Supplemental Listing Document

If you are in any doubt as to any aspect of this document, you should consult your stockbroker or other registered dealer in securities, bank manager, solicitor, accountant or other professional adviser.

Application has been made to the Singapore Exchange Securities Trading Limited (the "**SGX-ST**") for permission to deal in and for quotation of the Certificates (as defined below). The SGX-ST takes no responsibility for the contents of this document, makes no representation as to its accuracy or completeness and expressly disclaims any liability whatsoever for any loss howsoever arising from or in reliance upon the whole or any part of the contents of this document. Admission to the Official List of the SGX-ST is not to be taken as an indication of the merits of UBS AG, acting through its London branch, the Index (as defined below) or the Certificates.

20,000,000 European Style Cash Settled Long Certificates

relating to the Dow Jones Industrial Average Net Total Return Index

with a Daily Leverage of 7x

UBS AG (Incorporated with limited liability in Switzerland) acting through its London Branch

Issue Price: S\$1.20 per Certificate

This document is published for the purpose of obtaining a listing of all the above certificates (the "**Certificates**") to be issued by UBS AG (the "**Issuer**") acting through its London branch, and is supplemental to and should be read in conjunction with a base listing document dated 28 June 2022 (the "**Base Listing Document**"), including its supplements and addenda as executed from time to time, for the purpose of giving information with regard to the Issuer and the Certificates. Information relating to the Dow Jones Industrial Average Net Total Return Index (the "**Index**") is contained in this document.

This document does not constitute or form part of any offer, or invitation, to subscribe for or to sell, or solicitation of any offer to subscribe for or to purchase, Certificates or other securities of the Issuer, nor is it calculated to invite, nor does it permit the making of, offers by the public to subscribe for or purchase for cash or other consideration the Certificates or other securities of the Issuer. Restrictions have been imposed on offers and sales of the Certificates and on distributions of documents relating thereto in the United States, the United Kingdom, the European Economic Area, Singapore and Hong Kong (see "Placing and Sale" contained herein).

The Certificates are complex products. You should exercise caution in relation to them. Investors are warned that the price of the Certificates may fall in value as rapidly as it may rise and holders may sustain a total loss of their investment. The price of the Certificates also depends on the supply and demand for the Certificates in the market and the price at which the Certificates is trading at any time may differ from the underlying valuation of the Certificates because of market inefficiencies. It is not possible to predict the secondary market for the Certificates. Although the Issuer and/or any of its affiliates may from time to time purchase the Certificates or sell additional Certificates on the market, the Issuer and/or any of its affiliates are not obliged to do so. Investors should also note that there are leveraged risks because the Certificates integrate a leverage mechanism and the Certificates will amplify the movements in the increase, and in the decrease, of the value of the Index, or the securities or derivatives comprised in the Index and if the investment results in a loss, any such loss will be increased by the leverage factor of the Certificates. As such, investors could lose more than they would if they had invested directly in the Index, or the securities or derivatives comprised in the Index, or the securities or derivatives comprised directly in the Index.

For the purpose of section 309B(1) of the Securities and Futures Act 2001 of Singapore (the **"SFA**"), the Issuer has determined, and hereby notifies all relevant persons (as defined in section 309A of the SFA) that the Certificates are classified as capital markets products other than prescribed capital markets products¹ and Specified Investment Products (SIPs)², and may only be sold to retail investors with enhanced safeguards, including an assessment of such investors' investment knowledge or experience.

Prospective purchasers should therefore ensure that they understand the nature of the Certificates and carefully study the risk factors set out in the Base Listing Document and pages 5 to 13 of this document before they invest in the Certificates.

Application has been made to the SGX-ST for permission to deal in and for quotation of the Certificates and the SGX-ST has agreed in principle to grant permission to deal in and for quotation of the Certificates. It is expected that dealings in the Certificates will commence on or about 2 November 2022.

As at the date hereof, the Issuer's long term credit rating by Standard & Poor's Credit Market Services Europe Limited is A+, by Moody's Deutschland GmbH is Aa3 and by Fitch Ratings Limited is AA-.

The Issuer is regulated by, among others, the Swiss Federal Banking Commission. In the United Kingdom, it is authorised by the Prudential Regulatory Authority and subject to regulation by the Financial Conduct Authority and limited regulation by the Prudential Regulatory Authority.

1 November 2022

¹ As defined in the Securities and Futures (Capital Markets Products) Regulations 2018.

² As defined in the MAS Notice SFA 04-N12: Notice on the Sale of Investment Products and MAS Notice FAA-N16: Notice on Recommendations on Investment Products.

Subject as set out below, the Issuer accepts full responsibility for the accuracy of the information contained in this document and the Base Listing Document in relation to itself and the Certificates. To the best of the knowledge and belief of the Issuer (which has taken all reasonable care to ensure that such is the case), the information contained in this document and the Base Listing Document for which it accepts responsibility (subject as set out below in respect of the information contained herein with regard to the Index) is in accordance with the facts and does not omit anything likely to affect the import of such information. The information with regard to the Index as set out herein is extracted from publicly available information. The Issuer accepts responsibility only for the accurate reproduction of such information. No further or other responsibility or liability in respect of such information is accepted by the Issuer.

No persons have been authorised to give any information or to make any representation save as contained in this document or otherwise authorised by the Issuer in connection with the Certificates and, if given or made, such information or representations must not be relied upon as having been authorised by the Issuer. Neither the delivery of this document nor any sale made hereunder shall under any circumstances create any implication that there has been no change in the affairs of the Issuer or its subsidiaries and associates since the date hereof.

This document does not constitute an offer or solicitation by or on behalf of the Issuer to purchase or subscribe for any of the Certificates. The distribution of this document and the offering of the Certificates may, in certain jurisdictions, be restricted by law. The Issuer requires persons into whose possession this document comes to inform themselves of and observe all such restrictions. In particular, the Certificates have not been, and will not be, registered under the United States Securities Act of 1933, as amended (the "**Securities Act**"). Subject to certain exceptions, Certificates, or interests therein, may not at any time be offered, sold, resold or delivered, directly or indirectly, in the United States or to, or for the account or benefit of, any U.S. person (as defined in Regulation S under the Securities Act) or to others for offering, sale or resale in the United States or to any such U.S. person. Offers and sales of Certificates, or interests therein, in the United States or to U.S. persons would constitute a violation of United States securities laws unless made in compliance with registration requirements of the Securities Act or pursuant to an exemption therefrom. A further description of certain restrictions on offering and sale of the Certificates and distribution of this document is given in the section headed "Placing and Sale" contained herein.

The SGX-ST has made no assessment of, nor taken any responsibility for, the financial soundness of the Issuer or the merits of investing in the Certificates, nor have they verified the accuracy or the truthfulness of statements made or opinions expressed in this document.

The Issuer and/or any of its affiliates may repurchase Certificates at any time on or after the date of issue and any Certificates so repurchased may be offered from time to time in one or more transactions in the over-the-counter market or otherwise at prevailing market prices or in negotiated transactions, at the discretion of the Issuer and/or any of its affiliates. Investors should not therefore make any assumption as to the number of Certificates in issue at any time.

References in this document to the "**Conditions**" shall mean references to the Terms and Conditions of the European Style Cash Settled Long/Short Certificates contained in the Base Listing Document. Terms not defined herein shall have the meanings ascribed thereto in the Conditions.

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RISK FACTORS

The following risk factors are relevant to the Certificates:-

- (a) investment in Certificates involves substantial risks including market risk, liquidity risk, and the risk that the Issuer will be unable to satisfy its obligations under the Certificates. Investors should ensure that they understand the nature of all these risks before making a decision to invest in the Certificates. You should consider carefully whether Certificates are suitable for you in light of your experience, objectives, financial position and other relevant circumstances. Certificates are not suitable for investors;
- (b) the Certificates constitute direct, general and unsecured contractual obligations of the Issuer and if you purchase the Certificates you are relying upon the creditworthiness of the Issuer and have no rights under the Certificates against any other person. In particular, it should be noted that the Issuer issues a large number of financial instruments, including Certificates, on a global basis and, at any given time, the financial instruments outstanding may be substantial. If you purchase the Certificates you are relying upon the creditworthiness of the Issuer and have no rights under the Certificates against the sponsor of the Index or any companies forming part of the Index to which the Certificates relate. The Issuer has substantially no obligation to a Certificate Holder (as defined in the Conditions) other than to pay amounts in accordance with the terms thereof as set forth herein and in the Base Listing Document. The Issuer does not in any respect underwrite or guarantee the performance of any Certificate. Any profit or loss realised by a Certificate Holder in respect of a Certificate upon exercise or otherwise due to changes in the value of such Certificate or the Index is solely for the account of such Certificate Holder. In addition, the Issuer shall have the absolute discretion to put in place any hedging transaction or arrangement which it deems appropriate in connection with any Certificate or the Index or any securities or derivatives related to the Index. A reduction in the rating, if any, accorded to outstanding debt securities of the Issuer by any one of its rating agencies could result in a reduction in the trading value of the Certificates;
- (c) since the Certificates relate to the level of an index, certain events relating to the Index or Index components may cause adverse movements in the value and the level of the Index or Index components, as a result of which, the Certificate Holders may, in extreme circumstances, sustain a significant loss of their investment if the level of the index has fallen sharply;
- (d) due to their nature, the Certificates can be volatile instruments and may be subject to considerable fluctuations in value. The price of the Certificates may fall in value as rapidly as it may rise due to, including but not limited to, variations in the frequency and magnitude of the changes in the level of the Index, the time remaining to expiry and the creditworthiness of the Issuer;
- (e) given only the futures contracts over the Index (but not the constituents of the Index) are trading during the SGX-ST trading hours, the market price of the Certificates may be affected by the price of such futures contract (which may deviate from the published levels of the Index). Consequentially the market price of the Certificates during SGX-ST trading hours may deviate from the published levels of the Index and/or the Air Bag Trigger Levels (as defined below) during the US trading hours on the same day;
- (f) fluctuations in the Index level or the price of the components of the Index or related securities or derivatives will affect the price of the Certificates but not necessarily in the same magnitude

and direction, therefore, prospective investors intending to purchase Certificates to hedge their market risk associated with investing in the components of the Index or related securities or derivatives which may be specified herein, should recognise the complexities of utilising the Certificates in this manner;

- (g) a Certificate Holder must tender a specified number of Certificates at any one time in order to exercise. Thus, Certificate Holders with fewer than the specified minimum number of Certificates in a particular series will either have to sell their Certificates or purchase additional Certificates, incurring transactions costs in each case, in order to realise their investment;
- (h) if, whilst any of the Certificates remain unexercised, trading in the securities or derivatives relating to or constituting the Index is suspended, trading of options or futures relating to the relevant Index or the PR Index, as the case may be, on any options or futures exchanges is suspended, or options or futures generally on any options and/or futures exchanges on which options or futures relating to the relevant Index or the PR Index are traded is suspended, or if the relevant Index or the PR Index for whatever reason is not calculated, published and disseminated, trading in the Certificates may be suspended for a similar period;
- (i) investors should note that the Issuer's obligations to pay amounts in accordance with the terms thereof as set forth herein shall be discharged by delivery of the aggregate Cash Settlement Amount (if positive) to all Certificate Holders in accordance with the agreement with the Warrant Agent;
- (j) investors should note that in the event of there being a Market Disruption Event (as defined in the Conditions) determination or payment of the Cash Settlement Amount (as defined in the Conditions) may be delayed, all as more fully described in the Conditions;
- (k) certain events relating to the PR Index or the Index or PR Index components or Index components permit the Issuer to make certain determinations in respect of the PR Index or the Index or PR Index components or Index components and thus, permit the Issuer to make certain adjustments or amendments to the Conditions;
- (I) a level for the Index may be published by the Index Sponsor at a time when one or more securities or derivatives comprised in the Index are not trading. If this occurs on a Valuation Date (as defined below) or an Observation Date (as defined below), as the case may be, and there is no Market Disruption Event under the terms of the relevant Certificates then the value of such securities or derivatives may not be included in the closing level of the Index. In addition, certain events relating to the Index (including a material change in the formula or the method of calculating the Index or a failure to publish the Index) permits the Issuer to determine the level of the Index on the basis of the formula or method last in effect prior to such change of formula;
- (m) the Certificates are only exercisable on the expiry date and may not be exercised by Certificate Holders prior to such expiry date. Accordingly, if on such expiry date the Cash Settlement Amount is zero, a Certificate Holder will lose the value of his investment;
- the total return on an investment in any Certificate may be affected by the Hedging Fee Factor (as defined below), Management Fee (as defined below) and Gap Premium (as defined below);
- (o) investors holding their position beyond market close of the SGX-ST should note that they would be required to bear the annualised cost which consists of the Management Fee and Gap Premium, which are calculated daily and applied to the value of the Certificates, as well

as certain costs embedded within the Leverage Strategy (as described below) including the Funding Cost (as defined below) and the Rebalancing Cost (as defined below). Due to the difference in trading hours of the SGX-ST and the Relevant Stock Exchange(s) for the Index, unless investors exit their position within the same SGX-ST trading day, they would bear the annualised costs;

