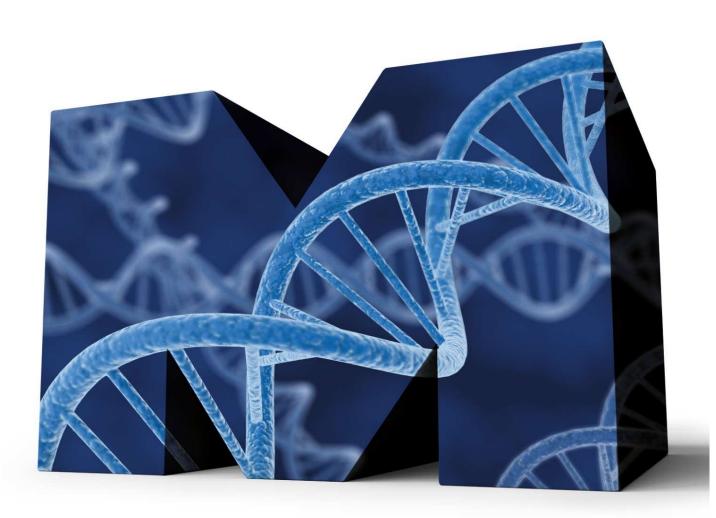


Man DNA Team Market Radar

Earnings improving but valuations expensive and liquidity poor 9 April 2024



Visit us at: www.man.com/maninstitute/the-road-ahead

Unless stated otherwise, all of the information in this document is as of month end of the issue.

The graphs/charts in this document represent internal valuation models/metrics. These are shown for information purposes only and should not be considered a recommendation for the purchase/sale of a security. Forward-looking judgements are based on current indicators and expectations. They are subject to risks and uncertainties that may cause actual results to differ materially from those implied in the statements.

Contents



Summary – Earnings improving but valuations expensive and liquidity poor

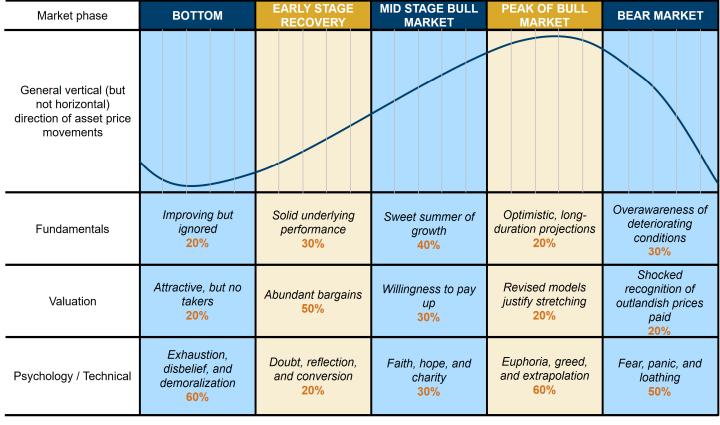
Fire & Ice – Stock-bond correlations rising again

Growth – Earnings story looking increasingly positive

Valuation – No equity sector now trades below its interquartile range

Sentiment – US equity fund flows going vertical

Drivers of Market Cycles





Earnings improving but valuations expensive and liquidity poor

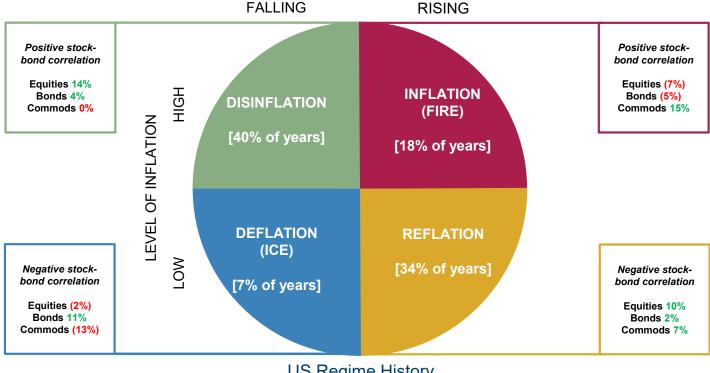
MARKET VIEW RISK NEUTRAL RISK POSITIVE RISK NEGATIVE BULLISH BEARISH • Price growth in Freight, Used Cars Signs that stock-bond correlation is · Equity performance through the rest of and Food At Home, three of the key rising again, but inflation volatility the current **DISINFLATION** episode remains well(ish) behaved (p.7) 2022 bottlenecks, are all falling would need to be 4% real to match Rental growth peaked at ~15%. Our **again** (p.6) historic precedent (p.5) **UK and Germany converging with** models suggest it will trough just below While wage growth is going in the య **US DISINFLATION** (p.7) 2%. We are currently at 5%, so a lot right direction, it is probably not FIRE Some signs China moving out of of powder from this source is used up doing it fast enough. Our models deflationary trap (p.7) suggest 4.5% in 9 months time (p.6) **BENIGN** HOSTILE Our models suggest actual <u>US</u> Broad money growth is zero to The earnings story is looking productivity is somewhere between negative in US and Europe, while at increasingly positive. Expected EPS 0 and 3% on a YoY basis. This is not long term lows in Japan and China. is being revised up across all DMs, terrible relative to history, but it's not GROWT while ERRs are moving higher in the revolutionary either (yet..) (p.11) M&A volumes are average in the US, US and Japan. This is on top of US consumer spending is only ok, and below average in Europe (p.9) margins and ROEs still decent to very · Real rates remain very high in US and eg credit card spending YoY = 0%. decent across all geographies (p.8) Europe (p.11) ISMs improving from bad levels (p.10) **ROBUST WEAK** Japan CVI has moved into SELL, **Energy continues to offer** following the YTD rally (p.12) Our models suggest theoretical fair **RELATIVELY more attractive** · Breadth of expensiveness within value yield on UST10 is almost exactly valuations. Fwd multiple of 11x is equities: not a single sector now 4%. The recent run up in actual below median, while expected trading below interquartile range (p.14) yields may therefore represent a operating margin of 15% allows for USD HY credit trading at 10Y tights, value opportunity (p.15) some upside surprises on the implying 5Y fwd. default rate of 10%, operational side (p.14) vs 17% historically realised (p.16) **CHEAP EXPENSIVE** · US equity mutual fund inflows are at The NFIB Small Business survey remains highly pessimistic, while the their highest level in 3 years (p.17) · AAII Bulls Minus Bears remains LUMMILUM S&P and Cyclical vs Defensives Uni. Mich. Consumer Sentiment RSIs remain at uncomfortable close to 10Y highs (p.17) survey is rallying from low levels, both levels, but are below 75 and rolling Other signs of greed: sovereign bond historically bullish signals (p.18) fund inflows rolling over and CFTC over (p.18) · US GDP revisions are moving up off positioning in UST10 close to 10Y low levels (p.18) shorts (p.17) **FEAR GREED**

