



Weekly Market View

The heat is on

→ Markets this week were unsettled by yet another hot US inflation report. The S&P500 index is testing a major support at 3,900 and the US 10-year government bond yield is testing key resistance at 3.5%.

→ We believe the US inflation report has cemented the chance of a third straight 75 bps Fed rate hike next week. Money markets now expect the Fed's benchmark rate to peak at 4.5% next March vs. 3.6% projected a month ago.

→ European governments, led by the UK, have added fuel to the medium-term inflation outlook by providing fiscal support to offset the impact of rising energy costs. This is likely to raise ECB and BoE terminal interest rates.

→ In this report, we discuss how investors can mitigate downside risks and even benefit from these trends.

What is your view on US equities after the inflation report?

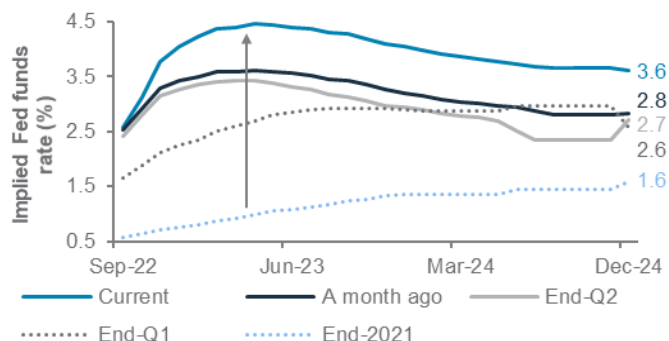
What is your rationale for upgrading Developed Market Investment Grade bonds?

What is your outlook for the USD and how should investors position themselves?

Charts of the week: Inflation continues to unsettle markets

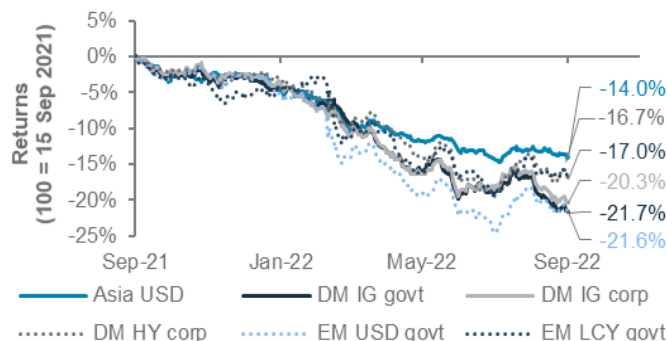
The expected Fed terminal rate has surged, hurting risk assets; Asia USD bonds have held up better than other bonds

Money market estimates of Fed rates over the next two years



Source: Bloomberg, Standard Chartered

One-year relative performance of major bond asset classes



Editorial

The heat is on

Markets this week were again unsettled by yet another hot US inflation report. The S&P500 index is testing a major support at 3,900 (next support 3,700) and the US 10-year government bond yield is testing resistance at 3.5% (followed by 3.68%). Stocks and bonds both fell after US headline and core inflation in August beat estimates to stay near 40-year highs, dousing hopes that slowing inflation would enable the Fed to slow the pace of rate hikes. Instead, we believe the inflation report has cemented the chance of a third straight 75 bps Fed rate hike next week. Money markets now expect the Fed's benchmark rate to peak at 4.5% next March vs. 3.6% projected a month ago. That implies the Fed is expected to hike by almost the same extent over the next six months as it did over the past six.

European governments have added fuel to the medium-term inflation outlook by providing fiscal support to offset the impact of rising energy costs. UK PM Liz Truss's first economic decision after taking charge last week was to cap household energy bills for the next two years at an estimated cost of GBP 150-200bn. The European Union is likely to follow suit. While these plans should curtail near-term inflation in Europe, they are likely to boost household disposable income and, in turn, keep medium-term inflation pressures elevated. This raises the chances of higher BoE and ECB terminal policy rates. Thus, next week's BoE meeting (where it is expected to raise rates by 75bps) will be closely watched. Money markets are pricing a peak BoE rate of 4.5% by June 2022 vs. 3.25% a month ago.

As highlighted here in recent weeks, the increasingly hawkish policy stance of the Fed, ECB and BoE and tighter financial conditions have increased the odds of a recession. We agree with the consensus that the Euro area faces a higher risk of a recession than the US (the consensus expects the Euro area to start contracting from Q4). Business confidence indicators (PMIs) for September, due next week, will thus be scrutinised for signs of further weakness after they signalled stagnation in Euro area activity in July and August. The deteriorating outlook is a key headwind for risk assets.

For investors, we believe the answer is not to cut all exposure (cementing YTD "paper losses") and run to the supposed "safety" of cash, since such a move will hurt long-term wealth accumulation as high inflation erodes the purchasing power of cash. Instead, we believe investors will be better served by de-risking towards a more balanced allocation (adding exposure to higher quality bonds and other income assets such as high dividend equities which outperform in high-inflation periods) and focussing on some of the least expensive equity markets. In our view, Asia USD bonds - an overwhelmingly Investment Grade bond category yielding over 6%, but with lower volatility than other bonds - and historically inexpensive Asia ex-Japan and UK equities offer such qualities. Asian assets should also benefit from China's economic recovery (see page 3). Earlier this month, we also upgraded Developed Market Investment Grade bonds to a core holding - the bonds offer 4.8% yield, the highest in a decade. The attractive yield premiums should cushion against rising government bond yields (see page 4).