- (p) investors should note that there may be an exchange rate risk where the Cash Settlement Amount may be converted from a foreign currency into Singapore dollars. Exchange rates between currencies are determined by forces of supply and demand in the foreign exchange markets. These forces are, in turn, affected by factors such as international balances of payments and other economic and financial conditions, government intervention in currency markets and currency trading speculation. Fluctuations in foreign exchange rates, foreign political and economic developments, and the imposition of exchange controls or other foreign governmental laws or restrictions applicable to such investments may affect the foreign currency market price and the exchange rate-adjusted equivalent price of the Certificates. Fluctuations in the exchange rate of any one currency may be offset by fluctuations in the exchange rate of other relevant currencies;
- (q) investors should note that there are leveraged risks because the Certificates integrate a leverage mechanism and the Certificates will amplify the movements in the increase, and in the decrease, of the value of the securities or derivatives comprised in the Index and if the investment results in a loss, any such loss will be increased by the leverage factor of the Certificates. As such, investors could lose more than they would if they had invested directly in the securities or derivatives comprised in the Index;
- (r) when held for longer than a day, the performance of the Certificates could be more or less than the leverage factor that is embedded within the Certificates. The performance of the Certificates each day is locked in, and any subsequent returns are based on what was achieved the previous day. This process, referred to as compounding, may lead to a performance difference from 7 times the performance of the securities or derivatives comprised in the Index over a period longer than one day. This difference may be amplified in a volatile market with a sideway trend, where market movements are not clear in direction, whereby investors may sustain substantial losses;
- (s) the Index and the PR Index to which the Certificates relate are only quoted during US trading hours. This means that the Air Bag Mechanism (as defined below) can only be triggered when the SGX-ST is not open for trading. There is therefore a specific risk that overnight, investors in the Certificates incur a significant or even entire loss of the amounts invested in the Certificates, without being able to exit their investments in the Certificates;
- (t) the Leverage Strategy underlying the Certificates refers to both the Index and the PR Index. Index providers generally publish several versions of the same index, with various mechanisms to take into account the impact of dividends distributed by index constituents. Under the Certificates, "PR Index" refers to a so-called "price return" version of the Index, which does not take into account the ordinary dividends distributed by the constituents of the index. The Index, on the other hand, considers a theoretical reinvestment of the dividends distributed by the Index constituents, such reinvestment being with or without taking into account a theoretical withholding tax. Although the Index and the PR Index should exhibit the same intraday performance, investors in the Certificates should note that the Issuer cannot guarantee that they will always correspond. This falls under the responsibility of the index sponsor;

- investors should note that the Air Bag Mechanism reduces the impact on the Leverage Strategy if the PR Index falls further, but will also maintain a reduced exposure to the Index in the event the Index starts to rise after the Air Bag Mechanism is triggered, thereby reducing its ability to recoup losses;
- (v) there is no assurance that the Air Bag Mechanism will prevent investors from losing the entire value of their investment. In particular, a total loss may occur, (i) if the Index or the PR Index loses approximately 14% or more of its value within a short period of time or (ii) there is an approximately 14% or greater gap between the previous day closing level and the opening level of the Index or the PR Index the following trading day of the Relevant Stock Exchange(s) for the Index. Investors should note that the Air Bag Mechanism may only be triggered during the trading of the Relevant Stock Exchange(s) for the Index. Investors may refer to pages 42 to 43 of this document for more information;
- (w) investors should note that the Certificates are issued over an Index and/or a PR Index the constituents of which are listed on an exchange with different trading hours from the SGX-ST. There may be a risk arising from the time difference between the calculation hours of the Index and/or PR Index and the trading hours of the SGX-ST. As such, (i) the Index calculation may not be available during the trading of the Certificates on SGX-ST; (ii) Air Bag Mechanism may be triggered during the calculation hours of the Index and/or PR Index, which would not be during SGX-ST trading hours; and (iii) the trigger of an Air Bag Mechanism, when the Certificates are not open for trading, will lead to a different Leverage Strategy Level, i.e. the value of the Certificates subsequently during the SGX-ST trading hours will be based on a different Leverage Strategy Level reference for the purpose of the Leveraged Return calculation compared to a case where no Air Bag Mechanism would have been triggered. There is therefore a specific risk that investors in the Certificates may incur a significant or even entire loss of the amounts invested in the Certificates, without being able to exit their investments in the Certificates. Investors may refer to pages 38 to 43 of this document for more information;
- (x) certain events may, pursuant to the terms and conditions of the Certificates, trigger (A) the implementation of methods of adjustment or (B) the early termination of the Certificates. The Issuer will give the investors reasonable notice of any early termination. If the Issuer terminates the Certificates early, then the Issuer will, if and to the extent permitted by applicable law, pay an amount to each Certificate Holder in respect of each Certificate held by such holder equal to the fair market value of the Certificate less the cost to the Issuer in its sole and absolute discretion. The performance of this commitment shall depend on (A) general market conditions and (B) the liquidity conditions of the underlying instrument(s) and, as the case may be, of any other hedging transactions. Investors should note that the amount repaid by the Issuer may be less than the amount initially invested. Investors may refer to Condition 11 on pages 29 to 30 of this document for more information;
- (y) investors should note that it is not possible to predict the price at which the Certificates will trade in the secondary market or whether such market will be liquid or illiquid. To the extent Certificates of a particular issue are exercised, the number of Certificates of such issue outstanding will decrease, resulting in a diminished liquidity for the remaining Certificates of such issue. A decrease in the liquidity of an issue of Certificates may cause, in turn, an increase in the volatility associated with the price of such issue of Certificates. The Issuer may, but is not obligated to, at any time, purchase Certificates at any price in the open market or by tender or private agreement. Any Certificates so purchased may be held or resold or

surrendered for cancellation. To the extent that an issue of Certificates becomes illiquid, an investor may have to exercise such Certificates to realise value;

- (z) two or more risk factors may simultaneously have an effect on the value of a Certificate such that the effect of any individual risk factor may not be predicted. No assurance can be given as to the effect any combination of risk factors may have on the value of a Certificate;
- (aa) investors should note that they may be required to pay stamp taxes or other documentary charges in accordance with the laws and practices of the country where the Certificates are transferred. Investors who are in any doubt as to their tax position should consult their own independent tax advisers. In addition, investors should be aware that tax regulations and their application by the relevant taxation authorities change from time to time. Accordingly, it is not possible to predict the precise tax treatment which will apply at any given time. Investors should refer to the Taxation Section in the Base Listing Document;
- (bb) investors should note that the Issuer may enter into discount, commission or fee arrangements with brokers and/or any of its subsidiaries or affiliates with respect to the primary or secondary market in the Certificates. The arrangements may result in the benefit to investors in Certificates buying and selling Certificates through nominated brokers by reducing or eliminating the commission payable by such Certificate Holders. In the event that the commission payable by Certificate Holders is eliminated, fee arrangements between the Issuer and brokers and/or any of its subsidiaries or affiliates will continue to apply. Investors in the Certificates should note that any brokers with whom the Issuer has a commission arrangement does not, and cannot be expected to, deal exclusively in the Certificates, therefore any broker and/or any of its subsidiaries or affiliates may from time to time engage in transactions involving the securities or derivatives related to the Index and/or structured products of other issuers over the same underlying Index as the Certificates for their proprietary accounts and/or accounts of their clients. The fact that the same broker may deal simultaneously for different clients in competing products in the market place may affect the value of the Certificates and present certain conflicts of interests;
- (cc) various potential and actual conflicts of interest may arise from the overall activities of the Issuer and any of its subsidiaries and affiliates.

The Issuer and any of its subsidiaries and affiliates are diversified financial institutions with relationships in countries around the world. These entities engage in a wide range of commercial and investment banking, brokerage, funds management, hedging transactions and investment and other activities for their own account or the account of others. In addition, the Issuer and any of its subsidiaries and affiliates, in connection with their other business activities, may possess or acquire material information about the securities or derivatives related to the Index, and/or the Index. Such activities and information may involve or otherwise affect issuers of the securities or derivatives related to the Index, and/or the Index in a manner that may cause consequences adverse to the Certificate Holders or otherwise create conflicts of interests in connection with the issue of Certificates by the Issuer. Such actions and conflicts may include, without limitation, the exercise of voting power, the purchase and sale of securities, financial advisory relationships and exercise of creditor rights. The Issuer and any of its subsidiaries and affiliates have no obligation to disclose such information about the securities or derivatives related to the Index, and/or the Index or such activities. The Issuer and any of its subsidiaries and affiliates and their officers and directors may engage in any such activities without regard to the issue of Certificates by the Issuer or the effect that such activities may directly or indirectly have on any Certificate;

- (dd) in the ordinary course of their business, including without limitation in connection with the Issuer or its appointed designated market maker's market making activities, the Issuer and any of its respective subsidiaries and affiliates may effect transactions for their own account or for the account of their customers and hold long or short positions in the components of the Index or related securities or derivatives. In addition, in connection with the offering of any Certificates, the Issuer and any of its respective subsidiaries and affiliates may enter into one or more hedging transactions with respect to the components of the Index or related securities or derivatives. In connection with such hedging or market-making activities or with respect to proprietary or other trading activities by the Issuer and any of its respective subsidiaries and its affiliates, the Issuer and any of its respective subsidiaries and affiliates may enter into transactions in the components of the Index or related securities or derivatives, the Issuer and any of its respective subsidiaries and its affiliates, the Issuer and any of its respective subsidiaries and its affiliates, the Issuer and any of its respective subsidiaries or derivatives which may affect the market price, liquidity or value of the Certificates and which may affect the interests of Certificate Holders;
- (ee) the value of the Certificates depends on the Leverage Strategy performance built in the Certificate. The Calculation Agent will make the Leverage Strategy last closing level and a calculation tool available to the investors on a website;
- (ff) certain risks relating to the Issuer's operating environment and strategy, including those as set out in Appendix 2 of the Base Listing Document, may impact the Issuer's ability to execute its strategy and directly affect its business activities, financial condition, results of operations and prospects. As a broad-based international financial services firm, the Issuer is inherently exposed to risks that become apparent only with the benefit of hindsight, risks of which it is not presently aware or which it currently does not consider to be material could also materially affect its business activities, financial condition, results of operations and prospects. The sequence in which the risk factors are set out in Appendix 2 of the Base Listing Document is not indicative of their likehood of occurrence or the potential magnitude of their financial consequences;
- (gg) as the Certificates are represented by a global warrant certificate which will be deposited with The Central Depository (Pte) Limited ("**CDP**"):-
 - (i) investors should note that no definitive certificate will be issued in relation to the Certificates;
 - (ii) there will be no register of Certificate Holders and each person who is for the time being shown in the records maintained by CDP as entitled to a particular number of Certificates by way of interest (to the extent of such number) in the global warrant certificate in respect of those Certificates represented thereby shall be treated as the holder of such number of Certificates;
 - (iii) investors will need to rely on any statements received from their brokers/custodians as evidence of their interest in the Certificates; and
 - (iv) notices to such Certificate Holders will be published on the website of the SGX-ST. Investors will need to check the website of the SGX-ST regularly and/or rely on their brokers/custodians to obtain such notices;
- (hh) Generally, investing in the Certificates may involve risks related to the discontinuance, changes or adjustments to benchmarks generally

Discontinuance of, or changes to, benchmarks may require adjustments to the Issuer's agreements, systems and processes. The interbank offered rate(s) ("**IBOR**") and other interest rate, equity, commodity, foreign exchange and other types of indices which are

deemed to be "benchmarks", are the subject of national, international and other regulatory guidance and proposals for reform. Some of these reforms are already effective whilst others are still to be or may be implemented. These reforms may cause such benchmarks to perform differently than in the past, to disappear entirely, or have other consequences which cannot be predicted. Any such consequence could have a material adverse effect on any Certificates referencing such a benchmark. Investors should consult their own independent advisers and make their own assessment about the potential risks or any of the international or national reforms in making any investment decision with respect to any Certificates referencing a benchmark; and

(ii) United States federal income taxation

Section 871(m). A 30% withholding tax (which may be reduced by an applicable income tax treaty) is imposed under Section 871(m) of the U.S. Internal Revenue Code (the "**Code**") on certain "dividend equivalents" paid or deemed paid to a non-U.S. holder with respect to a "specified equity-linked instrument" that references one or more dividend-paying U.S. equity securities or indices containing U.S. equity securities. The withholding tax can apply even if the instrument does not provide for payments that reference dividends. Treasury regulations provide that the withholding tax applies to all dividend equivalents paid or deemed paid on specified equity-linked instruments that have a delta of one ("**delta-one specified equity-linked instruments**") issued after 2016 and to all dividend equivalents paid or deemed paid on all other specified equity-linked instruments issued after 2018. However, the U.S. Internal Revenue Service ("**IRS**") has issued guidance that states that the Treasury and the IRS intend to amend the effective dates of the Treasury regulations to provide that withholding on dividend equivalents paid or deemed paid will not apply to specified equity-linked instruments that are not delta-one specified equity-linked instruments and are issued before January 1, 2023.

