



SECOR ASSET MANAGEMENT

Q3 2023 Equity Outlook

25 July 2023

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	31-Mar-23	30-Jun-23	Change
MSCI World	9836.12	10556.40	7%
S&P 500 Index	4109.31	4450.38	8%
MSCI World P/E	16.8x	17.5x	4%
S&P 500 2023 Est. EPS	0.0%	0.5%	0.5%
US 10 Yr Yield	3.47%	3.84%	+ 37 bps
High Yield Spread	502 bps	475 bps%	-27 bps
US CPI YoY	5.0%	4.0%	-100 bps

Public Equity – Factors Driving Outlook



Factors	Comments	Historical Range
Valuation	 Valuations remain elevated, particularly in the US, versus very long-term averages; less so over shorter horizons. Valuations expanded after H1 rally despite tepid earnings growth. Rising bond yields have narrowed the relative attractiveness of stocks but spreads are still better than average. 	e X I earish Neutral Bullish
Fundamentals	 Muted earnings expectations for 2023; high expectations for H2 2022. Earnings revisions have turned positive after strong Q1 relative to expectations. Companies have thus far proven resilient in passing on higher costs, maintaining profit margins in what were expected to be challenging times. 	• X + • Bearish Neutral Bullish
Technicals	 Sentiment measures improved with H1 rally, now mostly neutral-to-positive, although equity outflows persist. Past large drawdowns have often been followed by periods of above-average equity returns. However, households still hold a relatively high percentage of their assets in stocks versus history (but off peak). 	Bearish Neutral Bullish
Macro Impact	 TINA trade continues to become less attractive as equity earnings yield advantage narrows, but still above average. Moderating expectations for global growth threatens equity fundamentals, but pessimistic scenarios have yet to play out. Encouraging data on inflation fight. Recent banking turmoil appears to have been contained. No break from geo-political tensions. 	Bearish Neutral Bullish
	9 – 12 Month View	• <u>*</u> + • •

Bearish

Neutral

Bullish

2

Private Equity – Factors Driving Outlook – Summary



Factors	Comments	Historical Range
Valuation	 Median Buyout EV/EBITDA acquisition multiple in North America & Europe eased slightly in Q1 to 11.1x, share of debt in deals continues to fall. Leverage levels not extreme, however. 	Bearish Neutral Bullish
Fundamentals	 HY default rates remain very low and interest coverage high; distress ratio has increased slightly. Rising financing costs should impact deal economics, dampen deal activity. 	Bearish Neutral Bullish
Technicals	 PE deal activity maintained 2022's pace in Q1 2023. Fundraising and especially exit activity fell considerably from 2022's levels. IPO market showing hopeful signs of reopening after extremely slow H1 2023. 	e X I Bearish Neutral Bullish
Macro Impact	 Approaching peak rates and promising signs on inflation lessens threat to PE environment. Recent quiet on the regulatory front. VC industry survived the SVB failure with little collateral damage. 	Bearish Neutral Bullish
Current Quarter X Last Quarter	9 – 12 Month View	Bearish Neutral Bullish



The next 5 years return forecast is for below-average returns from expected slower than average earnings growth as well as multiple contraction (see Appendix 19-20 for more detail).

MSCI World	Long-Term Assumption	Last 5 Years	Next 5 Years Est.
Nominal EPS Growth	4.2%	7.4%	1.9%
Real Earnings Growth	2.2%	4.1%	-0.1%
Inflation	2.0%	3.3%	2.0%
P/E Multiple Expansion/(Contraction)	<u>0.0%</u>	<u>0.7%</u>	<u>-0.3%</u>
Annual Price Gain	4.2%	8.1%	1.6%
Dividend Yield	<u>2.8%</u>	<u>2.1%</u>	<u>2.1%</u>
Total Return (Local)	7.0%	10.2%	3.7%
Data as of 30 June 2023			



	Performance			Valuation (z-scor		
	Last 3 Mo.	3 Mo. TTM		st 10 Yrs	Last 35 Yrs	
Value	-3.9%	-6.9%		-0.7	-1.4	
Size (Small)	-2.6%	-5.8%		-0.9	-1.1	
Momentum	1.6%	-1.8%		0.3	0.3	
Quality	0.4%	4.2%		0.3	1.1	
Low Volatility	-3.9%	-10.5%		0.6	1.5	

Highlights

• The Value rally of 2022 continued to reverse in Q2, although the stocks look attractively valued versus history.

Small caps and low volatility stocks extended their strings of negative performance; small caps appear attractively valued relative to history while low vol stocks look expensive.

• High Momentum stocks were modestly positive in Q2 but negative for the year with the change in market leadership.

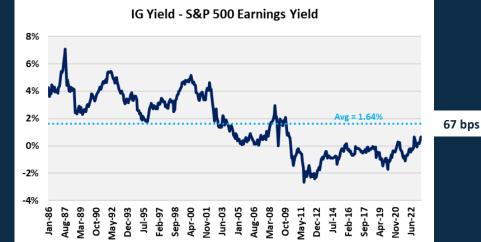
Sources: Ken French website (http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html), MSCI, Bloomberg, Compustat, FactSet, IBES, Goldman Sachs Global Investment Research, SECOR * See Appendix 21, 22 for more detail.



US Equity versus Credit

- The spread between HY YTW and the US equity Earnings Yield expanded another 50bps during the second quarter and is now 70bps below long-term average.
 - The spread between High Yield YTW (8.59%) and the S&P 500 Earnings Yield (5.02%) stood at 357 bps at 30-Jun-2023, slightly below the average of 427 bps since 1987 (48th percentile).
- The spread between IG Yield and the equity Earnings Yield has also continued to normalize but is still below historical average.
 - The spread between the IG Yield (5.69%) and the S&P 500 Earnings Yield (5.02%) stood at 67 bps at 31-Jun-2023, below the average of 164 bps since 1986 (and 43rd percentile).