Maintaining a diversified allocation has the advantage of benefitting from any upturn in risk assets. A possible upside could come from any cessation of hostilities in Ukraine, after Ukraine troops regained control of key cities from the Russian army. In this scenario, which seemed a pipedream just a couple of weeks ago, energy prices could plunge, lowering inflation and enabling central banks to turn dovish. Risk assets, led by the EUR and European assets, could surge in this scenario. This would bring an end to the USD rally. EUR/USD needs to break above 1.0350 to suggest the USD rally is fizzling.

The downside risk scenario entails Russia launching an air attack on Ukraine, having withdrawn its on-the-ground troops. If this is accompanied by a Russian halt in oil and gas supplies, it could reignite H1's market trends i.e. bearish for both stocks and bonds, bullish for energy assets and the USD. EUR/USD could then fall below key support of 0.9850. For now, we expect EUR/USD and the broad USD to be range-bound and instead favour a bullish EUR/GBP view in the near term (see page 5).

— Rajat Bhattacharya

The weekly macro balance sheet

Our weekly net assessment: On balance, we see the past week's data and policy as neutral for risk assets in the near term.

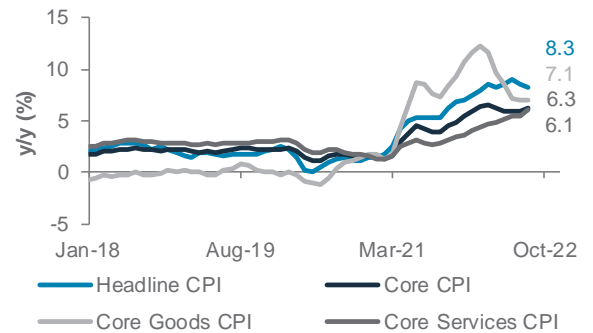
(+) factors: China data and policy support, contained China inflation

(-) factors: Hotter-than-expected US consumer inflation, weak Euro area growth expectations

	Positive for risk assets	Negative for risk assets
COVID-19	<ul style="list-style-type: none"> Chengdu allowed residents to leave their homes; slight easing of Xinjiang lockdown Hong Kong further eased its travel policy 	<ul style="list-style-type: none"> Some areas in Beijing have been locked down
	Our assessment: Positive – Easing China lockdowns	
Macro data	<ul style="list-style-type: none"> China retail sales, industrial output beat estimates; consumer/producer inflation lower than expected US retail sales unexpectedly rose US producer inflation rose less than expected UK unemployment fell to the lowest since 1974 UK consumer inflation softer than expected 	<ul style="list-style-type: none"> US consumer inflation hotter than expected UK July GDP missed consensus Euro area growth expectations (ZEW) fell below forecast
	Our assessment: Neutral – Improving China retail sales and industrial output, contained inflation vs hot US inflation	
Policy developments	<ul style="list-style-type: none"> China authorities eased crackdown on gaming BoJ checked exchange rates, which is usually a precursor to FX intervention BoJ committed more bond purchases to cap yields 	<ul style="list-style-type: none"> More hawkish commentary from Fed officials IEA sees biggest China oil demand drop in three decades China held medium-term lending facility rate constant
	Our assessment: Neutral – China, BoJ policy support vs hawkish Fed comments	
Other developments	<ul style="list-style-type: none"> Ukraine forces regained control of more eastern and southern cities President Xi made his first overseas trip in almost three years to Kazakhstan 	<ul style="list-style-type: none"> Reports of US considering sanctions against China to prevent a Taiwan invasion
	Our assessment: Neutral – Ukraine army advances vs West-China tensions escalating	

US headline and core inflation continued to beat expectations

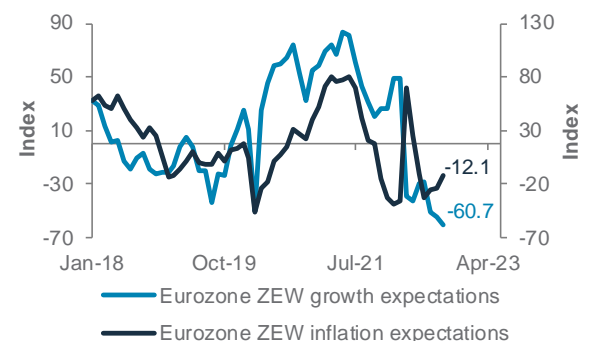
US headline, core, goods and services inflation



Source: Bloomberg; Standard Chartered

Euro area growth expectations continued to decline, while inflation expectations rose again

Euro area ZEW Survey expectations of growth and inflation



Source: Bloomberg, Standard Chartered

China's economy showed signs of recovery in August, with retail sales and industrial production beating estimates

China retail sales, industrial production and fixed asset investment



Source: Bloomberg, Standard Chartered

Top client questions

Q What is your view on US equities after the latest inflation surprise?

The higher-than-expected US inflation print has re-emphasised the “higher-for-longer inflation” narrative. It is likely to put US equities under short-term pressure, especially the growth-heavy Nasdaq-100 index because higher yields hurt high P/E stocks more. US stock indices have also been making “lower highs” and “lower lows”, a technically bearish pattern. The Nasdaq-100 has broken below support at the 12,100 level, which may lead to 11,700 and the June 2022 low of around 11,100. The S&P500 index is hanging just above support at 3,900 and may test 3,700 should price action worsen.

We believe it is critical for investors to maintain a good balance between 1) income and 2) growth, getting paid while awaiting a recovery. Investors should consider global high dividend equities which, as a historical analysis shows, offered annualised returns of 3.6% (vs -2.1% for global equities) during periods when US CPI was higher than 3% and a higher probability of a positive return. We also believe investors should maintain a balanced portfolio, with exposure to high grade bonds (see below).

