with market cap less than 10bn EUR). The screen identified as Style Cycle SMID - Recovery above is intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. This screen was not created to act as a benchmark.



Exhibit 52: Style Cycle Europe Stoxx 600 supersectors - Recovery screens for Mar '24 (data as of 29/02/2024) Top and Bottom Style Cycle Recovery stocks by Europe Stoxx 600 supersectors

		Recovery Rank	BBG		Recovery Rank			Recovery Rank	BBG		Recovery Rank
BBG Ticker	Namo	(100=Top)		Name	(1=Bottom)	RRG Ticker	Name	(100=Top)	Ticker	Name	(1=Bottom)
DDG TICKET	Name	Automobiles		Name	(1-Doctoill)	SK FP	SEB	72	MONC IM	Moncler	3
FR FP	Valeo	95	RACE US	Ferrari	3	HUSOB SS	Husqvarna	55	BC IM	Brunello Cucinelli	47
FRVIA FP	Forvia	94	STLA US	Stellantis	34			Energy			
VOW GR	Volkswagen	88	DIE BB	D'leteren	36	HBR LN	Harbour Energy	100	GTT FP	Gaztransport & Technigaz	21
PAH3 GR	Porsche	66	ML FP	Michelin	44	VK FP	Vallourec	98	EQNR NO	Equinor	22
RNO FP	Renault	62				OMV AV	OMV	71	NESTE FH	Neste	28
		Bank				PKN PW	ORLEN	68	TEN IM	Tenaris	38
RBI AV	Raiffeisen Bank	100	FBK IM	FinecoBank	20	AKRBP NO	Aker BP	63	SRG IM	SNAM	47
BMPS IM	Banca MPS	99	AZA SS	Avanza Bank	26			Financial Serv			
VMUK LN	Virgin Money UK	98	HSBA LN	HSBC	38	RF FP	Eurazeo	98	PGHN SW	Partners	3
SABSM	Banco de Sabadell	93	NDA FH	Nordea Bank	44	MNG LN	M&G	98	LSEG LN	London Stock Exchange	10
DBK GR	Deutsche Bank	87	DNB NO	DNB Bank	45	STJ LN	St James's Place	94	EQT SS	EQT	14
ABN NA	ABN AMRO Bank	83		Swedbank	50	GBLB BB	Bruxelles Lambert	84	DB1 GR	Deutsche Boerse	17
NWG LN	NatWest	79	KBC BB	KBC	62	BAER SW	Julius Baer	61	ENX FP	Euronext	35
BARC LN	Barclays	70	SEBA SS	SEB	64			od Beverage an			
CBK GR	Commerzbank	69				JDEP NA	JDE Peet's	66	DGE LN	Diageo	2
		Basic Reso				MOWI NO	Mowi	58	NESN SW	Nestle	4
VOE AV	voestalpine	97	HPOLB SS		27	ABF LN	Associated British Foods	56	KYGA ID	Kerry	11
MT NA	ArcelorMittal	92	SCAB SS	Svenska Cellulosa	30				LISN SW	Lindt & Spruengli	14
NDA GR	Aurubis	78	UPM FH	UPM-Kymmene	40				LOTB BB	Lotus Bakeries	22
NHY NO	Norsk Hydro	76	RIO LN	Rio Tinto	42				AAK SS	AAK	31
BILL SS	Billerud	73				CDE CM	C : C 1	Health Car			1
LVC CD	LANIVECC	Chemic		Air. Lieuriale	4	GRF SM	Grifols	84	COLOB DC	Coloplast	l
LXS GR	LANXESS	93	AI FP	Air Liquide	4	GN DC	GN Store Nord	80	ROG SW AZN LN	Roche	2
EVK GR WCH GR	Evonik Industries	84 81	GIVN SW	Givaudan	6	FME GR	Fresenius	76		AstraZeneca	4 4
SDF GR	Wacker Chemie K+S	72	EMSN SW SY1 GR	EMS-CHEMIE	10 22	FRE GR EVT GR	Fresenius SE	69 68	NSISB DC	Novo Nordisk Novonesis	4
BAS GR	BASF	72 55	IMCD NA	Symrise IMCD	24	BAYN GR	Evotec Bayer	59	STMN SW		4
BAS GR		onstruction an		IMCD	24	ERF FP	Eurofins Scientific	59 52	ALC SW	Straumann Alcon) 7
ANA SM	Acciona	99	SIKA SW	Sika	2	EKTAB SS	Elekta	52 50	LONN SW	Lonza	7
ACS SM	ACS Actividades	89	ASSAB SS	ASSA ABLOY	7	ENTAD 33	Elekta	30	GMAB DC	Genmab	13
WIE AV	Wienerberger	89	GEBN SW	Geberit	, 17				ARGX BB		47
LIGHT NA	Signify	85	KSP ID	Kingspan	20		Ind	ustrial Goods an		argenx	47
HEI GR	Heidelberg Materials	66	CRH US	CRH	20 24	IDS LN	International Distributions Service		ATCOA SS	Atlas Copco	1
HEIGK		sumer Product			24	TKA GR	thyssenkrupp	99 97	SGSN SW	SGS	3
BDEV LN	Barratt Developments	92	OR FP	L'Oreal	1	GFTU LN	Grafton	96	KNEBV FH	Kone	ر 1
EMBRACB SS		90	MC FP	LVMH	1	TPK LN	Travis Perkins	96	EPIA SS	Epiroc	4 5
VTY LN	Vistry	88	CPG LN	Compass	2	WLN FP	Worldline	95 95	SCHP SW	Schindler	2
BWY LN	Bellway	86	CFR SW	Richemont	3			94	SPX LN	Spirax-Sarco Engineering	5
WOSG LN	Watches of Switzerland		RMS FP	Hermes	3	VALMT FH	Valmet	92	SU FP	Schneider Electric	6
MACOC FIA	Wateries of Switzeridila	70	I I CIVIA	I ICITIES	J	VALIVII I I I	vaiinet	JŁ	5011	JUINGIUEI LIEUUIU	U

Source: BofA European Equity Quant Strategy, FactSet. Companies listed represent the top and bottom quintile stocks (or minimum 5 stocks) within Europe Stoxx 600 supersectors. The screens identified as Europe Stoxx 600 supersectors - Recovery above are intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. These screens were not created to act as benchmarks.