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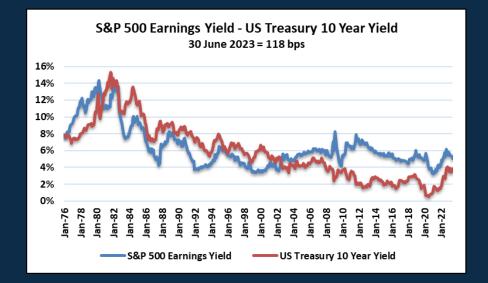
US Equity versus Bonds

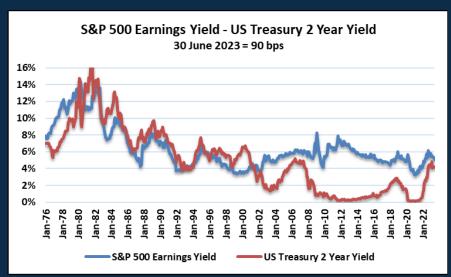
The spread between the equity earnings yield and the US 10 Year yield continues to narrow.

• The spread of 118 bps as of 30-Jun-2023 compares to a median of 86 bps from 1976.

• The current spread is the lowest since 2009.

- And the spread between the equity yield and the yield on the US 2 Year Note (90 bps) also continued to narrow to GFC-era levels.
 - TINA → TARA? (There Are Reasonable Alternatives)





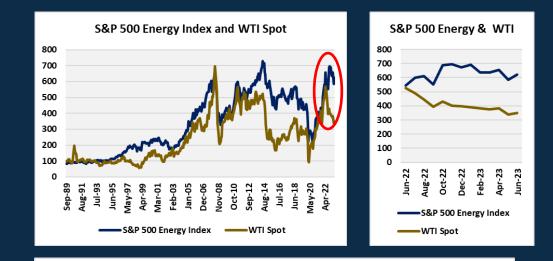
Trade Idea #1 – Long Oil/Short Energy Stocks

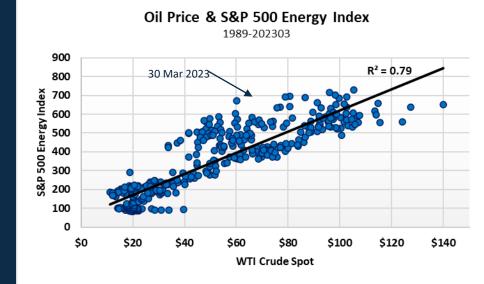
Energy stock prices decoupled from the price of oil since mid-2022.

- The S&P 500 Energy Index is up 14% since 30 June 2022 (thru 30 June 2023) while the price of crude has fallen by 33%.
- There has been a very tight relationship historically between the price of oil and the price of oil stocks.

ITD Performance 23 Jan 2023 – 30 Jun 2023: -3%







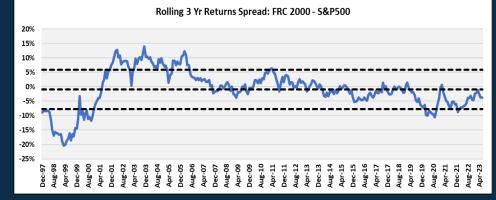
Trade Idea #2 – Long US Large Caps/Short US Small Caps

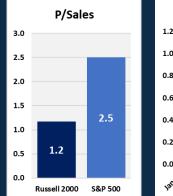
Small Cap stocks have consistently trailed Large Caps over the last 25+ years.

- The recent underperformance, though sizable, is not extreme. Over the last 3 years, the Russell 2000 has underperformed the S&P 500 by 3.8%/yr. (73rd percentile since 1995).
- No evidence of small cap effect over this period as large caps have topped small caps by 1.6%/yr.
- Large Caps also enjoy strong momentum vs small caps, with the last one-year outperformance of 7.3% ranking in the 73rd percentile.
- Small Caps current discount to Large Caps on a Price/Sales basis has only been exceeded during the peak of the TMT bubble.
 - Large Caps do trade at a large premium to Small Caps on Price/Sales (84th percentile).

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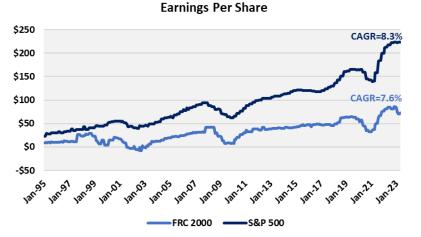








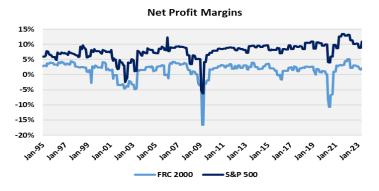
- Small Cap earnings growth has trailed that of Large Caps.
 - The difference has widened over the last ten years with Large Caps growing earnings at 7.5%/yr. versus 6.2%/yr. for Small Caps.
 - Small Cap earnings have also been more volatile than those of Large Caps.

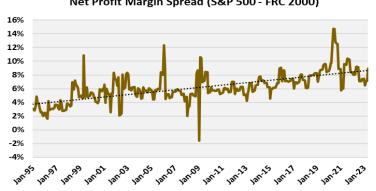


Small cap earnings growth has lagged because their profit margins have remained flat at ~2%-3% while those of large caps have steadily expanded from ~6% to ~11%.

-The spread in profit margins has nearly tripled from 3.1% in 1995 to 8.9% today (SPX=10.9%, RTY=2.0%).

-Small cap profit margins did not exceed 5% at any time since 1995.