— **Daniel Lam**, Head, Equity Strategy

Q What is your rationale for upgrading DM IG bonds and downgrading DM HY bonds?

In our Global Market Outlook published earlier this month, we upgraded DM IG bonds to a Core Holding (from less preferred) and downgraded DM HY bonds to a Core Holding (from preferred), leaving us with a balanced view between the two.

First, we believe the surge in yields has created an attractive entry point for high quality bonds. DM IG corporate bonds now offer about a 4.8% yield, having risen to levels last seen almost 10 years ago, making them much more attractive than in the zero/low-yield world of the past decade. While a similar argument arguably applies to DM HY bonds, we nevertheless decided to trim our view here because of the risks posed by rising chances of a US/European recession, though relatively stable credit fundamentals hold us back from downgrading them further.

Second, we believe the summer rebound in risky assets created a window of opportunity to make the switch from HY to IG bonds. Third, from a valuation perspective, the HY/IG spread multiple has returned to its post-2008 average, consistent with a balanced stance between the two classes of bonds. Fourth, although DM IG bonds have a relatively high sensitivity to interest rate changes, we believe the sharpest moves in bond yields are now likely behind us. Technical charts for the 10-year US gov't bond yield suggest 3.5% could be a tougher resistance to break. Fifth, a greater allocation to DM IG bonds should help limit downside risks in a scenario wherein risk assets sell off.

— **Cedric Lam**, Senior Investment Strategist

The S&P 500 index is testing key support at 3,900. The next support is at 3,700

S&P 500 index



Source: Bloomberg, Standard Chartered

Current relative valuation supports a balanced stance between DM IG and HY corporate bonds

Ratio between DM HY and DM IG yield premiums



Source: Bloomberg Standard Chartered

Top client questions (cont'd)

What is your preferred maturity exposure to bonds if Fed funds rate peaks above 4.0%?

After the release of the US August CPI data on Monday, the market-implied peak Fed funds rate moved higher towards 4.5% in early 2023. While this tends to have a more direct link to short maturity bond yields, longer-term bond yields tend to be driven by several additional factors. One key factor is growth expectations, specifically worries that Fed tightening significantly worsens the growth outlook to the point where Fed policies turn less hawkish in the future. Additionally, an inflation peak in H2 2022 against the backdrop of easing supply chain disruption could support expectations the Fed ends up with more room to support growth.

Given these trade-offs and the absence of a significant gap between short- and long-maturity bond yields, we believe a neutral duration stance (about 5-7 years) offers the most attractive risk and return trade-off.

— Cedric Lam, Senior Investment Strategist

What are the latest views on the USD, and how should investors position themselves?

We believe that the USD index (DXY) is likely to trade range-bound in the near term ahead of the Fed FOMC decision next week. After the release of the US CPI data, the DXY bounced from 107.70 to 110.00 on concerns about a more hawkish Fed, but remained under the previous intraday high of 110.78, which indicates that the uptrend is likely contained for now. Key levels to watch are resistance at 111.30 and support at 107.70 (50-DMA).

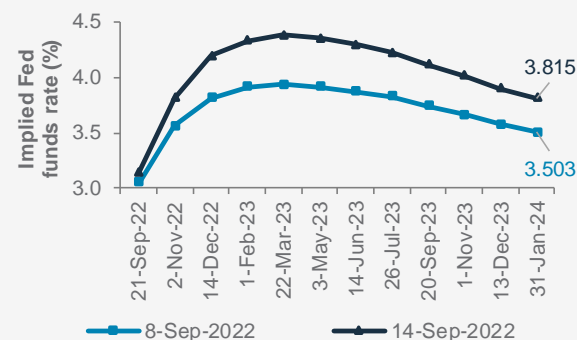
Within this context, EUR/USD is likely to trade within 1.035-0.9850, with a bearish bias, unless it breaks above 1.0350. USD/JPY faced some respite as the BoJ signalled it was considering an intervention, though this is unlikely for now, in our view, given the historical track record of unilateral interventions being ineffective in sustainably reversing major trends. USD/JPY is eyeing initial resistance at 145.0, followed by 147.8; a break above could target 151.5 next.

A cross-currency play which we favour in the short term is a bullish EUR/GBP. The UK is suffering from worsening terms of trade, energy shortage, extremely high inflation and uncertainty around its new fiscal policy, suggesting that the GBP is likely to underperform.

— Nataniel Tang, Investment Strategist

More aggressive rate hike expectations after the latest US CPI release

Money market implied Fed Fund Rates



Source: Bloomberg, Standard Chartered

The USD (DXY) index has been underpinned by a hawkish Fed narrative and rising US government bond yields

DXY index vs 2y US government bonds yields



Source: Bloomberg, Standard Chartered

Top client questions (cont'd)

Q What explains crude oil's strong bounce this week and what is the outlook?

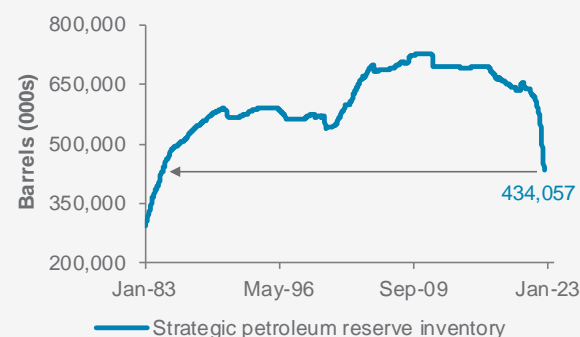
Crude oil gained, driving energy sector equities higher, after reports that the White House is considering a refill of its strategic petroleum reserve (SPR) should prices pull back to around USD 80/bbl. The release of 180m barrels from strategic reserves in recent months has resulted in the reserve falling to the lowest level since 1984. A likely secondary driver of higher prices was the prospect of a US rail union strike, which will stop trains – a major delivery carrier of crude and refined products – across the US. The strike has seen been averted after an agreement between rail companies and labour unions following the intervention of President Biden. Oil markets also shrugged off a cut in the IEA's demand forecast.