In addition, the dividend equivalent withholding tax generally will not apply to specified equitylinked instruments that reference certain "qualified indexes" (as defined under U.S. Treasury Department regulations). A qualified index is generally a passive index that is based on a diverse basket of publicly-traded securities and that are widely used by numerous market participants.

Based on our determination, as of the date of this document, that the Index referenced by the Certificates is a qualified index and that the Certificates are not "delta-one" with respect to any underlying asset or any underlying constituents, we believe that the Certificates should not be delta-one specified equity-linked instruments and thus should not be subject to withholding on dividend equivalents. Our determination is not binding on the IRS, and the IRS may disagree with this determination. Furthermore, the application of Section 871(m) of the Code will depend on determinations on the date the terms of the Certificates are set or when such Certificates are issued.

Nevertheless, Certificates issued subsequent to the initial issuance at a time when the level of the Index is significantly greater than the Strike Level may be treated as delta one specified equity-linked instruments. In addition, it is possible that, after the date the terms are set and the Certificates are issued, the Certificates could be deemed to be reissued for U.S. federal income tax purposes upon the occurrence of certain events affecting the Index, the underlying Index constituents or the Certificates, and following such occurrence the Certificates could be treated as delta-one specified equity-linked instruments that are subject to withholding on dividend equivalents. It is also possible that withholding tax or other tax under Section 871(m) of the Code could apply to the Certificates under these rules if a non-U.S. holder enters, or

has entered, into certain other transactions in respect of the underlying Index, any underlying Index constituents or the Certificates. A non-U.S. holder that enters, or has entered, into other transactions in respect of the underlying Index, any underlying Index constituents or the Certificates should consult its tax advisor regarding the application of Section 871(m) of the Code to the Certificates in the context of its other transactions. If withholding pursuant to Section 871(m) of the Code is required or made by a withholding agent, UBS AG, UBS Group AG or any other person will not be required under the terms of the Certificates to pay additional amounts as a result of the withholding.

Because of the uncertainty regarding the application of the 30% withholding tax on dividend equivalents to the Certificates, you are urged to consult your tax advisor regarding the potential application of Section 871(m) of the Code and the 30% withholding tax to an investment in the Certificates.

Foreign Account Tax Compliance Act. The Foreign Account Tax Compliance Act ("**FATCA**") was enacted on March 18, 2010, and imposes a 30% U.S. withholding tax on "withholdable payments" (i.e., certain U.S.-source payments, including interest (and original issue discount), dividends, other fixed or determinable annual or periodical gain, profits, and income, and on the gross proceeds from a disposition of property of a type which can produce U.S.-source interest or dividends) and "passthru payments" (i.e., certain payments attributable to withholdable payments) made to certain foreign financial institutions (and certain of their affiliates) unless the payee foreign financial institution agrees (or is required), among other things, to disclose the identity of any U.S. individual with an account of the institution (or the relevant affiliate) and to annually report certain information about such account. FATCA also requires withholding agents making withholdable payments to certain foreign entities that do not disclose the name, address, and taxpayer identification number of any substantial U.S. owners (or do not certify that they do not have any substantial U.S. owners) to withhold tax at a rate of 30%. Under certain circumstances, a holder may be eligible for refunds or credits of such taxes.

Pursuant to final and temporary Treasury regulations and other IRS guidance, the withholding and reporting requirements under FATCA will generally apply to certain "withholdable payments", will not apply to gross proceeds on a sale or disposition, and will apply to certain foreign passthru payments only to the extent that such payments are made after the date that is two years after final regulations defining the term "foreign passthru payment" are published. While Certificates issued on or prior to such date may be grandfathered for purposes of FATCA withholding on foreign passthru payments unless materially modified after such date or classified as equity for U.S. federal income tax purposes, if additional Certificates that are not distinguishable from previously issued Certificates are issued after the expiration of the grandfathering period and are subject to withholding under FATCA, then withholding agents may treat all Certificates, including the Certificates offered prior to the expiration of the grandfathering period, as subject to withholding under FATCA.

If withholding is required, we (or the applicable paying agent) will not be required to pay additional amounts with respect to the amounts so withheld. Foreign financial institutions and non-financial foreign entities located in jurisdictions that have an intergovernmental agreement with the U.S. governing FATCA may be subject to different rules.

The U.S. federal income tax discussion set forth above is included for general information only and may not be applicable depending upon an investor's particular situation. Prospective investors should consult their own tax advisers with respect to the tax consequences to them of the ownership and disposition of the Certificates and

any related transactions, including the tax consequences under state, local, non-U.S. and other tax laws and the possible effects of changes in U.S. federal or other tax laws.

The above information is of a general nature only and is not intended to be a comprehensive description of all potential relevant tax considerations. We do not provide any tax advice for the Certificates. Tax treatment depends on the individual circumstances of each client and clients must therefore seek their own tax advice from a reputable service provider. Prior to entering into a transaction you should consult with your own legal, regulatory, tax, financial and accounting advisors to the extent you consider it necessary, and make your own investment, hedging and trading decisions (including decisions regarding the suitability of this transaction) based upon your own judgment and advice from those advisors you consider necessary.

TERMS AND CONDITIONS OF THE CERTIFICATES

The following are the terms and conditions of the Certificates and should be read in conjunction with, and are qualified by reference to, the other information set out in this document and the Base Listing Document.

The Conditions are set out in the section headed "Terms and Conditions of the European Style Cash Settled Long/Short Certificates" in the Base Listing Document. For the purposes of the Conditions, the following terms shall have the following meanings:

Certificates:	20,000,000 European Style Cash Settled Long Certificates relating to the Index
ISIN:	CH1169124216
Index/Underlying:	Dow Jones Industrial Average Net Total Return Index (RIC: .DJINR)
Index Sponsor:	S&P Dow Jones Indices LLC
Calculation Agent:	UBS AG acting through its London Branch
PR Index:	Dow Jones Industrial Average Price Index as published on Thomson Reuters page .DJI or any successor page
Strike Level:	Zero
Daily Leverage:	7x (within the Leverage Strategy as described below)
Notional Amount per Certificate:	SGD 1.20
Management Fee (p.a.) ³ :	0.40%
Gap Premium (p.a.) ⁴ :	5.80%, is a hedging cost against extreme market movements beyond US market close on the same trading day.
Funding Cost⁵:	The annualised costs of funding, referencing a publically published base rate plus spread.
Rebalancing Cost ⁵ :	The transaction costs (if applicable), computed as a function of leverage and daily performance of the Index.
Launch Date:	25 October 2022
Closing Date:	1 November 2022
Expected Listing Date:	2 November 2022

³ Please note that the Management Fee is calculated on a 360-day basis and may be increased up to a maximum of 3% p.a. on giving one month's notice to investors. Any increase in the Management Fee will be announced on the SGXNET. Please refer to "Fees and Charges" below for further details of the fees and charges payable and the maximum of such fees as well as other ongoing expenses that may be borne by the Certificates.

⁴ Please note that the Gap Premium is calculated on a 360-day basis.

⁵ These costs are embedded within the Leverage Strategy.

Last Trading Date:	The date falling 5 Business Days immediately preceding the Expiry Date, currently being 15 September 2025
Expiry Date:	The Business Day immediately following the Valuation Date, currently being 22 September 2025
Board Lot:	100 Certificates
Valuation Date:	19 September 2025 or if such day is not an Index Business Day, the immediately following Index Business Day and subject to the Market Disruption Event provisions.
	The " Index Business Day " means a day on which the value of the Index is published by the Index Sponsor or, as the case may be, the successor Index Sponsor and the Relevant Stock Exchange(s) for the Index is (are) open for dealings in the United States of America during its (their) normal trading hours.
Exercise:	The Certificates may only be exercised on the Expiry Date or if the Expiry Date is not a Business Day, the immediately preceding Business Day, in a Board Lot or integral multiples thereof. Certificate Holders shall not be required to deliver an exercise notice. Exercise of Certificates shall be determined by whether the Cash Settlement Amount (less any Exercise Expenses) is positive. If the Cash Settlement Amount (less any Exercise Expenses) is positive, all Certificates shall be deemed to have been automatically exercised at 5:00 p.m. (Singapore time) on the Expiry Date or if the Expiry Date is not a Business Day, the immediately preceding Business Day. The Cash Settlement Amount less the Exercise Expenses in respect of the Certificates shall be paid in the manner set out in Condition 4(c) of the Conditions. In the event the Cash Settlement Amount (less any Exercise Expenses) is zero, all Certificates shall be deemed to have expired at 5:00 p.m. (Singapore time) on the Expiry Date or if the Expiry Date or if the Expire Date is not a Business Day. In the event the Cash Settlement Amount (less any Exercise Expenses) is zero, all Certificates shall be deemed to have expired at 5:00 p.m. (Singapore time) on the Expiry Date or if the Expire Date is not a Business Day, the immediately preceding Business Day, and Certificate Holders shall not be entitled to receive any payment from the Issuer in respect of the Certificates.
Cash Settlement Amount:	In respect of each Certificate, shall be an amount (if positive) payable in the Settlement Currency equal to:
	Closing Level multiplied by the Notional Amount per Certificate
	Please refer to the "Information relating to the European Style Cash Settled Long Certificates" section on pages 34 to 43 of this document for examples and illustrations of the calculation of the Cash Settlement Amount.
Hedging Fee Factor:	In respect of each Certificate, shall be an amount calculated as: Product (for t from Expected Listing Date to Valuation Date) of $(1 - Management Fee x (ACT (t-1;t) ÷ 360)) x (1 - Gap Premium (t-1) x (ACT (t-1;t) ÷ 360)), where:$

	 "t" refers to "Observation Date" which means each Index Business Day (subject to Market Disruption Event) from (and including) the Index Business Day immediately preceding the Expected Listing Date to the Valuation Date; and ACT (t-1;t) means the number of calendar days between the Index Business Day immediately preceding the Observation Date (which is "t-1") (included) and the Observation Date (which is "t") (excluded). Please refer to the "Information relating to the European Style Cash Settled Long Certificates" section on pages 34 to 43 of this document for examples and illustrations of the calculation of the Hedging Fee Factor.
Closing Level:	In respect of each Certificate, shall be an amount payable in the Settlement Currency equal to: $\left(\frac{\text{Final Reference Level } \times \text{Final Exchange Rate}}{\text{Initial Reference Level } \times \text{Initial Exchange Rate}} - \text{Strike Level}\right) \times \text{Hedging Fee Factor}$
Initial Reference Level:	1,000
Final Reference Level:	The closing level of the Leverage Strategy (as described below) on the Valuation Date
	The calculation of the closing level of the Leverage Strategy is set out in the "Specific Definitions relating to the Leverage Strategy" section on pages 18 to 22 below.
Initial Exchange Rate:	1.4114
Final Exchange Rate:	The rate for the conversion of United States Dollar to Singapore Dollar as at 5:00pm (Singapore Time) on the Valuation Date as shown on Reuters, provided that if the Reuters service ceases to display such information, as determined by the Issuer by reference to such source(s) as the Issuer may reasonably determine to be appropriate at such a time.
Air Bag Mechanism:	The "Air Bag Mechanism" refers to the mechanism built in the Leverage Strategy and which is designed to reduce the Leverage Strategy exposure to the Index during extreme market conditions. If the PR Index falls by 10% or more ("Air Bag Trigger Level") during the trading day of the Relevant Stock Exchange(s) for the Index (which represents approximately 70% loss after a 7 times leverage), the Air Bag Mechanism is triggered and the Leverage Strategy is adjusted intra-day during the trading hours of the Relevant Stock Exchange(s) for the Index. The Air Bag Mechanism reduces the impact on the Leverage Strategy if the PR Index falls further, but will also maintain a reduced exposure to the Index in the event the Index starts to rise after the Air Bag Mechanism is triggered, thereby reducing its ability to recoup losses.
	valued below zero.

Please refer to the "Air Bag Mechanism" section on page 22 below and the "Description of Air Bag Mechanism" section on pages 40 to 41 of this document for further information of the Air Bag Mechanism.

Certificate Holders will be required to pay all charges which are

Each exchange or quotation system where trading has a material effect (as determined by the Calculation Agent) on the overall market for options or futures relating to the Index or the PR Index

A day (excluding Saturdays, Sundays and public holidays) on which

the SGX-ST is open for dealings in Singapore during its normal

trading hours and banks are open for business in Singapore.

The Central Depository (Pte) Limited ("CDP")

incurred in respect of the exercise of the Certificates.