Exhibit 53: Style Cycle Europe Stoxx 600 supersectors - Recovery screens for Mar '24 (data as of 29/02/2024)

Top and Bottom Style Cycle Recovery stocks by Europe Stoxx 600 supersectors

		Recovery Rank	BBG		Recovery Rank			Recovery Rank	BBG		Recovery Rank
BBG Ticker	Name	(100=Top)		Name	(1=Bottom)	BBG Ticker	Name	(100=Top)	Ticker	Name	(1=Bottom)
ADEN SW	Adecco	91	RHM GR	Rheinmetall	7	COFB BB	Cofinimmo	91			
ISS DC	ISS	91	BA/ LN	BAE Systems	8				Retail		
ALO FP	Alstom	87	ITRK LN	Intertek	8	AVOL SW	Avolta	96	ITX SM	Inditex	6
ADP FP	Aeroports de Paris	86	HLMA LN	Halma	11	RUI FP	Rubis	75	NXT LN	Next	31
KGX GR	KION	85	SAF FP	Safran	11	SMWH LN	WH Smith	69	HWDN LN	Howden Joinery	32
ELIS FP	Elis	82	EXPN LN	Experian	12	KGF LN	Kingfisher	60	HMB SS	H&M	33
RXL FP	Rexel	78	ABBN SW	ABB	15				BME LN	B&M European Value Retail	36
NEX FP	Nexans	74	ADDTB SS	Addtech	16			Te	chnology		
HAS LN	Hays	69	ADYEN NA	Adyen	20	TKWY NA	Just Eat Takeaway.com	84	DSY FP	Dassault Systemes	5
INCH LN	Inchcape	68	DPLM LN	Diploma	24	ATE FP	Alten	72	ASML NA	ASML	8
AALB NA	Aalberts	66	KOG NO	Kongsberg	24	TIETO FH	TietoEVRY	71	AUTO LN	Auto Trader	10
AZE BB	Azelis	66	ACLN SW	Accelleron Industries	27	SOP FP	Sopra Steria	59	SGE LN	Sage	13
SECUB SS	Securitas	50	VACN SW	VAT	29				FNOX SS	Fortnox	24
TEP FP	Teleperformance	50	RAA GR	Rational	30				NEM GR	Nemetschek	37
		Insur	ance					Telecor	nmunicatio	15	
PHNX LN	Phoenix	97	MUV2 GR	Munich Re	12	TIGO US	Millicom Int.	100	ELISA FH	Elisa	8
AGN NA	Aegon	94	ZURN SW	Zurich Insurance	16	SESG FP	SES	100	SCMN SW	Swisscom	17
AV/ LN	Aviva	92	HNR1 GR	Hannover Rueck	20	TIT IM	Telecom Italia	98	KPN NA	Royal KPN	30
ASRNL NA	ASR Nederland	81	TOP DC	Topdanmark	24	VOD LN	Vodafone	69	DTE GR	Deutsche Telekom	33
NN NA	NN	72	ADM LN	Admiral	28	TEF SM	Telefonica	64	INW IM	Infrastrutture Wireless	46
SCR FP	SCOR	72	TRYG DC	Tryg	34			Trave	and Leisure	2	
		Me	dia	70		LHA GR	Deutsche Lufthansa	93	EVO SS	Evolution	2
ITV LN	ITV	79	REL LN	RELX	1	IAG LN	IAG	92	FLTR LN	Flutter Entertainment	16
WPP LN	WPP	63	WKL NA	Wolters Kluwer	1	TUI1 GR	TUI	88	IHG LN	IHG	22
VIV FP	Vivendi	51	UMG NA	Universal Music	5	SSPG LN	SSP	84	FDJ FP	La Francaise des Jeux	34
			INF LN	Informa	37	WTB LN	Whitbread	66	,	ŕ	
			PUB FP	Publicis	41			l	Jtilities		
	Perso	nal Care Drug	and Grocery	/ Stores		ECV GR	Encavis	96	SSE LN	SSE	19
SBRY LN	J Sainsbury	84	ULVR LN	Unilever	2	DRX LN	Drax	94	IBE SM	Iberdrola	30
MKS LN	Marks & Spencer	76	DNP PW	Dino Polska	5	A2A IM	A2A	90	SVT LN	Severn Trent	38
HFG GR	HelloFresh	54	RKT LN	Reckitt Benckiser	7	FORTUM FH	Fortum	90	TRN IM	TERNA	40
CA FP	Carrefour	53	BEI GR	Beiersdorf	14	CNA LN	Centrica	83	NG/LN	National Grid	48
TSCO LN	Tesco	50	AXFO SS	Axfood	29	ENGI FP	ENGIE	72			
		Real E	state								
URW FP	Unib-Rodam-West Uts	100	RMV LN	Rightmove	17						
COV FP	Covivio	99	SGRO LN	SEGRO	49						
MRL SM	MERLIN Properties	97									
COL SM	Inmobiliaria Colonial	96									
LXI LN	LXI REIT	95									
				and a second of		F . I	1. 5. 6. 600			Europa Stavy 600 suparcastors [

Source: BofA European Equity Quant Strategy, FactSet. Companies listed represent the top and bottom quintile stocks (or minimum 5 stocks) within Europe Stoxx 600 supersectors. The screens identified as Europe Stoxx 600 supersectors - Recovery above are intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. These screens were not created to act as benchmarks.

Exhibit 54: Style Cycle Europe Stoxx 600 countries - Recovery screens for Mar '24 (data as of 29/02/2024)