The refill of US strategic oil reserve is likely to alleviate some of the downside pressure on oil prices from slowing demand. It also means that the likelihood of an extension of the SPR release ending this October is low. The demand is expected to pick up as China comes out from its renewed lockdowns. Therefore, we see USD 80 being a key support level in the near term. Elevated oil prices are also positive for energy sector equities, with investors gaining confidence that earnings and dividend plans are well supported. We continue to prefer the energy equity sector in the US, Europe and China.

— **Zhong Liang Han**, *Investment Strategist*

The release of US strategic petroleum reserves since March has resulted in reserves falling to a 38-year low

US strategic petroleum reserve, total inventory

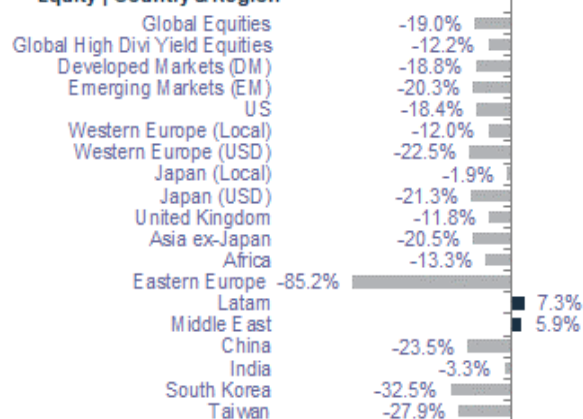


Source: Bloomberg, Standard Chartered

Market performance summary *

2022 YTD

Equity | Country & Region



Equity | Sector



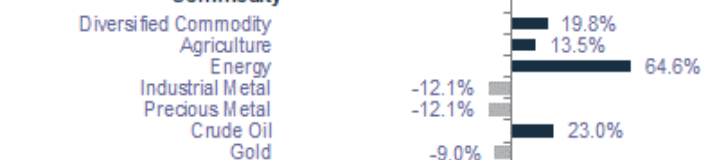
Bonds | Sovereign



Bonds | Credit



Commodity



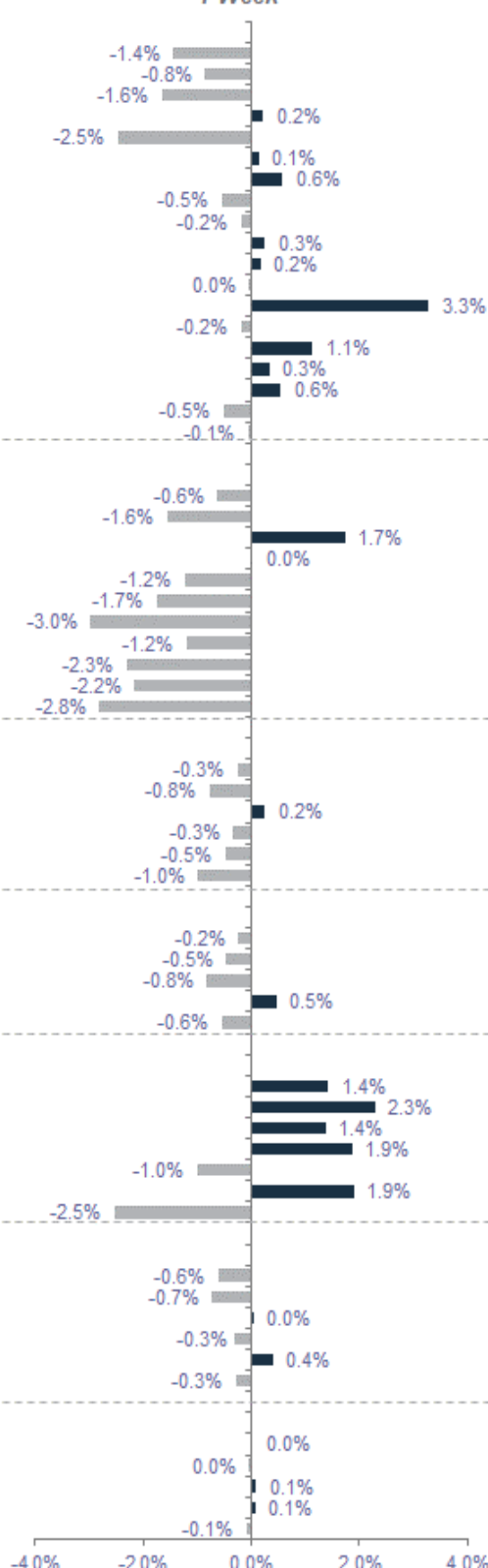
FX (against USD)



Alternatives



1 Week



Sources: MSCI, JP Morgan, Barclays Capital, Citigroup, Dow Jones, HFRX, FTSE, Bloomberg, Standard Chartered

*Performance in USD terms unless otherwise stated, 2022 YTD performance from 31 December 2021 to 15 September 2022; 1-week period: 08 September 2022 to 15 September 2022

