

# Outlook 2024 - Core government bonds

## Attractive returns likely on the cards

AUTHORS

LAURÉLINE RENAUD-CHATELAIN  
lchatelain@pictet.comMILÈNE DUMONT  
mdumont@pictet.com

27 NOVEMBER 2023, CIO OFFICE &amp; MACRO RESEARCH

FLASH NOTE

### SUMMARY

- Fixed-income investors were surprised by the significant rise in core government bond yields in 2023. This was driven by higher real yields, reflecting surprising economic resilience. In the US, the fast increase in the term premium against the backdrop of elevated macroeconomic uncertainty and a growing fiscal deficit also played an important role.
- We expect the 10-year US Treasury yield to fall from its 23 November level of 4.41% towards 4% in June 2024. This is because the US economy could experience a mild recession in early 2024, possibly leading to rate cuts by the US Federal Reserve (Fed) that would likely cause a steepening of the US yield curve. We expect the 10-year yield to rise slightly to 4.3% thereafter as the US economy recovers moderately in H2. Uncertainties about the budget deficit and the future supply of US Treasury securities could also put upward pressure on yields.
- In the footsteps of US government bond yields, the 10-year German Bund yield is likely to decrease as the European Central Bank (ECB) is also likely to cut rates, possibly starting in June. We expect it to fall from 2.65% on 23 November towards 2% in H1 2024 before rebounding slightly to 2.3% by the end of next year.
- To take advantage of the expected decline in interest rates, we remain overweight US Treasuries going into next year. For the same reason, we have moved from neutral to an overweight stance on core euro government bonds. We expect US Treasuries and German Bunds to generate positive, mid-single-digit total returns in 2024 given the decline in yields and comfortable coupons.

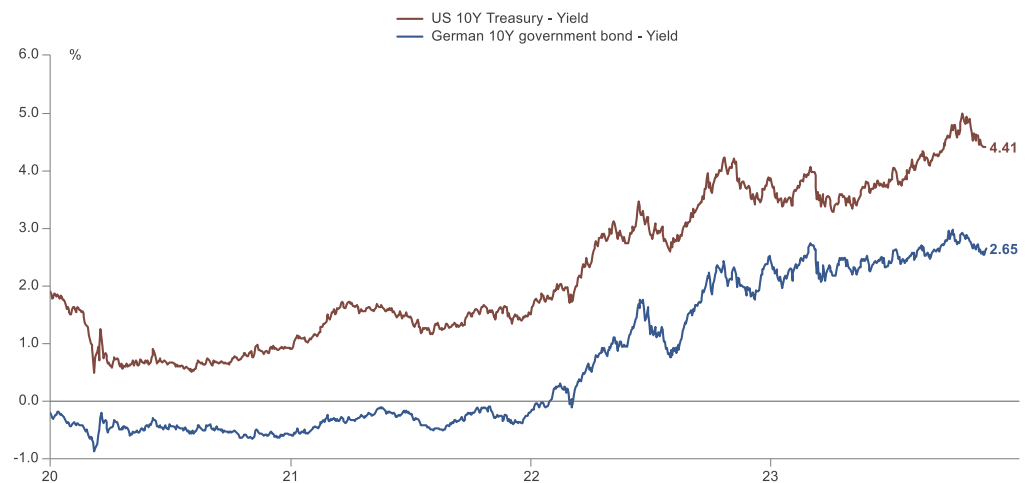
### POSITIVE FIXED-INCOME RETURNS EXPECTED

Following a negative year for fixed income in 2022, investors were again caught off guard by the large rise in interest rates this year. While we expected the cycle of rapid rate hikes to have a significant impact on economies, the transmission

*For illustrative purposes. Past performance should not be taken as a guide to or guarantee of future performance. Performances and returns may increase or decrease as a result of currency fluctuations. There can be no assurance that these projections, forecasts or expected returns will be achieved. The projection is not based on simulated past performance.*

mechanism has been working slower than expected, particularly in the US. Even though major central banks seemed to have reached the end of their tightening cycle, US government bond yields continued to soar to their highest level since before the global financial crisis (GFC, *see chart 1*). The rise was primarily driven by higher real yields, reflecting more-resilient-than-expected US economic activity and the fast increase in the term premium (the compensation that investors require for the extra risk entailed in holding longer-term bonds) given elevated macroeconomic uncertainty and a growing fiscal deficit.

**Chart 1: US and German 10-year government bond yields**



Source: Pictet Wealth Management, FactSet, as of 23.11.2023

We remain convinced that the US will experience a mild recession in the first half of next year as previous rate hikes are transmitted to the real economy. While a slow-down will initially push US government bond yields lower, a moderate economic recovery in the second half of the year could send yields higher again. Additionally, uncertainties about the future path of the federal budget deficit and the supply of US Treasury securities remain and could put durable upward pressure on yields. The trend in German Bund yields is expected to mirror that of US Treasuries – initially declining due to sideways euro area economic growth and subsequently increasing modestly as the economy recovers.