Fire & Ice – Historic Episodes

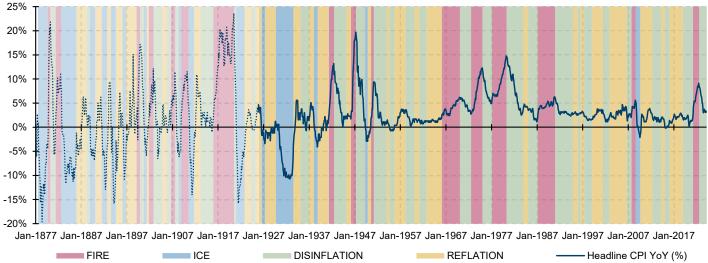
Our Fire & Ice framework, based on the level and direction of inflation, informs our tactical asset allocation choices. In ICE output prices fall, profits fall and stock prices fall. Conversely, fixed nominal coupons on bonds become more valuable in real terms and bond prices rise. The stock-bond correlation is negative. When policies are enacted to stimulate growth the regime changes to REFLATION. Pricing expectations rise, profits rise, stocks go up. Bond prices should fall as the NPV of future cash flows falls. The stock-bond correlation is still negative. If stimulus remains in place we can then move into an FIRE regime. The present value of bond coupons falls as inflation eats away future values, yields rise, pushing up the discount rate for cash flows to equity, pushing equity prices down. Stocks and bonds fall together, the stock-bond correlation is now positive. Eventually the authorities act to rein in inflation and it starts to decelerate. This precipitates a DISINFLATION regime. It's the opposite of inflation. Stocks and bonds rally together. The stock-bond correlation is positive.

The Fire & Ice Framework

DIRECTION OF INFLATION



US Regime History



Sources: Data from January 1877. From 1877 to 1946 this is based off work done by AQR. From 1946 we use returns data from the Man AHL database. Equities are the S&P 500 using Professor Shiller's data. Bonds are UST10 from GFD. Commodities are proxied by an equal weight portfolio of all futures contracts as they appear through history.Inflation from Professor Shiller's database. Inflation from Professor Shiller's database. Inflation from Professor Shiller's database. Inflation regimes defined by the DNA team according to the following rules. FIRE: where CPI YoY moves above 2%, through 5% and peaks. ICE: where CPI moves below 1%, then below 1%, ending either at the trough, or where it goes back through -4%. DISINFLATION: where CPI is falling on a trailing 12 month basis, and is not either FIRE or ICE. Also assume that DISINFLATION cannot follow ICE. REFLATION: where CPI is rising on a trailing 12 month basis, and is not either FIRE or ICE. Also assume that REFLATION cannot follow FIRE.

Fire & Ice – Historic Returns

Our research has pointed to Inflation as being the critical driver of asset returns and interactions. Inflation regime identification is the starting point of our investment process. Here we show the historical returns to various assets in the four inflationary regimes

US Aggregate Regime Performance (Returns are Real Annualised)

BD DURATION UST 30: 4% UST 10: 4% UST 2: 2% TIPS: 2% **CREDIT** HY: 6% **COMMOD. GROUPS** Industrials: (6% Precious: (4%) Agris: (1%) Softs: 1% Livestock: 0% Energies: (9%) Trend: 15% Gold: (4%) Wine: 3% Resi RE: 3%

EQ SECTORS Staples: 14% Disc.: 22% Manu: 14% Energy: 10% Chems.: 14% Tech: 16% Comms: 13% Utils: 13% Retail: 18%

Health: 12% Fins: 17% **EQ L/S STYLES** Small Size: 29 Value: 3% Profitability: 3% Cons. Invest.: 2% XS Mom.: 7% Quality: 3% Low Beta: 12%

SINCE 1926 Equities: 14% Bonds: 4% 60/40: 10% Commod: 0%

FULL HIST. Bonds: 4% 60/40:9% Commod: 2% Equities: (7% Bonds: (5%) 60/40: (6%) Commod:15%

FULL HIST. Bonds: (7%) 60/40: (7%) Commod: 13%

RISING

DIRECTION OF INFLATION

FALLING

EQ SECTORS Staples: (6%

Disc.: (15%) Manu: (8%) Energy: 1% Chems.: (6%) Tech: (9%) Comms: (7%)

Utils: (9%) Retail: (9%) Health: (1%) Fins: (9%)

EQ L/S STYLES Small Size: (4%) Value: (1%) Profitability: (1%) Cons. Invest.: 2% XS Mom.: 8% Quality: 3%

Low Beta: (3%)

BD DURATION UST 30: (8%) UST 10: (5%) UST 2: (3%) TIPS: 2%

CREDIT HY: (7%)

COMMOD. GROUPS Industrials: 19% Precious: 11%

Agris: 9% Softs: 8% Livestock: 7% Energies: 31%

Trend: 25% Gold: 13% Wine: 5%

CPI moves from 6% to 2%

Over full time period from 7% to 2%

LEVEL OF INFLATION

DISINFLATION

40% of time 18% of time 2% avg. inflation 10% avg. inflation 4% avg. growth

Numbers for full time period:

Numbers for full time period:

FIRE

7% of time (3%) avg. inflation (3%) avg. growth

ICE

Numbers for full time period: 15% / (5%) / 0% **REFLATION**

34% of time 2% avg. inflation 4% avg. growth

Numbers for full time period: 32% / 2% / 4%

FULL HIST

Equities: 8%

Bonds: 2%

60/40: 6%

Commod: 6%

SINCE 1926

Equities: 10%

Bonds: 2%

60/40: 7%

Commod:7%

CPI moves from 2% to 11%

Over full time period from 2% to 13%

4% avg. growth

CPI moves from 2% to (4%) Over full time period from 3% to (5%)

BD DURATION UST 30: 13% UST 10: 11% UST 2: 5% TIPS: 2% **CREDIT** IG: 13% HY: 7%

COMMOD. GROUPS Industrials: (27%) Precious: (14%) Agris: (22%) Softs: (8%) Livestock: (34%) Energies: (57%) Trend: 18% Gold: 5%

Resi RE: 0%

EQ SECTORS Staples: 89 Disc.: 6% Manu: (7%) Energy: (7%) Tech: (9%) Comms: (1%) Utils: (5%) Retail: (1%) Health: 7% Fins: (11%) EQ L/S STYLES Small Size: 14 Value: 9%

Profitability: 11% Cons. Invest.: 3% XS Mom.: (14%) Quality: 14% Low Beta: (3%)

FULL HIST. Bonds: 12% 60/40: 14% Commod:(7%)

SINCE 1926 Equities: (2%) Bonds: 11% 60/40: 5% Commod:(13%) CPI moves from 0% to 2% Over full time period from (1%) to 2%

EQ SECTORS Staples: 99 Disc.: 6% Manu: 11% Energy: 10% Chems.: 10% Tech: 13% Comms: 8% Utils: 9% Retail: 8% Health: 11% Fins: 9%

EQ L/S STYLES Small Size: (2 Value: 0% Profitability: 1% Cons. Invest.: 1% XS Mom.: 4% Quality: 1% Low Beta: 5%