Net Profit Margin Spread (S&P 500 - FRC 2000)

Sources: Standard & Poor's, FTSE Russell, Bloomberg, SECOR.

ITD (29 Apr 2022) Performance: +7%



Open Trade Ideas					
As of Date	31	0-Jun-23			
Trade Idea	Implementation	QTD	YTD	Since Inception	Inception date
Long Oil/Short S&P 500 Energy	Futures/Swaps	-5%	NA	-3%	23-Jan-23
Long US Equity/Short US HY	Futures/Swaps	7%	11%	2%	18-Aug-22
Long US Equity/Short US IG	Futures/Swaps	9%	14%	5%	18-Aug-22
Long S&P 500 2024 Dividends	Futures/Swaps	5%	9%	10%	18-Aug-22
Long US Large Cap/Short US Small Cap	Futures/Swaps	4%	9%	7%	29-Apr-22
Long ACWI ex China/Short China	Futures/Swaps	16%	20%	33%	31-Jul-21

Closed Trade IdeasTrade IdeaImplementationReturnTrade DatesLong Japan Value/Short Japan GrowthFutures/Swaps12%1/20/2022 - 1/23/2023Long EM Value/Short EM GrowthFutures/Swaps5%1/20/2022 - 1/23/2023

3 Catalysts That Could Change Your View & Recommendation

Recommendation: Neutral Weight Equity

3 Catalysts That Could Change Your View

- 1. The attractiveness of equities relative to other assets reverses.
 - Despite narrowing recently, the spread between the earnings yield and yields on bonds and credit continues to favor stocks.
- 2. Al-mania grips the equity market, spills over into the rest of the market creating a bubble.
- 3. Geopolitical shock: Russia resorts to nuclear weapons, China attacks Taiwan.







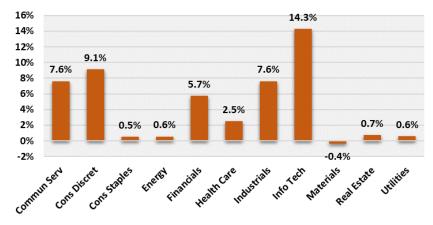


Appendix 1 – Equity Market Returns

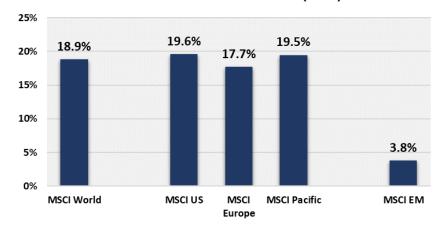




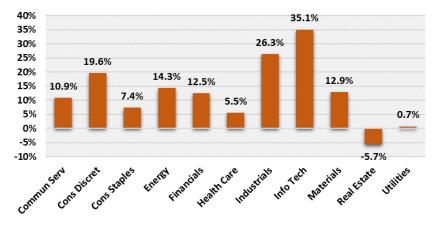
Last 3 Months Returns thru 30 June 2023 (ACWI,Local)



TTM Returns thru 30 June 2023 (Local)



TTM Returns thru 30 June 2023 (ACWI, Local)



Appendix 2a – 5 Factors Driving the Outlook for Equities



- Valuation Global equity valuations remain high by historical standards, particularly in the US. (Appendix 1-8)
 - Valuation measures in the US well above long-term median.
 - US Shiller P/E at 30.8x at end of June (93rd percentile since 1926), up from 28.5x at YE2022.
 - Valuations are less extreme in Europe where the Shiller P/E is at 17.9x (59th percentile since 1980);
 - Emerging Markets relative valuation versus Developed Markets are near average levels, as are current valuations relative to their own history.
 - Median Buyout EV/EBITDA acquisition multiple in North America & Europe eased slightly in Q1 to 11.1x, share of debt in deals continues to fall.
- Fundamentals Earnings growth continues to moderate after post-COVID spike. (App. 9-12)
 - Earnings are expected to grow 1% in US in 2023 and 11% in 2024 after growing by 4% in 2022.
 - Earnings growth in Europe and Japan expected to grow by 0% and 7%, respectively, in 2023.
 - Emerging Markets EPS expected to fall by 5% in 2023.
 - Estimate revisions have turned positive across all regions after Q1 earnings comfortably exceeded expectations.
 - Buyouts have yet to show signs of stress from higher funding costs as default rates remain low for HY borrowers; interest coverage and net margins remain high.

Appendix 2b – 5 Factors Driving the Outlook for Equities



- Macro Environment Macro environment continues to plod along, avoiding recession in US.
 - Global growth has proven resilient, defying pessimistic outlook, recession in US.
 - Banking turmoil in the US during the first quarter now in the rearview mirror.
 - Spread between earnings yields and bond yields in the US continue to mean-revert, stands at 118 bps in the US at the end of Q2 versus 193 bps at YE2022 and is approaching the historical median of 86 bps.
 - Earnings yield spread in Europe remains wide by historical standards at 404 bps but has also narrowed recently.