Should disinflation continue, the Fed and the ECB may cut interest rates starting in June 2024, thereby supporting economic growth. While the Fed moves toward rate cuts, quantitative tightening (QT, the Fed's non-reinvestment of maturing government bonds in a bid to shrink its balance sheet) is expected to persist. However, given the increasing scarcity of bank reserves, QT could stop in Q4. The ECB is expected to continue reinvesting maturing securities from the Pandemic Emergency Purchase Programme (PEPP, the ECB's temporary asset purchase programme) until the end of 2024. Some hawks at the ECB could push for an early end to reinvestments, posing risk to the market's stability. Nevertheless, the winding down of its Asset Purchase Programme portfolio (APP, initiated in mid-2014) will continue and will gradually reduce the ECB's holdings of euro sovereign bonds by approximately EUR15-20 bn a month in 2024.

For illustrative purposes. Past performance should not be taken as a guide to or guarantee of future performance. Performances and returns may increase or decrease as a result of currency fluctuations. There can be no assurance that these projections, forecasts or expected returns will be achieved. The projection is not based on simulated past performance.

In conclusion, we expect US Treasuries and German Bunds to generate positive, mid-single-digit total returns in 2024 given a decline in yields and comfortable coupons.

### NEW FRAMEWORK FOR FORECASTING THE 10-YEAR TREASURY YIELD

To establish our year-end forecast for the 10-year Treasury yield, we use a Fed model that breaks down the 10-year Treasury yield between the expected policy rate and inflation expectations in 10 years' time, with the real term premium (the D'Amico, Kim, and Wei (DKW) 2018 model, see <https://www.federalreserve.gov/econres/notes/feds-notes/tips-from-tips-update-and-discussions-20190521.html>) and the inflation risk premium added to the calculation (see Table 1).

**Table 1: Nominal yield decomposition**

10-year nominal yield	=	10-year future short-term real rate	+	10-year expected average inflation	+	10-year real term premium	+	10-year inflation risk premium
10-year nominal yield	=	10-year future short-term nominal rate			+	10-year nominal term premium		

Source: <https://www.federalreserve.gov/econres/notes/feds-notes/tips-from-tips-update-and-discussions-20190521.html>

The expected policy rate in 10 years' time and 10-year inflation expectations give us the future short-term nominal rate. As outlined in a previous Flash Note (see [Uncertainties feed into higher Treasury yields](#)), this can be estimated by looking at the Fed's 'dot plot' (which shows the longer-run federal funds rate at 2.5%, see <https://www.federalreserve.gov/monetarypolicy/fomcproptabl20230920.htm>) or at market participants' expectations (which stood at 4.1% as of 23 November). We believe that the Fed's forecast of 2.5% could prove too low, while the market forecast of 4.1% seems elevated given that 'higher-for-longer' policy rates could drastically cut growth in a highly indebted US economy. In this new post-pandemic regime, we believe that a fair estimate of the future short-term nominal rate is around 3.5%.

The second component of the 10-year Treasury yield is the nominal term premium, which consists of the inflation risk premium and the real term premium. The inflation risk premium represents the additional compensation received by investors for bearing future inflation risks. The inflation risk premium has been close to zero or negative since 2010, when a period of low inflation began. In our main scenario, we consider that while the Fed has maintained its credibility regarding long-term inflation expectations, it may be prudent to consider a slight rise in the inflation risk premium to 0-0.2%, as we foresee a structurally higher inflation environment ahead. Finally, while hard to estimate, the real term premium is an increasingly important factor in determining long-term Treasury yields. Like the inflation risk premium, the real term premium has been shifting from near zero or negative to positive territory since the reversal of quantitative easing (QE).

For illustrative purposes. Past performance should not be taken as a guide to or guarantee of future performance. Performances and returns may increase or decrease as a result of currency fluctuations. There can be no assurance that these projections, forecasts or expected returns will be achieved. The projection is not based on simulated past performance.