BD DURATION UST 30: 3% UST 10: 2% UST 2: 1% TIPS: 4% **CREDIT**

IG: 5% HY: 7%

COMMOD. GROUPS Industrials: 22 Precious: 4%

Agris: (1%) Softs: (7%) Livestock: 7% Energies: 20% Trend: 13%

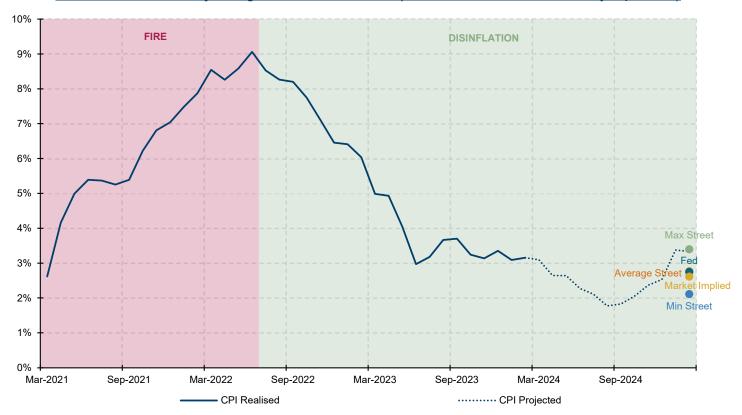
Gold: 2% Wine: 9% Resi RE: 1%

All returns are total return. Sources: Equities are the S&P 500 using Professor Shiller's data. Bonds are UST10 from GFD. 60/40 is the monthly rebalanced 60% equity, 40% bonds portfolio. Commodities are proxied by an equal weight portfolio of all futures contracts as they appear through history. From 1877 to 1946 this is based off work done by AQR. From 1946 we use returns data from the Man AHL database. Sectors are the based off the 12 Fama-French industry portfolios. Similarly styles are the Fama-French portfolios (SMB, HML, RMW, CMA and Mom. Respectively), apart from Quality and Low Beta which are AQR (QMJ and BAB). Duration returns from GFD. TIPS prior to 1997 based off a backcast by William Marshall at Goldman Sachs, otherwise Bloomberg. Credit portfolios constructed by the DNA team from data provided by Morgan Stanley. Wine returns from Credit Suisse to 2001, and then the Liv-Ex 100 Fine Wine benchmark. Residential RE is based of the Case-Shiller index. For further details on regimes and asset returns, please see our paper, The Best Strategies for Inflationary Times, available here: https://papers.ssrn.com/abstract=3813202

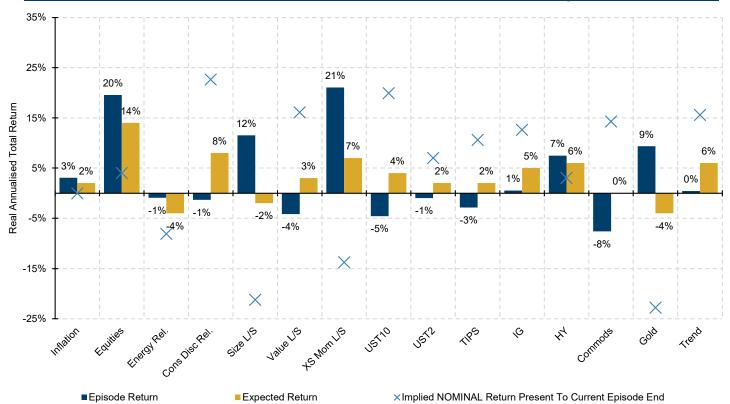
Fire & Ice - Current Episode

The top half of this page shows our model for forecasting inflation over the next 12 months. We indicate the likely Fire & Ice episode according to the framework set out on p.3. The bottom half shows, in blue, return for the current episode, and in yellow, that which has been realised for that episode historically. This gives some indication of the major multi-asset discrepancies

DNA Model For Projecting Headline Inflation (With Assessment Of Likely Episode)



Performance In Current DISINFLATION Episode Versus Historic Average For This Episode

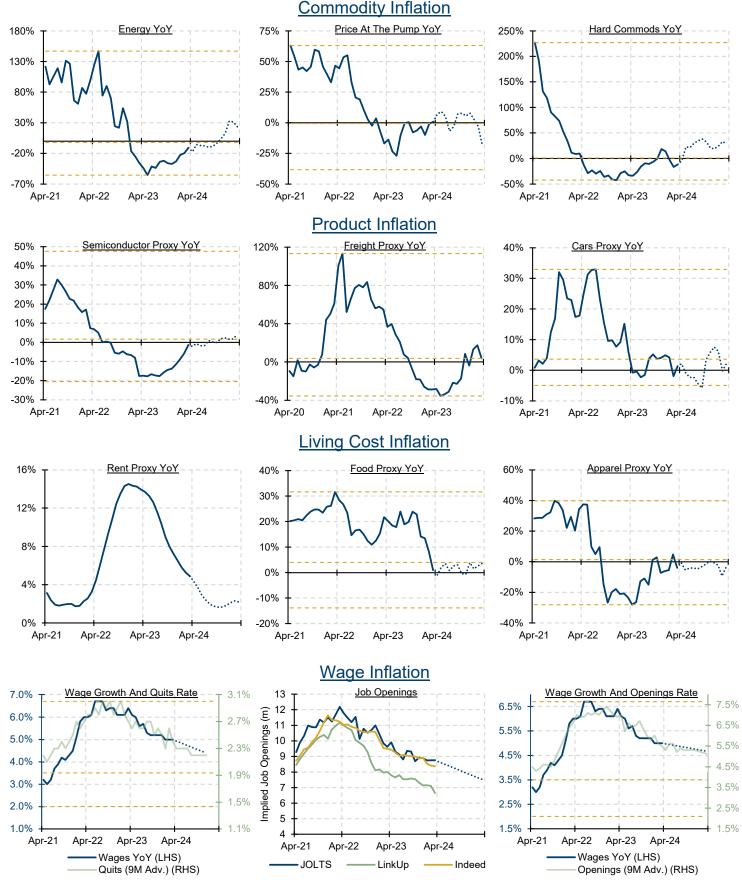


Sources: (TOP) DNA Inflation Projection Model uses the following inputs: commodities futures curves, semiconductor prices (DRAM 8Gb 1Gx8 3200 MHz and NAND 128Gb 3D TLC NAND), forward sales estimates for semis manufacturers, food and clothing retailers and logistics businesses, Zillow and ApartmentList rent estimates, Baltic Dry shipping futures, Manheim used car prices, JOLTS Quits and Opening Rates and alternative job openings measures from LinkUp and Indeed. (BOTTOM) Historic returns use indices as per the footnote on p.4. Asset returns for the current DISINFLATION episode (starting end June 22) calculated as follows: overall and sector equities are S&P 500, factor L/S are Goldman Sachs US baskets (note Size is long large cap, short small cap), all bonds are the relevant Bloomberg Barclays index, commodities is the Bloomberg All Commodities Index (including roll), Gold is near end gold futures (inc. roll), Trend is the Soc. Gen. CTA index. We apply a haircut (50% of the excess return) to the historic realised Trend figures.