Top and Bottom Style Cycle Recovery stocks by Europe Stoxx 600 countries

BBG		Recovery Rank	BBG		Recovery Rank			Recovery Rank	BBG		Recovery Rank
Ticker	Name	(100=Top)		Name	(1=Bottom)	BBG Ticker	Name	(100=Top) Netherlands	Ticker	Name	(1=Bottom)
URW FP	Unib-Rodam	100	France OR FP	L'Oreal	1	AGN NA	Aegon	94	WKL NA	Wolters Kluwer	1
COV FP	Covivio	99	MC FP	LVMH	1	LIGHT NA	Signify	85	UMG NA	Universal Music	5
RF FP	Eurazeo	98	RMS FP	Hermes	3	TKWY NA	Just Eat Takeaway.com	84	ASML NA	ASML	8
VK FP	Vallourec	98	ALFP	Air Liquide	4	ABN NA	ABN AMRO Bank	83	AD NA	Ahold Delhaize	13
LI FP	Klepierre	95	DSY FP	Dassault Systemes	5	OCLNA	OCI	82	BESI NA	BE Semiconductor Inds	16
FRFP	Valeo	95	SU FP	Schneider Electric	6	ASRNL NA	ASR Nederland	81	ASM NA	ASM	19
WLNFP	Worldline	95	EL FP	EssilorLuxottica	8	ASKINE IVA	ASICINCUCIANU	Spain	AJININA	ASIVI	15
FRVIA FP	Forvia	94	LR FP	Legrand	9	ANA SM	Acciona	99	ITX SM	Inditex	6
AMUN FP		92	RIFP	Pernod Ricard	9	MRL SM	MERLIN Properties	97	AMS SM	Amadeus IT	20
ACA FP	Credit Agricole	91	SAF FP	Safran	11	COL SM	Inmobiliaria Colonial	96	IBE SM	Iberdrola	30
UBI FP	Ubisoft Entertainment	88	BVI FP	Bureau Veritas	14	SAB SM	Banco de Sabadell	93	VIS SM	Viscofan	34
ALO FP	Alstom	87	CAP FP	Capgemini	14	ENG SM	Enagas	89	ELE SM	Endesa	39
ADP FP	Aeroports de Paris	86	AM FP	Dassault Aviation	14	ENG SIVI	Lindgas	Sweden	LLL JIVI	Litucia	33
ELIS FP	Elis SA	82	HO FP	Thales	15	TIGO US	Millicom Int.	100	ATCOA SS	Atlas Copco	1
GET FP	Getlink	80	SAN FP	Sanofi	17	BALDB SS	Fastighets Balder	98	EVO SS	Evolution	2
GETTT	Getillik		ermany	Sanon	17	CAST SS	Castellum	97	EPIA SS	Epiroc	5
TKA GR	thyssenkrupp	97	QIA GR	QIAGEN	7	FABG SS	Fabege	97	ASSAB SS		7
ECV GR	Encavis	96	RHM GR	Rheinmetall	7	WALLB SS	Wallenstam	96	ALFA SS	Alfa Laval	10
ENR GR	Siemens Energy	95	MRK GR	Merck	9	EMBRACB SS		90			11
LHA GR	Deutsche Lufthansa	93	SAP GR	SAP	9	VOLCARB SS	Volvo Car	87	NIBEB SS	NIBE Industrier	13
LXS GR	LANXESS	93	P911 GR	Porsche	12	WIHL SS	Wihlborgs Fastigheter	87	EQT SS	EOT	14
VOW GR	Volkswagen	88	MUV2 GR	Munich Re	12	SSABA SS	SSAB	86	ADDTB SS		16
DBK GR	Deutsche Bank	87	BEI GR	Beiersdorf	14	SKAB SS	Skanska	83	SAND SS	Sandvik	23
KGX GR	KION	85	IFX GR	Infineon Technologies	15	BILL SS	Billerud	73	FNOX SS	Fortnox	24
EVK GR	Evonik Industries	84	SHL GR	Siemens Healthineers	16	DIEE 33	Billerad	Switzerland		TOTETION	21
VNA GR	Vonovia	83	DB1 GR	Deutsche Boerse	17	AVOL SW	Avolta	96	ROG SW	Roche	2
TEG GR	TAG Immobilien	81	HEN3 GR	Henkel	18	ADEN SW	Adecco	91	SIKA SW	Sika	2
WCH GR	Wacker Chemie	81	HNR1 GR	Hannover Rueck	20	BKW SW	BKW	85	CFR SW	Richemont	3
NDA GR	Aurubis	78	AFX GR	Carl Zeiss Meditec	22	SPSN SW	Swiss Prime Site	76	PGHN SW		3
HOT GR	HOCHTIEF	77	SY1 GR	Symrise	22	HELN SW	Helvetia	73	SGSN SW	SGS	3
nor an	HOCHHE		Italy	Symmoc	22	PSPN SW	PSP Swiss Property	73	NESN SW	Nestle	4
RMPS IM	Banca MPS	99	RACE US	Ferrari	3	FHZN SW	Flughafen Zuerich	71	SCHP SW	Schindler	5
TIT IM	Telecom Italia	98	MONC IM	Moncler	3	BALN SW	Baloise	70	STMN SW		5
BPE IM	BPER Banca	97	CPR IM	Davide Campari-Milano	19	CLN SW	Clariant	63	GIVN SW	Givaudan	6
A2A IM	A2A	90	FBK IM	FinecoBank	20	BAER SW	Julius Baer	61	LONN SW		7
AZM IM	Azimut	90	STMPA FP		21	DALK SVV	julius buci	United Kingdo		LOTIZU	,
HER IM	Hera	86	AMPIM	Amplifon	26	HBR LN	Harbour Energy	100	REL LN	RELX	1
BZU IM	Buzzi	82	REY IM	Reply	26	IDS LN	International Distributions Services	99	CPG LN	Compass	2
DEO IIVI	DUZZI	UZ	INET IIVI	періу	20	IDS LIN	micmational Distributions Services	99	CIULIN	Compass	<u> </u>

Source: BofA European Equity Quant Strategy, FactSet. Companies listed represent the top and bottom quintile stocks (or minimum 5 stocks) within 8 Europe Stoxx 600 countries. The screens identified as Europe Stoxx 600 countries - Recovery above are intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. These screens were not created to act as benchmarks



Exhibit 55: Style Cycle Europe Stoxx 600 countries - Recovery screens for Mar '24 (data as of 29/02/2024) Top and Bottom Style Cycle Recovery stocks by Europe Stoxx 600 countries

		Recovery			Recovery			Recovery			Recovery
BBG		Rank			Rank			Rank			Rank
Ticker	Name	(100=Top)			(1=Bottom)	BBG Ticker	Name	(100=Top)	BBG Ticker	Name	(1=Bottom)
MNG LN	M&G	98	DGE LN	Diageo	2						
VMUK LN	Virgin Money UK	98	ULVR LN	Unilever	2						
PHNX LN	Phoenix	97	AZN LN	AstraZeneca	4						
GFTU LN	Grafton	96	SPX LN	Spirax-Sarco Engineering	5						
TPK LN	Travis Perkins	96	RKT LN	Reckitt Benckiser	7						
LXI LN	LXI REIT	95	AHT LN	Ashtead	8						
DRX LN	Drax	94	BA/ LN	BAE Systems	8						
OCDO LN	Ocado	94	GSK LN	GSK	8						
STJ LN	St James's Place	94	ITRK LN	Intertek	8						
BLND LN	British Land	93	AUTO LN	Auto Trader	10						
AV/ LN	Aviva	92	LSEG LN	London Stock Exchange	10						
BDEV LN	Barratt Developments	92	RTO LN	Rentokil Initial	10						
IAG LN	IAG	92	HLMA LN	Halma	11						
TW/ LN	Taylor Wimpey	91	ROR LN	Rotork	11						
INVP LN	Investec	89	EXPN LN	Experian	12						
PNN LN	Pennon	89	HLN LN	Haleon	12						
PSN LN	Persimmon	89	SMIN LN	Smiths	12						
LAND LN	Land Securities	88	IMB LN	Imperial Brands	13						
TUI1 GR	TUI	88	SGE LN	Sage	13						
VTY LN	Vistry	88	BATS LN	British American Tobacco	15						
BWY LN	Bellway	86	PSON LN	Pearson	15						
SBRY LN	J Sainsbury	84	FLTR LN	Flutter Entertainment	16						
SSPG LN	SSP G	84	SXS LN	Spectris	16						
CNA LN	Centrica	83	RMV LN	Rightmove	17						
BT/A LN	BT	82	IMI LN	IMI	19						
LMP LN	LondonMetric Property	82	SSE LN	SSE	19						

Source: BofA European Equity Quant Strategy, FactSet. Companies listed represent the top and bottom quintile stocks (or minimum 5 stocks) within 8 Europe Stoxx 600 countries. The screens identified as Europe Stoxx 600 countries - Recovery above are intended to be an indicative metric only and may not be used for reference purposes or as a measure of performance for any financial instrument or contract, or otherwise relied upon by third parties for any other purpose, without the prior written consent of BofA Global Research. These screens were not created to act as benchmarks.