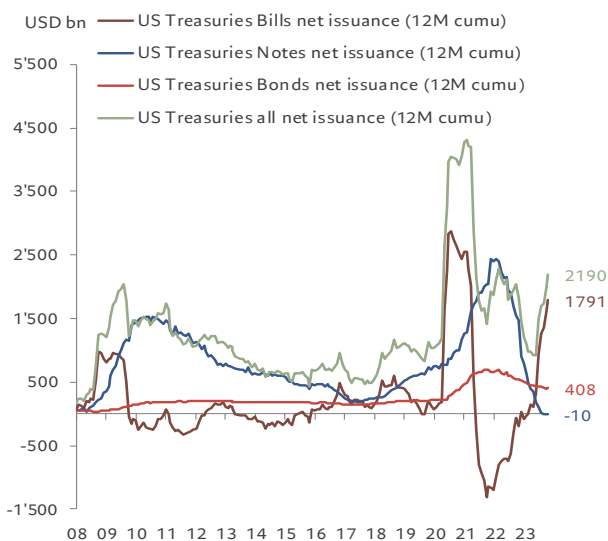
## NORMALISATION OF THE US TERM PREMIUM

As we commented in a previous Flash Note (see [Treasury yields could drop back, but remain structurally higher](#)), the recent rise in the term premium, which led to a rise in the 10-year US Treasury yield in Q3, was triggered by elevated macroeconomic uncertainty and a growing US fiscal deficit.

The US fiscal deficit for 2024 is expected to increase to USD1.8 trn from USD1.7 trn in 2023, driven by higher net interest payments. To finance it, the US Department of the Treasury announced an increase in the size of Treasury auctions (bonds and notes) – although for long-term maturities ranging from 10-to-30 years, the increase will be less than expected (see <https://home.treasury.gov/policy-issues/financing-the-government/quarterly-refunding/most-recent-quarterly-refunding-documents>). Already in 2023, most of the US fiscal deficit has been financed by T-bills (Treasury securities with maturities of up to one-year), while the issuance of T-notes (with maturities ranging from two to 10-years) has remained negative over the last 12 months (see chart 2).

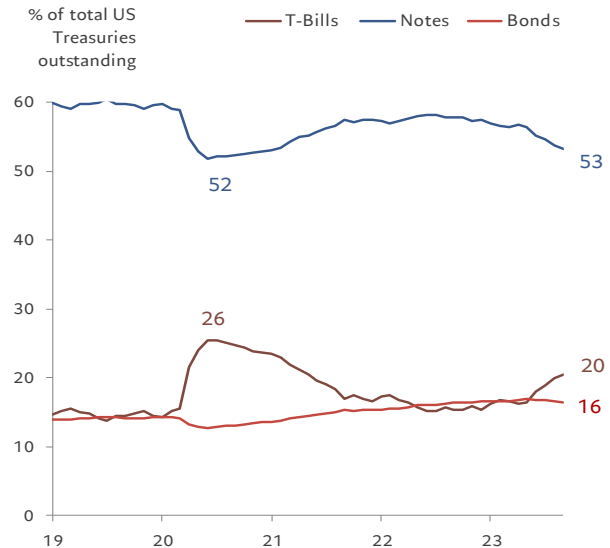
Considering the elevated cost of funding the US government is currently facing and the fact that the US Treasury yield curve is less inverted than this summer, it could make sense for the US Treasury Department to increase further T-bills' share of total US Treasuries outstanding from around 20% in September (see chart 3). A further rise in the share of T-bills next year could reduce the need for a large rise in the net issuance of US Treasury notes and bonds. This could in turn reduce the upward pressure on the 10-year term premium. Nevertheless, given the uncertainties surrounding the US fiscal deficit (the 2024 federal budget has not yet been ratified by Congress), a lot of unknowns surround the future supply of US Treasury securities.

**Chart 2: 12-month cumulative net issuance of US Treasuries**



Source: Pictet Wealth Management, FactSet, SIFMA, as of 31.10.2023

**Chart 3: US Treasury securities segments in % of total outstanding**



Source: Pictet Wealth Management, FactSet, SIFMA, as of 30.09.2023

To deepen our analysis of the 10-year term premium, we have empirically identified variables that are significantly influencing the nominal term premium (as calculated

For illustrative purposes. Past performance should not be taken as a guide to or guarantee of future performance. Performances and returns may increase or decrease as a result of currency fluctuations. There can be no assurance that these projections, forecasts or expected returns will be achieved. The projection is not based on simulated past performance.