FIRE & ICE

Inflation Components

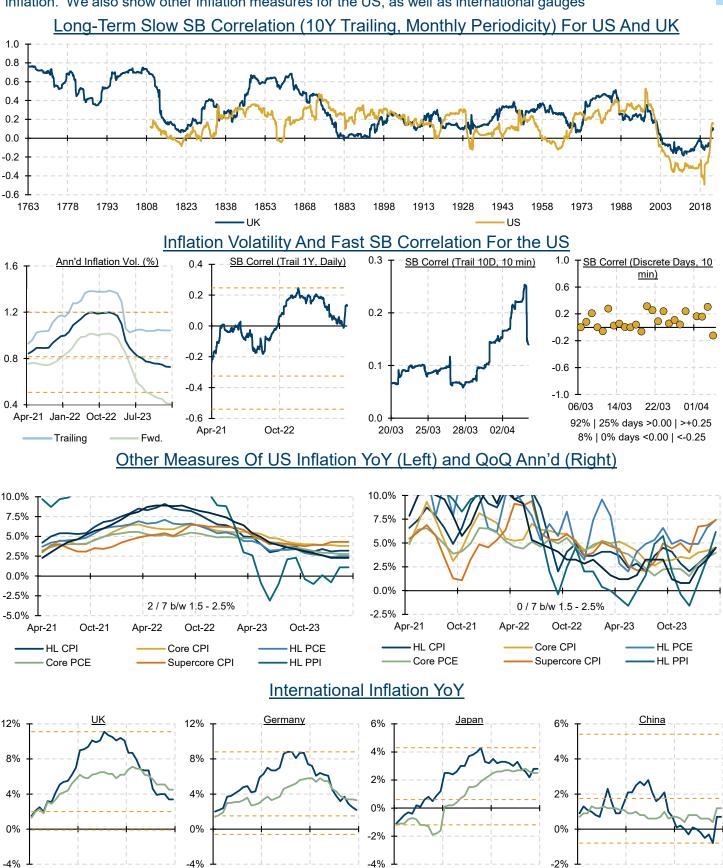
This page shows a variety of indicators we use to understand the pathway of future US inflation. The dashed portion of the blue lines show a future projection, where an estimator exists. The horizontal yellow dashed lines indicate the trailing 10 year maximum, median and minimum



Sources: Energy is futures in Gasoline (46%), Natural Gas (40%) and Coal (14%). Weightings are roughly the breakdown of US energy consumption as reported by the EIA. Price @ Pump taken from the American Automobile Association. Hard Commods is an equal weighted basket of Copper, Lumber and Steel futures. Semiconductor Proxy combines actual prices with estimated sales of the MVIS Semis index. Food Proxy combines an equal weight basket of Wheat, Cattle, Sugar, Orange Juice and Coffee, with estimated sales of the S&P Food Retailing Index. Apparel Proxy combines cotton prices with estimated sales of the S&P Textiles index. Rent Proxy combines house prices (Case-Shiller) with rental estimates (Zillow and ApartmentList)

SB Correlation And International Inflation

We believe there is a link between Fire & Ice episode and the stock-bond (SB) correlation. One facet of this link is inflation volatility; historically where it rises SB correlation has tended to move up. Here we show various measures of the SB correlation, along with the volatility of inflation. We also show other inflation measures for the US, as well as international gauges



Sources: Long term data comes from Bank of England and Global Financial Data. Otherwise all Bloomberg. Horizontal dashed yellow lines in the international inflation charts are the trailing 10Y maximum, median and minimum levels

Apr-21

HL

Apr-23

Core

Apr-23

Core

Apr-23
—— Core

Apr-21

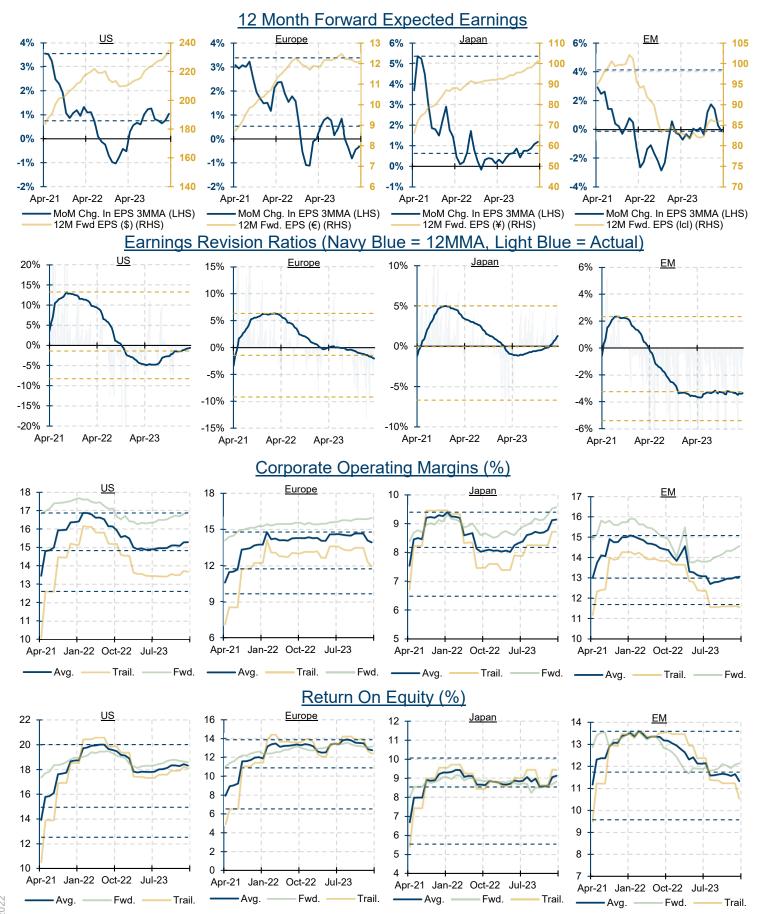
Apr-23

Core

Apr-21

Profitability

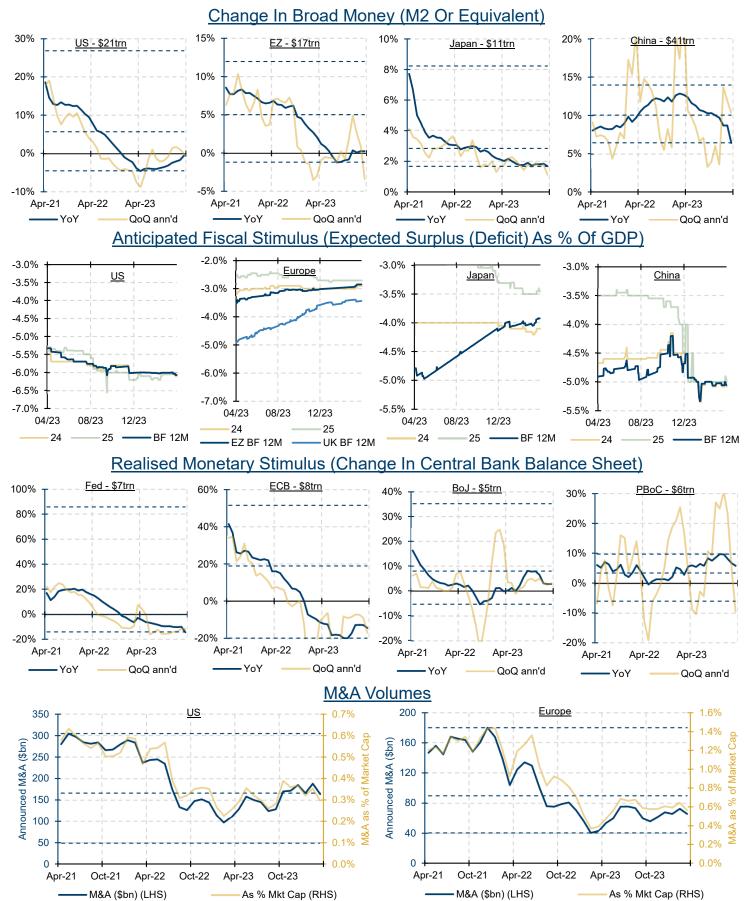
The best growth environment tends to be one where margins are washed out (the level is low) but earnings are beginning to be revised upward. In other words the 'Early Stage Recovery' per the schematic on p.1