Explaining the European Style Cycle

Style cycle: the relationship between the economic cycle and investment style

- We draw on the back-testing results first presented in February 2004, using data (since January 1992) on investment style price returns and the economic cycle to create the European 'Style Cycle'.
- The European 'Style Cycle' aims to offer what we believe are two vital components for investing across the cycle. These are: a) timing, and b) rotation.
- Investment styles with potential for success are based on favourable positioning within the cycle. Highlighted investment styles are expected to outperform the MSCI European equal-weight price index.
- We identify investment styles that we believe have the characteristics to underperform the MSCI European equal-weight price index, based on the unfavourable positioning within the cycle at a particular point in time. The screens resulting from the investment styles are not a recommended list, either individually or as a group of stocks. Investors should consider the fundamentals of the companies and their own individual circumstances/objectives before making any investment decision.

We observe the year on year changes for signals of economic expansion or contraction, and analyse monthly changes in the index for indications of peaks and troughs in macro data. The combination helps investors navigate the economic cycle, acting as a timing indicator for style rotation.

We show the relationship between the European economic cycle and price performance of various investment styles in the chart below. The four phases of the economic cycle are dictated by changes in the European CMI. The style preferences in each phase are based on the back-testing results of average monthly price returns from following individual investment styles during the changing conditions in the economic cycle

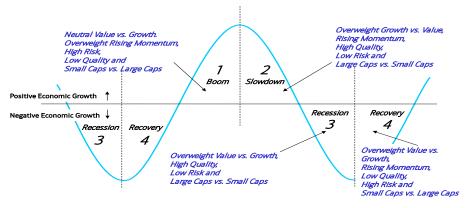
As a reminder, the CMI is an equal-weighted composite indicator of 6 inputs:

- Pan European GDP forecasts 12m fwd forecasted GDP growth for the Developed European countries
- BofA Europe Leading Indicator 12m change in BofA Europe Leading Indicator which indicates an acceleration (deceleration) in anticipated GDP growth, above (below) long-term GDP growth for Europe
- European 10Y bond yield 12m actual change in average of 10Y bond yields of Germany, UK and France
- German IFO level of indicator as published by the IFO institute for the Trade and Industry (Excluding Services) survey
- European PPI Eurozone Producer Price inflation (expressed as 12m change) ex Construction, SRWG, Waste Management and Remediation Activities
- Global EPS Revision Ratio ratio between the number of companies in the MSCI ACWI index for which Refinitiv consensus earnings estimates have been raised versus those that have been lowered



We take each one of the six variables as they existed at month end and record the data, then using z-scores to normalise the data (some are percentages, some are levels and others are ratios). Using a percentile rank methodology of each variable can achieve the same outcome. We then aggregate the individual data series by using an equal-weight average. The sum of the individual data or aggregate macro series is referred to as the European Composite Macro Index (CMI).

Exhibit 56: Phases of the Economic Cycle* & Investment Style Preferences – 'Style Cycle' Style Cycle framework



<u>Phase 1</u>- Rising & Accelerating; <u>Phase 2</u>- Rising & Decelerating; <u>Phase 3</u>- Falling & Decelerating; <u>Phase 4</u>- Falling & Accelerating.
*Economic Cycle based on the ML Composite Macro Indicator

Source: BofA European Equity Quant Strategy

Back testing period from Dec 1992 to Dec 2003. Actual Performance Jan 2004.

BofA GLOBAL RESEARCH

Back testing - European Style Cycle

Back-testing the cycle with investment style

The table below includes the average excess price returns (monthly) for individual investment styles at each phase of the economic cycle. Style performance is versus MSCI Europe equal weight Price Index.

Exhibit 57: Monthly excess returns by investment style and phases of the economic cycle Backtesting results (based on period from Dec '92 to Dec '03)

				Quality	Risk	Size
Economic cycle	Value	Growth	Momentum	hi-lo	high	(large-small)
Phase 1 - 'Boom' rising accelerating	1.10	0.78	0.97	-1.34	0.65	-0.75
Phase 2- 'Slowdown' rising decelerating	0.00	0.44	0.89	0.52	0.07	0.25
Phase 3 - 'Recession' falling decelerating	-0.70	-1.91	-0.81	6.37	-2.85	1.10
Phase 4 - 'Recovery' falling accelerating	2.47	1.31	0.10	-3.00	2.66	-2.05
Cycle average	0.72	0.15	0.29	0.64	0.13	-0.36

Source: BofA European Equity Quant Strategy/ Refinitiv/ OECD/ MSCI; Back testing period Dec 1992 to Dec 2003. Performance based on equal weight portfolios, monthly rebalanced, no transaction costs are included, and performances based on price returns in EUR and not total returns (dividends are not included).

BofA GLOBAL RESEARCH

Summarising the results - we draw the following conclusions:

Phase 1 'Boom' - investors have benefited most by being overweight Momentum (Rising Price & EPS), High Risk (High Beta & High Estimate Dispersion), Small Caps vs Large Caps and being Neutral on Value vs Growth. Phase 2 'Slow-down' - investors have benefited most by overweighting Growth vs Value, Momentum (Rising Price & EPS), High Quality (Strong Balance Sheet indicators), Low Risk (Low Beta & Low Estimate Dispersion) and Large Caps vs Small Caps. Phase 3 'Recession' – overweight Value vs



Growth, High Quality (Strong Balance Sheet indicators), Low Risk (Low Beta & Low Estimate Dispersion) and Large Caps vs Small Caps. Phase 4 'Recovery' – overweight Value vs Growth, Momentum (Rising Price & EPS), Low Quality (Weak Balance Sheet indicators), High Risk and Small vs Large Caps.

The back-testing results illustrate how certain investment styles work well compared to others, depending on the economic conditions and ultimately where we are in the cycle. The data presented above looks at all periods since 1992, including 5 complete cycles.

For the purpose of the historical back-testing, we calculate price returns in our analysis, not total returns. Dividends are not re-invested and performance does not include tax withholdings or any investment advisory fees. We do not include transaction costs, and we not do include implementation costs or borrowing costs in the absolute 'Style Cycle' price returns.

Price returns are based on month end data, meaning we use closing stock prices for the last trading day of the calendar month. All screens are based on month end data and it is assumed on the 1st business day of the new month our screens would have been available to the market. We calculate the profit or loss for a particular month based on the month end data from one period to the month end data of the next period.

Screens are determined at the end of each month using month-end data. Price performance is calculated as the simple average performance of the stocks within the screen. In order that we compare like with like, screen performance is compared to an equal-weighted average performance of all stocks in the universe. In this way, we remove any size bias from the analysis, and thereby test whether the factors on which we are focused predict price performance. It is noteworthy that BofA restricted stocks have not been excluded from any part of the historical monthly screens as defined as the back-test period.

Back-tested performance is hypothetical in nature and reflects application of the screen prior to its introduction and is not intended to be indicative of future performance.