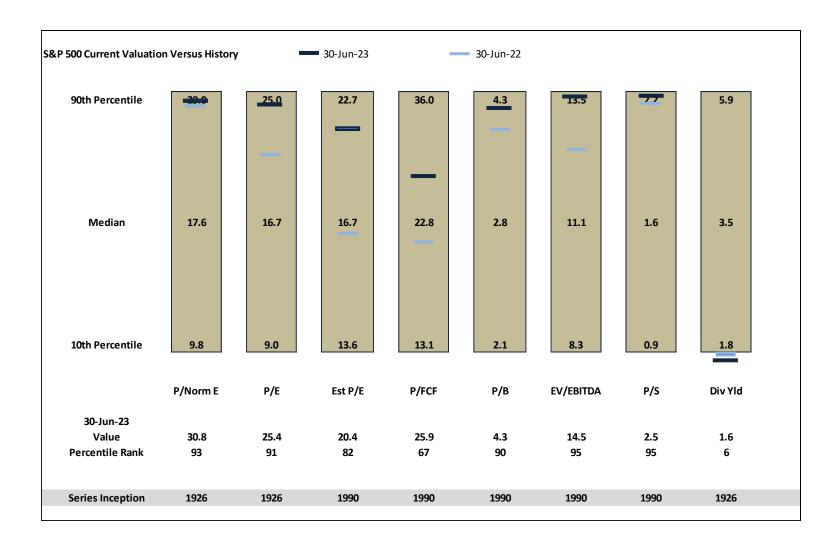




- Technicals Sentiment improving after strong Q2 returns. (Appendix 13-18)
 - Outflows from equity to fixed income still occurring but have slowed. (Appendix 13)
 - Stocks have tended to rebound following big down years such as 2022. (Appendix 14)
 - Retail investor sentiment has improved from negative to neutral to optimistic in some cases. (Appendix 15,16)
 - Household Equity Assets as a percentage of Total Financial Assets has fallen sharply over the past few quarters but remains high versus history. (Appendix 17)
 - PE deal activity maintained 2022's pace in Q1 2023; however, fundraising and especially exit activity fell considerably from 2022's levels. (Appendix 18)
- Politics Geopolitical risk remains center stage as Russia-Ukraine war, US-China tensions persist.
 - No end in sight for war in Ukraine, China-US tensions for the foreseeable future.
 - Posturing for 2024 presidential election in the US has begun.

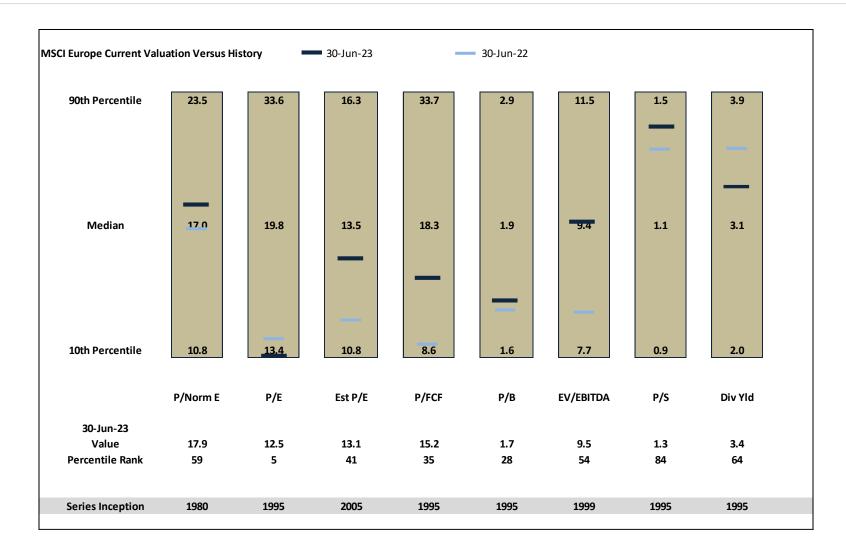
Appendix 3 – US Valuation





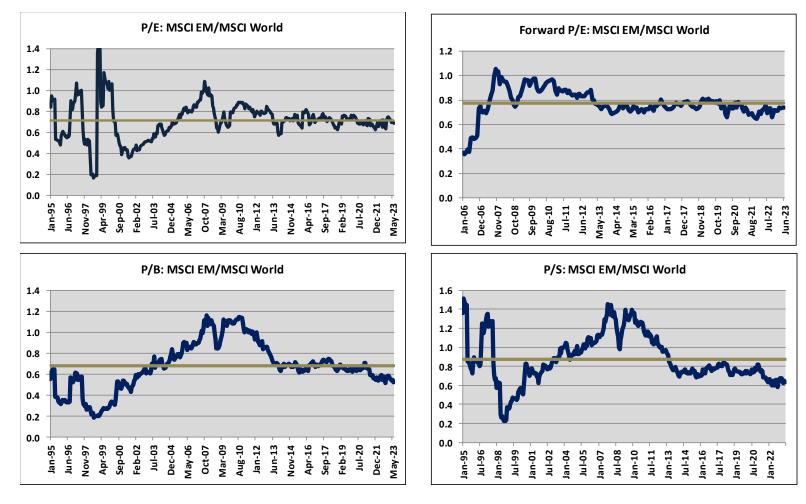
Appendix 4 – Europe Valuation





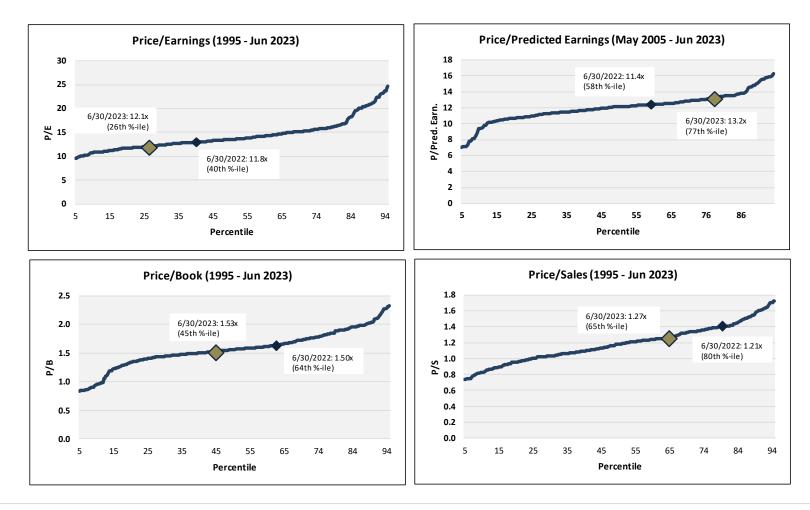


Despite their underperformance, Emerging Markets valuations are not compelling relative to Developed Markets.