Sources: Earnings data from IBES. Revision Ratio defined as (# of upgrades - # of downgrades) / total # of estimates. All indices are MSCI unless otherwise stated. Horizontal dashed lines refer to trailing 10Y maximum, median and minimum of the respective metric. The y-axis for earnings growth (top row) is cut off such that the minimum cannot be seen, in the interests of legibility

Liquidity

This page shows money growth (top row) and two of its principal components: fiscal (second) and monetary policy (third). The final row shows M&A volumes to give a sense of how quickly liquidity is flowing around economies. All else equal, we would expect more liquidity = more growth = better environment for taking risk

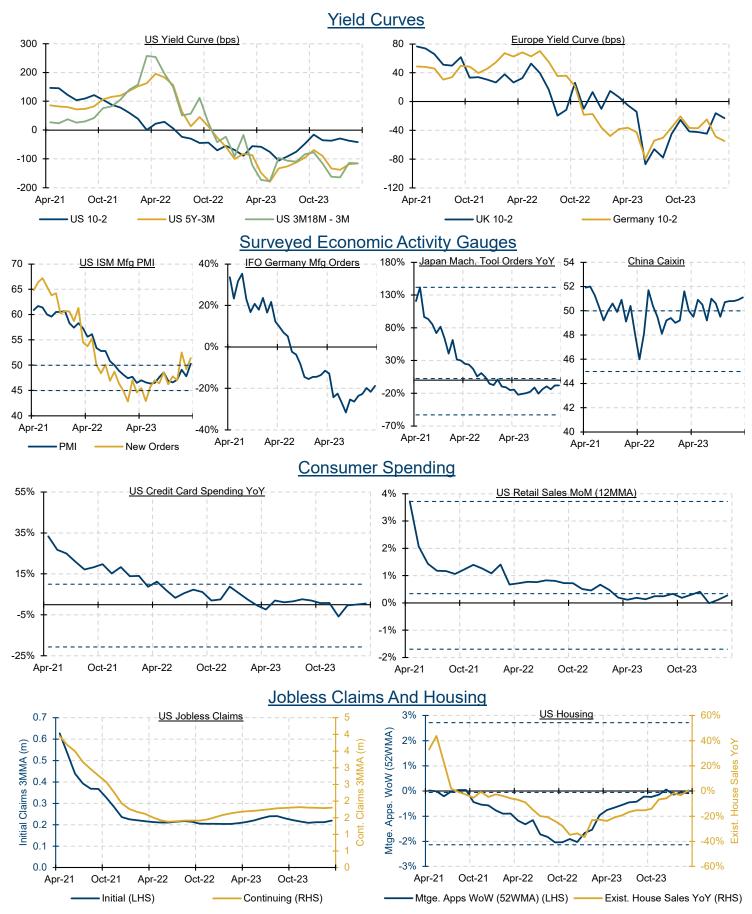


Sources: Bloomberg. M&A volumes are monthly values. Where the charts include horizontal blue dashed lines this indicate the trailing 10 year maximum, median and minimum for the navy blue line in the respective chart

10

Activity

Various metrics we watch to give a forward read on general economic activity

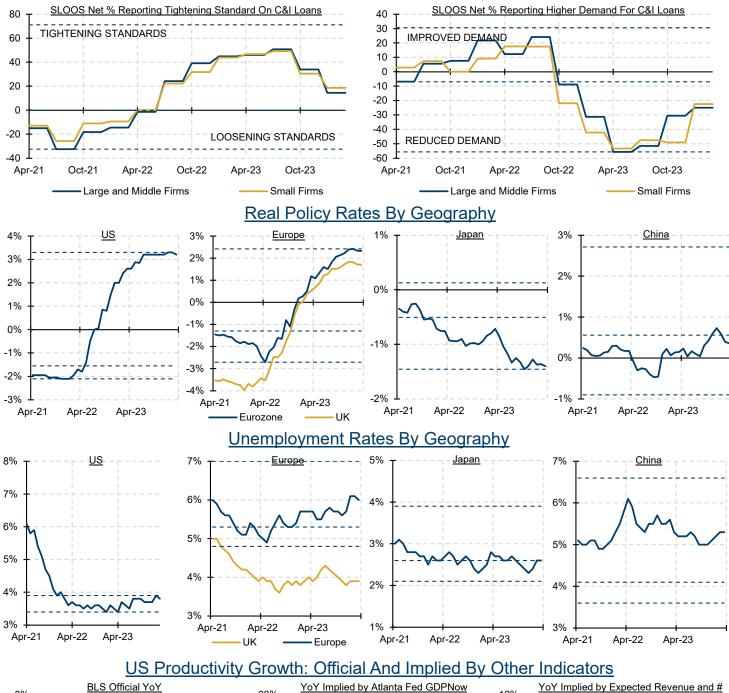


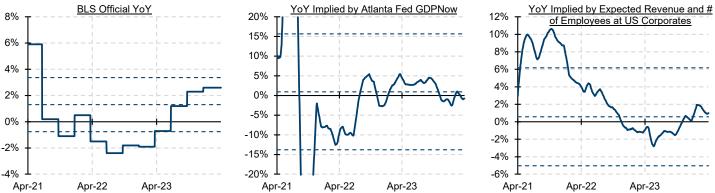
Sources: Bloomberg. Credit card spending data from Consumer Edge. Blue horizontal dashed lines show, for the respective navy blue solid line, the trailing 10Y maximum, median and minimum. The only exceptions to this are the US ISM Mfg. PMI and the China Caixin PMI, where we just show 2 dashed blue lines representing the 50 level that separates economic expansion from contraction, and the 45 level which has been historically consistent with recession

Credit And Labour Availability

Easier lending standards, low and falling real rates, falling unemployment rates and rising participation rates, all augur for better fundamental growth. And vice versa. We also watch productivity, both the official data and two more real time metrics