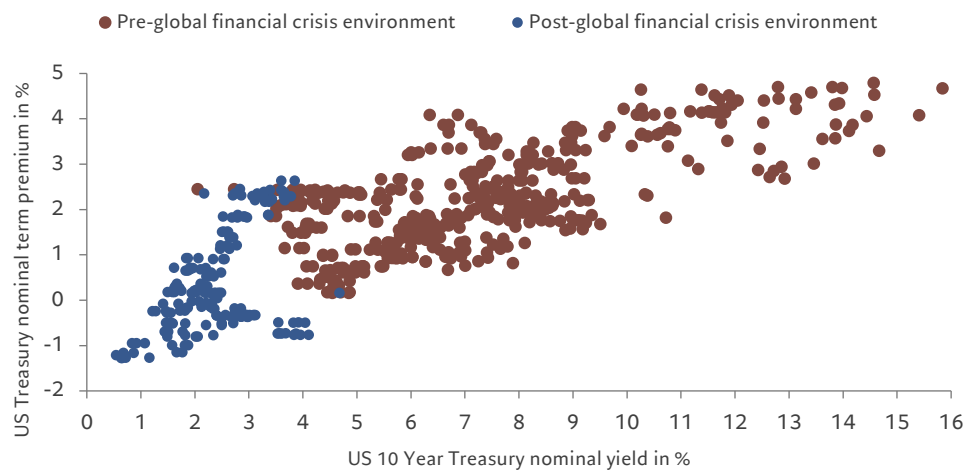
by the Adrian, Crump & Moench (ACM) model). First, we start from the premise that the term premium is correlated with macroeconomic uncertainty, especially periods of recession. For this reason, we can see that when the US ISM manufacturing index is low, indicating a slowdown in economic activity, the term premium shifts higher.

Second, the difference between the 10-year minus the two-year Treasury yield plays a significant role in this process. When the yield curve is steep, we generally see a shift higher in the term premium since it is usually associated with interest rate cuts (that tend to impact more short-term yields) and economic growth deceleration.

Finally, one must obviously consider the 10-year US nominal Treasury yield, as the term premium is a linear result of the yield level. Importantly, the relation between the US yield and the term premium has changed since the financial crisis of 2007-2008 (see chart 4). In the years following the financial crisis, the term premium was close to zero or even negative. This was due to the Fed’s QE programme, which reduced the supply of bonds available to market participants.

For our 2024 scenario, we have tried to estimate what the term premium could be once the Fed starts cutting rates and the US yield curve steepens again. If we assume that the 10-year US Treasury yield declines towards 4%, that the ISM manufacturing index stands at 50 and that the spread between two-year and 10-year yields is 50 bp, then the 10-year term premium would be at around 0.63%, according to our regression analysis. The premium would be around 0.44% if we assume these data are all at levels seen in the wake of the 2008 financial crisis.

**Chart 4: US nominal term premium versus US 10-year Treasury yield before and after the global financial crisis**



Source: Pictet Wealth management, federalreserve.gov, Bloomberg Finance L.P., as of 31.10.2023

In conclusion, the term premium is currently normalising after a decade of near-zero or negative levels. Since the end of August, it has moved up by 50bps to 0% (at 21 November), with a spike at 0.45% on 25 October. A mild recession that pushes the Fed to start a rate cutting cycle and lead to a steeper yield curve would argue for a term premium between 0.44% and 0.63%. However, taking account of the uncertainty surrounding the country’s fiscal trajectory and unknowns surrounding the

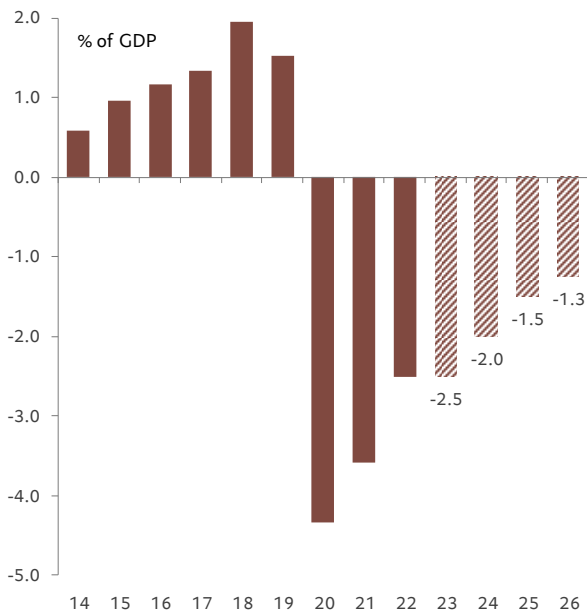
For illustrative purposes. Past performance should not be taken as a guide to or guarantee of future performance. Performances and returns may increase or decrease as a result of currency fluctuations. There can be no assurance that these projections, forecasts or expected returns will be achieved. The projection is not based on simulated past performance.

supply of US Treasuries, we estimate that the term premium could rise to approximately 0.8%. Adding to that the future short-term nominal rate discussed earlier (3.5%), we reach a US 10-year yield forecast of 4.3% for end 2024.

