P

PHILLIP RESEARCH SDN BHD

199001007125 (198695-X) B-18-6, Megan Avenue II, No 12, Jalan Yap Kwan Seng, 50450 Kuala Lumpur. Tel No: 03-2783 0300

Morning Pole Position

All market data as at previous trading day

Market indices

Indices	Last	Daily chg	YTD chg%
Local			
FBM KLCI	1,460.38	13.07	-6.84
FBM Emas	10,350.84	75.44	-8.47
FBM Syariah	10,411.11	88.60	-15.10
FBM Small Cap	14,296.72	75.76	-9.29
FBM ACE	4,858.93	-22.37	-24.31
F4G BM	839.40	6.85	-4.65
F4G BMS	861.32	9.57	-12.34
Funds Flows		Net B	uy (MYR'm)
Local Institutions			30.8
Local Retails			-22.4
Foreign			-8.4
Foreign			
Dow Jones	32,732.95	-128.85	-9.92
S&P 500	3,871.98	-29.08	-18.76
Nasdaq	10,988.15	-114.31	-29.77
FTSE	7,094.53	46.86	-3.93
Hang Seng	14,687.02	-176.04	-37.23
Nikkei	27,587.46	482.26	-4.18
Shanghai Cl	2,893.48	-22.44	-20.50
Strait Times	3,093.11	33.92	-0.98
Currencies			
BNM Middle Rate	e Las	t Daily chg	YTD %

(5pm) 4.7280 USD / MYR 0.0055 13.52 GBP / MYR 5.4594 0.0151 -3.05 JPY100 / MYR 3.1891 -0.0138 -11.87 EUR/MYR 4.6916 -0.0047 -0.48 SGD / MYR 3.3435 0.0017 8.37 CNY / MYR 0.6476 -0.0032 -1.08 AUD / MYR 3.0245 -0.0059 -0.07

Bond Yield Movements

		Yield	Daily Change (bps)
MGS	3- year	3.79	-3
	10- year	4.37	4
GII	3- year	3.85	2
	10- year	4.46	0
UST	2- year	4.51	10
	10- year	4.10	8

Commodities

	Last	Daily chg	Daily chg %
CPO (3 rd month)	4,080.00	57	1.42
Brent (1 st month)	94.85	-1.41	-1.46
Gold (spot)	1,633.22	-10.32	-0.63
Courses Treesering and Du	man and DNIAA		

Source: Treasury.gov, Bursa and BNM

| 1st November 2022 |

FBMKLCI and statistics



Market Turnover

Vol (m shrs)	2,887	
Value (MYR m)	1,939	

Top 5 Value	Last	Daily chg %	Value (MYR m)
TOPGLOV	0.795	0.63	144.073
CIMB	5.520	-0.72	129.976
MAYBANK	8.590	0.12	115.606
PBBANK	4.470	2.05	110.526
HARTA	2.160	1.41	41.906

Top 5 Gainers	Last	Daily chg %	Value (MYR m)
PERMAJU-PA	0.010	100.00	0.033
DOLPHIN	0.025	66.67	0.395
SOLUTN	0.300	36.36	12.442
EDUSPEC	0.020	33.33	0.057
MERIDIAN	0.025	25.00	0.000

Top 5 Losers	Last	Daily chg %	Value (MYR m)
FLBHD	0.685	-51.07	0.172
NEXGRAM	0.005	-50.00	0.019
EAH	0.005	-50.00	0.007
VSOLAR	0.005	-50.00	0.007
KGROUP	0.005	-50.00	0.005

Top 5 DBT	Value (MYR m)	Volume (m shares)	Price (MYR)
EMETALL	13.924	20.179	0.72
CAELY	13.588	54.352	0.29
MICROLN	8.400	10.000	0.89
RAPID	4.583	0.339	14.66
HONGSENG	4.004	18.200	0.22



Market Pulse

RSI (14, close, SMA,

8

Source: Chart created using tradingview.com's tools, PRSB

Mar

AD

2022

The KLCI index extended its gain to close higher at 1,460.38 or +13.07 pts (+0.9%) as gainers surpassed losers 23 to 4 while 3 remained unchanged. Dialog and Axiata gained 7.85% and 4.78%, respectively, to be the top gainers of the day. Similarly, the broad market shared the same positive sentiment as gainers trouncing losers 450 to 365, while 410 counters were unchanged.