Our 12-month asset class views at a glance

Asset class	
Equities ◆	Alternatives ◆
Euro area ▼	Equity hedge ◆
US ◆	Event-driven ▼
UK ▲	Relative value ▼
Asia ex-Japan ▲	Global macro ▲
Japan ◆	
Other EM ◆	Cash ◆
	USD ▼
Bonds (Credit) ◆	EUR ▲
Asia USD ▲	GBP ◆
Corp DM HY ◆	CNY ◆
Govt EM USD ◆	JPY ◆
Corp DM IG ◆	AUD ▲
	NZD ▲
Bonds (Govt) ◆	CAD ▲
Govt EM Local ◆	
Govt DM IG ◆	Gold ▲

Source: Standard Chartered Global Investment Committee

Legend: ▲ Most preferred | ▼ Less preferred | ◆ Core holding

Next resistance for the US 10-year bond yield is at 3.49%

Technical indicators for key markets as on 15 September

Index	Spot	1st support	1st resistance
S&P 500	3,901	3,832	4,041
STOXX 50	3,542	3,507	3,612
FTSE 100	7,282	7,215	7,411
Nikkei 225	27,876	27,591	28,387
Shanghai Comp	3,200	3,179	3,243
Hang Seng	18,930	18,731	19,246
MSCI Asia ex-Japan	615	610	625
MSCI EM	959	951	973
Brent (ICE)	90.8	89.8	93.0
Gold	1,663	1,643	1,704
UST 10y Yield	3.44	3.35	3.49

Source: Bloomberg, Standard Chartered

Note: These short-term technical levels are based on models and may differ from a more qualitative analysis provided in other pages

Economic and market calendar

	Event	Next week	Period	Expected	Prior
TUE MON					
TUE	US	Housing Starts	Aug	1468k	1446k
WED					
THUR	US	FOMC Rate Decision (Upper Bound)	21-Sep-22	3.3%	2.5%
	UK	Bank of England Bank Rate	22-Sep-22	2.3%	1.8%
	US	Leading Index	Aug	0	-0.004
	EC	Consumer Confidence	Sep P	-	-24.9
FR/SAT	EC	S&P Global Eurozone Manufacturing PMI	Sep P	-	49.6
	EC	S&P Global Eurozone Services PMI	Sep P	-	49.8
	EC	S&P Global Eurozone Composite PMI	Sep P	-	48.9
	UK	S&P Global/CIPS UK Manufacturing PMI	Sep P	-	47.3
	UK	S&P Global/CIPS UK Services PMI	Sep P	-	50.9
	UK	S&P Global/CIPS UK Composite PMI	Sep P	-	49.6
	US	S&P Global US Manufacturing PMI	Sep P	-	51.5
	US	S&P Global US Services PMI	Sep P	-	43.7
	US	S&P Global US Composite PMI	Sep P	-	44.6
	EC	Italian General Election			

Source: Bloomberg, Standard Chartered

Prior data are for the preceding period unless otherwise indicated. Data are % change on previous period unless otherwise indicated

P - preliminary data, F - final data, sa - seasonally adjusted, y/y - year-on-year, m/m - month-on-month

Investor diversity remains reasonably high across assets

Our proprietary market diversity indicators as of 15 September

Level 1	Diversity	1-month trend	Fractal dimension
Global Bonds	●	→	1.67
Global Equities	●	↑	1.87
Gold	●	→	1.35
Equity			
MSCI US	●	→	1.65
MSCI Europe	●	→	1.74
MSCI AC AXJ	●	→	1.48
Fixed Income			
DM Corp Bond	●	↓	1.90
DM High Yield	●	↑	2.40
EM USD	●	↑	2.29
EM Local	●	↑	2.29
Asia USD	●	↑	1.84
Commodities			
WTI Crude Oil	●	→	1.42

Source: Bloomberg, Standard Chartered; **Fractal dimensions below 1.25 indicate extremely low market diversity/high risk of a reversal**

Legend: ● High | ● Low to mid | ○ Critically low

Disclosures

This document is confidential and may also be privileged. If you are not the intended recipient, please destroy all copies and notify the sender immediately. This document is being distributed for general information only and is subject to the relevant disclaimers available at our Standard Chartered website under Regulatory disclosures. It is not and does not constitute research material, independent research, an offer, recommendation or solicitation to enter into any transaction or adopt any hedging, trading or investment strategy, in relation to any securities or other financial instruments. This document is for general evaluation only. It does not take into account the specific investment objectives, financial situation or particular needs of any particular person or class of persons and it has not been prepared for any particular person or class of persons. You should not rely on any contents of this document in making any investment decisions. Before making any investment, you should carefully read the relevant offering documents and seek independent legal, tax and regulatory advice. In particular, we recommend you to seek advice regarding the suitability of the investment product, taking into account your specific investment objectives, financial situation or particular needs, before you make a commitment to purchase the investment product. Opinions, projections and estimates are solely those of SCB at the date of this document and subject to change without notice. Past performance is not indicative of future results and no representation or warranty is made regarding future performance. Any forecast contained herein as to likely future movements in rates or prices or likely future events or occurrences constitutes an opinion only and is not indicative of actual future movements in rates or prices or actual future events or occurrences (as the case may be). This document must not be forwarded or otherwise made available to any other person without the express written consent of the Standard Chartered Group (as defined below). Standard Chartered Bank is incorporated in England with limited liability by Royal Charter 1853 Reference Number ZC18. The Principal Office of the Company is situated in England at 1 Basinghall Avenue, London, EC2V 5DD. Standard Chartered Bank is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and Prudential Regulation Authority. Standard Chartered PLC, the ultimate parent company of Standard Chartered Bank, together with its subsidiaries and affiliates (including each branch or representative office), form the Standard Chartered Group. Standard Chartered Private Bank is the private banking division of Standard Chartered. Private banking activities may be carried out internationally by different legal entities and affiliates within the Standard Chartered Group (each an "SC Group Entity") according to local regulatory requirements. Not all products and services are provided by all branches, subsidiaries and affiliates within the Standard Chartered Group. Some of the SC Group Entities only act as representatives of Standard Chartered Private Bank and may not be able to offer products and services or offer advice to clients. ESG data has been provided by Sustainalytics. Please refer to the Sustainalytics website under ESG Risk Ratings for more information.