- Adjustments and Extraordinary Events: The Issuer has the right to make adjustments to the terms of the Certificates if certain events including the following take place: if the Index or the PR Index, as the case may be, is calculated and published by a successor to the Index Sponsor, if the Index or the PR Index, as the case may be, is replaced or modified or if the Index Sponsor fails to calculate and publish the Index or the PR Index on or prior to the Valuation Date (other than as a result of a Market Disruption Event) (as more specifically set out in the terms and conditions of the Certificates). For the avoidance of doubt, no notice will be given if the Issuer determines that adjustments will not be made.
- Reference Currency: United States Dollar
- Settlement Currency: Singapore Dollar
- Exercise Expenses:
- Relevant Stock Exchange for The Singapore Exchange Securities Trading Limited ("**SGX-ST**") the Certificates:
- Relevant Stock Exchange(s) for New York Stock Exchange ("**NYSE**") and National Association of Securities Dealers Automated Quotations (NASDAQ)
- Related Exchange:
- Business Day:
- Warrant Agent:

Clearing System:

- - CDP
- Fees and Charges:

Normal transaction and brokerage fees shall apply to the trading of the Certificates on the SGX-ST. Investors should note that they may be required to pay stamp taxes or other documentary charges in accordance with the laws and practices of the country where the Certificates are transferred. Investors who are in any doubt as to their tax position should consult their own independent tax advisers. In addition, investors should be aware that tax regulations and their application by the relevant taxation authorities change from time to time. Accordingly, it is not possible to predict the precise tax treatment which will apply at any given time. Investors holding position beyond market close of the SGX-ST would also be required to bear the Management Fee and Gap Premium, which are calculated daily and applied to the value of the Certificates, as well as certain costs embedded within the Leverage Strategy including the Funding Cost and the Rebalancing Cost. The Management Fee may be increased up to a maximum of 3% p.a. on giving one month's notice to investors in accordance with the terms and conditions of the Certificates. Any increase in the Management Fee will be announced on the SGXNET. Due to the difference in trading hours of the SGX-ST and the Relevant Stock Exchange(s) for the Index, unless investors exit their position within the same SGX-ST trading day, they would bear such annualised costs.

Further Information: Please refer to the website at <u>http://dlc.ubs.com</u> for more information on the theoretical closing price of the Certificates on the previous trading day, the closing level of the Index on the previous trading day, the Air Bag Trigger Level for each trading day and the Management Fee and Gap Premium.

Specific Definitions relating to the Leverage Strategy

Description of the Leverage Strategy

The Leverage Strategy is designed to track a 7 times daily leveraged exposure to the Index.

At the end of each trading day of the Index, the exposure of the Leverage Strategy to the Index is reset within the Leverage Strategy in order to retain a daily leverage of 7 times the performance of the Index (excluding costs) regardless of the performance of the Index on the preceding day. This mechanism is referred to as the Daily Reset.

The Leverage Strategy incorporates an air bag mechanism which is designed to reduce exposure to the Index during extreme market conditions, as further described below.

Leverage Strategy Formula

LSL_t means, the Leverage Strategy Level as at the Leverage Reset Time (t), calculated in accordance with the following formulae:

On Leverage Reset Time (1):

 $LSL_1 = 1000$

On each subsequent Leverage Reset Time (t):

$$LSL_{t} = Max \left[LSL_{r(t)} \times \left(1 + LR_{r(t),t} - FC_{r(t),t} - RC_{r(t),t} \right), 0 \right]$$

Leverage Reset means

Time (t)

1) the scheduled closing time for the Relevant Stock Exchange(s) for the Index (or any successor thereto) on any Observation Date; and

2) end of any Intraday Restrike Event Observation Period.

Leverage Reset Time (1) is the scheduled close for the Relevant Stock Exchange(s) for the Index on Issue Date.

- Leverage Reset
 means the Leverage Reset Time immediately preceding the Leverage Reset

 Time r(t)
 Time (t).
 - $LR_{r(t),t}$ means the Leveraged Return of the Index between Leverage Reset Time r(t) and Leverage Reset Time (t), calculated as follows :

$$LR_{r(t),t} = Leverage \times \left(\frac{NTR_t}{NTR_{r(t)}} - 1\right)$$

 $\label{eq:rct} FC_{r(t),t} \qquad \mbox{means, the Funding Cost between the Leverage Reset Time r(t) (included)} \\ \mbox{and the Leverage Reset Time (t) (excluded), calculated as follows :} \\$

If the Leverage Reset Time r(t) is at the scheduled closing time for the Relevant Stock Exchange(s) for the Index (or any successor thereto) on any Observation Date,

$$FC_{r(t),t} = (Leverage - 1) \times \frac{Rate_{r(t)} \times ACT(r(t), t)}{DayCountBasisRate}$$

Otherwise, $FC_{r(t),t} = 0$

 $RC_{r(t),t}$ means the Rebalancing Cost of the Leverage Strategy as at Leverage Reset Time (t), calculated as follows:

$$\textbf{RC}_{r(t),t} = \text{Leverage} \times (\text{Leverage} - 1) \times \left(\left| \frac{\text{NTR}_t}{\text{NTR}_{r(t)}} - 1 \right| \right) \times \text{TC}$$

TC means the Transaction Costs applicable as determined by the Calculation Agent (including Stamp Duty and any other applicable taxes, levies and costs which may be levied on the stock transactions on the Relevant Stock Exchange(s) for the Index by the applicable regulatory authorities from time to time) that are currently equal to :

0.02%

7

"Stamp Duty" refers to the applicable rate of stamp duty on the stock transactions in the jurisdiction of the Relevant Stock Exchange(s) for the Index, which may be changed by the applicable regulatory authorities from time to time.

- Leverage
 - NTR_t means the level of the Index as of Leverage Reset Time (t) computed as follows, subject to the adjustments and provisions of the Conditions:

If the Leverage Reset Time (t) is at the scheduled closing time for the Relevant Stock Exchange(s) for the Index (or any successor thereto) on any Observation Date,

 NTR_t is the Closing Level of the Index as of such Observation Date.

Otherwise,

 $NTR_{t} = NTR_{D(t)} \times \frac{PR_{t}}{PR_{D(t)} - Div_{C(t)}}$

Where:

D(t) means the immediately preceding scheduled closing time prior to the Leverage Reset Time (t);

 $NTR_{D(t)}$ is the Closing Level of the Index as of the Observation Date of D(t);

 $PR_{D(t)}$ is the Closing Level of the PR Index as of the Observation Date of D(t);

 $\text{Div}_{C(t)}$ represents the dividend to be paid out on the Observation Date of the Leverage Rest Time (t) and is computed as follows:

$$Div_{C(t)} = PR_{D(t)} - \frac{NTR_{D(t)} \times PR_{C(t)}}{NTR_{C(t)}}$$

C(t) means the scheduled closing time of the Observation Date as of the Leverage Rest Time (t)

PR_t means the level of the PR Index as of Leverage Reset Time (t) computed as follows:

If the Leverage Reset Time (t) is at the scheduled closing time for the Relevant Stock Exchange for the PR Index (or any successor thereto) on any Observation Date,

 PR_t is the Closing Level of the PR Index as of such Observation Date.

Otherwise,

 \mathbf{PR}_t is the lowest level of the PR Index during the respective Intraday Restrike Observation Period, subject to the adjustments and provisions of the Conditions.

Ratetmeans, in respect of the Observation Date of Leverage Reset Time (t), a rate
calculated as of such day in accordance with the following formula:

 $Rate_t = CashRate_t + \%SpreadLevel_t$

- **CashRate**t means, in respect of each Observation Date(t), the US SOFR Secured Overnight Financing Rate, as published on Bloomberg Screen SOFRRATE Index page or any successor page, being the rate as of such Observation Date (t), provided that if any of such rates is not available, then that rate shall be determined by reference to the latest available rate that was published on the relevant Bloomberg page. Upon the occurrence or likely occurrence, as determined by the Calculation Agent, of a Benchmark Event, the Calculation Agent may make adjustments as it may determine appropriate to account for the relevant event or circumstance, including but not limited to using any alternative rates from such date, with or without retroactive effect as the Calculation Agent may in its sole and absolute discretion determine.
- %**SpreadLevel**t 0.23%, subject to change by the Issuer on giving 10 Business Days' notice to investors via SGXNet.

Benchmark Event means:

 the relevant reference rate has ceased to be published on the relevant screen page as a result of such benchmark ceasing to be calculated or administered; or

- (b) a public statement by the administrator of the relevant reference rate that (in circumstances where no successor administrator has been or will be appointed that will continue publication of such reference rate) it has ceased publishing such reference rate permanently or indefinitely or that it will cease to do so by a specified future date (the "Specified Future Date"); or
- (c) a public statement by the supervisor of the administrator of the relevant reference rate that such reference rate has been or will, by a specified future date (the "Specified Future Date"), be permanently or indefinitely discontinued; or
- (d) a public statement by the supervisor of the administrator of the relevant reference rate as a consequence of which Reference Rate will, by a specified future date (the "Specified Future Date"), be prohibited from being used, or that its use will be subject to restrictions or adverse consequences, either generally or in respect of the Certificates; or
- (e) a public statement by the supervisor of the administrator of the relevant reference rate that, in the view of such supervisor, such reference rate is or will, by a specified future date (the "Specified Future Date"), be no longer representative of an underlying market or the methodology to calculate such reference rate has materially changed; or
- (f) it has or will, by a specified date within the following six months, become unlawful for the Calculation Agent or the Issuer to calculate any payments due to be made to any holder of the Certificates using the relevant reference rate (including, without limitation, under the Benchmarks Regulation (EU) 2016/1011, if applicable).

Notwithstanding the subparagraphs above, where the relevant Benchmark Event is a public statement within subparagraphs (b), (c), (d) or (e) above and the Specified Future Date in the public statement is more than six months after the date of that public statement, the Benchmark Event shall not be deemed occur until the date falling six months prior to such Specified Future Date.

ACT(r(t),t) ACT (r(t),t) means the number of calendar days between the Observation Date of the Leverage Reset Time r(t) (included) and the Observation Date of the Leverage Reset Time (t) (excluded).

DayCountBasisRate 365

Air Bag Mechanism

- **Calculation Time** means any time between the TimeReferenceOpening and the TimeReferenceClosing, provided that the relevant data is available to enable the Calculation Agent to determine the Leverage Strategy Level. **TimeReferenceOpening** means the scheduled opening time (including pre-opening session) for the Relevant Stock Exchange(s) for the Index (or any successor thereto). means the scheduled closing time (including closing auction session) for TimeReferenceClosing the Relevant Stock Exchange(s) for the Index (or any successor thereto). **Intraday Restrike Event** means in respect of an Intraday Restrike Event, the period starting on and **Observation Period** excluding the Intraday Restrike Event Time and finishing on and including the sooner between (1) the time falling 15 minutes of continuous trading after the Intraday Restrike Event Time and (2) the TimeReferenceClosing. Where, during such period, the Calculation Agent determines that (1) the level of the PR Index is not disseminated by the Index Sponsor or, the Index Calculation Agent, as the case may be or (2) the Relevant Stock Exchange(s) for the Index is not open for continuous trading, the Intraday Restrike Event Observation Period will be extended to the extent necessary until (1) the level of the PR Index is calculated and disseminated by the Index Sponsor or, the Index Calculation Agent, as the case may be and (2) the Relevant Stock Exchange(s) for the Index is open for continuous trading.
- Intraday Restrike Event means in respect of an Intraday Restrike Event, the Calculation Time on which such event occurs.

The Conditions set out in the section headed "Terms and Conditions of the European Style Cash Settled Long/Short Certificates" in the Base Listing Document are set out below. This section is qualified in its entirety by reference to the detailed information appearing elsewhere in this document which shall, to the extent so specified or to the extent inconsistent with the relevant Conditions set out below, replace or modify the relevant Conditions for the purpose of the Certificates.

TERMS AND CONDITIONS OF

THE EUROPEAN STYLE CASH SETTLED LONG/SHORT CERTIFICATES

1. Form, Status, Transfer and Title

- (a) *Form.* The Certificates (which expression shall, unless the context otherwise requires, include any further certificates issued pursuant to Condition 10) are issued subject to and with the benefit of:-
 - a master instrument by way of deed poll (the "Master Instrument") dated 28 June 2022, made by UBS AG (the "Issuer") acting through its London Branch; and
 - (ii) a warrant agent agreement (the "Master Warrant Agent Agreement" or "Warrant Agent Agreement") dated any time on or before the Closing Date, made between the Issuer and the Warrant Agent for the Certificates.

Copies of the Master Instrument and the Master Warrant Agent Agreement or Warrant Agent Agreement are available for inspection at the specified office of the Warrant Agent.

The Certificate Holders (as defined below) are entitled to the benefit of, are bound by and are deemed to have notice of all the provisions of the Master Instrument and the Master Warrant Agent Agreement or Warrant Agent Agreement.