**BUNDS AND FISCAL CONSOLIDATION**

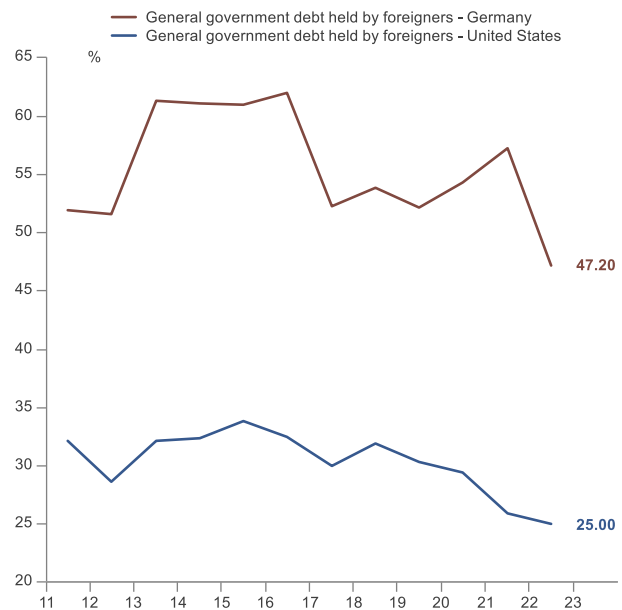
In Germany, the term premium picture is different given that fiscal policy is set to tighten in 2024 as emergency energy support is phased out and the government is forced to apply the constitutionally enshrined debt brake. Indeed, estimates for the German government budget deficit for 2024 stand at a healthy 2% of GDP compared to 6.4% for the US (see chart 5). Germany’s fiscal solidity is contributing to the Bund’s safe-haven status and ensures its 10-year term premium remains low. Fiscal consolidation means that Bunds remain attractive to foreign investors, who held 47.2% of total German government debt in 2022 compared to 25% of US general government bonds (see chart 6).

**Chart 5: Germany: general government budget balance (with draft budget estimates)**



Source: Pictet Wealth Management, Eurostat, German ministry of Finance, as of October 2023

**Chart 6: Comparison of foreign ownership of German and US government bonds**



Source: Pictet Wealth Management, FactSet, as of 31.12.2022

**CONCLUSION**

Anticipating a bond rally in the first half of the year to coincide with a mild US economic recession, our expectation is for the 10-year US Treasury yield to fall to 4% in H1 2024. We subsequently expect a small rebound to 4.3% by the end of 2024. To take advantage of the expected decline in interest rates, we remain overweight on US Treasuries going into next year.

European bond markets have been closely tracking US Treasuries this year, so we anticipate that trends in the 10-year Bund yield will closely resemble those for its US

For illustrative purposes. Past performance should not be taken as a guide to or guarantee of future performance. Performances and returns may increase or decrease as a result of currency fluctuations. There can be no assurance that these projections, forecasts or expected returns will be achieved. The projection is not based on simulated past performance.

counterpart. The major difference is in terms of the fiscal trajectory, with fiscal consolidation in Germany maintaining the term premium lower than in the US. Overall, we expect the 10-year Bund yield to reach 2.3% by the end of next year, after touching 2% in H1 2024. Hence, we have moved from a neutral to an overweight stance on core euro government bonds.

In an alternative scenario, we see a risk that the Fed does not cut interest rates at all in 2024 should recession be avoided, and disinflation proves subdued. In fact, the Fed could even consider resuming its hiking cycle, potentially leading to a Fed funds rate of 6%. A relatively big increase in the term premium could also push up US Treasury yields if the fiscal trajectory deteriorates more than expected or if we see heightened uncertainty surrounding the US presidential election. In this case, the US 10-year government bond yield could reach 5% by the end of 2024.

While German government bond yields may also increase in this scenario (to 3%), a sharp economic slowdown is a greater risk for the 10-year Bund yield. This could force the ECB to cut rates earlier than expected, which would likely lead to the 10-year Bund yield falling below 2%. Similarly, a severe US recession could turn the term premium negative as US government bonds' safe-haven status attracts investors again. In this scenario the US 10-year government bond yield could decrease towards 3.8% by end-2024.

For illustrative purposes. Past performance should not be taken as a guide to or guarantee of future performance. Performances and returns may increase or decrease as a result of currency fluctuations. There can be no assurance that these projections, forecasts or expected returns will be achieved. The projection is not based on simulated past performance.

## DISCLAIMERS

Distributors: Banque Pictet & Cie SA, Route des Acacias 60, 1211 Geneva 73, Switzerland and Bank Pictet & Cie (Europe) AG, Neue Mainzer Str. 1 60311 Frankfurt am Main Germany.

Banque Pictet & Cie SA is established in Switzerland, exclusively licensed under Swiss Law and therefore subject to the supervision of the Swiss Financial Market Supervisory Authority (FINMA).

Bank Pictet & Cie (Europe) AG is established in Germany, authorised and regulated by the Bundesanstalt für Finanzdienstleistungsaufsicht, the German Federal Financial Supervisory Authority (Bafin).