Definitions

Investment styles

Value: Equal weighted combination of factors - Forecast/Trailing EPS Yield, Dividend Yield, Cash to Price Yield, Book to Price Yield, Price to Sales and Forecast PEG **Growth:** Equal weighted combination of factors - Forecast/Trailing EPS Growth,

Forecast EPS Change and Forecast Long Term Growth

Momentum: Equal weighted combination of factors - 3m EPS Change, EPS Revision

Ratio, Sales Revision Ratio, 1m Price Change and 12m Price Change

Quality: Equal weighted combination of factors - Return on Assets, Return on Capital,

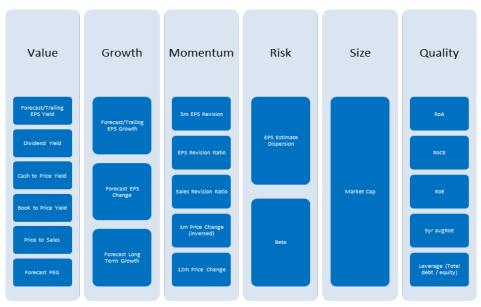
Return on Equity, 5yr Return on Equity and Leverage

Risk: Equal weighted combination of factors - EPS Estimate Dispersion and Beta



Exhibit 58: Style components

Individual factors that are used for style composites



Source: BofA European Equity Quant Strategy

BofA GLOBAL RESEARCH

Multi factor models

STYLE CYCLE: The European 'Style Cycle' links phases of the economic cycle with the performance of investment style. Stocks are screened based on their equal weighted rank of Value, Growth, Momentum, Quality and Risk.

Absolute return

Absolute return is calculated based on monthly returns and reflects simple price appreciation (depreciation) over the stated period of the screened stocks. For purposes of this calculation, the stocks in the screen are assumed to be equally weighted. Returns do not reflect dividend or costs.

Relative return

Relative return is calculated based on monthly returns and reflects simple price appreciation (depreciation) over the stated period of the screened stocks minus the return for our Equal weighted European Universe. Returns do not reflect dividend or costs

Performances of phases

Exhibit 59: European Absolute factor returns by Style Cycle phase (%)

Prices as of end of last month

Style	Factor Name	1M	3M	6 M	12M	YTD	3YR	5YR	Since Incpt.*
Multi-factor	Style Cycle - Top	-1.3	1.6	2.4	9.4	-0.2	19.1	30.3	387.6
Multi-factor	Style Cycle - Bottom	0.5	6.5	6.1	-3.5	-0.4	7.8	35.2	20.7
Multi-factor	Style Cycle - BOOM - Top	0.5	5.2	8.3	1.9	2.1	27.5	40.5	213.2
Multi-factor	Style Cycle - BOOM - Bottom	2.0	8.1	5.4	6.9	2.8	15.0	38.1	215.7
Multi-factor	Style Cycle - SLOWDOWN - Top	5.0	12.3	15.4	20.6	8.9	26.1	49.6	499.7
Multi-factor	Style Cycle - SLOWDOWN - Bottom	-0.4	5.6	4.1	-5.6	-1.2	1.5	-6.8	0.1
Multi-factor	Style Cycle - RECESSION - Top	-1.3	1.6	2.4	6.5	-0.2	31.9	40.5	98.5
Multi-factor	Style Cycle - RECESSION - Bottom	0.5	6.5	6.1	-2.1	-0.4	-15.4	-3.9	99.5
Multi-factor	Style Cycle - RECOVERY - Top	-0.6	1.7	4.3	-5.3	-0.2	26.6	45.8	181.0
Multi-factor	Style Cycle - RECOVERY - Bottom	4.7	13.0	15.1	17.6	7.6	33.2	60.2	284.6
Market	European Market (abs)	1.7	6.8	7.2	5.0	2.3	16.6	29.3	154.9

Source: BofA European Equity Quant Strategy, FactSet. *Inception – January 2003.



Exhibit 60: European Relative factor returns by Style Cycle phase (%)

Prices as of end of last month

Style	Factor Name	1M	3M	6M	12M	YTD	3YR	5YR	Since Incpt.*
Multi-factor	Style Cycle - Top	-3.0	-4.9	-4.4	4.2	-2.5	2.2	8.0	91.3
Multi-factor	Style Cycle - Bottom	-1.2	-0.4	-1.1	-8.1	-2.7	-7.5	4.6	-52.7
Multi-factor	Style Cycle - BOOM - Top	-1.2	-1.6	1.1	-2.9	-0.2	9.4	8.7	22.8
Multi-factor	Style Cycle - BOOM - Bottom	0.2	1.2	-1.6	1.8	0.4	-1.3	6.8	23.8
Multi-factor	Style Cycle - SLOWDOWN - Top	3.2	5.1	7.6	14.9	6.4	8.1	15.7	135.2
Multi-factor	Style Cycle - SLOWDOWN - Bottom	-2.1	-1.2	-2.9	-10.1	-3.5	-12.9	-27.9	-60.7
Multi-factor	Style Cycle - RECESSION - Top	-3.0	-4.9	-4.4	1.4	-2.5	13.2	8.7	-22.2
Multi-factor	Style Cycle - RECESSION - Bottom	-1.2	-0.4	-1.1	-6.8	-2.7	-27.4	-25.6	-21.7
Multi-factor	Style Cycle - RECOVERY - Top	-2.3	-4.8	-2.7	-9.8	-2.5	8.6	12.8	10.2
Multi-factor	Style Cycle - RECOVERY - Bottom	3.0	5.7	7.4	12.0	5.2	14.3	23.9	50.8

Source: BofA European Equity Quant Strategy, FactSet. *Inception – January 2003.

BofA GLOBAL RESEARCH

Exhibit 61: European Style Cycle advancersNumber of companies which saw their price up over the last month

Factor Name	1M	3M	6M	12M	YTD	3YR	5YR	Since Incpt.*
Style Cycle - Top	9	43	81	174	25	471	803	3463
Style Cycle - Bottom	12	45	79	145	24	480	821	3347
Style Cycle - BOOM - Top	14	46	89	161	29	495	815	3476
Style Cycle - BOOM - Bottom	17	56	90	166	34	492	836	3477
Style Cycle - SLOWDOWN - Top	20	60	98	184	39	494	832	3511
Style Cycle - SLOWDOWN - Bottom	13	49	87	156	27	469	769	3335
Style Cycle - RECESSION - Top	9	43	81	165	25	500	837	3449
Style Cycle - RECESSION - Bottom	12	45	79	152	24	438	769	3389
Style Cycle - RECOVERY - Top	13	40	83	149	25	495	816	3439
Style Cycle - RECOVERY - Bottom	18	61	102	182	38	506	854	3484
Market	144	472	846	1588	282	4747	8042	12666

Source: BofA European Equity Quant Strategy, FactSet. *Inception – January 2003.

BofA GLOBAL RESEARCH

Exhibit 62: European Style Cycle decliners

Number of companies which saw their price down over the last month

Factor Name	1 M	3M	6M	12M	YTD	3YR	5YR	Since Incpt.*
Style Cycle - Top	16	32	69	126	25	428	671	2908
Style Cycle - Bottom	13	30	71	155	26	420	652	3020
Style Cycle - BOOM - Top	11	29	61	139	21	405	664	2891
Style Cycle - BOOM - Bottom	8	19	60	134	16	407	646	2893
Style Cycle - SLOWDOWN - Top	5	15	52	116	11	405	655	2860
Style Cycle - SLOWDOWN - Bottom	12	26	63	144	23	431	708	3030
Style Cycle - RECESSION - Top	16	32	69	135	25	399	636	2919
Style Cycle - RECESSION - Bottom	13	30	71	148	26	462	705	2972
Style Cycle - RECOVERY - Top	12	34	66	150	25	404	658	2926
Style Cycle - RECOVERY - Bottom	7	14	48	118	12	394	632	2886
Market	106	277	653	1411	218	4248	6725	11056

Source: BofA European Equity Quant Strategy, FactSet. *Inception – January 2003.