- (b) Status. The Certificates constitute direct, general and unsecured contractual obligations of the Issuer and rank, and will rank, equally among themselves and pari passu with all other present and future unsecured and unsubordinated obligations of the Issuer (save for statutorily preferred exceptions). The Certificates provide for cash settlement on exercise and, in particular, the Certificates will not be secured by any underlying assets.
- (c) Transfer. The Certificates are represented by a global warrant certificate ("Global Warrant") which will be deposited with The Central Depository (Pte) Limited ("CDP"). Certificates in definitive form will not be issued. Transfers of Certificates may be effected only in Board Lots or integral multiples thereof. All transactions in (including transfers of) Certificates, in the open market or otherwise, must be effected through a securities account with CDP. Title will pass upon registration of the transfer in the records maintained by CDP.
- (d) Title. Each person who is for the time being shown in the records maintained by CDP as entitled to a particular number of Certificates shall be treated by the Issuer and the Warrant Agent as the holder and absolute owner of such number of Certificates, notwithstanding any notice to the contrary. The expression "Certificate Holder" shall be construed accordingly.

2. Certificate Rights and Exercise Expenses

(a) *Certificate Rights.* Every Certificate entitles each Certificate Holder, upon due exercise and on compliance with Condition 4, to payment by the Issuer of the Cash Settlement Amount (if any) in the manner set out in Condition 4.

The **"Cash Settlement Amount**", in respect of each Certificate, shall be an amount (if positive) payable in the Settlement Currency equal to the Closing Level multiplied by the Notional Amount per Certificate.

The "**Closing Level**", in respect of each Certificate, shall be an amount payable in the Settlement Currency equal to:

(Final Reference Level × Final Exchange Rate Initial Reference Level × Initial Exchange Rate - Strike Level) × Hedging Fee Factor

(b) Exercise Expenses. Certificate Holders will be required to pay all charges which are incurred in respect of the exercise of the Certificates (the "Exercise Expenses"). An amount equivalent to the Exercise Expenses will be deducted by the Issuer from the Cash Settlement Amount in accordance with Condition 4. Notwithstanding the foregoing, the Certificate Holders shall account to the Issuer on demand for any Exercise Expenses to the extent that they were not or could not be deducted from the Cash Settlement Amount prior to the date of payment of the Cash Settlement Amount to the Certificate Holders in accordance with Condition 4.

3. Expiry Date

Unless automatically exercised in accordance with Condition 4(b), the Certificates shall be deemed to expire at 5:00 p.m. (Singapore time) on the Expiry Date or if the Expiry Date is not a Business Day (as defined below), the immediately preceding Business Day.

4. Exercise of Certificates

- (a) *Exercise*. Certificates may only be exercised on the Expiry Date or if the Expiry Date is not a Business Day, the immediately preceding Business Day, in accordance with Condition 4(b).
- (b) Automatic Exercise. Certificate Holders shall not be required to deliver an exercise notice. Exercise of Certificates shall be determined by whether the Cash Settlement Amount (less any Exercise Expenses) is positive. If the Cash Settlement Amount (less any Exercise Expenses) is positive, all Certificates shall be deemed to have been automatically exercised at 5:00 p.m. (Singapore time) on the Expiry Date or if the Expiry Date is not a Business Day, the immediately preceding Business Day. The Cash Settlement Amount less the Exercise Expenses in respect of the Certificates shall be paid in the manner set out in Condition 4(c) below. In the event the Cash Settlement Amount (less any Exercise Expenses) is zero, all Certificates shall be deemed to have expired at 5:00 p.m. (Singapore time) on the Expiry Date or if the Expiry Date is not a Business Day, the immediately preceding Business Day, and Certificate Holders shall not be entitled to receive any payment from the Issuer in respect of the Certificates.
- (c) Settlement. In respect of Certificates which are automatically exercised in accordance with Condition 4(b), the Issuer will pay to the Warrant Agent who will then pay to the relevant Certificate Holder the Cash Settlement Amount (if any) in the Settlement Currency. The aggregate Cash Settlement Amount (less any Exercise

Expenses) shall be dispatched by the Warrant Agent as soon as practicable and no later than five Business Days following the Expiry Date (subject to extension upon the occurrence of a Market Disruption Event (as defined below)) by way of crossed cheque or other payment in immediately available funds drawn in favour of the Certificate Holder only (or, in the case of joint Certificate Holders, the first-named Certificate Holder) appearing in the records maintained by CDP. Any payment made pursuant to this Condition 4(c) shall be delivered at the risk and expense of the Certificate Holder and posted to the Certificate Holder's address appearing in the records maintained by CDP (or, in the case of joint Certificate Holders, to the address of the first-named Certificate Holder appearing in the records maintained by CDP). If the Cash Settlement Amount is equal to or less than the determined Exercise Expenses, no amount is payable.

If the Issuer determines, in its sole discretion, that on the Valuation Date or any Observation Date a Market Disruption Event has occurred, then that Valuation Date or Observation Date shall be postponed until the first succeeding Index Business Day (as defined below) on which there is no Market Disruption Event, unless there is a Market Disruption Event on each of the five Index Business Days immediately following the original date that, but for the Market Disruption Event, would have been a Valuation Date or an Observation Date. In that case:-

- that fifth Index Business Day shall be deemed to be the Valuation Date or the Observation Date notwithstanding the Market Disruption Event; and
- (ii) the Issuer shall determine the Final Reference Level or the relevant closing level on the basis of its good faith estimate of the Final Reference Level or the relevant closing level that would have prevailed on that fifth Index Business Day but for the Market Disruption Event provided that the Issuer, if applicable, may, but shall not be obliged to, determine such Final Reference Level or the relevant closing level by having regard to the manner in which futures contracts relating to the Leveraged Index/Underlying Reference Index/Index/PR Index are calculated.

"Market Disruption Event" means:

- (i) the occurrence or existence of any of:-
 - (A) the suspension or limitation of the trading of a material number of securities/commodities from time to time comprising the Leveraged Index/Underlying Reference Index/Index/PR Index; or
 - (B) the suspension or limitation of the trading of securities/commodities
 (1) on the SGX-ST or the Relevant Stock Exchange or (2) generally; or
 - (C) the suspension or limitation of the trading of (1) options or futures relating to the Leveraged Index/Underlying Reference Index/Index/PR Index on any options or futures exchanges or (2) options or futures generally on any options and/or futures exchanges on which options or futures relating to the Leveraged Index/Underlying Reference Index/Index/PR Index are traded; or
 - (D) the imposition of any exchange controls in respect of any currencies involved in determining the Cash Settlement Amount; or

- (E) failure from the Leveraged Index/Underlying Reference Index/Index/PR Index Sponsor to compute, publish and disseminate the level of the Leveraged Index/Underlvina Reference Index/Index/PR Index, or material limitation to access the level of Leveraged Index/Underlying Reference Index/Index/PR Index.
- (ii) a limitation or closure of the SGX-ST or the Relevant Stock Exchange due to any unforeseen circumstances.

For the purposes of this definition, (aa) the limitation on the number of hours or days of trading will not constitute a Market Disruption Event if it results from an announced change in the regular business hours of any exchange, and (bb) a limitation imposed on trading (including but not limited to unforeseen circumstances such as by reason of the movements in price exceeding the levels permitted by any relevant exchange or any act of God, war, riot, public disorder, explosion, terrorism or otherwise due to any unforeseen circumstances) on the relevant exchange will constitute a Market Disruption Event.

The Issuer's obligations to pay the Cash Settlement Amount shall be discharged by payment to the Warrant Agent in accordance with the Master Warrant Agent Agreement or Warrant Agent Agreement.

- (d) *CDP not liable*. CDP shall not be liable to any Certificate Holder with respect to any action taken or omitted to be taken by the Issuer or the Warrant Agent in connection with the exercise of the Certificates or otherwise pursuant to or in connection with these Conditions.
- (e) Business Day. In these Conditions, a "Business Day" shall be a day (excluding Saturdays, Sundays and public holidays) on which the SGX-ST is open for dealings in Singapore during its normal trading hours and banks are open for business in Singapore and an "Index Business Day" shall be a day on which the Leveraged Index or the Index, as the case may be, is published by the Index Sponsor or, as the case may be, the Successor Index Sponsor (as defined below) and where the Leveraged Index or the Index closes at the normal trading hours.

5. Warrant Agent

- (a) Warrant Agent. The Issuer reserves the right, subject to the appointment of a successor, at any time to vary or terminate the appointment of the Warrant Agent and to appoint another Warrant Agent provided that it will at all times maintain a Warrant Agent which, so long as the Certificates are listed on the SGX-ST, shall be in Singapore. Notice of any such termination or appointment and of any change in the specified office of the Warrant Agent will be given to the Certificate Holders in accordance with Condition 9.
- (b) Agent of Issuer. The Warrant Agent will be acting as agent of the Issuer and will not assume any obligation or duty to or any relationship of agency or trust for the Certificate Holders. All determinations and calculations by the Warrant Agent under these Conditions shall (save in the case of manifest error) be final and binding on the Issuer and the Certificate Holders.

6. Adjustments

(a) Successor Sponsor Calculates and Reports Leveraged Index, Underlying Reference Index, Index or PR Index. If the Leveraged Index, the Underlying Reference Index, the Index or the PR Index, as the case may be, is (i) not calculated and announced by the relevant Index Sponsor but is calculated and published by a successor to the relevant Index Sponsor (the "**Successor Index Sponsor**") acceptable to the Issuer or (ii) replaced by a successor index using, in the determination of the Issuer, the same or a substantially similar formula for and method of calculation as used in the calculation of the Leveraged Index, the Underlying Reference Index, the Index or the PR Index, as the case may be, then the Leveraged Index, the Underlying Reference Index, the Index or the PR Index, as the case may be, will be deemed to be the index so calculated and announced by the relevant Successor Index Sponsor or that successor index, as the case may be.

- (b) Modification and Cessation of Calculation of the Leveraged Index/Underlying Reference Index/Index/PR Index. If:-
 - (i) on or prior to the Valuation Date the Index Sponsor or (if applicable) the Successor Index Sponsor makes a material change in the formula for or the method of calculating the Leveraged Index, the Underlying Reference Index, the Index or the PR Index, as the case may be, or in any other way materially modifies the Leveraged Index, the Underlying Reference Index, the Index or the PR Index, as the case may be, (other than a modification prescribed in that formula or method to maintain the Leveraged Index, the Underlying Reference Index, the Index or the PR Index, as the case may be, in the event of changes in constituent stocks, contracts or commodities and other routine events); or
 - (ii) on or prior to the Valuation Date the Index Sponsor or (if applicable) the Successor Index Sponsor fails to calculate and publish the Leveraged Index, the Underlying Reference Index, the Index or the PR Index, as the case may be, (other than as a result of a Market Disruption Event),

then the Issuer shall determine the closing level of the Leverage Strategy/Leverage Inverse Strategy/Leveraged Index on any Observation Date using, in lieu of a published level for the Leveraged Index, the Underlying Reference Index, the Index or the PR Index, as the case may be, the level for the Leveraged Index, the Underlying Reference Index, the Index or the PR Index, as the case may be, as at that Observation Date as determined by the Issuer in accordance with the formula for and method of calculating the Leveraged Index, the Underlying Reference Index, the Index or the PR Index, as the case may be, last in effect prior to that change or failure, but using only those securities/commodities that comprised the Underlying Reference Index or the PR Index, as the case may be, immediately prior to that change or failure (other than those securities that have since ceased to be listed on the relevant exchange).

- (c) Subdivision or Consolidation of the Certificates. The Issuer reserves the right to subdivide or consolidate the Certificates, provided that such adjustment is considered by the Issuer not to be materially prejudicial to the Certificate Holders generally (without considering the circumstances of any individual Certificate Holder or the tax or other consequences of such adjustment or amendment in any particular jurisdiction).
- (d) Notice of Adjustments. All determinations made by the Issuer pursuant hereto will be conclusive and binding on the Certificate Holders. The Issuer will give, or procure that there is given, notice as soon as practicable of any adjustment and of the date

from which such adjustment is effective in accordance with Condition 9. For the avoidance of doubt, no notice will be given if the Issuer determines that adjustments will not be made.

7. Purchases

The Issuer or its related corporations may at any time purchase Certificates at any price in the open market or by tender or by private treaty. Any Certificates so purchased may be held or resold or surrendered for cancellation.

8. Meetings of Certificate Holders; Modification

(a) Meetings of Certificate Holders. The Master Warrant Agent Agreement or Warrant Agent Agreement contains provisions for convening meetings of the Certificate Holders to consider any matter affecting their interests, including the sanctioning by Extraordinary Resolution (as defined in the Master Warrant Agent Agreement or Warrant Agent Agreement) of a modification of the provisions of the Certificates or of the Master Warrant Agent Agreement or Warrant Agent Agreement.

At least 21 days' notice (exclusive of the day on which the notice is given and of the day on which the meeting is held) specifying the date, time and place of the meeting shall be given to the Certificate Holders.

Such a meeting may be convened by the Issuer or by Certificate Holders holding not less than ten per cent. of the Certificates for the time being remaining unexercised. The quorum at any such meeting for passing an Extraordinary Resolution will be two or more persons holding or representing not less than 25 per cent. of the Certificates for the time being remaining unexercised, or at any adjourned meeting two or more persons being or representing Certificate Holders whatever the number of Certificates so held or represented.

A resolution will be an Extraordinary Resolution when it has been passed at a duly convened meeting by not less than three-quarters of the votes cast by such Certificate Holders who, being entitled to do so, vote in person or by proxy.