Nor are Emerging Market equity valuations compelling relative to their long-term average.



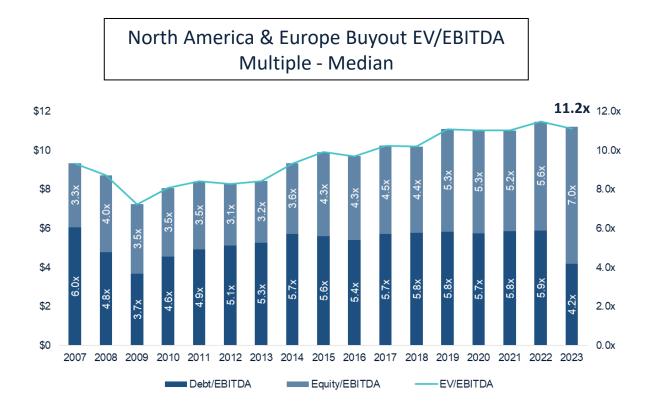
Appendix 7 – Global Equity Valuation



			F	orward	Trailing			Composite Value		
Index	Level	1yr Range	Fwd P/E	20y Z-Score	P/B	20y Z-Score	Div Yield		vs. ACWI	20yr Range
MSCI ACWI	683	•	16.4	•	2.8	-2 0 2	2.1	<u>2, 0, 2</u>	n/a	<u>.2, 0, 2</u> n/a
S&P 500	4,450	•	19.3	•	4.3		1.6	•	137%	
MSCI Europe	1,868	•	12.7	•	1.9	•	3.2	•	74%	
FTSE 100	7,532	-	10.5	•	1.7	•	4.2	•	63%	•
TOPIX	2,289	-	14.2	•	1.4	•	2.3	•	69%	•
Hang Seng	18,916	•	9.2	•	1.0	•	3.8	•	47%	•
MSCI Australia	1,430	•	15.1	•	2.1	•	4.8	•	85%	•
MSCI EM	989	•	12.2	•	1.6	•	3.3		67%	•
Brazil	1,636	•	7.7	•	1.5	•	11.0		51%	
China	61	-	10.2	•	1.4	•	2.5	-	56%	•
India	2,143	•	21.5	•	3.5	•	1.3	•	130%	•
Korea	795	-	13.8		1.0	•	2.1	•	61%	•
US Growth	9,658	•	28.5		9.6		0.5	•	261%	
US Value	3,227	•	14.6	•	2.7		2.6	•	93%	•
EU Growth	190	•	21.1		4.5		1.8	•	146%	•
EU Value	118	•	8.7	•	1.2	•	4.8	•	48%	
US Large Cap	2,970	•	20.1	•	4.7		1.5		147%	
US Small Cap	1,216	•	16.1	•	1.7	•	2.0		81%	



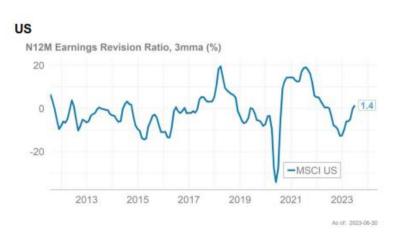
The median Buyout EV/EBITDA multiple in North America & Europe moderated slightly in Q1 2023 to 11.2x and the median debt level has declined to a recent years' low of 38%.



Appendix 9 – US & Europe Earnings

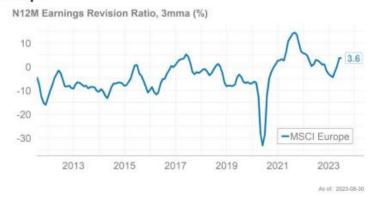








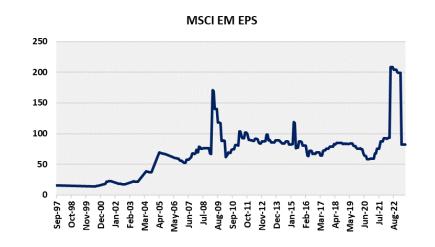
Europe

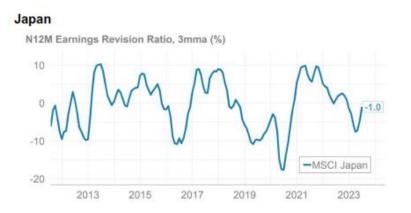


Appendix 10 – Japan & EM Earnings

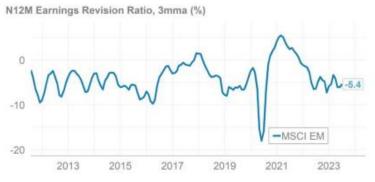




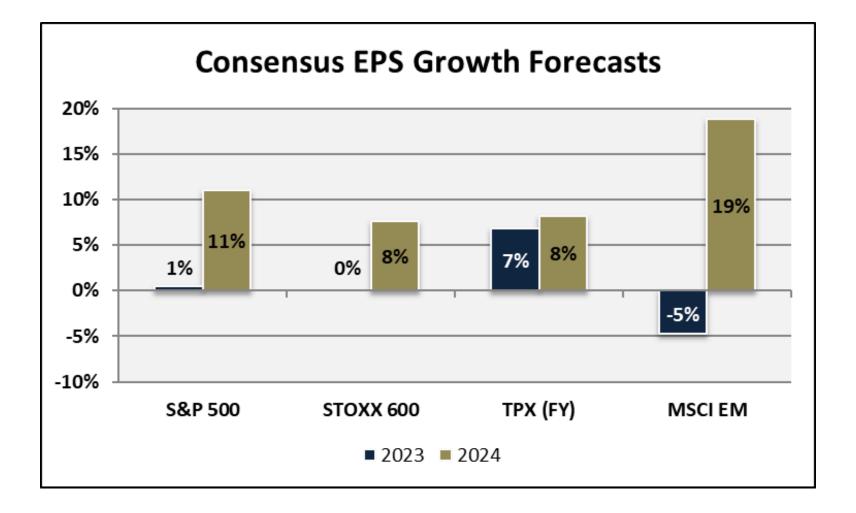




EM









 Default rates remain very low for HY bond and leveraged loan issuers and interest coverage is near an all-time high for US high yield issuers.