Historical phases of the 'Style Cycle'

Exhibit 63: Style Cycle – historical phasesFebruary 1995 to date

| Month CMI phase |
|------------------|------------------|------------------|------------------|------------------|------------------|
| Feb-95 Slowdown | Feb-00 Boom | Feb-05 Slowdown | Feb-10 Boom | Feb-15 Recession | Feb-20 Recovery |
| Mar-95 Slowdown | Mar-00 Boom | Mar-05 Slowdown | Mar-10 Slowdown | Mar-15 Recession | Mar-20 Recovery |
| Apr-95 Slowdown | Apr-00 Slowdown | Apr-05 Slowdown | Apr-10 Slowdown | Apr-15 Recovery | Apr-20 Recession |
| May-95 Slowdown | May-00 Slowdown | May-05 Slowdown | May-10 Slowdown | May-15 Recovery | May-20 Recession |
| Jun-95 Slowdown | Jun-00 Slowdown | Jun-05 Slowdown | Jun-10 Slowdown | Jun-15 Recovery | Jun-20 Recession |
| Jul-95 Slowdown | Jul-00 Slowdown | Jul-05 Slowdown | Jul-10 Slowdown | Jul-15 Recovery | Jul-20 Recovery |
| Aug-95 Slowdown | Aug-00 Slowdown | Aug-05 Boom | Aug-10 Slowdown | Aug-15 Recovery | Aug-20 Recovery |
| Sep-95 Slowdown | Sep-00 Slowdown | Sep-05 Boom | Sep-10 Slowdown | Sep-15 Recovery | Sep-20 Recovery |
| Oct-95 Recession | Oct-00 Slowdown | Oct-05 Boom | Oct-10 Slowdown | Oct-15 Recovery | Oct-20 Boom |
| Nov-95 Recession | Nov-00 Slowdown | Nov-05 Boom | Nov-10 Slowdown | Nov-15 Recovery | Nov-20 Boom |
| Dec-95 Recession | Dec-00 Slowdown | Dec-05 Boom | Dec-10 Boom | Dec-15 Recovery | Dec-20 Boom |
| Jan-96 Recession | Jan-01 Slowdown | Jan-06 Boom | Jan-11 Boom | Jan-16 Recovery | Jan-21 Boom |
| Feb-96 Recovery | Feb-01 Recession | Feb-06 Boom | Feb-11 Boom | Feb-16 Recovery | Feb-21 Boom |
| Mar-96 Recovery | Mar-01 Recession | Mar-06 Boom | Mar-11 Boom | Mar-16 Recession | Mar-21 Boom |
| Apr-96 Recovery | Apr-01 Recession | Apr-06 Boom | Apr-11 Slowdown | Apr-16 Recession | Apr-21 Boom |
| May-96 Recovery | May-01 Recession | May-06 Boom | May-11 Slowdown | May-16 Recession | May-21 Boom |
| Jun-96 Recovery | Jun-01 Recession | Jun-06 Boom | Jun-11 Slowdown | Jun-16 Recession | Jun-21 Boom |
| Jul-96 Recovery | Jul-01 Recession | Jul-06 Boom | Jul-11 Slowdown | Jul-16 Recession | Jul-21 Slowdown |
| Aug-96 Recovery | Aug-01 Recession | Aug-06 Slowdown | Aug-11 Slowdown | Aug-16 Recession | Aug-21 Slowdown |
| Sep-96 Recovery | Sep-01 Recession | Sep-06 Slowdown | Sep-11 Recession | Sep-16 Recession | Sep-21 Slowdown |
| Oct-96 Recovery | Oct-01 Recession | Oct-06 Slowdown | Oct-11 Recession | Oct-16 Recovery | Oct-21 Slowdown |
| Nov-96 Recovery | Nov-01 Recession | Nov-06 Slowdown | Nov-11 Recession | Nov-16 Recovery | Nov-21 Boom |
| Dec-96 Recovery | Dec-01 Recession | Dec-06 Slowdown | Dec-11 Recession | Dec-16 Recovery | Dec-21 Boom |
| Jan-97 Boom | Jan-02 Recovery | Jan-07 Slowdown | Jan-12 Recession | Jan-17 Recovery | Jan-22 Boom |
| Feb-97 Boom | Feb-02 Recovery | Feb-07 Slowdown | Feb-12 Recession | Feb-17 Boom | Feb-22 Boom |
| Mar-97 Boom | Mar-02 Recovery | Mar-07 Slowdown | Mar-12 Recession | Mar-17 Boom | Mar-22 Boom |
| Apr-97 Boom | Apr-02 Boom | Apr-07 Slowdown | Apr-12 Recovery | Apr-17 Boom | Apr-22 Slowdown |
| May-97 Boom | May-02 Slowdown | May-07 Slowdown | May-12 Recovery | May-17 Boom | May-22 Slowdown |
| Jun-97 Boom | Jun-02 Slowdown | Jun-07 Slowdown | Jun-12 Recovery | Jun-17 Boom | Jun-22 Slowdown |
| Jul-97 Boom | Jul-02 Slowdown | Jul-07 Slowdown | Jul-12 Recovery | Jul-17 Boom | Jul-22 Slowdown |
| Aug-97 Boom | Aug-02 Slowdown | Aug-07 Slowdown | Aug-12 Recovery | Aug-17 Boom | Aug-22 Slowdown |
| Sep-97 Boom | Sep-02 Slowdown | Sep-07 Slowdown | Sep-12 Recovery | Sep-17 Boom | Sep-22 Slowdown |
| Oct-97 Boom | Oct-02 Slowdown | Oct-07 Slowdown | Oct-12 Recovery | Oct-17 Boom | Oct-22 Slowdown |
| Nov-97 Boom | Nov-02 Slowdown | Nov-07 Slowdown | Nov-12 Recovery | Nov-17 Boom | Nov-22 Slowdown |
| Dec-97 Boom | Dec-02 Slowdown | Dec-07 Slowdown | Dec-12 Recovery | Dec-17 Boom | Dec-22 Slowdown |
| Jan-98 Slowdown | Jan-03 Recession | Jan-08 Slowdown | Jan-13 Recovery | Jan-18 Boom | Jan-23 Slowdown |
| Feb-98 Slowdown | Feb-03 Recession | Feb-08 Slowdown | Feb-13 Recovery | Feb-18 Boom | Feb-23 Slowdown |
| Mar-98 Slowdown | Mar-03 Recession | Mar-08 Slowdown | Mar-13 Recovery | Mar-18 Boom | Mar-23 Slowdown |
| Apr-98 Recession | Apr-03 Recession | Apr-08 Slowdown | Apr-13 Recovery | Apr-18 Slowdown | Apr-23 Slowdown |
| May-98 Recession | May-03 Recession | May-08 Slowdown | May-13 Recovery | May-18 Slowdown | May-23 Slowdown |
| Jun-98 Recession | Jun-03 Recovery | Jun-08 Slowdown | Jun-13 Boom | Jun-18 Slowdown | Jun-23 Recession |
| Jul-98 Recession | Jul-03 Recovery | Jul-08 Slowdown | Jul-13 Boom | Jul-18 Slowdown | Jul-23 Recession |
| Aug-98 Recession | Aug-03 Recovery | Aug-08 Slowdown | Aug-13 Boom | Aug-18 Slowdown | Aug-23 Recession |
| Sep-98 Recession | Sep-03 Boom | Sep-08 Recession | Sep-13 Boom | Sep-18 Slowdown | Sep-23 Recession |
| Oct-98 Recession | Oct-03 Boom | Oct-08 Recession | Oct-13 Boom | Oct-18 Recession | Oct-23 Recession |
| Nov-98 Recession | Nov-03 Boom | Nov-08 Recession | Nov-13 Slowdown | Nov-18 Recession | Nov-23 Recession |
| Dec-98 Recession | Dec-03 Boom | Dec-08 Recession | Dec-13 Slowdown | Dec-18 Recession | Dec-23 Recession |
| Jan-99 Recession | Jan-04 Boom | Jan-09 Recession | Jan-14 Slowdown | Jan-19 Recession | Jan-24 Recession |
| Feb-99 Recovery | Feb-04 Boom | Feb-09 Recession | Feb-14 Slowdown | Feb-19 Recession | Feb-24 Recession |
| Mar-99 Recovery | Mar-04 Boom | Mar-09 Recession | Mar-14 Slowdown | Mar-19 Recession | Mar-24 Recovery |
| Apr-99 Recovery | Apr-04 Boom | Apr-09 Recession | Apr-14 Slowdown | Apr-19 Recovery | mai 2 meeorei y |
| May-99 Recovery | May-04 Boom | May-09 Recession | May-14 Slowdown | May-19 Recovery | |
| Jun-99 Recovery | Jun-04 Boom | Jun-09 Recovery | Jun-14 Slowdown | Jun-19 Recovery | |
| Jul-99 Boom | Jul-04 Boom | Jul-09 Recovery | Jul-14 Slowdown | Jul-19 Recovery | |
| Aug-99 Boom | Aug-04 Slowdown | Aug-09 Recovery | Aug-14 Slowdown | Aug-19 Recession | |
| Sep-99 Boom | Sep-04 Slowdown | Sep-09 Recovery | Sep-14 Recession | Sep-19 Recession | |
| Oct-99 Boom | Oct-04 Slowdown | Oct-09 Recovery | Oct-14 Recession | Oct-19 Recession | |
| Nov-99 Boom | Nov-04 Slowdown | Nov-09 Boom | Nov-14 Recession | Nov-19 Recession | |
| Dec-99 Boom | | | | | |
| レビレーブブ DUUIII | Dec-04 Slowdown | Dec-09 Boom | Dec-14 Recession | Dec-19 Recovery | |