Jun

Aug

For the U.S market, profit-taking can be seen across the board as it is set to end the month of October in green and investors wait for Fed Chairman Jerome Powell's speech on 2nd November. Nevertheless, the corporate earnings seasons so far showcased consumer resiliency beating consensus despite weaker QoQ earnings and disappointing news from the Tech Behemoth. On top of that, continued strength seen in the job market may translate into holiday spending towards the year's end. We believe markets would remain highly volatile this week as the U.S. market tends to have a knee-jerk reaction to the Fed decision. Since KLCI does have a positive correlation with the U.S. market, we think that KLCI would likely be affected.

For today, we think KLCI may attempt to break the 0.382 Fibonacci level of 1,467.74 again as GE15 continued to fuel as the market catalyst. If it manages to breach, KLCI may trend higher to 0.500 Fibonacci level of 1,496.90. On the downside, it may trend as low as yesterday's low of 1,450.94. Our Picks in Exhibit 1.

MYR

1620.00 1600.00 1580.00

1560.00 1540.00

1520.00

1480.00

1460.38

1420.00 1400.00 1380.00 **1356.76** 80.00

40.00

7

Oct

Exhibit 1: Our Picks					
Company	Ticker	Rating	Price (MYR)	TP (MYR)	Upside (%)
Fundamental					
Bermaz Auto	BAUTO MK	Buy	1.98	2.45	23.74
Guan Chong	GUAN MK	Outperform	2.10	2.78	32.38
Technical					
QL Resources	QLG MK	Outperform	5.12	5.77	12.70
Opcom Holdings	OHB MK	Buy	0.895	1.24	38.55
Gamuda	GAM MK	Outperform	3.85	4.30	11.69
Supercomnet Technologies	SCT MK	Outperform	1.62	1.73	6.79
Pentamaster Corporation	PENT MK	Buy	3.88	5.26	35.57
Formosa Prosonic Industries	FOR MK	Buy	3.15	3.92	24.44
Kerjaya Prospek Group	KPG MK	Outperform	1.18	1.39	17.80
MMS Ventures	MMSV MK	Buy	0.675	1.20	77.78
FM Global Logistics Holdings	FMH MK	Buy	0.555	0.82	47.75
Hibiscus Petroleum	HIBI MK	Buy	0.97	1.32	36.08
OSK Holdings	OSK MK	Buy	0.89	1.12	25.84
UWC	UWC MK	Buy	3.70	5.03	35.95
Dayang Enterprise	DEHB MK	Buy	1.24	1.44	16.13
CTOS Digital	CTOS MK	Buy	1.41	1.78	26.24
Ancom Nylex	ANC MK	Buy	0.93	1.24	33.33
BP Plastics Holdings	BPP MK	Buy	1.39	1.80	29.50
CCK Consolidated Holdings	CCK MK	Outperform	0.63	0.71	12.70
Vitrox Corp Bhd	VITRO BHD	Buy	7.08	7.88	11.23
Pecca Group BHd	PECCA MK	Buy	0.89	1.16	30.51
Nova Wellness Group Bhd	NOVA MK	Outperform	0.90	1.07	18.99
Duopharma Biotech Bhd	DBB MK	Outperform	1.38	1.44	4.35
Mega First Corp	MFCB MK	Outperform	3.28	3.63	10.52
Malton Bhd	MALT MK	Buy	0.38	0.44	17.33
MyEG Services Bhd	MYEG MK	Outperform	0.89	0.94	6.21
WCT Holdings Bhd	WCT MK	Outperform	0.37	0.43	17.81
ETF					
MyETF Dow Jones U.S. Titans 50	METFUS50 MK	Buy	USD 1.65	USD 1.93	17.12
MyETF MSCI SEA Islamic Dividend	MEMSID MK	Buy	0.84	0.92	10.01
Principal FTSE ASEAN 40 Malaysia ETF	CIMBA40 MK	Buy	1.62	1.80	11.43
Principal FTSE China 50 ETF	CIMBC25 MK	Buy	1.12	1.39	24.42
TradePlus HSCEI Daily (2x) Leveraged Tracker	HSCEI2XL MK	Strong Buy	0.31	0.85	172.58
TradePlus NYSE FANG+ Daily (-1x) Inverse Tracker	FANG1XI MK	Buy	1.92	1.86	-3.12