Copyright © 2022, Accounting Research & Analytics, LLC d/b/a CFRA (and its affiliates, as applicable). Reproduction of content provided by CFRA in any form is prohibited except with the prior written permission of CFRA. CFRA content is not investment advice and a reference to or observation concerning a security or investment provided in the CFRA SERVICES is not a recommendation to buy, sell or hold such investment or security or make any other investment decisions. The CFRA content contains opinions of CFRA based upon publicly-available information that CFRA believes to be reliable and the opinions are subject to change without notice. This analysis has not been submitted to, nor received approval from, the United States Securities and Exchange Commission or any other regulatory body. While CFRA exercised due care in compiling this analysis, CFRA, ITS THIRD-PARTY SUPPLIERS, AND ALL RELATED ENTITIES SPECIFICALLY DISCLAIM ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, to the full extent permitted by law, regarding the accuracy, completeness, or usefulness of this information and assumes no liability with respect to the consequences of relying on this information for investment or other purposes. No content provided by CFRA (including ratings, credit-related analyses and data, valuations, model, software or other application or output therefrom) or any part thereof may be modified, reverse engineered, reproduced or distributed in any form by any means, or stored in a database or retrieval system, without the prior written permission of CFRA, and such content shall not be used for any unlawful or unauthorized purposes. CFRA and any third-party providers, as well as their directors, officers, shareholders, employees or agents do not guarantee the accuracy, completeness, timeliness or availability of such content. In no event shall CFRA, its affiliates, or their third-party suppliers be liable for any direct, indirect, special, or consequential damages, costs, expenses, legal fees, or losses (including lost income or lost profit and opportunity costs) in connection with a subscriber's, subscriber's customer's, or other's use of CFRA's content.

Market Abuse Regulation (MAR) Disclaimer

Banking activities may be carried out internationally by different branches, subsidiaries and affiliates within the Standard Chartered Group according to local regulatory requirements. Opinions may contain outright "buy", "sell", "hold" or other opinions. The time horizon of this opinion is dependent on prevailing market conditions and there is no planned frequency for updates to the opinion. This opinion is not independent of Standard Chartered Group's trading strategies or positions. Standard Chartered Group and/or its

affiliates or its respective officers, directors, employee benefit programmes or employees, including persons involved in the preparation or issuance of this document may at any time, to the extent permitted by applicable law and/or regulation, be long or short any securities or financial instruments referred to in this document or have material interest in any such securities or related investments. Therefore, it is possible, and you should assume, that Standard Chartered Group has a material interest in one or more of the financial instruments mentioned herein. Please refer to our Standard Chartered website under Regulatory disclosures for more detailed disclosures, including past opinions/ recommendations in the last 12 months and conflict of interests, as well as disclaimers. A covering strategist may have a financial interest in the debt or equity securities of this company/issuer. This document must not be forwarded or otherwise made available to any other person without the express written consent of Standard Chartered Group.