Source: BofA European Equity Quant Strategy



Disclosures

Important Disclosures

FUNDAMENTAL EQUITY OPINION KEY: Opinions include a Volatility Risk Rating, an Investment Rating and an Income Rating. VOLATILITY RISK RATINGS, indicators of potential price fluctuation, are: A - Low, B - Medium and C - High. INVESTMENT RATINGS reflect the analyst's assessment of both a stock's absolute total return potential as well as its attractiveness for investment relative to other stocks within its Coverage Cluster (defined below). Our investment ratings are: 1 - Buy stocks are expected to have a total return of at least 10% and are the most attractive stocks in the coverage cluster; 2 - Neutral stocks are expected to remain flat or increase in value and are less attractive than Buy rated stocks and 3 - Underperform stocks are the least attractive stocks in a coverage cluster. An investment rating of 6 (No Rating) indicates that a stock is no longer trading on the basis of fundamentals. Analysts assign investment ratings considering, among other things, the 0-12 month total return expectation for a stock and the firm's guidelines for ratings dispersions (shown in the table below). The current price objective for a stock should be referenced to better understand the total return expectation at any given time. The price objective reflects the analyst's view of the potential price appreciation (depreciation).

Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster^{R1}

Buy	≥ 10%	≤ 70%
Neutral	≥ 0%	≤ 30%
Underperform	N/A	≥ 20%

Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

INCOME RATINGS, indicators of potential cash dividends, are: 7 - same/higher (dividend considered to be secure), 8 - same/lower (dividend not considered to be secure) and 9 - pays no cash dividend. Coverage Cluster is comprised of stocks covered by a single analyst or two or more analysts sharing a common industry, sector, region or other classification(s). A stock's coverage cluster is included in the most recent BofA Global Research report referencing the stock.

Due to the nature of strategic analysis, the issuers or securities recommended or discussed in this report are not continuously followed. Accordingly, investors must regard this report as providing stand-alone analysis and should not expect continuing analysis or additional reports relating to such issuers and/or securities.

Due to the nature of quantitative analysis, the issuers or securities recommended or discussed in this report are not continuously followed. Accordingly, investors must regard this report as providing stand-alone analysis and should not expect continuing analysis or additional reports relating to such issuers and/or securities.

BofA Global Research personnel (including the analyst(s) responsible for this report) receive compensation based upon, among other factors, the overall profitability of Bank of America Corporation, including profits derived from investment banking. The analyst(s) responsible for this report may also receive compensation based upon, among other factors, the overall profitability of the Bank's sales and trading businesses relating to the class of securities or financial instruments for which such analyst is responsible.

Other Important Disclosures

Prices are indicative and for information purposes only. Except as otherwise stated in the report, for any recommendation in relation to an equity security, the price referenced is the publicly traded price of the security as of close of business on the day prior to the date of the report or, if the report is published during intraday trading, the price referenced is indicative of the traded price as of the date and time of the report and in relation to a debt security (including equity preferred and CDS), prices are indicative as of the date and time of the report and are from various sources including BofA Securities trading desks.

The date and time of completion of the production of any recommendation in this report shall be the date and time of dissemination of this report as recorded in the report timestamp.

Recipients who are not institutional investors or market professionals should seek the advice of their independent financial advisor before considering information in this report in connection with any investment decision, or for a necessary explanation of its contents.

Officers of BofAS or one or more of its affiliates (other than research analysts) may have a financial interest in securities of the issuer(s) or in related investments. Refer to BofA Global Research policies relating to conflicts of interest.

"BofA Securities" includes BofA Securities, Inc. ("BofAS") and its affiliates. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor if they have questions concerning this report or concerning the appropriateness of any investment idea described herein for such investor. "BofA Securities" is a global brand for BofA Global Research.