Source: Bursa, Bloomberg, PRSB, price as of 31st October 2022

Malaysian news highlights

• BNM: M'sian banking system maintains strong liquidity, funding position.

Malaysia's banking system continued to maintain a healthy liquidity position, recording a strong liquidity coverage ratio of 152.5% in September, a position that remained supportive of intermediation activities, said Bank Negara Malaysia (BNM). The central bank said Malaysian banks sustained deposit growth, riding on recovery in economic activities which continued to support banks' lending activities, with the aggregate loan-to-fund ratio remaining stable at 82.5%, compared with 82.6% in August. In its monthly highlights — September 2022 report on Monday (Oct 31), BNM shared that asset quality of the banking system also remained intact, with the overall gross impaired loan ratio broadly stable at 1.82% (August: 1.84%) and the net impaired loan ratio at 1.12% (August: 1.13%). (Source: TheEdgeMarkets)

Global news highlights

- OPEC Says Supply Surplus Was Main Reason for Oil Production Cut.
- "We see a surplus in the fourth quarter," Haitham al Ghais told reporters at the Adipec energy conference in Abu Dhabi. "We also see a surplus in early parts of 2023 because of the great uncertainties surrounding the economic growth forecasts. That was the main reason we took the decision to be proactive." (Source: <u>Bloomberg</u>)
- More Than a Third of US Small Businesses Couldn't Pay All Their Rent in October. About 37% of small businesses, which between them employ almost half of all Americans working in the private sector, were unable to pay their rent in full in October. That's according to a survey from Boston-based Alignable, a network of 7 million small business members. It's up seven percentage points from last month and is now at the highest pace this year, the survey showed. (Source: Bloomberg)
- Euro-Zone Inflation Soars to New Record as Economy Fades.

Euro-area inflation surged to a fresh all-time high, while the bloc's economy lost momentum -reinforcing fears that a recession is now all-but unavoidable. Consumer prices jumped by 10.7% from a year ago in October, far exceeding the 10.3% median estimate in a Bloomberg survey. Thirdquarter output, meanwhile, slowed to 0.2% from the previous three months -- more than analysts estimated but much less than the 0.8% advance recorded between April and June. (Source: <u>Bloomberg</u>)

• Breaking China's Grip on Rare-Earths Markets a 'Pipe Dream,' Australia Says.

Australia's resources minister said it was a "pipe dream" that Western countries could soon end their reliance on China for rare earths and critical minerals -- vital for the defense, aerospace and automotive industries -- due to the Asian powerhouse's existing grip on global markets. (Source: <u>Bloomberg</u>)

• Xi's Covid Zero Is Killing China's iPhone Advantage.

Forced to adhere to the government's tough stance on the virus, Foxconn banned dining at central cafeterias and some workers were given only basic meals such as bread and instant noodles. With nationwide cases surging to the most in 80 days on Sunday, many may have been legitimately concerned about getting stuck inside a factory amid deteriorating conditions. A hasty exit seemed the best move, with Reuters reporting that output at the facility may drop by as much as 30% in November as a result. (Source: <u>Bloomberg</u>)

• Hong Kong's Economy Records Worst Contraction Since 2020.

Gross domestic product plunged 4.5% in the July-to-September period from a year earlier, according to advance estimates released by the government on Monday. That was far weaker than economists' forecasts for a 0.8% decline, and worse than the second quarter's 1.3% fall. (Source: <u>Bloomberg</u>)

• India plans to cut sugar export quota by almost 20% this year - sources.