This marketing communication is not intended for persons who are citizens of, domiciled or resident in, or entities registered in a country or a jurisdiction in which its distribution, publication, provision or use would violate current laws and regulations.

The information, data and analysis furnished in this document are disclosed for information purposes only. They do not amount to any type of recommendation, either general or tailored to the personal circumstances of any person. Unless specifically stated otherwise, all price information is indicative only. No entity of the Pictet Group may be held liable for them, nor do they constitute an offer or an invitation to buy, sell or subscribe to securities or other financial instruments. The information contained herein is the result neither of financial analysis within the meaning of the Swiss Bankers Association's Directives on the Independence of Financial Research, nor of investment research for the purposes of the relevant EU MiFID provisions. All information and opinions expressed in this document were obtained from sources believed to be reliable and in good faith, but no representation or warranty, express or implied, is made as to its accuracy or completeness.

Except for any obligations that any entity of the Pictet Group might have towards the addressee, the addressee should consider the suitability of the transaction to individual objectives and independently assess, with a professional advisor, the specific financial risks as well as legal, regulatory, credit, tax and accounting consequences.

Furthermore, the information, opinions and estimates in this document reflect an evaluation as of the date of initial publication and may be changed without notice. The Pictet Group is not under any obligation to update or keep current the information contained herein. In case this document refers to the value and income of one or more securities or financial instruments, it is based on rates from the customary sources of financial information that may fluctuate. The market value of financial instruments may vary on the basis of economic, financial or political changes, currency fluctuations, the remaining term, market conditions, the volatility and solvency of the issuer or the benchmark issuer. Some investments may not be readily realizable since the market in the securities can be illiquid. Moreover, exchange rates may have a positive or negative effect on the value, the price or the income of the securities or the related investments mentioned in this document. When investing in emerging countries, please note that the political and economic situation in those countries is significantly less stable than in industrialized countries. They are much more exposed to the risks of rapid political change and economic setbacks.

Past performance must not be considered an indicator or guarantee of future performance, and the addressees of this document are fully responsible for any investments they make. No express or implied warranty is given as to future performance. Moreover, forecasts are not a reliable indicator of future performance. The content of this document can only be read and/or used by its addressee. The Pictet Group is not liable for the use, transmission or

exploitation of the content of this document. Therefore, any form of reproduction, copying, disclosure, modification and/or publication of the content is under the sole liability of the addressee of this document, and no liability whatsoever will be incurred by the Pictet Group. The addressee of this document agrees to comply with the applicable laws and regulations in the jurisdictions where they use the information reproduced in this document.

This marketing publication is issued by Banque Pictet & Cie SA. This marketing publication and its content may be cited provided that the source is indicated. All rights reserved. Copyright 2023.

Distributor: Bank Pictet & Cie (Europe) AG, London branch ("Pictet London Branch")

This is a marketing communication distributed by Pictet London Branch.

This document sets forth neither a personal recommendation tailored to the needs, objectives and financial situation of any individual or company (investment advice as defined in the Financial Conduct Authority's Handbook of rules and guidance (the "FCA Handbook")), nor the results of investment research within the meaning of the FCA Handbook. Moreover, it does not constitute an offer, or an invitation to buy, sell or subscribe to securities or other financial instruments, nor is it meant as a proposal for the conclusion of any type of agreement. Furthermore, this document should not be considered a suitability report as Pictet London Branch has not received all the necessary information on the recipient to complete its suitability assessment that covers the recipient's knowledge and experience, tolerance to risk, sustainability preferences, if any, investment needs and the recipient's ability to absorb financial risk. Should its addressee decide to proceed to any transaction in relation to a financial product referred to herein, this will be in his sole responsibility, and the

suitability/appropriateness of the transaction and other financial, legal and tax aspects should be assessed by an expert.

Any information contained in this document is disclosed for information purposes only, and neither the producer nor the distributor can be held liable for any fluctuation of the price of the securities. No express or implied warranty is given as to future performance. The opinions expressed reflect an objective evaluation of information available to the general public, such as rates from customary sources of financial information. The market value of securities mentioned may vary on the basis of economic, financial or political changes, the remaining term, market conditions, the volatility and solvency of the issuer or the benchmark issuer. Moreover, exchange rates may have a positive or negative effect on the value, the price or the income of the securities or the related investments mentioned in this document. It is also expressly noted that forecasts are not a reliable indicator of future performance, while past performance is not a reliable indicator of future results.