Country/Market Specific Disclosures

Botswana: This document is being distributed in Botswana by, and is attributable to, Standard Chartered Bank Botswana Limited which is a financial institution licensed under the Section 6 of the Banking Act CAP 46:04 and is listed in the Botswana Stock Exchange. **Brunei Darussalam:** This document is being distributed in Brunei Darussalam by, and is attributable to, Standard Chartered Bank (Brunei Branch) | Registration Number RFC/61 and Standard Chartered Securities (B) Sdn Bhd | Registration Number RC20001003. Standard Chartered Bank is incorporated in England with limited liability by Royal Charter 1853 Reference Number ZC18 and Standard Chartered Securities (B) Sdn Bhd is a limited liability company registered with the Registry of Companies, licensed by Brunei Darussalam Central Bank as a Capital Markets Service License Holder with License Number BDCB/R/ CMU/S3-CL and authorised to conduct Islamic investment business through an Islamic window. **China Mainland:** This document is being distributed in China by, and is attributable to, Standard Chartered Bank (China) Limited which is mainly regulated by China Banking and Insurance Regulatory Commission (CBIRC), State Administration of Foreign Exchange (SAFE), and People's Bank of China (PBOC). **Hong Kong:** In Hong Kong, this document, except for any portion advising on or facilitating any decision on futures contracts trading, is distributed by Standard Chartered Bank (Hong Kong) Limited ("SCBHK"), a subsidiary of Standard Chartered PLC. SCBHK has its registered address at 32/F, Standard Chartered Bank Building, 4-4A Des Voeux Road Central, Hong Kong and is regulated by the Hong Kong Monetary Authority and registered with the Securities and Futures Commission ("SFC") to carry on Type 1 (dealing in securities), Type 4 (advising on securities), Type 6 (advising on corporate finance) and Type 9 (asset management) regulated activity under the Securities and Futures Ordinance (Cap. 571) ("SFO") (CE No. AJ1614). The contents of this document have not been reviewed by any regulatory authority in Hong Kong and you are advised to exercise caution in relation to any offer set out herein. If you are in doubt about any of the contents of this document, you should obtain independent professional advice. Any product named herein may not be offered or sold in Hong Kong by means of any document at any time other than to "professional investors" as defined in the SFO and any rules made under that ordinance. In addition, this document may not be issued or possessed for the purposes of issue, whether in Hong Kong or elsewhere, and any interests may not be disposed of, to any person unless such person is outside Hong Kong or is a "professional investor" as defined in the SFO and any rules made under that ordinance, or as otherwise may be permitted by that ordinance. In Hong Kong, Standard Chartered Private Bank is the private banking division of Standard Chartered Bank (Hong Kong) Limited. **Ghana:** Standard Chartered Bank Ghana PLC accepts no liability and will not be liable for any loss or damage arising directly or indirectly (including special, incidental or consequential loss or damage) from your use of these documents. Past performance is not indicative of future results and no representation or warranty is made regarding future performance. You should seek advice from a financial adviser on the suitability of an investment for you, taking into account these factors before making a commitment to invest in an investment. To unsubscribe from receiving further updates, please send an email to feedback . ghana @ sc . com. Please do not reply to this email. Call our Priority Banking on 0302610750 for any questions or service queries. You are advised not to send any confidential and/or important information to the Bank via e-mail, as the Bank makes no representations or warranties as to the security or accuracy of any information transmitted via e-mail. The Bank shall not be responsible for any loss or damage suffered by you arising from your decision to use e-mail to communicate with the Bank. **India:** This document is being distributed in India by Standard Chartered Bank in its capacity as a distributor of mutual funds and referrer of any other third-party financial products. Standard Chartered Bank does not offer any 'Investment Advice' as defined in the Securities and Exchange Board of India (Investment Advisers) Regulations, 2013 or otherwise. Services/products related securities business offered by Standard Chartered Bank are not intended for any person, who is a resident of any jurisdiction, the laws of which imposes prohibition on soliciting the securities business in that jurisdiction without going through the registration requirements and/or prohibit the use of any information contained in this document. **Indonesia:** This document is being distributed in Indonesia by Standard Chartered Bank, Indonesia branch, which is a financial institution licensed, registered and supervised by Otoritas Jasa Keuangan (Financial Service Authority). **Jersey:** The Jersey Branch of Standard Chartered Bank is regulated by the Jersey Financial Services Commission. Copies of the latest audited accounts of Standard Chartered Bank are available from its principal place of business in Jersey: PO Box 80, 15 Castle Street, St Helier, Jersey JE4 8PT. Standard Chartered Bank is incorporated in England with limited liability by Royal Charter in 1853 Reference Number ZC 18. The Principal Office of the Company is situated in England at 1 Basinghall

Avenue, London, EC2V 5DD. Standard Chartered Bank is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and Prudential Regulation Authority. The Jersey Branch of Standard Chartered Bank is also an authorised financial services provider under license number 44946 issued by the Financial Sector Conduct Authority of the Republic of South Africa. Jersey is not part of the United Kingdom and all business transacted with Standard Chartered Bank, Jersey Branch and other SC Group Entity outside of the United Kingdom, are not subject to some or any of the investor protection and compensation schemes available under United Kingdom law. **Kenya:** This document is being distributed in Kenya by, and is attributable to Standard Chartered Bank Kenya Limited. Investment Products and Services are distributed by Standard Chartered Investment Services Limited, a wholly owned subsidiary of Standard Chartered Bank Kenya Limited (Standard Chartered Bank/the Bank) that is licensed by the Capital Markets Authority as a Fund Manager. Standard Chartered Bank Kenya Limited is regulated by the Central Bank of Kenya. **Malaysia:** This document is being distributed in Malaysia by Standard Chartered Bank Malaysia Berhad. Recipients in Malaysia should contact Standard Chartered Bank Malaysia Berhad in relation to any matters arising from, or in connection with, this document. **Nigeria:** This document is being distributed in Nigeria by Standard Chartered Bank Nigeria Limited ("the Bank"), a bank duly licensed and regulated by the Central Bank of Nigeria. The Bank accepts no liability for any loss or damage arising directly or indirectly (including special, incidental or consequential loss or damage) from your use of these documents. You should seek advice from a financial adviser on the suitability of an investment for you, taking into account these factors before making a commitment to invest in an investment. To unsubscribe from receiving further updates, please send an email to clientcare.ng@sc.com requesting to be removed from our mailing list. Please do not reply to this email. Call our Priority Banking on 01-2772514 for any questions or service queries. The Bank shall not be responsible for any loss or damage arising from your decision to send confidential and/or important information to the Bank via e-mail, as the Bank makes no representations or warranties as to the security or accuracy of any information transmitted via e-mail. **Pakistan:** This document is being distributed in Pakistan by, and attributable to Standard Chartered Bank (Pakistan) Limited having its registered office at PO Box 5556, I.I Chundrigar Road Karachi, which is a banking company registered with State Bank of Pakistan under Banking Companies Ordinance 1962 and is also having license issued by Securities & Exchange Commission of Pakistan for Security Advisors. Standard Chartered Bank (Pakistan) Limited acts as a distributor of mutual funds and referrer of other third-party financial products. **Singapore:** This document is being distributed in Singapore by, and is attributable to, Standard Chartered Bank (Singapore) Limited (Registration No. 201224747C/ GST Group Registration No. MR-8500053-0, "SCBSL"). Recipients in Singapore should contact SCBSL in relation to any matters arising from, or in connection with, this document. SCBSL is an indirect wholly owned subsidiary of Standard Chartered Bank and is licensed to conduct banking business in Singapore under the Singapore Banking Act, Chapter 19. Standard Chartered Private Bank is the private banking division of SCBSL. IN RELATION TO ANY SECURITY OR SECURITIES-BASED DERIVATIVES CONTRACT REFERRED TO IN THIS DOCUMENT, THIS DOCUMENT, TOGETHER WITH THE ISSUER DOCUMENTATION, SHALL BE DEEMED AN INFORMATION MEMORANDUM (AS DEFINED IN SECTION 275 OF THE SECURITIES AND FUTURES ACT, CHAPTER 289 ("SFA")). THIS DOCUMENT IS INTENDED FOR DISTRIBUTION TO ACCREDITED INVESTORS, AS DEFINED IN SECTION 4A(1)(a) OF THE SFA, OR ON THE BASIS THAT THE SECURITY OR SECURITIES-BASED DERIVATIVES CONTRACT MAY ONLY BE ACQUIRED AT A CONSIDERATION OF NOT LESS THAN S\$200,000 (OR ITS EQUIVALENT IN A FOREIGN CURRENCY) FOR EACH TRANSACTION. Further, in relation to any security or securities-based derivatives contract, neither this document nor the Issuer Documentation has been registered as a prospectus with the Monetary Authority of Singapore under the SFA. Accordingly, this document and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of the product may not be circulated or distributed, nor may the product be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons other than a relevant person pursuant to section 275(1) of the SFA, or any person pursuant to section 275(1A) of the SFA, and in accordance with the conditions specified in section 275 of the SFA, or pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA. In relation to any collective investment schemes referred to in this document, this document is for general information purposes only and is not an offering document or prospectus (as defined in the SFA). This document is not, nor is it intended to be (i) an offer or solicitation of an offer to buy or sell any capital markets product; or (ii) an advertisement of an offer or intended offer of any capital markets product. Deposit Insurance Scheme: Singapore dollar deposits of non-bank depositors are insured by the Singapore Deposit Insurance Corporation, for up to S\$75,000 in aggregate per depositor per Scheme member by law. Foreign currency deposits, dual currency investments, structured deposits and other investment products are not insured. This advertisement has not been reviewed by the Monetary Authority of Singapore. **Taiwan:** Standard Chartered Bank ("SCB") or Standard Chartered Bank (Taiwan) Limited ("SCB (Taiwan)") may be involved in the financial instruments contained herein or other related financial instruments. The author of this document may have discussed the information contained herein with other employees or agents of SCB or SCB (Taiwan). The author and the above-mentioned employees of SCB or SCB (Taiwan) may have taken related actions in respect of the information involved (including communication with customers of SCB or SCB (Taiwan) as to the information contained herein). The opinions contained in this document may change, or differ from the opinions of employees of SCB or SCB (Taiwan). SCB and SCB (Taiwan) will not