An Extraordinary Resolution passed at any meeting of the Certificate Holders shall be binding on all the Certificate Holders whether or not they are present at the meeting. Resolutions can be passed in writing if passed unanimously.

(b) Modification. The Issuer may, without the consent of the Certificate Holders, effect (i) any modification of the provisions of the Certificates or the Master Instrument which is not materially prejudicial to the interests of the Certificate Holders or (ii) any modification of the provisions of the Certificates or the Master Instrument which is of a formal, minor or technical nature, which is made to correct an obvious error or which is necessary in order to comply with mandatory provisions of Singapore law. Any such modification shall be binding on the Certificate Holders and shall be notified to them by the Warrant Agent before the date such modification becomes effective or as soon as practicable thereafter in accordance with Condition 9.

9. Notices

(a) Documents. All cheques and other documents required or permitted by these Conditions to be sent to a Certificate Holder or to which a Certificate Holder is entitled or which the Issuer shall have agreed to deliver to a Certificate Holder may be delivered by hand or sent by post addressed to the Certificate Holder at his address appearing in the records maintained by CDP or, in the case of joint Certificate Holders, addressed to the joint holder first named at his address appearing in the records maintained by CDP, and airmail post shall be used if that address is not in Singapore. All documents delivered or sent in accordance with this paragraph shall be delivered or sent at the risk of the relevant Certificate Holder.

(b) Notices. All notices to Certificate Holders will be validly given if published in English on the website of the SGX-ST. Such notices shall be deemed to have been given on the date of the first such publication. If publication on the website of the SGX-ST is not practicable, notice will be given in such other manner as the Issuer may determine. The Issuer shall, at least one month prior to the expiry of any Certificate, give notice of the date of expiry of such Certificate in the manner prescribed above.

10. Further Issues

The Issuer shall be at liberty from time to time, without the consent of the Certificate Holders, to create and issue further certificates so as to form a single series with the Certificates.

11. Early Termination

(a) Early Termination for Illegality etc. The Issuer shall have the right to terminate the Certificates if it shall have determined in its absolute discretion that a Regulatory Event (as defined below) has occurred and, for reasons beyond its control its performance thereunder shall have become unlawful in whole or in part under any applicable present or future law, rule, regulation, judgment, order or directive of any governmental, administrative, legislative or judicial authority or power ("Applicable Law").

For the purposes of this Condition:

"Regulatory Event" means, following the occurrence of a Change in Law (as defined below) with respect to the Issuer and/or any of its affiliates involved in the issue of the Certificates (hereafter the "Relevant Affiliates" and each of the Issuer and the Relevant Affiliates, a "Relevant Entity") that, after the Certificates have been issued, (i) any Relevant Entity would incur a materially increased (as compared with circumstances existing prior to such event) amount of tax, duty, liability, penalty, expense, fee, cost or regulatory capital charge however defined or collateral requirements for performing its obligations under the Certificates or hedging the Issuer's obligations under the Certificates, including, without limitation, due to clearing requirements of, or the absence of, clearing of the transactions entered into in connection with the issue of, or hedging the Issuer's obligation under, the Certificates, (ii) it is or will become for any Relevant Entity impracticable, impossible (in each case, after using commercially reasonable efforts), unlawful, illegal or otherwise prohibited or contrary, in whole or in part, under any law, regulation, rule, judgement, order or directive of any governmental, administrative or judicial authority, or power, applicable to such Relevant Entity (a) to hold, acquire, issue, reissue, substitute, maintain, settle, or as the case may be, guarantee, the Certificates, (b) to acquire, hold, sponsor or dispose of any asset(s) (or any interest thereof) of any other transaction(s) such Relevant Entity may use in connection with the issue of the Certificates or to hedge the Issuer's obligations under the Certificates, (c) to perform obligations in connection with, the Certificates or any contractual arrangement entered into between the Issuer and any Relevant Affiliate (including without limitation to hedge the Issuer's obligations under the Certificates) or (d) to hold, acquire, maintain, increase,

substitute or redeem all or a substantial part of its direct or indirect shareholding in the Issuer's capital or the capital of any Relevant Affiliate or to directly or indirectly sponsor the Issuer or any Relevant Affiliate, or (iii) there is or may be a material adverse effect on a Relevant Entity in connection with the issue of the Certificates.

"Change in Law" means (i) the adoption, enactment, promulgation, execution or ratification of any applicable new law, regulation or rule (including, without limitation, any applicable tax law, regulation or rule) after the Certificates have been issued, (ii) the implementation or application of any applicable law, regulation or rule (including, without limitation, any applicable tax law, regulation or rule) already in force when the Certificates have been issued but in respect of which the manner of its implementation or application was not known or unclear at the time, or (iii) the change of any applicable law, regulation or rule existing when the Certificates are issued, or the change in the interpretation or application or practice relating thereto, existing when the Certificates are issued of any applicable law, regulation or rule, by any competent court, tribunal, regulatory authority or any other entity exercising executive, legislative, judicial, taxing, regulatory or administrative powers or functions of or pertaining to government (including any additional or alternative court, tribunal, authority or entity, to that existing when the Certificates are issued).

- (b) Early Termination for not being able to find a successor to the index sponsor or a successor to the Leveraged Index or the Index, as the case may be. If (i) the index sponsor is not able to calculate and announce the Leveraged Index or the Index, as the case may be, and the Issuer is not able to find an acceptable successor to the index sponsor or (ii) the Leveraged Index or the Index, as the case may be, becomes unavailable and the Issuer is not able to find a successor to the Leveraged Index or the Index, the Issuer may at its sole discretion and without obligation terminate the Certificates in accordance with Condition 11(d).
- (c) Early Termination for other reasons. The Issuer reserves the right (such right to be exercised in the Issuer's sole and unfettered discretion and without any obligation whatsoever) to terminate the Certificates in accordance with Condition 11(d) where an event or events occur which it believes in its sole discretion should, in the context of the issue of the Certificates and the obligations of the Issuer, give rise to such termination provided that such termination is considered by the Issuer not to be materially prejudicial to the interests of Certificate Holders generally (without considering the circumstances of any individual Certificate Holder or the tax or other consequences of such termination in any particular jurisdiction).
- (d) Termination. If the Issuer terminates the Certificates early, then the Issuer will give notice to the Certificate Holders in accordance with Condition 9. The Issuer will, if and to the extent permitted by the Applicable Law, pay to each Certificate Holder in respect of each Certificate held by such Certificate Holder an amount calculated by it as the fair market value of the Certificate immediately prior to such termination (ignoring such illegality) less the cost to the Issuer of unwinding any related hedging arrangements. Payment will be made to the Certificate Holder in such manner as shall be notified to the Certificate Holder in accordance with Condition 9.

12. Governing Law

The Certificates, the Master Instrument and the Master Warrant Agent Agreement or Warrant Agent Agreement will be governed by and construed in accordance with Singapore law. The Issuer and each Certificate Holder (by its purchase of the Certificates) shall be deemed to have submitted for

all purposes in connection with the Certificates, the Master Instrument and the Master Warrant Agent Agreement or Warrant Agent Agreement to the non-exclusive jurisdiction of the courts of Singapore.

13. Prescription

Claims against the Issuer for payment of any amount in respect of the Certificates will become void unless made within six years of the Expiry Date and, thereafter, any sums payable in respect of such Certificates shall be forfeited and shall revert to the Issuer.

14. Contracts (Rights of Third Parties) Act 2001 of Singapore

Unless otherwise expressly provided in the Global Warrant, the Master Instrument and the Master Warrant Agent Agreement or Warrant Agent Agreement, a person who is not a party to any contracts made pursuant to the Global Warrant, the Master Instrument and the Master Warrant Agent Agreement or Warrant Agent Agreement has no rights under the Contracts (Rights of Third Parties) Act 2001 of Singapore to enforce any terms of such contracts. Except as expressly provided herein, the consent of any third party is not required for any subsequent agreement by the parties hereto to amend or vary (including any release or compromise of any liability) or terminate such contracts.

SUMMARY OF THE ISSUE

The following is a summary of the issue and should be read in conjunction with, and is qualified by reference to, the other information set out in this document and the Base Listing Document. Terms used in this Summary are defined in the Conditions.

Issuer:	UBS AG, acting through its London Branch
Index:	Dow Jones Industrial Average Net Total Return Index
The Certificates:	European Style Cash Settled Long Certificates relating to the Index
Number:	20,000,000 Certificates
Form:	The Certificates will be issued subject to, and with the benefit of, a master instrument by way of deed poll dated 28 June 2022 (the " Master Instrument ") and executed by the Issuer and a master warrant agent agreement dated 27 February 2008 (the " Master Warrant Agent Agreement ") and made between the Issuer and the Warrant Agent.
Cash Settlement Amount:	In respect of each Certificate, is the amount (if positive) equal to:
	Notional Amount per Certificate x Closing Level
Denominations:	Certificates are represented by a global warrant in respect of all the Certificates.
Exercise:	The Certificates may only be exercised on the Expiry Date or if the Expiry Date is not a Business Day, the immediately preceding Business Day, in a Board Lot or integral multiples thereof. Certificate Holders will not be required to deliver an exercise notice. If the Cash Settlement Amount (less any Exercise Expenses) is positive, all Certificates will be deemed to have been automatically exercised at 5:00 p.m. (Singapore time) on the Expiry Date or if the Expiry Date is not a Business Day, the immediately preceding Business Day. The Cash Settlement Amount less the Exercise Expenses in respect of the Certificates shall be paid in the manner set out in Condition 4(c) of the Conditions. In the event the Cash Settlement Amount (less any Exercise Expenses) is zero, all Certificates shall be deemed to have expired at 5:00 p.m. (Singapore time) on the Expiry Date or if the Expiry Date is not a Business Day, the immediately preceding Business Day, and Certificate Holders shall not be entitled to receive any payment from the Issuer in respect of the Certificates.
Exercise and Trading Currency:	Singapore Dollar

Board Lot: 100 Certificates

Transfers of Certificates: Certificates may only be transferred in Board Lots (or integral multiples thereof). All transfers in Certificates, in the open market or otherwise, must be effected through a securities account with CDP. Title will pass upon registration of the transfer in the records of CDP.

Listing:	Application has been made to the SGX-ST for permission to deal in and for quotation of the Certificates and the SGX-ST has agreed in principle to grant permission to deal in and for quotation of the Certificates. Issue of the Certificates is conditional on such listing being granted. It is expected that dealings in the Certificates on the SGX-ST will commence on or about 2 November 2022.
Governing Law:	The laws of Singapore
Warrant Agent:	The Central Depository (Pte) Limited
	11 North Buona Vista Drive
	#06-07 The Metropolis Tower 2
	Singapore 138589
Further Issues:	Further issues which will form a single series with the Certificates will be permitted.

The above summary is qualified in its entirety by reference to the detailed information appearing elsewhere in this document and the Base Listing Document.

INFORMATION RELATING TO THE EUROPEAN STYLE CASH SETTLED LONG CERTIFICATES

What are European Style Cash Settled Long Certificates?

European style cash settled long certificates (the "**Certificates**") are structured products relating to the Dow Jones Industrial Average Net Total Return Index (the "**Index**") and the return on a Certificate is linked to the performance of the Leverage Strategy.

A) Cash Settlement Amount Payable upon the Exercise of the Certificates at Expiry

Upon the exercise of the Certificates at expiry, the Certificate Holders would be paid a Cash Settlement Amount in respect of each Certificate.

The Cash Settlement Amount, in respect of each Certificate, shall be an amount payable in the Settlement Currency equal to the Closing Level multiplied by the Notional Amount per Certificate.

The Closing Level, in respect of each Certificate, shall be an amount payable in the Settlement Currency equal to (1) divided by (2) less (3) subject to any adjustments such as (4), where:

(1) is the Final Reference Level multiplied by the Final Exchange Rate;

- (2) is the Initial Reference Level multiplied by the Initial Exchange Rate;
- (3) is the Strike Level; and
- (4) is the Hedging Fee Factor.

If the Cash Settlement Amount (less any Exercise Expenses) is positive, all Certificates shall be deemed to have been automatically exercised and investors will receive a Cash Settlement Amount. If the Cash Settlement Amount (less any Exercise Expenses) is zero, all Certificates shall be deemed to have expired. Please refer to the section headed "Terms and Conditions of the European Style Cash Settled Long/Short Certificates" for further details on the calculation of the Cash Settlement Amount. Amount.

The Certificates are only suitable for investors who believe that the level of the Index will increase and are seeking short-term leveraged exposure to the Index.