India may cut sugar exports in the year through September 2023 to safeguard domestic supplies and on expectations for higher biofuel demand, according to people with knowledge of the matter. The world's second-biggest producer may permit sugar mills to ship nine million tons, lower than the 11.2 million quota for 2021-22, said the people who asked not to be named as they are not authorised to speak publicly. An email sent to the food ministry's spokesperson was not immediately answered. A spokesperson of the commerce ministry was also not available. (Source: <u>TheEdgeMarkets</u>)

Corporate news

• Maxis still assessing governance requirements for 5G access agreement.

Maxis Bhd said it is still assessing the governance requirements for the 5G access agreement and is "committed to bringing this to a close as soon as possible". "Maxis is committed to playing an active role in bringing 5G to the nation, in line with the government's digital ambitions, and to utilising Digital Nasional Bhd (DNB)'s network for 5G services," the group said, adding that is confident of launching 5G "in the near future". "Maxis will continue to support the nation's 5G aspirations in strengthening Malaysia's competitiveness in the region," said the group in a statement on Monday (Oct 31). (Source: <u>TheEdgeMarkets</u>)

• TNB expedites Sedenak main intake substation upgrade.

Tenaga Nasional Bhd (TNB) has fast-tracked upgrading works at the Sedenak main intake substation (PMU) to stimulate growth in nearby industrial areas and international data hub. TNB head of grid development Dev Anandan said the project is expected to be a catalyst in the state government's aspiration to accelerate the development of the 2,950-hectare (7,290-acre) Sedenak Technology Valley, including data centre complex Sedenak Tech Park (STeP) as its key growth component. (Source: <u>TheEdgeMarkets</u>)

• Fire at Pengerang complex not within its 50%-owned petrochemical facilities, says PetChem. Petronas Chemicals Group Bhd (PetChem) said the interconnecting pipes at the Pengerang Integrated Complex (PIC) in Johor, where a fire broke out last week, are not within the petrochemical facilities in which the group has a 50% direct equity. "Preliminary assessments indicate no damages to the petrochemical assets," PetChem said in a bourse filing with Bursa Malaysia on Monday (Oct 31). "However, due to the integrated nature of PIC and to ensure the safety and wellbeing of the employees, workers and surrounding communities, the petrochemical plants have been temporarily shut down," it added. (Source: <u>TheEdgeMarkets</u>)

• Econpile bags sub-structure job for private hospital in Kelantan.

Piling specialist Econpile Holdings Bhd has bagged a RM24.09 million contract to undertake substructure works for a private hospital in Kota Bharu, Kelantan. The hospital comprises a 12-storey hospital block and 11-storey carpark block, the group said in a Bursa Malaysia filing. Econpile said its wholly-owned subsidiary, Econpile (M) Sdn Bhd, was awarded the contract by Kota Bharu Medical Centre Sdn Bhd. (Source: <u>TheEdgeMarkets</u>)

• Bursa: RM2.8 bil raised via IPOs in 9M22.

A total of RM2.8 billion was raised via new listings through initial public offerings (IPOs) in Malaysia in the first nine months of 2022 (9M22), about 22% higher than the RM2.3 billion raised in the same period last year, according to Bursa Malaysia Bhd. This was despite the local securities market registering a trading revenue of RM203 million in 9M22, a decrease of 43.6% year-on-year, compared with RM359.9 million in 9M21. In a statement released by Bursa Malaysia on Monday (Oct 31), the stock exchange operator attributed the decrease in trading revenue to lower average daily trading value for securities market's on-market trades and direct business trades from RM4 billion in 9M21 to RM2.2 billion in 9M22. (Source: <u>TheEdgeMarkets</u>)