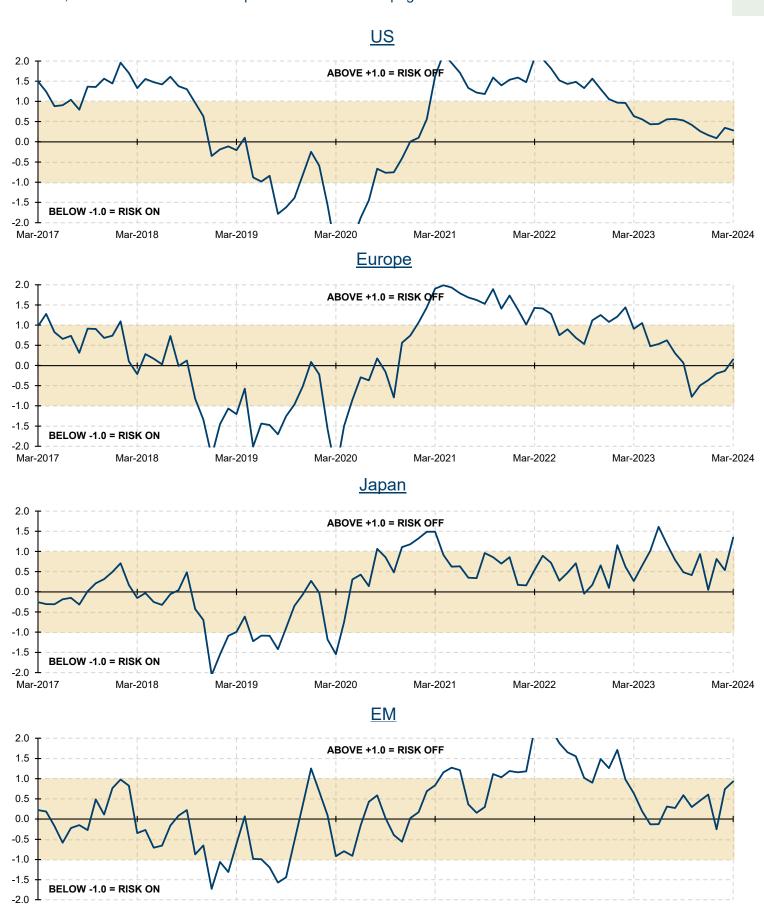




Sources: Bloomberg. Blue horizontal dashed lines show, for the respective navy blue solid line, trailing 10Y maximum, median and minimum. For the unemployment rates, instead of the median we show min + 50bps, reflecting the traditional recession heuristic (albeit the actual rule is +50bps from cycle low, not the trailing 10Y). Where only 2 horizontal lines can be seen we have cut off the y-axis so the maximum cannot be seen, in the interests of legibility

Composite Valuation Indicator (CVI)

The CVI measures the extent to which valuation conditions are supportive of higher levels of risk-taking. Where equity yields are high relative to bond yields and inflation the model will be risk-on, and vice versa. Detailed inputs follow on the next page



Sources: Bloomberg. Inputs as follows: BY / DY, BY / BV/, BY / EY, CPI / DY, CPI / EY, CPI / EY. In each instance the model sees environments where equity yields are high relative to bond yields and inflation as being propitious for risk taking, i.e. a low reading on the charts above, and vice versa. All indices are MSCI

Mar-2021

Mar-2022

Mar-2023

Mar-2020

Mar-2024

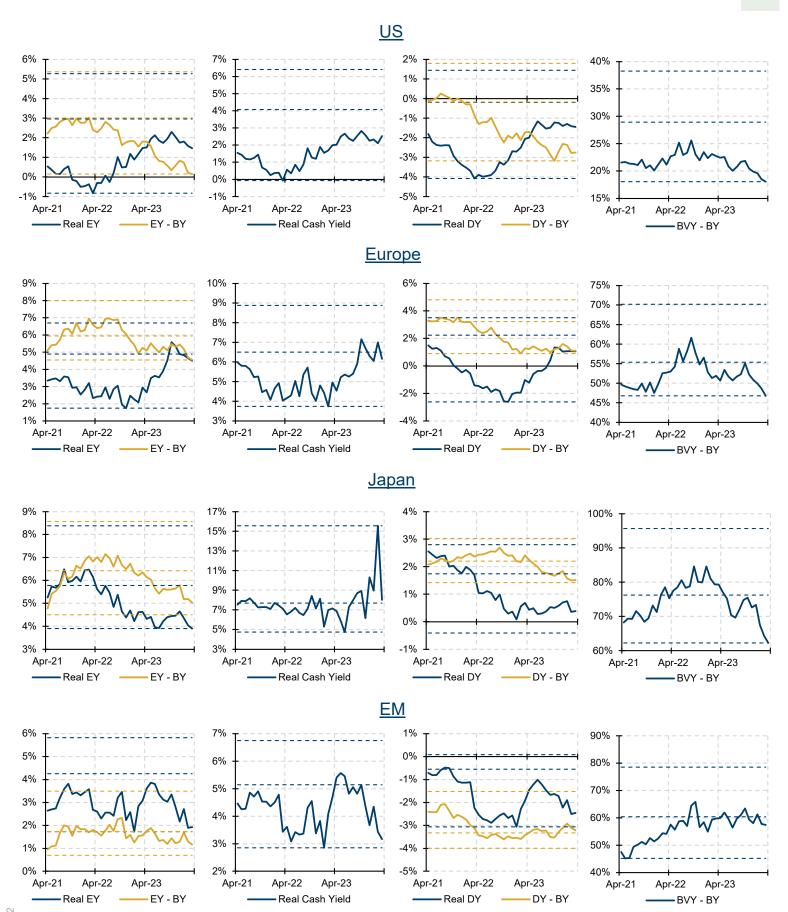
Mar-2017

Mar-2018

Mar-2019

CVI Inputs

This page shows the inputs that go into the CVI model. Each chart shows, for the given geography, a flavour of earnings yield discounted by either the bond yield or inflation

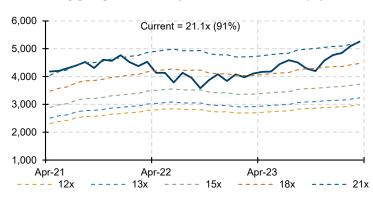


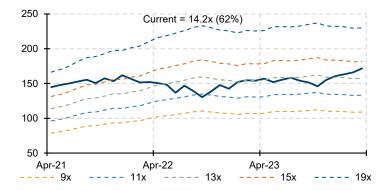
EY, CY and BVY are averages of trailing and 12 month forward yields. DY is pure forward. To calculate real values we use the average of headline CPI YoY and the 5Y5Y breakeven swap. Bond yields are those on the geographically relevant 10 year. All indices are MSCI

Other Equity Valuation Indicators

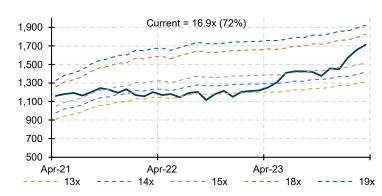
This page shows some other ways of thinking about valuation. The top half shows different equity geographies, where they trade now, and where they would trade if the multiple was at different levels. The second half of the page looks through a sector lens, and details forward multiples and expected margins