provide any notice of any changes to or differences between the above-mentioned opinions. This document may cover companies with which SCB or SCB (Taiwan) seeks to do business at times and issuers of financial instruments. Therefore, investors should understand that the information contained herein may serve as specific purposes as a result of conflict of interests of SCB or SCB (Taiwan). SCB, SCB (Taiwan), the employees (including those who have discussions with the author) or customers of SCB or SCB (Taiwan) may have an interest in the products, related financial instruments or related derivative financial products contained herein; invest in those products at various prices and on different market conditions; have different or conflicting interests in those products. The potential impacts include market makers' related activities, such as dealing, investment, acting as agents, or performing financial or consulting services in relation to any of the products referred to in this document. **UAE:** DIFC - Standard Chartered Bank is incorporated in England with limited liability by Royal Charter 1853 Reference Number ZC18. The Principal Office of the Company is situated in England at 1 Basinghall Avenue, London, EC2V 5DD. Standard Chartered Bank is authorised by the Prudential Regulation Authority and regulated by the Financial Conduct Authority and Prudential Regulation Authority. Standard Chartered Bank, Dubai International Financial Centre having its offices at Dubai International Financial Centre, Building 1, Gate Precinct, P.O. Box 999, Dubai, UAE is a branch of Standard Chartered Bank and is regulated by the Dubai Financial Services Authority ("DFSA"). This document is intended for use only by Professional Clients and is not directed at Retail Clients as defined by the DFSA Rulebook. In the DIFC we are authorised to provide financial services only to clients who qualify as Professional Clients and Market Counterparties and not to Retail Clients. As a Professional Client you will not be given the higher retail client protection and compensation rights and if you use your right to be classified as a Retail Client we will be unable to provide financial services and products to you as we do not hold the required license to undertake such activities. For Islamic transactions, we are acting under the supervision of our Shariah Supervisory Committee. Relevant information on our Shariah Supervisory Committee is currently available on the Standard Chartered Bank website in the Islamic banking section. **UAE:** For residents of the UAE – Standard Chartered Bank UAE does not provide financial analysis or consultation services in or into the UAE within the meaning of UAE Securities and Commodities Authority Decision No. 48/r of 2008 concerning financial consultation and financial analysis. **Uganda:** Our Investment products and services are distributed by Standard Chartered Bank Uganda Limited, which is licensed by the Capital Markets Authority as an investment adviser. **United Kingdom:** Standard Chartered Bank (trading as Standard Chartered Private Bank) is an authorised financial services provider (license number 45747) in terms of the South African Financial Advisory and Intermediary Services Act, 2002. **Vietnam:** This document is being distributed in Vietnam by, and is attributable to, Standard Chartered Bank (Vietnam) Limited which is mainly regulated by State Bank of Vietnam (SBV). Recipients in Vietnam should contact Standard Chartered Bank (Vietnam) Limited for any queries regarding any content of this document. **Zambia:** This document is distributed by Standard Chartered Bank Zambia Plc, a company incorporated in Zambia and registered as a commercial bank and licensed by the Bank of Zambia under the Banking and Financial Services Act Chapter 387 of the Laws of Zambia.