Economic Calendar

Country	Economic Data
1 st November 2022	
Malaysia	S&P Global Malaysia PMI Mfg
China	Caixin China PMI Mfg
United States	S&P Global US Manufacturing PMI
United States	JOLTS Job Openings
United States	ISM Manufacturing
United States	ISM Employment
3 rd November 2022	
United States	FOMC Rate Decision (Lower Bound)
United States	FOMC Rate Decision (Upper Bound)
United States	Interest on Reserve Balances Rate
United States	Challenger Job Cuts YoY
United States	Trade Balance
United States	Initial Jobless Claims
United States	S&P Global US Services PMI
United States	S&P Global US Composite PMI
United States	Factory Orders
United States	ISM Services Index
China	Caixin China PMI Composite
China	Caixin China PMI Services
Malaysia	BNM Overnight Policy Rate
4 th November 2022	
United States	Unemployment Rate
United States	Labor Force Participation Rate
7 th November 2022	
Malaysia	Foreign Reserves
China	Foreign Reserves
China	Exports YoY
China	Imports YoY
China	Trade Balance
8 th November 2022	
Malaysia	Industrial Production YoY
Malaysia	Manufacturing Sales Value YoY
9 th November 2022	
China	PPI YoY
China	CPI YoY
10 th November 2022	
United States	CPI MoM
United States	CPI YoY
United States	Initial Jobless Claims
11 th November 2022	
Malaysia	BoP Current Account Balance MYR
Malaysia	GDP YoY

DISCLAIMER

Legal and Regulatory Notices (Electronic Communications) © 2018 PRSB.

Important disclosures

This research report is strictly confidential and has been prepared for information purposes only by Phillip Research Sdn Bhd ("PRSB"), a subsidiary of Phillip Capital Holdings Sdn Bhd ("PCH") and is meant for circulation to its clients and clients of other subsidiaries companies of PCH particularly Phillip Mutual Berhad ("PMB"), Phillip Capital Management Sdn Bhd ("PCM"), Phillip Wealth Planners Sdn Bhd ("PWP") and Phillip Capital Sdn Bhd ("PCSB") (collectively refer to as Phillip Group other licensed intermediaries ("PGOLI")) only or such other persons as may be deemed eligible to receive such research report, information or opinion contained herein. Neither the publication/communication nor any portion hereof may be reprinted, distributed, sold, resold, redistributed, copied, reproduced, published, republished, displayed, posted or transmitted in any form or media or by any means without the written consent of PRSB.

The policy of PRSB is to only publish research that is impartial, independent, clear, fair, and not misleading. Analysts never receive compensation from companies they cover. Regulations or market practice of some jurisdictions/markets prescribe certain disclosures to be made for certain actual, potential or perceived conflicts of interests relating to a research report as below. This research disclosure is for your information only and does not constitute any recommendation, representation or warranty. Absence of a disclosable position should not be taken as endorsement on the validity or quality of the research report or recommendation.

To maintain the independence and integrity of PRSB's research, PGOLI activities such as fund management, dealing in securities (restricted to unit trust and private retirement scheme), dealing in derivatives, clearing for derivatives, financial planning and research business lines are distinct from one another. This means that PRSB is not part of and does not report to any of PGOLI. Accordingly, PGOLI does not supervise nor control the activities of PRSB's research analysts. PRSB's research analysts report to the Head of Research, who in turn report to PRSB's senior management.

PRSB and PGOLI have in place internal controls designed to manage conflicts of interest that may arise as a result of PGOLI engaging in fund management, dealing in securities (restricted to unit trust and private retirement scheme), dealing in derivatives, clearing for derivatives, financial planning and PRSB activities. Some examples of these controls include: the use of information barriers and other information controls designed to ensure that confidential information is only shared on a "need to know" basis and in compliance with PRSB and PGOLI's Chinese Wall policies and procedures; measures designed to ensure that interactions that may occur among PRSB's research personnel, fund management, dealing in securities (restricted to unit trust and private retirement scheme), dealing in derivatives, clearing for derivatives, and financial planning, PGOLI's financial product issuers and PRSB's research analysts do not compromise the integrity and independence of PRSB's research.

Neither analysts nor their household members/associates/may have a financial interest in, or be an officer, director or advisory board member of companies covered by the analyst unless disclosed herein. In circumstances where an analyst has a pre-existing holding in any securities under coverage, those holdings are grandfathered and the analyst is prohibited from trading such securities up to the date of the publication of this research report.