Information relating to Non-US affiliates of BofA Securities and Distribution of Affiliate Research Reports:

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator); Merrill Lynch (South Africa); Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK); Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.bofaml.com/BofASEdisclaimer; BofA Europe (Milan); Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI); BofA Europe (Frankfurt): Bank of America Europe Designated Activity Company, Frankfurt Branch regulated by BaFin, the ECB and the CBI; BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch (Hong Kong): Merr (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSFC); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Mexico): Merrill Mexico): Merrill Mexico (Mexico): Merrill Mexico): Merrill Mexico (Mexico): Merrill Mexico (Mexico de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch (Israel): Merrill Lynch (International (DIFC Branch), regulated by Israel Securities Authority; Merrill Lynch (DIFC): Merrill Lynch International (DIFC Branch), regulated by the Dubai Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has



been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSFC; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BofAS India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA. Information prepared and issued by Merrill Lynch (DIFC) is done so in accordance with the requirements of the DFSA conduct of business rules. BofA Europe (Frankfurt) distributes this information in Germany and is regulated by BaFin, the ECB and the CBI. BofA Securities entities, including BofA Europe and BofASE (France), may outsource/delegate the marketing and/or provision of certain research services or aspects of research services to other branches or members of the BofA Securities group. You may be contacted by a different BofA Securities entity acting for and on behalf of your service provider where permitted by applicable law. This does no

This information has been prepared and issued by BofAS and/or one or more of its non-US affiliates. The author(s) of this information may not be licensed to carry on regulated activities in your jurisdiction and, if not licensed, do not hold themselves out as being able to do so. BofAS and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for information distributed to BofAS and/or MLPF&S clients in the US by its non-US affiliates. Any US person receiving this information and wishing to effect any transaction in any security discussed herein should do so through BofAS and/or MLPF&S and not such foreign affiliates. Hong Kong recipients of this information should contact Merrill Lynch (Asia Pacific) Limited in respect of any matters relating to dealing in securities or provision of specific advice on securities or any other matters arising from, or in connection with, this information. Singapore recipients of this information should contact Merrill Lynch (Singapore) Pte Ltd in respect of any matters arising from, or in connection with, this information. For clients that are not accredited investors, expert investors or institutional investors Merrill Lynch (Singapore) Pte Ltd accepts full responsibility for the contents of this information distributed to such clients in Singapore.

General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities. This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

Securities and other financial instruments referred to herein, or recommended, offered or sold by BofA Securities, are not insured by the Federal Deposit Insurance Corporation and are not deposits or other obligations of any insured depository institution (including, Bank of America, N.A.). Investments in general and, derivatives, in particular, involve numerous risks, including, among others, market risk, counterparty default risk and liquidity risk. No security, financial instrument or derivative is suitable for all investors. Digital assets are extremely speculative, volatile and are largely unregulated. In some cases, securities and other financial instruments may be difficult to value or sell and reliable information about the value or risks related to the security or financial instrument may be difficult to obtain. Investors should note that income from such securities and other financial instruments, if any, may fluctuate and that price or value of such securities and instruments may rise or fall and, in some cases, investors may lose their entire principal investment. Past performance is not necessarily a guide to future performance. Levels and basis for taxation may change.

This report may contain a short-term trading idea or recommendation, which highlights a specific near-term catalyst or event impacting the issuer or the market that is anticipated to have a short-term price impact on the equity securities of the issuer. Short-term trading ideas and recommendations are different from and do not affect a stock's fundamental equity rating, which reflects both a longer term total return expectation and attractiveness for investment relative to other stocks within its Coverage Cluster. Short-term trading ideas and recommendations may be more or less positive than a stock's fundamental equity rating.

BofA Securities is aware that the implementation of the ideas expressed in this report may depend upon an investor's ability to "short" securities or other financial instruments and that such action may be limited by regulations prohibiting or restricting "shortselling" in many jurisdictions. Investors are urged to seek advice regarding the applicability of such regulations prior to executing any short idea contained in this report.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned herein. Investors in such securities and instruments, including ADRs, effectively assume currency risk.

BofAS or one of its affiliates is a regular issuer of traded financial instruments linked to securities that may have been recommended in this report. BofAS or one of its affiliates may, at any time, hold a trading position (long or short) in the securities and financial instruments discussed in this report.

BofA Securities, through business units other than BofA Global Research, may have issued and may in the future issue trading ideas or recommendations that are inconsistent with, and reach different conclusions from, the information presented herein. Such ideas or recommendations may reflect different time frames, assumptions, views and analytical methods of the persons who prepared them, and BofA Securities is under no obligation to ensure that such other trading ideas or recommendations are brought to the attention of any recipient of this information. In the event that the recipient received this information pursuant to a contract between the recipient and BofAS for the provision of research services for a separate fee, and in connection therewith BofAS may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BofAS has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BofAS). If such recipient uses the services of BofAS in connection with the sale or purchase of a security referred to herein, BofAS may act as principal for its own account or as agent for another person. BofAS is and continues to act solely as a broker-dealer in connection with the execution of any transactions, including transactions in any securities referred to herein.

Copyright and General Information:

Copyright 2024 Bank of America Corporation. All rights reserved. iQdatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BofA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BofA Securities. BofA Global Research information is distributed simultaneously to internal and client websites and other portals by BofA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BofA Securities. Materials prepared by BofA Global Research personnel are based on public information. Facts and views presented in this material have not been reviewed by, and may not reflect information known to, professionals in other business areas of BofA Securities, including investment banking personnel. BofA Securities has established information barriers between BofA Global Research and certain business groups. As a result, BofA Securities does not disclose certain client relationships with, or compensation received from, such issuers. To the extent this material discusses any legal proceeding or issues, it has not been prepared as nor is it intended to express any legal conclusion, opinion or advice. Investors should consult their own legal advisers as to issues of law relating to the subject matter of this material. BofA Global Research personnel's knowledge of legal proceedings in which any BofA Securities entity and/or its directors, officers and employees may be plaintiffs, defendants, co-defendants or co-plaintiffs with or involving issuers mentioned in this material is based on public inform

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BofAS any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BofA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.



The information herein (other than disclosure information relating to BofA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BofA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BofA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BofA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BofA Securities is under no obligation to update this information and BofA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BofA Securities will not update any fact, circumstance or opinion contained herein.

Certain outstanding reports or investment opinions relating to securities, financial instruments and/or issuers may no longer be current. Always refer to the most recent research report relating to an issuer prior to making an investment decision.

In some cases, an issuer may be classified as Restricted or may be Under Review or Extended Review. In each case, investors should consider any investment opinion relating to such issuer (or its security and/or financial instruments) to be suspended or withdrawn and should not rely on the analyses and investment opinion(s) pertaining to such issuer (or its securities and/or financial instruments) nor should the analyses or opinion(s) be considered a solicitation of any kind. Sales persons and financial advisors affiliated with BofAS or any of its affiliates may not solicit purchases of securities or financial instruments that are Restricted or Under Review and may only solicit securities under Extended Review in accordance with firm policies.

Neither BofA Securities nor any officer or employee of BofA Securities accepts any liability whatsoever for any direct, indirect or consequential damages or losses arising from any use of this information.