B) Trading the Certificates before Expiry

If the Certificate Holders want to cash out their investments in the Certificates before the expiry of the Certificates, they may sell the Certificates in the secondary market during the life of the Certificates, and would be subject to the following fees and charges:

- (i) For Certificate Holders who trade the Certificates intraday: shall pay normal transaction and brokerage fees for the trading of the Certificates on the SGX-ST, and may be required to pay stamp taxes or other documentary charges in accordance with the laws and practices of the country where the Certificates are transferred; and
- (ii) For Certificate Holders who hold the Certificates beyond market close of the SGX-ST: in addition to the normal transaction and brokerage fees and applicable stamp taxes, would also be required to bear the Management Fee and Gap Premium as well as certain costs embedded within the Leverage Strategy including the Funding Cost and the Rebalancing Cost. Due to the difference in trading hours of the SGX-ST and the Relevant Stock Exchange(s) for the Index, unless investors exit their position within the same SGX-ST trading day, they would bear the annualised costs.

Illustration of the Calculation of Hedging Fee Factor

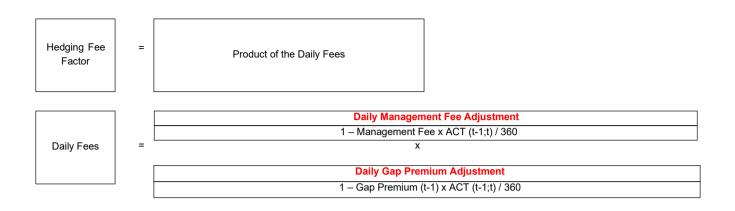


Illustration of the Calculation of Cash Settlement Amount

Cash Settlement Amount = Final Value of Certificates – Strike Level (zero)

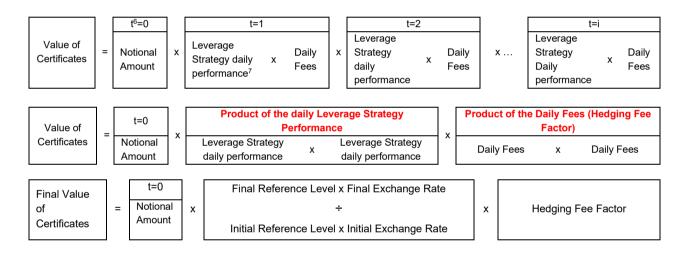


Illustration of the applicable fees and charges for an intraday trading scenario

Hedging Fee is implemented overnight in the price of the Certificate. As a consequence, when trading intraday within SGX-ST trading hours, investors will not bear any Hedging Fee.

Investors will only support bid/ask costs, which are the difference between the price at which the Designated Market Maker purchases (bid) and sells (ask) the Certificate at any point of time.

Example of Calculation of Hedging Fee Factor and Cash Settlement Amount

The example is purely hypothetical. We include the example to illustrate how the Certificates work, and you MUST NOT rely on them as any indication of the actual return or what the payout on the Certificates might actually be. The example also assumes a product which expires 16 days after listing date, to illustrate the daily calculation of price, costs and fees from listing date to expiry date.

⁶ "t" refers to "**Observation Date**" which means each Index Business Day (subject to Market Disruption Event) from (and including) the Index Business Day immediately preceding the Expected Listing Date to the Valuation Date on which no Market Disruption Event occurs.

⁷ Leverage Strategy daily performance is computed as the Leverage Strategy Level on Business Day (t) divided by the Leverage Strategy Level on Business Day (t-1).

Assuming an investor purchases the following Certificates at the Issue Price:

Index:	Dow Jones Industrial Average Net Total Return Index
Expected Listing Date:	01/02/2021
Expiry Date:	16/02/2021
Initial Reference Level:	1,000
Initial Exchange Rate:	1
Final Reference Level:	1,200
Final Exchange Rate:	1
Issue Price:	1.20 SGD
Notional Amount per Certificate:	1.20 SGD
Management Fee (p.a.):	0.40%
Gap Premium (p.a.):	5.80%
Strike Level:	Zero

Hedging Fee Factor

Hedging Fee Factor on the n^{th} Index Business Day after issuance of Certificate ("HFF (n)") is calculated as follows:

HFF(0) = 100%

On Next Calendar Day (assuming it is an Index Business Day):

HFF (1) = HFF (0) ×
$$\left(1 - \text{Management Fee} \times \frac{\text{ACT}(t - 1; t)}{360}\right)$$
 × $\left(1 - \text{Gap Premium} \times \frac{\text{ACT}(t - 1; t)}{360}\right)$
HFF (1) = 100% × $\left(1 - 0.40\% \times \frac{1}{360}\right)$ × $\left(1 - 5.80\% \times \frac{1}{360}\right)$
HFF (1) = 100% × 99.9989% × 99.9839% ≈ 99.9828%

Assuming 2nd Index Business Day falls 3 Calendar Days after 1st Index Business Day:

HFF (2) = HFF (1)×
$$\left(1 - \text{Management Fee} \times \frac{\text{ACT}(t-1;t)}{360}\right) \times \left(1 - \text{Gap Premium} \times \frac{\text{ACT}(t-1;t)}{360}\right)$$

HFF (2) = 99.9828% × $\left(1 - 0.40\% \times \frac{3}{360}\right) \times \left(1 - 5.80\% \times \frac{3}{360}\right)$
HFF (2) = 99.9828% × 99.9967% × 99.9517% ≈ 99.9311%

The same principle applies to the following Index Business Days:

$$HFF(n) = HFF(n-1) \times \left(1 - Management Fee \times \frac{ACT(t-1;t)}{360}\right) \times \left(1 - Gap \text{ Premium } \times \frac{ACT(t-1;t)}{360}\right)$$

In this example, the Hedging Fee Factor as of the Valuation Date would be equal to 99.7420% as illustrated below

Date	HFF
2/1/2021	100.0000%
2/2/2021	99.9828%
2/3/2021	99.9656%
2/4/2021	99.9483%
2/5/2021	99.9311%
2/8/2021	99.8795%
2/9/2021	99.8623%
2/10/2021	99.8451%
2/11/2021	99.8279%
2/12/2021	99.8107%
2/15/2021	99.7591%
2/16/2021	99.7420%

Cash Settlement Amount

In this example, the Closing Level and the Cash Settlement Amount would be computed as follows:

Closing Level = [(Final Reference Level x Final Exchange Rate) / (Initial Reference Level x Initial Exchange Rate) – Strike Level] x Hedging Fee Factor = $[(1200 \times 1) / (1000 \times 1) - 0] \times 99.7420\%$

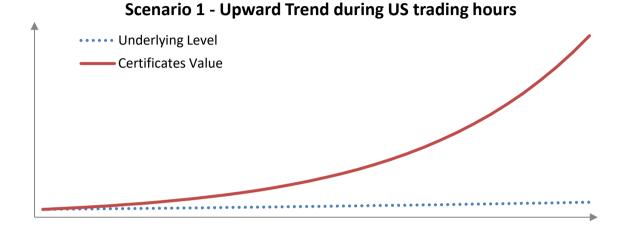
= 119.69%

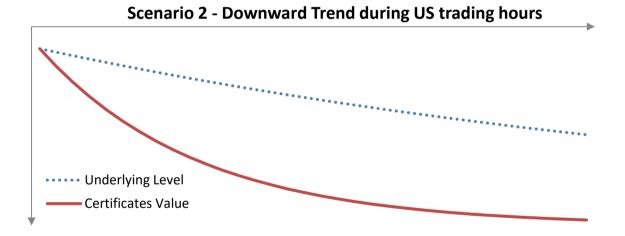
Cash Settlement Amount = Closing Level x Notional Amount per Certificate = 119.69% x 1.20 SGD = 1.436 SGD

Illustration on how returns and losses can occur under different scenarios

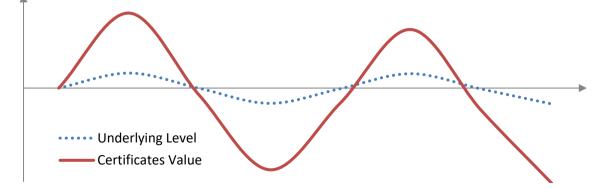
The examples are purely hypothetical and do not take fees and charges payable by investors into consideration. The examples highlight the effect of the Index performance on the value of the Certificates and do not take into account the possible influence of fees or any other market parameters.

1. Illustrative examples





Scenario 3 - Volatile Market during US trading hours



2. Numerical Examples

<u>Scenario 1 – Upward Trend</u>						
Underlying						
	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5
Daily Return		2.00%	2.00%	2.00%	2.00%	2.00%
Value at end of US trading day	10,000.00	10,200.00	10,404.00	10,612.08	10,824.32	11,040.81
Accumulated Return		2.00%	4.04%	6.12%	8.24%	10.41%

		Value of the C	Certificates			
	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5
Daily Return		14.00%	14.00%	14.00%	14.00%	14.00%
Value at end of US trading day	1.20	1.37	1.56	1.78	2.03	2.31
Accumulated Return		14.00%	29.96%	48.15%	68.90%	92.54%

Scenario 2 – Downward Trend						
		Underl	ying			
	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5
Daily Return		-2.00%	-2.00%	-2.00%	-2.00%	-2.00%
Value at end of US trading day	10,000.00	9,800.00	9,604.00	9,411.92	9,223.68	9,039.21
Accumulated Return		-2.00%	-3.96%	-5.88%	-7.76%	-9.61%

		Value of the C	Certificates			
	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5
Daily Return		-14.00%	-14.00%	-14.00%	-14.00%	-14.00%
Value at end of US trading day	1.20	1.03	0.89	0.76	0.66	0.56
Accumulated Return		-14.00%	-26.04%	-36.39%	-45.30%	-52.96%

Scenario 3 – Volatile Market

		Underly	ying			
	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5
Daily Return		2.00%	-2.00%	-2.00%	2.00%	2.00%
Value at end of US trading day	10,000.00	10,200.00	9,996.00	9,796.08	9,992.00	10,191.84
Accumulated Return		2.00%	-0.04%	-2.04%	-0.08%	1.92%

		Value of the (Certificates			
	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5
Daily Return		14.00%	-14.00%	-14.00%	14.00%	14.00%
Value at end of US trading day	1.20	1.37	1.18	1.01	1.15	1.31
Accumulated Return		14.00%	-1.96%	-15.69%	-3.88%	9.57%

Description of Air Bag Mechanism

The Certificates integrate an "Air Bag Mechanism" which is designed to reduce exposure to the Index during extreme market conditions.

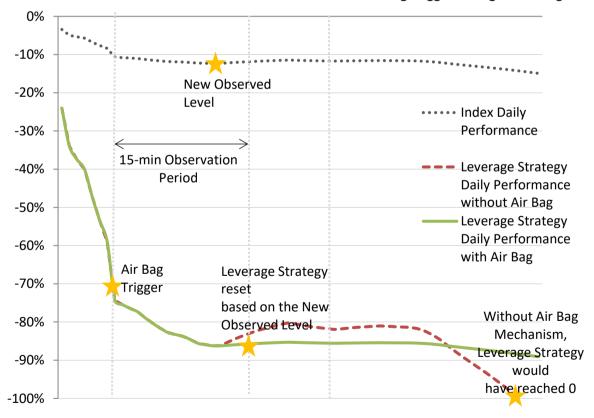
In accordance with the Air Bag Mechanism timeline below, when the Air Bag triggers, the following typically occurs:

- <u>Observation Period</u>: the level of the Index is observed and its minimum level is recorded (i) during 15 minutes of continuous trading after the Air Bag is triggered, or (ii) until Market Close if there is 15 minutes (or less) of continuous trading until Market Close when the Air Bag is triggered; and
- <u>Reset Period</u>: thereafter, the Leverage Strategy is reset using the minimum level of the Index during the Observation Period as the New Observed Level. The New Observed Level replaces the last closing level of the Index in order to compute the performance of the Leverage Strategy.

With Market Close defined as:

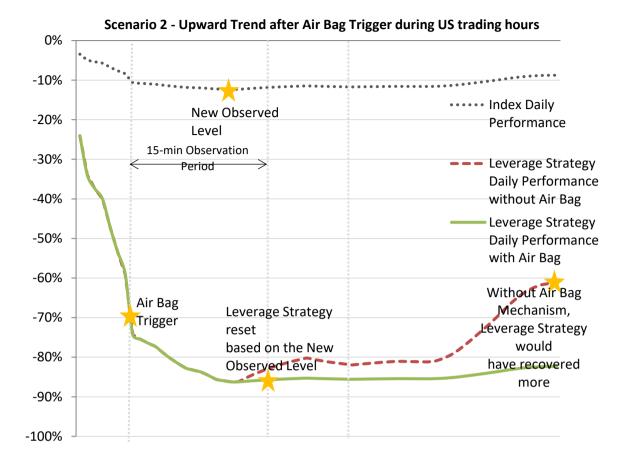
• Index closing time with respect to the Observation Period including the closing auction session

Illustrative examples of the Air Bag Mechanism⁸

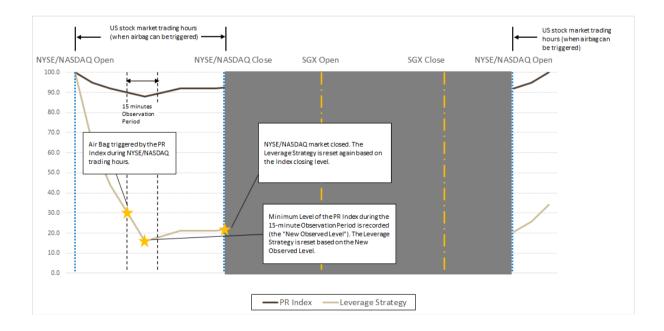


Scenario 1 - Downward Trend after Air Bag Trigger during US trading hours

⁸ The illustrative examples are not exhaustive. The illustrative examples are designed to illustrate the impact of the Air Bag Mechanism on the assumption that there will be a residual value in the Certificates following the Air Bag triggers. Please refer to "Scenarios where the investor may lose the entire value of the investment" on pages 42 to 43 on hypothetical scenarios when investors may lose their entire value of the investment.