Unless specified otherwise, PRSB did not receive investment banking/non-investment banking income from, and did not manage/co-manage a public offering for, the listed company during the past 12 months, and it does not expect to receive investment banking compensation from the listed company within the coming three months. Unless mentioned otherwise, PRSB does not own a material disclosable position, and does not make a market, in the securities.

We hereby certify that the views expressed in this research report accurately reflect our views about the securities and/or the issuers and that no part of our compensation were or will be directly or indirectly related to the specific recommendation or views contained in this report or to any investment banking relationship with the subject company covered in this report (for the past one year) or otherwise any other relationship with such company which leads to receipt of fees from the company except in ordinary course of business of the company. We hereby confirm that our analyst(s) has/have not been placed under any undue influence, intervention or pressure by any person(s) in compiling this research report. This report is prepared without any intention to raise, lower or maintaining the price of the securities covered or to induce the recipient to buy or sell the securities covered. In addition, our analyst(s) included herein attest that he/she/they was/were not in possession of any material, non-public price sensitive information regarding the subject company at the time of publication of the report. Save from the disclosure below (if any), we are not aware of any material conflict of interest.

Key to PRSB investment ratings:

Equity:

BUY: Total stock return (including dividends) expected to exceed 20% annually;

O-PF: Total expected return below 20% annually but exceeding market return;

U-PF: Total expected return positive but below market return;

SELL: Total return expected to be negative.

For relative performance, we benchmark the 12-month total forecast return (including dividends) for the stock against the 12-month forecast return (including dividends) for the market on which the stock trades.

ETFs (Criteria applies to rating assignments from 16th December 2019):

STRONG BUY: Total return (including dividends) expected to exceed 20% annually;

BUY: Total expected return below 20% but exceed 5% or then 1-year rate, whichever is higher;

SELL: Total return of not more than 5% or then 1-year rate, whichever is higher.

The ratings are based on the forecast total return (including dividends) over the next 12 months.

Funds:

The rating a mathematical scoring system that include risks (standard deviation, Sharpe Ratio) and returns (1year, 3-year, 5-year and consistency)BUY: Total return (including income distribution) is positive and above peers' average while risk factors are low;

O-PF: Total return is positive and above peers' average but has higher risk factors; SELL: Total return is negative.

For a history of the recommendations and price targets for companies mentioned in this report, as well as company specific disclosures, please write to: Phillip Research Sdn Bhd, B-18-6, Block B Level 18, Megan Avenue II, 12 Jalan Yap Kwan Seng, 50450 Kuala Lumpur, Malaysia.

The information, opinions and estimates herein are not directed at, or intended for distribution to or use by, any person or entity in any jurisdiction where doing so would be contrary to law or regulation or which would subject PRSB and/or its associate companies to any additional registration or licensing requirement within such jurisdiction. The information and statistical data herein have been obtained from sources we believe to be reliable. Such information has not been independently verified and we make no representation or warranty as to its accuracy, completeness or correctness. Any opinions or estimates herein reflect the judgment of PRSB at the date of this publication/communication and are subject to change at any time without notice. Where any part of the information, opinions or estimates contained herein reflects the views and opinions of a sales person (include but not limited to Financial Planners and Marketing Representative or a non-analyst), such views and opinions may not correspond to the published view of PRSB. This is not a solicitation or any offer to buy or sell. This publication/communication is for information purposes only and does not constitute any recommendation, representation, warranty or guarantee of performance. Any price target given in the report may be projected from one or more valuation models and hence any price target may be subject to the inherent risk of the selected model as well as other external risk factors. This is not intended to provide professional, investment or any other type of advice or recommendation and does not take into account the particular investment objectives, financial situation or needs of individual recipients. Before acting on any information in this publication/communication, you should consider whether it is suitable for your particular circumstances and, if appropriate, seek professional advice, including tax advice. PRSB, and PGOLI do not accept any responsibility and cannot be held liable for any person's use of, or reliance on the information and opinions contained herein. To the extent permitted by applicable securities laws and regulations, PRSB accepts no liability whatsoever for any direct or consequential loss arising from the use of this publication/communication or its contents. Where the publication does not contain ratings, the material should not be construed as research but is offered as factual commentary. It is not intended to, nor should it be used to form an investment opinion about the non-rated companies.