You shall only take investment decisions when you fully understand the relevant financial product and the involved risks. In particular, the relevant product documentation (such as the issuance program, final terms, prospectus, simplified prospectus and key (investor) information document), as well as Appendix 4: Risk Warnings Relating to Trading in Financial Instruments of the Terms and Conditions of Pictet London Branch, shall be read. Structured products are complex financial products and involve a high degree of risk. The value of structured products depends not only on the performance of the underlying asset(s), but also on the credit rating of the issuer. Furthermore, the investor is exposed to the risk of default of the issuer/guarantor.

In respect of any product documentation, including key information documents of



Packaged Retail and Insurance-based Investment Products ("KIDs"), please note that these may change without notice. You should therefore ensure that you review the latest version of them prior to confirming to Pictet London your decision to invest. If you have been provided with a link to access the respective KID/other product document, you should therefore click on the link immediately before confirming to Pictet London Branch your decision to invest, in order to review the most recent version of the respective KID/other product document. If you have not been provided with a link to access the relevant document, or if you are in any doubt as to what the latest version of the respective KID/other product document is, or where it can be found, please ask your usual Pictet London Branch contact.

Pictet London Branch is not the manufacturer of the product(s) and the KID/other product document is provided by a third party. The KID/other product document is obtained from sources believed to be reliable. Pictet London Branch does not make any guarantee or warranty as to the correctness and accuracy of the data contained in the KID/other product document. Pictet London Branch may not be held liable for an investment decision or other transaction made based on reliance on, or use of, the data contained in the KID/other product document.

By subscribing to the product(s) proposed herein, you acknowledge that you have (i) received, in good time, read and understood any relevant documentation linked to the product(s), including, as the case may be, the respective KID/other product document; (ii) taken note of the product(s) restrictions; and (iii) meet the applicable subjective and objective eligibility conditions to invest in the product(s).

Pictet London Branch may, if necessary, rely on these acknowledgements and receive your orders, to transmit them to another professional, or to execute them, according

to the relevant clauses of your mandate, as well as the Terms and Conditions of Pictet London Branch.

The content of this document shall only be read and/or used by its addressee. Any form of reproduction, copying, disclosure, modification and/or publication in any form or by any means whatsoever is not permitted without the prior written consent of Pictet London Branch and no liability whatsoever will be incurred by Pictet London Branch. The addressee of this document agrees to comply with the applicable laws and regulations in the jurisdictions where they use the information provided in this document.

Pictet London Branch is a branch of Bank Pictet & Cie (Europe) AG. Bank Pictet & Cie (Europe) AG is a credit institution incorporated in Germany and registered with the Handelsregister, the German Commercial Register under the no. HRB 131080. Its head office is at Neue Mainzer Str. 1, 60311 Frankfurt am Main, Germany. Bank Pictet & Cie (Europe) AG is authorised and regulated by the Bundesanstalt für Finanzdienstleistungsaufsicht, the German Federal Financial Supervisory Authority (BaFIN)

Pictet London Branch is registered as a UK establishment with Companies House (establishment number BR016925) and its UK establishment office address is Stratton House, 6th Floor, 5 Stratton Street, London W1J 8LA. Authorised by the Prudential Regulation Authority (PRA) and subject to regulation by the Financial Conduct Authority (FCA) and limited regulation by the Prudential Regulation Authority. Details about the extent of our regulation by the Prudential Regulation Authority are available from us on request.

Distributors: Bank Pictet & Cie (Asia) Ltd ("BPCAL") in Singapore and/or Banque Pictet & Cie SA, Hong Kong Branch ("Pictet HK Branch") in Hong Kong.

The information, tools and material presented in this document are provided for information purposes only and are not to be used or considered as an offer, an invitation to offer or solicitation to buy, sell or subscribe for any securities, commodities, derivatives, (in respect of Singapore only) futures, or other financial instruments (collectively referred to as "Investments") or to enter into any legal relations, nor as advice or recommendation with respect to any Investments. This document is intended for general circulation and it is not directed at any particular person. This document does not have regard to the specific investment objectives, financial situation and/or the particular needs of any recipient of this document. Investors should seek independent financial advice regarding the appropriateness of investing in any Investments or adopting any strategies discussed in this document, taking into account the specific investment objectives, financial situation or particular needs of the investor, before making a commitment to invest.

BPCAL/Pictet HK Branch has not taken any steps to ensure that the Investments referred to in this document are suitable for any particular investor, and accepts no fiduciary duties to any investor in this regard, except as required by applicable laws and regulations. Furthermore, BPCAL/Pictet HK Branch makes no representations and gives no advice concerning the appropriate accounting treatment or possible tax consequences of any Investment. Any investor interested in buying or making any Investment should conduct its own investigation and analysis of the Investment and consult with its own professional adviser(s) as to any Investment including the risks involved.