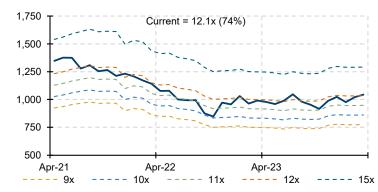
Aggregate Equity Prices For US (L) and Europe (R) With Forward PE Valuation Bands



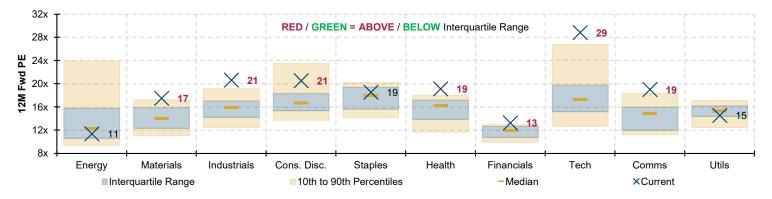


Aggregate Equity Prices For Japan (L) and EM (R) With Forward PE Valuation Bands

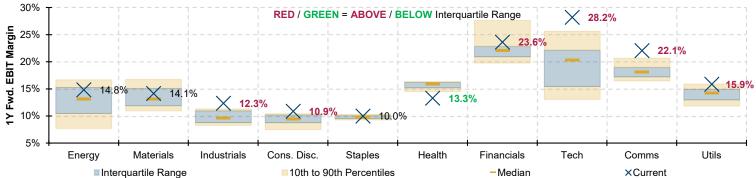




MSCI World Sector Valuations Relative To History



MSCI World Sector Margins Relative To History

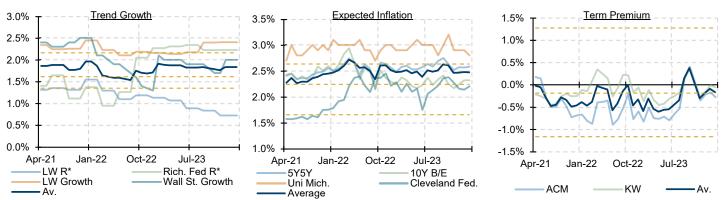


Sources: Bloomberg. Indices for charts on first half of the page are (clockwise from top left): S&P 500, MSCI Europe, MSCI Japan and MSCI EM. The multiple bands are approximately the 10-25-50-75-90 percentiles of the forward PE multiple since 1990 (for Japan since 2003). Percentiles and ranges in the bottom half charts are since 2005. Sectors defined according to the GICS methodology

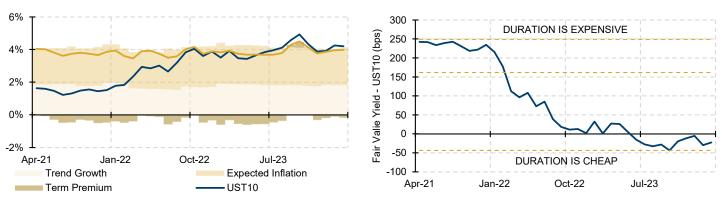
Duration Valuation

In the top half of the page we compare the UST10 yield against the theoretical yield comprised of trend growth + expected inflation + term premium. In the bottom half we compare US yields to international yields, and the extent to which the spread is justified by relative theoretical fair value spreads

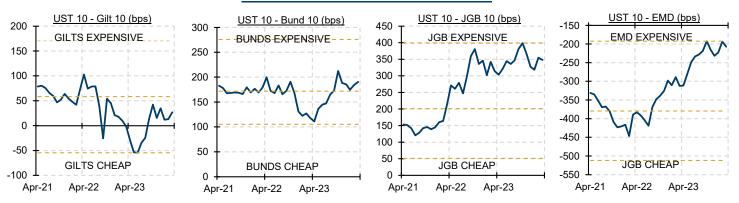
Components Of US Theoretical Fair Value Yield



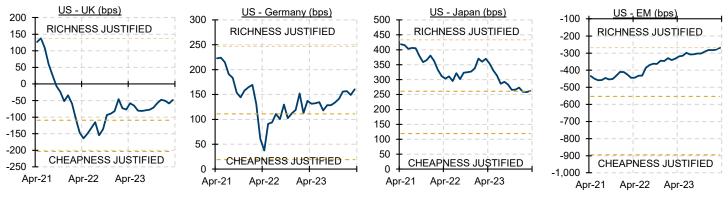
US Theoretical Fair Value Yield Vs Actual Yield



US Yields Vs International Yields



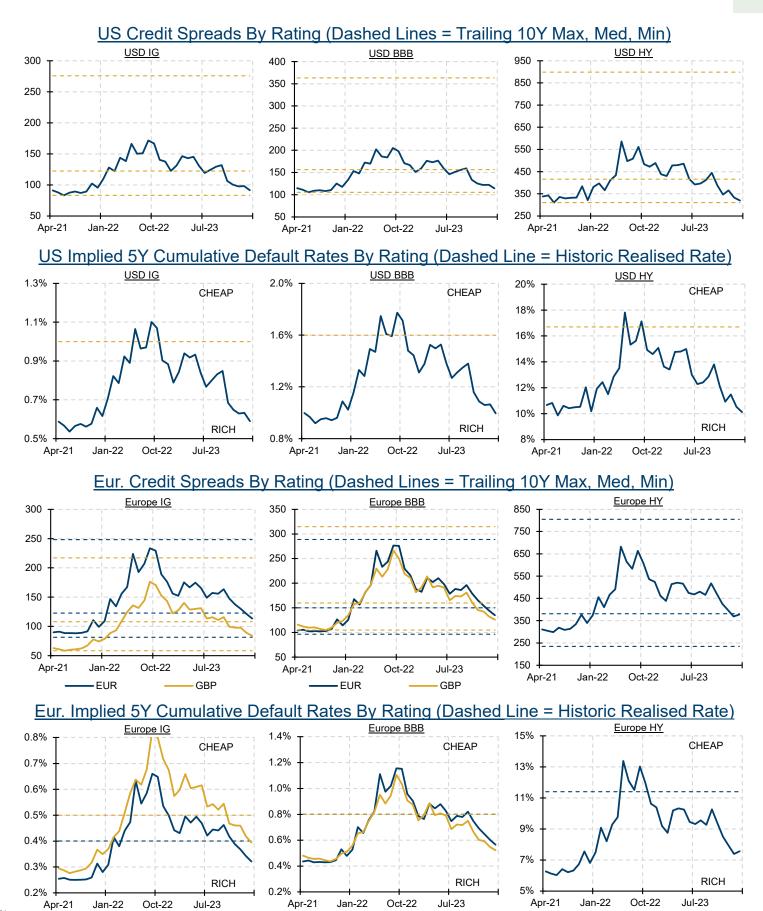
US Theoretical Fair Value Yields Vs International Equivalents



Sources: Bloomberg. When summing the components of US theoretical fair value yield we use the average of the various metrics we identify for each component. When comparing US theoretical fair value yields to international peers, we make the simplifying assumption that the term premium is the same for the US and the comparator geography. Horizontal dashed yellow lines are the trailing 10Y maximum, median and minimum