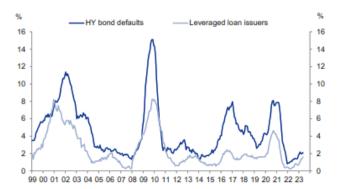
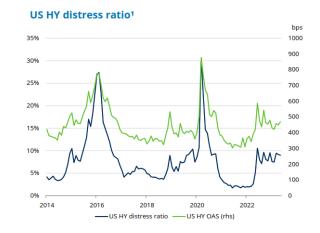


Exhibit 37: Interest coverage ratios for the median IG-rated and HY-rated company in North America

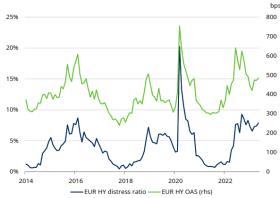
We show 4-quarter moving averages to account for seasonal factors; shaded areas indicate recessions



 HY distress ratios picked up in mid-2022 but have levelled off.

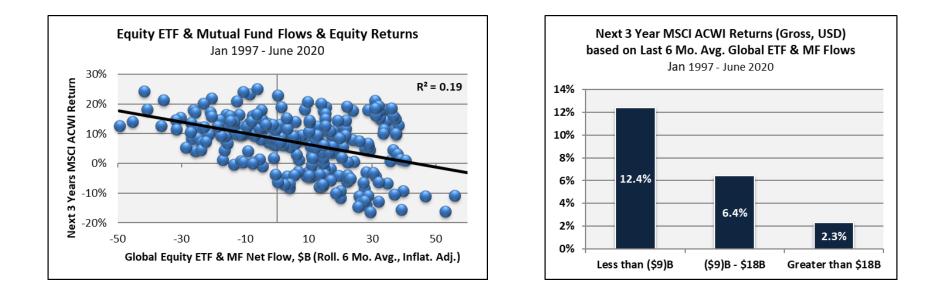


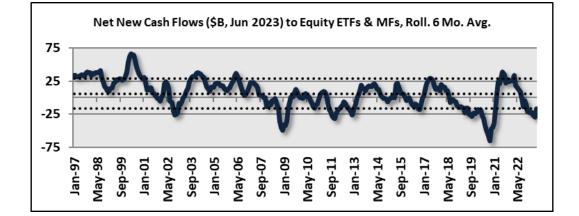
Euro HY distress ratio¹



Appendix 13 – Technicals: Flows







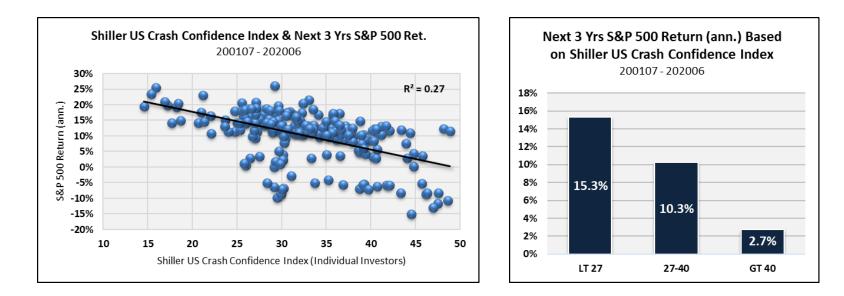
Est. June 2023 Avg. Flow = -\$16.5B

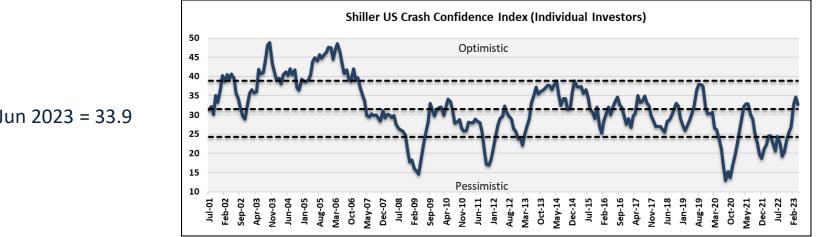


		S&P 500	Price Return (ann.)				
Peak	Trough	% Decline	+1 Year	+3 Years	+5 Years	+10 Years	
12-Dec-61	26-Jun-62	-28.0%	32.7%	16.7%	12.0%	7.5%	
29-Nov-68	26-May-70	-36.1%	43.8%	15.9%	5.5%	4.8%	
11-Jan-73	03-Oct-74	-48.2%	38.0%	15.8%	12.0%	10.1%	
28-Nov-80	12-Aug-82	-27.1%	58.3%	22.3%	26.5%	15.1%	
25-Aug-87	04-Dec-87	-33.5%	21.5%	12.9%	14.0%	15.8%	
24-Mar-00	09-Oct-02	-49.1%	33.7%	15.5%	15.0%	6.4%	
09-Oct-07	09-Mar-09	-56.8%	68.6%	26.5%	22.7%	15.0%	
19-Feb-20	23-Mar-20	-33.9%	74.8%	20.8%	???	???	
03-Jan-22	12-Oct-22	-25.4%	???	???	???	???	