Subject to any applicable laws and regulations at any given time, PRSB, PGOLI and their respective affiliates or companies or individuals connected with PRSB may have used the information contained herein before publication and may have positions in, may from time to time purchase or sell or have a material interest in any of the securities mentioned or related securities, or may currently or in future have or have had a business or financial relationship with, or may provide or have provided investment banking, capital markets and/or other services to, the entities referred to herein, their advisors and/or any other connected parties. As a result, investors should be aware that PRSB, PGOLI and/or their respective affiliates or companies or such individuals may have one or more conflicts of interest. Regulations or market practice of some jurisdictions/markets prescribe certain disclosures to be made for certain actual, potential or perceived conflicts of interests relating to research reports. Details of the disclosable interest can be found in certain reports as required by the relevant rules and regulation. Disclosures therein include the position of PRSB and PGOLI only. Unless specified otherwise, PRSB did not receive any compensation or other benefits from the subject company covered in this publication/communication.

The analysts/contributors to this publication/communication may be employed by any relevant PGOLI entity, which is different from the entity that distributes the publication/communication in the respective jurisdictions.

PRSB, PGOLI and/or its officers, directors and employees, may, to the extent permitted by applicable law and/or regulation, deal as principal, agent, or otherwise, or have long or short positions in, or buy or sell, the securities, commodities or instruments, or options or other derivative instruments based thereon, of issuers or securities mentioned herein. PGOLI may also act as market maker or liquidity provider (within the meaning of applicable regulations in the UK) in the financial instruments of the issuer. Where the activity of market maker is carried out in accordance with the definition given to it by specific laws and regulations of the US or other jurisdictions, this will be separately disclosed within the specific issuer disclosures.

Investors should not consider this report as only a single factor in making their investment decision and, as such, the report should not be viewed as identifying or suggesting all risks, direct or indirect, that may be associated with any investment decision. PRSB produces a number of different types of research product including, among others, fundamental analysis and quantitative analysis; recommendations contained in one type of research product may differ from recommendations contained in other types of research product, whether as a result of differing time horizons, methodologies or otherwise. PRSB and PGOLI publishes research product in a number of different ways including the posting of product on the PGOLI portals and/or distribution directly to clients. Different groups of clients may receive different products and services from the research department depending on their individual requirements.

Figures presented herein may refer to past performance or simulations based on past performance which are not reliable indicators of future performance. Where the information contains an indication of future performance, such forecasts may not be a reliable indicator of future performance. Moreover, simulations are based on models and simplifying assumptions which may oversimplify and not reflect the future distribution of returns. Any figure, strategy or index created and published for illustrative purposes within this report is not intended for "use" as a "benchmark".

Certain securities are subject to fluctuations in exchange rates that could have an adverse effect on the value or price of, or income derived from, the investment.

With respect to Fixed Income Research: Recommendations fall into two categories: tactical, which typically last up to three months; or strategic, which typically last from 6-12 months. However, trade recommendations may be reviewed at any time as circumstances change. 'Stop loss' levels for trades are also provided; which, if hit, closes the trade recommendation automatically. Prices and yields shown in recommendations are taken at the time of submission for publication and are based on either indicative Bloomberg, Reuters or PGOLI prices or yields at that time. The prices and yields shown are not necessarily those at which the trade recommendation can be implemented.

The securities described herein may not have been registered under the US Securities Act of 1933 (the '1933 Act'), and, in such case, may not be offered or sold in the US or to US persons unless they have been registered under the 1933 Act, or except in compliance with an exemption from the registration requirements of the 1933 Act. Unless governing law permits otherwise, any transaction should be executed via PhillipCapital Group entity in your home jurisdiction.