This document is not to be relied upon in substitution for the exercise of independent judgment. The value and income of any Investment mentioned in this document may fall as well rise. The market value may be affected by, amongst other things, changes in economic, financial,

political factors, time to maturity, market conditions and volatility, and the credit quality of any issuer or reference issuer. Furthermore, foreign currency rates of exchange may have a positive or adverse effect on the value, price or income of any Investment mentioned in this document. Accordingly, investors must be willing and able to assume all risks and may receive back less than originally invested.

Past performance should not be taken as an indication or guarantee of future performance and no representation or warranty, expressed or implied, is made by BPCAL/Pictet HK Branch regarding future performance.

This document does not constitute the investment policy of BPCAL/Pictet HK Branch, or an investment recommendation, and merely contains the different assumptions, views and analytical methods of the analysts who prepared them. Furthermore, the information, opinions and estimates expressed herein reflect a judgment at its original date of publication and are subject to change without notice and without any obligation on BPCAL/Pictet HK Branch to update any of them. BPCAL/Pictet HK Branch may have issued or distributed other reports or documents that are inconsistent with, and reach different conclusions from, the information presented in this document.

While the information and opinions presented herein are from sources believed to be reliable, BPCAL/Pictet HK Branch is not able to, and do not make any representation or warranty as to its accuracy or completeness. Accordingly, BPCAL/Pictet HK Branch accepts no liability for loss arising from the use of or reliance on this document presented for information purposes only. BPCAL/Pictet HK Branch reserves the right to act upon or use any of the information in this document at any time, including before its publication herein.

BPCAL/Pictet HK Branch and its affiliates (or employees thereof) may or may not have long or short positions in, and buy or sell, or otherwise have

interest in, any of the Investments mentioned herein, and may or may not have relationships with the issuers of or entities connected with Investments mentioned in this document. BPCAL/Pictet HK Branch and their affiliates (or employees thereof) may act inconsistently with the information and/or opinions presented in this document.

The information used to prepare this document and/or any part of such information, may have been provided or circulated to employees and/or one or more clients of BPCAL/Pictet HK Branch before this document was received by you and such information may have been acted upon by such recipients or by BPCAL/Pictet HK Branch.

This document is provided solely for the information of the intended recipient only and should not be reproduced, published, circulated or disclosed in whole or in part to any other person without the prior written consent of BPCAL/Pictet HK Branch.

#### Singapore

This document is not directed to, or intended for distribution, publication to or use by, persons who are not accredited investors, expert investors or institutional investors as defined in section 4A of the Securities and Futures Act 2001 ("SFA") or any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation or would subject BPCAL and any of its affiliates or related corporations to any prospectus or registration requirements.

BPCAL is a wholesale bank regulated by the Monetary Authority of Singapore ("MAS") under the Banking Act 1970 of Singapore, an exempt financial adviser under the Financial Advisers Act 2001 of Singapore ("FAA") and an exempt capital markets licence holder under the SFA. Please contact BPCAL in Singapore in respect of any matters arising from, or in connection with this document.

#### Hong Kong

This document is not directed to, or intended for distribution, publication to or use by, persons who are not "professional investors" within the meaning of the Securities and Futures Ordinance (Chapter 571 of the Laws of Hong Kong) and any rules made thereunder (the "SFO") or any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to law or regulation or would subject Pictet HK Branch and any of its affiliates or related corporations to any prospectus or registration requirements. If you do not want Pictet HK Branch to use your personal information for marketing purposes, you can request Pictet HK Branch to stop doing so without incurring any charge to you.

In distributing an investment product as agent for a third party service provider, Pictet HK Branch distributes the product for the third party service provider and the product is a product of the third party service provider but not Pictet HK Branch. In respect of an eligible dispute (as defined in the Terms of Reference for the Financial Dispute Resolution Centre in relation to the Financial Dispute Resolution Scheme) arising between Pictet HK Branch and you out of the selling process or processing of the related transaction, Pictet HK Branch is required to enter into a Financial Dispute Resolution Scheme process with you; however any dispute over the contractual terms of the product should be resolved directly between the third party service provider and you.

Banque Pictet & Cie SA is a limited liability company incorporated in Switzerland. It is an authorized institution within the meaning of the Banking Ordinance and a registered institution (CE No.: BMG891) under the SFO carrying on Type 1 (dealing in securities), Type 4 (advising on securities) and Type 9 (asset

management) regulated activities. The registered address of Pictet HK Branch is 9/F., Chater House, 8 Connaught Road Central, Hong Kong.

Warning: The contents of this document have not been reviewed by any regulatory authority in Hong Kong. You are advised to exercise caution in relation to the offer. If you are in any doubt about any of the contents of this document, you should obtain independent professional advice. Please contact Pictet HK Branch in Hong Kong in respect of any matters arising from, or in connection with this document.