Appendix 15 – Technicals: Sentiment





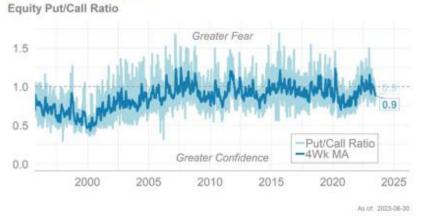


Jun 2023 = 33.9



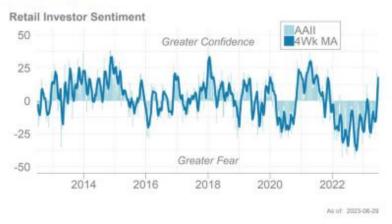
Both the Put/Call ratio and the AAII Bulls-Bears Retail Sentiment Index have bounced to optimistic levels.

US Equity Put/Call Ratio



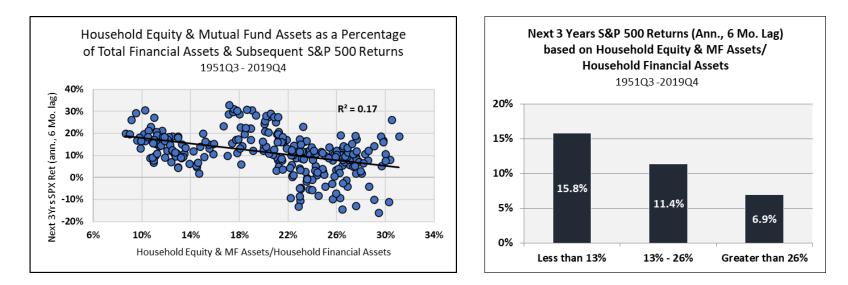
Source: CBOE, Bloomberg, Morgan Stanley Research

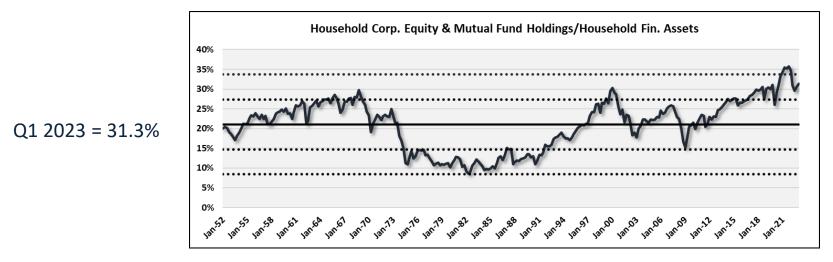
AAll Bulls-Bears



Source: AAII, Bloomberg, Morgan Stanley Research







Appendix 18 – PE Technicals: US Deals, Exits, Fundraising & Global Dry Powder

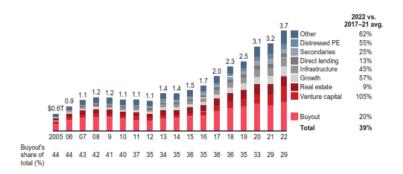








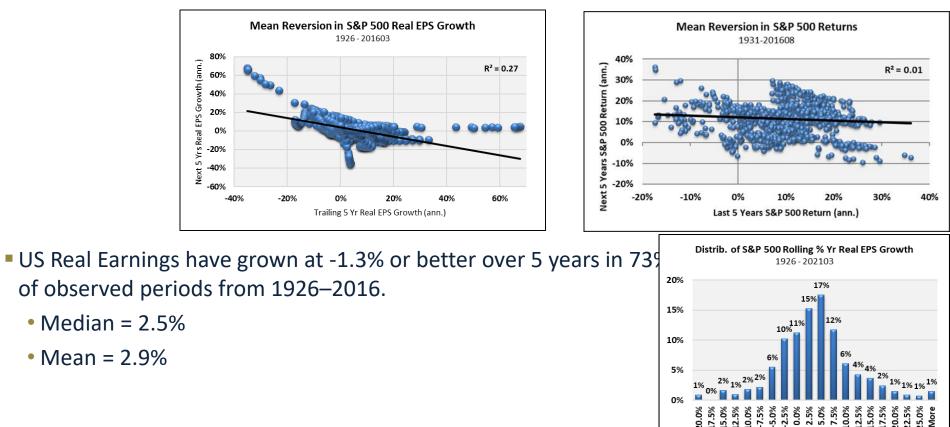
Global private capital dry powder, by fund type (\$T)



Appendix 19a – US Equity Real Earnings Growth & Total Returns



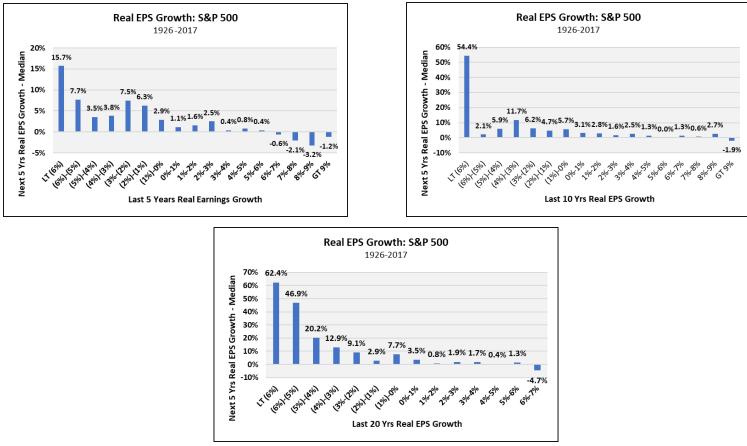
- Real EPS Growth has shown a tendency to mean revert over 5-year periods, unlike returns.
 - Trailing 5, 10 and 20 Year MSCI World Real EPS Growth of 4.1%/yr, 4.1%/yr and 6.9%/yr through Q1 2023; implies 2.0%/yr, 0.2%/yr and -6.1% over next 5 years. (average = -1.3%/yr)