Credit Valuation

We monitor credit spreads against their prior 10 year history (first and third rows), as well as looking at what default rate that credit spread implies (based on a 40% recovery rate), relative to long term realised default rates (second and fourth)



Calculating implied default rates: 1 – Solve for the spread that would equalise the implied default rate with the average realised default rate, per the formula in Step Four. 2 – Find the average spread the segment has traded at through history. 3 – Take the answer from (1) and divide it by that for (2) to calculate the % of the spread which is compensating for 'Default' risk. Assume 'Downgrade' risk is the remainder. 4 – Calculate annual implied default rate as 'Default' spread / (1 – recovery rate). To get the cumulative we do 1 – e ^ (- annual implied default rate * index maturity). We then scale this to 5 years **VALUATION**

Positioning

In general, we view very light positioning as indicative of overly fearful sentiment and a buying opportunity. And vice versa. We view light positioning where flows are starting to turn up as particularly propitious and, again, the opposite is also the case

EPFR Country Equity Flows (Blue = 12MMA | Yellow = Monthly)



EPFR Fixed Income Flows (Blue = 12MMA | Yellow = Monthly)



CFTC (Net Non-Commercial As % Open Interest)



Other Positioning Indicators

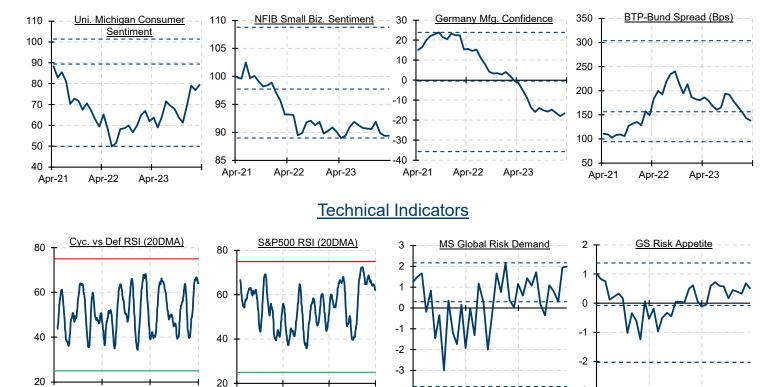


Sources: EPFR, CFTC, Bloomberg. Agg Other External Gauges combines BAML Bull & Bear and BAML Fund Manager survey (with kind permission) with the Morgan Stanley prime brokerage data

Sentiment

Various measures for getting a view on market sentiment

Surveys and Sovereign Spreads



Implied Vol. and More Surveys

Apr-21

Apr-22

Apr-23

-3

Apr-21

Apr-22

Apr-23



12M Fwd. GDP Expectation



Sources: Bloomberg. Germany manufacturing confidence as measured by the EU Commission. Japan Consumer Confidence uses an index from the Economic and Social Research Institute of Japan. China Consumer Confidence comes from the Chinese National Bureau of Statistics. Where only 2 dashed lines can be seen the MIN is cut off for sake of legibility

Apr-21

Apr-22

Apr-23

Apr-21

Apr-22

Apr-23

Performance Summary



	Manak 0004		D. (5 (9/ . l)		
	March 2024		Performance (% chg) YTD 1Y 3Y		
	Perf. (% chg)	Z score EQUITY	YTD	1Y	31
Geography (Local FX)		LQUITI	T T		
DM	3.4	0.6	9	25	28
EM	3.0	0.8	5	11	-7
US	3.1	0.4	9	29	28
UK	4.6	1.3	4	7	32
Europe (ex-UK)	4.4	0.9	9	15	23
Japan ,	3.0	0.6	9	26	8
Style (Long/Short)					
Value	1.6	0.3	-2	5	28
Growth	-3.9	-1.0	-3	-5	-18
Mom.	3.7	0.3	35	47	100
(Large) Size	2.0	0.5	6	18	27
Risk	0.6	0.2	2	5	-6
Quality	1.3	0.0	6	9	42
Cyc. vs Def.	1.8	0.6	2	10	8
Sector (US - S&P 500)					
Energy	10.6	1.0	17	17	130
Materials	6.5	0.9	9	18	23
Industrials	4.4	0.6	10	29	29
Cons. Disc.	0.1	-0.1	4	31	7
Cons. Staples	3.4	0.7	4	2	18
Health Care	2.4	0.4	5	9	27
Financials	4.7	0.7	11	32	24
Tech Comm. Services	2.0	0.0	11	46	54
Utilities	4.3	0.6 1.2	19	51 -3	19 11
Real Estate	6.6 1.8	0.2	4 -3	-3 8	6
Treal Estate	1.0	FIXED INCOME	-3	0	0
DM Govvies	0.3	0.3	-4	-3	-19
EMD Ext.	1.9	0.7	1	9	-19 -5
EMD Loc.	0.0	0.0	-2	6	-6
USD IG	1.3	0.5	-2 -2	3	-0 -7
USD HY	1.2	0.3	1	11	
TIPS					6
Converts	0.8	0.4	-1 1	-1 11	-3 -7
Converts	2.3	0.6	l	II	-/
BBUXALC	2.0	COMMODS	7	4	OF.
	3.0	0.4	7	-1	25
Oil (Brent) \$91 per barrel	4.6	0.4	18	8	44
Nat. Gas \$1.86 per MMBtu	-5.2	-0.3	-26	-14	-26
Copper \$4.28 per lb	4.5	0.9	10	7	6
Gold \$2,355 per t oz	7.9	1.8	14	18	35
Wheat \$5.57 per bushel	-3.0	-0.3	-11	-18	-13
Sugar \$0.22 per lb	-0.3	-0.2	5	-9	39
Lean Hogs \$0.90 per lb	0.0	0.0	32	22	-13
D)0/	0.0	FX			40
DXY	0.3	0.0	3	2	13
EMFX	-0.4	0.1	-3	-7	-17
	0.0	0.1	-1	2	-8
GBP 1.27 (\$ per £)	-0.9	0.0	-7	-12	-28
JPY 152 (JPY per \$)				0	^
JPY 152 (JPY per \$) EUR 1.09 (\$ per £)	-0.1	0.1	-2		-9
JPY 152 (JPY per \$) EUR 1.09 (\$ per £) AUD 1.51 (AUD per \$)	0.4	0.3	-3	-1	-13
JPY 152 (JPY per \$) EUR 1.09 (\$ per £)		0.3 0.6			
JPY 152 (JPY per \$) EUR 1.09 (\$ per £) AUD 1.51 (AUD per \$) Bitcoin 70,192 (\$ per XBT)	0.4 15.3	0.3 0.6 OTHER	-3 65	-1 141	-13 20
JPY 152 (JPY per \$) EUR 1.09 (\$ per £) AUD 1.51 (AUD per \$)	0.4	0.3 0.6	-3	-1	-13

Biographies



Henry NevillePortfolio Manager

Henry Neville is portfolio manager within Man Group's multi-asset offering. Henry joined Man Group in 2016. Prior to this, he completed the graduate program at Hoares Bank. Henry studied History and Economics at St. Andrew's University. He is also a CFA charterholder.

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