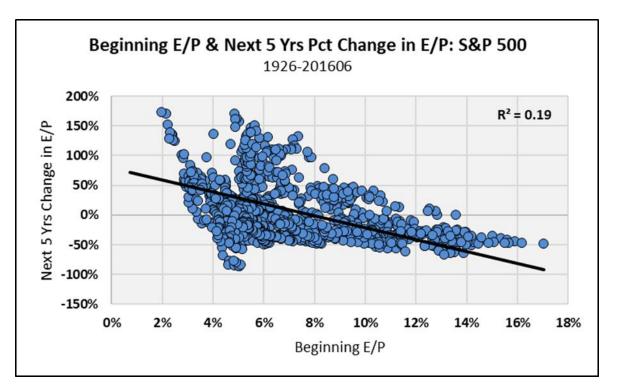
Real EPS Growth has shown a tendency to mean revert over 5-year periods, unlike returns.

-Trailing 5, 10 and 20 Year MSCI World Real EPS Growth of 4.1%/yr, 4.1%/yr and 6.9%/yr through Q1 2023; implies 0.8%/yr, 1.3%/yr and -4.7% over next 5 years. (average = -0.9%/yr)





Trailing twelve months earnings yields have tended to mean revert.



- 30 June 2023 MSCI World E/P of 5.7% (P/E of 17.5x) implies a 10.5% increase over the next 5 years to 6.3% (P/E of 15.8x).
- P/E Ratio would contract by 2.1%/yr.

Appendix 20b – 5 Year Changes in Earnings Yield – Since 1995



Trailing twelve months earnings yields have tended to mean revert.



Beginning E/P & 5 Yr Difference in E/P: MSCI World

- 30 June 2023 MSCI World E/P of 5.7% (P/E of 17.5x) implies a 7.0% decrease over the next 5 years to 5.3% (P/E of 18.9x).
- P/E Ratio would expand by 1.5%/yr.



Value

- The Value factor return was negative over both the last three- and twelve-month periods after a very strong 2022. (App. 17)
- The factor appears cheap, especially relative to its long-term history.

Size

- Small caps were again poor performers in both the last three- and twelve-month periods, continuing a long trend. (App. 17)
- Small caps also appear cheap relative to their history.

Momentum

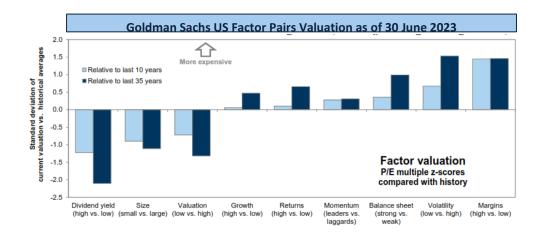
- The Momentum factor was positive for the last three months but down over the trailing twelve-month period. (App. 17)
- High momentum stock valuations appear slightly expensive relative to historical average.

Quality

- High quality stocks outperformed modestly over the last quarter and have been positive over the last 12 months. (App. 17)
- Companies with strong balance sheets are unattractively valued relative to their history, especially over the longer term.
- Volatility
 - Low volatility stocks continued to struggle in the second quarter and over the last year. (App. 17)
 - Low volatility stocks also appear expensive valued relative to their longer-term history.

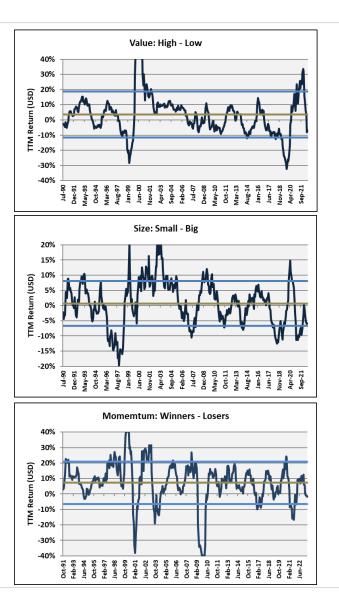
Data as of 30 June 2023	_	Z-Score		
Global Factor Performance	TTM Return	10 Year	Since Inception*	Note: Last 3 Mo. Return
Value (FF)	-6.9%	-0.4	-0.7	-3.9%
Size (FF)	-5.8%	-0.7	-0.9	-2.6%
Momentum (FF)	-1.8%	-0.8	-0.7	1.6%
Quality (Balance Sheet Strength, FF)	4.2%	0.1	0.0	0.4%
Volatility (MSCI ACWI Min Vol - ACWI)	-10.5%	-1.2	-1.4	-3.9%

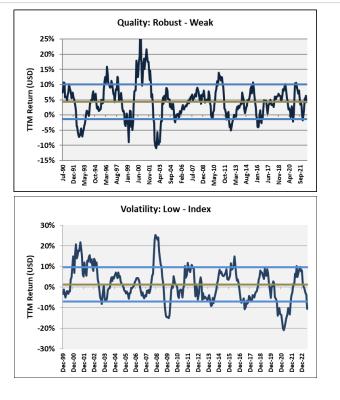
* July 1990 for Value, Size & Quality, Nov 1990 for Momentum, Dec 1998 for Volatility). June 2023 estimated. Sources: Ken French website (http://mba.tuck.dartmouth.edu/pages/faculty/ken.french/data_library.html), MSCI, Bloomberg, SECOR.



Appendix 22 – Global Equity Factor Performance







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