• The Air Bag Mechanism can only be triggered during trading hours of the Relevant Stock Exchange(s) for the Index



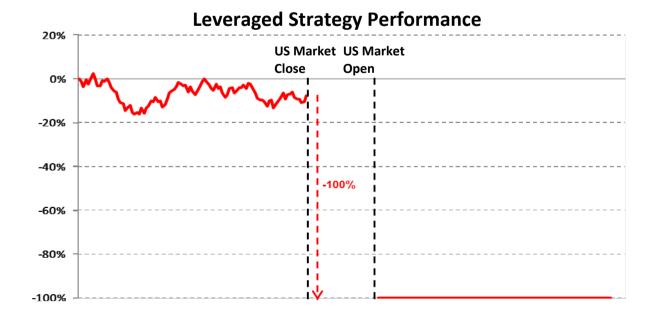
The scenarios below are purely hypothetical and do not take fees and charges payable by investors into consideration. The scenarios highlight cases where the Certificates may lose 100% of their value.

Scenario 1 – Fall of the Index or the PR Index outside of US trading hours

On any business day, the opening level of the Index or the PR Index may be higher or lower than the closing level on the previous trading day of the Relevant Stock Exchange(s) for the Index. The difference between the previous closing level and the opening level of the Index or the PR Index is termed a "gap". If the opening level of the Index or the PR Index is approximately 14% or more below the closing level on the previous trading day of the Relevant Stock Exchange(s) for the Index, the Air Bag Mechanism may only be triggered during the trading of the Relevant Stock Exchange(s) for the Index, the Air Index, and the Certificates would lose their entire value in such event. In such case, as the Certificates became valueless during the US trading hours, at subsequent SGX-ST open, the DMM may not provide any quotation on the Certificates and the Issuer may apply to suspend trading of the Certificates.

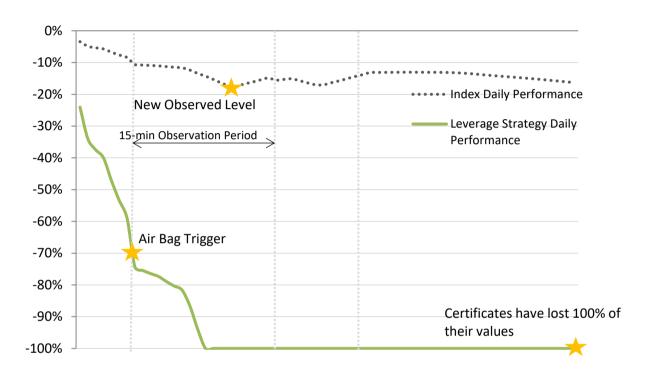


Index Performance



Scenario 2 – Sharp intraday fall of the Index or the PR Index during US trading hours

Although the Air Bag Mechanism is designed to reduce the exposure to the Index or the PR Index during extreme market conditions, the Certificates can lose 100% of their value in the event the Index or the PR Index loses approximately 14% or more of its value within a short period of time. The Certificates would lose their entire value in such event. In such case, as the Certificates became valueless during the US trading hours, at subsequent SGX-ST open, the DMM may not provide any quotation on the Certificates and the Issuer may apply to suspend trading of the Certificates.



INFORMATION RELATING TO THE INDEX

All information contained in this document regarding the Index is derived from publicly available information. The Issuer has not independently verified any of such information which appears on the website of S&P Dow Jones Indices LLC at <u>https://www.spglobal.com/spdji/en/</u>.

Description of the Index

The Index is a price-weighted measure of 30 U.S. blue-chip companies. The Index covers all industries except transportation and utilities.

Disclaimer of the Index Sponsor

The Dow Jones Industrial Average Index (the "Index") is a product of S&P Dow Jones Indices LLC, a division of S&P Global, or its affiliates ("SPDJI") and has been licensed for use by the Issuer. Standard & Poor's® and S&P® are registered trademarks of Standard & Poor's Financial Services LLC, a division of S&P Global ("**S&P**"); Dow Jones® is a registered trademark of Dow Jones Trademark Holdings LLC ("**Dow Jones**"); and these trademarks have been licensed for use by SPDJI and sublicensed for certain purposes by the Issuer. It is not possible to invest directly in an index. The Daily Leveraged Certificates (the "Securities") are not sponsored, endorsed, sold or promoted by SPDJI, Dow Jones, S&P, any of their respective affiliates (collectively, "S&P Dow Jones Indices"). S&P Dow Jones Indices makes no representation or warranty, express or implied, to the owners of the Securities or any member of the public regarding the advisability of investing in securities generally or in the Securities particularly or the ability of the Index to track general market performance. Past performance of an index is not an indication or guarantee of future results. S&P Dow Jones Indices' only relationship to the Issuer with respect to the Index is the licensing of the Index and certain trademarks, service marks and/or trade names of S&P Dow Jones Indices. The Index is determined, composed and calculated by S&P Dow Jones Indices without regard to the Issuer or the Securities. S&P Dow Jones Indices has no obligation to take the needs of the Issuer or the owners of the Securities into consideration in determining, composing or calculating the Index. S&P Dow Jones Indices is not responsible for and have not participated in the determination of the prices, and amount of the Securities or the timing of the issuance or sale of the Securities or in the determination or calculation of the equation by which the Securities are to be converted into cash, cash surrendered, redeemed, as the case may be. S&P Dow Jones Indices has no obligation or liability in connection with the administration, marketing or trading of the Securities. There is no assurance that investment products based on the Index will accurately track index performance or provide positive investment returns. S&P Dow Jones Indices LLC is not an investment or tax advisor. A tax advisor should be consulted to evaluate the impact of any tax-exempt securities on portfolios and the tax consequences of making any particular investment decision. Inclusion of a security within the Index is not a recommendation by S&P Dow Jones Indices to buy, sell, or hold such security, nor is it considered to be investment advice.

S&P DOW JONES INDICES DOES NOT GUARANTEE THE ADEQUACY, ACCURACY, TIMELINESS AND/OR THE COMPLETENESS OF THE INDEX OR ANY DATA RELATED THERETO OR ANY COMMUNICATION, INCLUDING BUT NOT LIMITED TO, ORAL OR WRITTEN COMMUNICATION (INCLUDING ELECTRONIC COMMUNICATIONS) WITH RESPECT THERETO. S&P DOW JONES INDICES SHALL NOT BE SUBJECT TO ANY DAMAGES OR LIABILITY FOR ANY ERRORS, OMISSIONS, OR DELAYS THEREIN. S&P DOW JONES INDICES MAKES NO EXPRESS OR IMPLIED WARRANTIES, AND EXPRESSLY DISCLAIMS ALL WARRANTIES, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE OR AS TO **RESULTS TO BE OBTAINED BY THE ISSUER, OWNERS OF THE SECURITIES, OR ANY OTHER** PERSON OR ENTITY FROM THE USE OF THE INDEX OR WITH RESPECT TO ANY DATA RELATED THERETO. WITHOUT LIMITING ANY OF THE FOREGOING, IN NO EVENT WHATSOEVER SHALL S&P DOW JONES INDICES BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES INCLUDING BUT NOT LIMITED TO, LOSS OF PROFITS, TRADING LOSSES, LOST TIME OR GOODWILL, EVEN IF THEY HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, WHETHER IN CONTRACT, TORT, STRICT LIABILITY, OR OTHERWISE. THERE ARE NO THIRD PARTY BENEFICIARIES OF ANY AGREEMENTS OR ARRANGEMENTS BETWEEN S&P DOW JONES INDICES AND THE ISSUER, OTHER THAN THE LICENSORS OF S&P DOW JONES INDICES.

UBS AG, acting through its London Branch, has been appointed the designated market maker ("**DMM**") for the Certificates. The DMM will provide competitive buy and sell quotes for the Certificates continuously during the trading hours of the SGX-ST on the following basis:

(a)	Maximum bid and offer spread	:	 (i) when the best bid price of the Certificate is S\$10 and below: 10 ticks or S\$0.20 whichever is greater; and
			 (ii) when the best bid price of the Certificate is above S\$10: 5% of the best bid price of the Certificate.
(b)	Minimum quantity subject to bid and offer spread	:	10,000 Certificates
(c)	Last Trading Day for Market Making	:	The date falling 5 Business Days immediately preceding the Expiry Date

In addition, the DMM may not provide a quotation in the following circumstances:

- (i) during the pre-market opening and five minutes following the opening of the SGX-ST on any trading day;
- (ii) if the Certificates are valueless (where the Issuer's bid price is below the minimum bid size for such securities as prescribed by the SGX-ST);
- (iii) when trading in the shares or securities relating to or constituting the Index is suspended or limited in a material way for any reason (including price quote limits activated by the Relevant Stock Exchange(s) for the Index or otherwise⁹), for the avoidance of doubt, the DMM is not obliged to provide quotations for the Certificates at any time when the shares or securities relating to or constituting the Index are not traded for any reason during the last trading session of the Relevant Stock Exchange(s) for the Index;
- (iv) when trading of options or futures relating to the Index or PR Index on any Related Exchange is suspended or limited in a material way for any reason (including price quote limits activated by the Related Exchange on such options or futures or otherwise);
- (v) where the Certificates are suspended from trading for any reason including, but without limitation, as a result of trading in the options or futures relating to the Index or PR Index on any Related Exchange being suspended, or options or futures generally on any Related Exchange being suspended;
- (vi) market disruption events, including, without limitation, (i) any suspension of or limitation imposed on trading (including but not limited to unforeseen circumstances such as by reason of movements in price exceeding limits permitted by the SGX-ST or the Relevant Stock Exchange(s) for the Index⁹ or any Related Exchange on options or futures relating to the Index or the PR Index, or any act of God, war, riot, public disorder, explosion, terrorism or otherwise) in securities or derivatives relating to or constituting the Index, options or futures

⁹ Price quote limits activated by the Relevant Stock Exchange(s) for the Index are not applicable to the market making of the Certificates (as defined herein).

relating to the Index or PR Index on any Related Exchange and (ii) any failure from the Index Sponsor to compute, publish and disseminate the level of the Index or the PR Index, or material limitation to access the level of the PR Index or Index, as the case may be;

- (vii) where the Issuer or the DMM faces technical problems affecting the ability of the DMM to provide bids and offer quotations;
- (viii) where the ability of the Issuer to source a hedge or unwind an existing hedge, as determined by the Issuer in good faith, is materially affected by the prevailing market conditions, and the Issuer informs the SGX-ST of its inability to do so as soon as practicable;
- (ix) in cases where the Issuer has no Certificates to sell, then the DMM will only provide the bid price;
- (x) if the SGX-ST, the Relevant Stock Exchange(s) for the Index or any Related Exchange experiences exceptional price movement and volatility; and
- (xi) when it is a public holiday in Singapore and/or the United States and/or the SGX-ST and/or the Relevant Stock Exchange(s) for the Index is not open for dealings.

The last trading day on which the DMM will provide competitive quotations for the Certificates would be the fifth Business Day immediately preceding the Expiry Date.

PLACING AND SALE

General

No action has been or will be taken by the Issuer that would permit a public offering of the Certificates or possession or distribution of any offering material in relation to the Certificates in any jurisdiction where action for that purpose is required. No offers, sales or deliveries of any Certificates, or distribution of any offering material relating to the Certificates may be made in or from any jurisdiction except in circumstances which will result in compliance with any applicable laws or regulations and will not impose any obligation on the Issuer. In the event that the Issuer contemplates a placing, placing fees may be payable in connection with the issue and the Issuer may at its discretion allow discounts to placees.

United Kingdom

In relation to each tranche of Certificates, the Issuer has represented, warranted and agreed that:

- (a) No deposit-taking: in relation to any Certificates having a maturity of less than one year:
 - (i) it is a person whose ordinary activities involve it in acquiring, holding, managing or disposing of investments (as principal or agent) for the purposes of its business; and
 - (ii) it has not offered or sold and will not offer or sell any Certificates other than to persons:
 - (A) whose ordinary activities involve them in acquiring, holding, managing or disposing of investments (as principal or agent) for the purposes of their businesses; or
 - (B) who it is reasonable to expect will acquire, hold, manage or dispose of investments (as principal or agent) for the purposes of their businesses,

where the issue of the Certificates would otherwise constitute a contravention of section 19 of the Financial Services and Markets Act 2000 (the "**FSMA**") by the Issuer;

- (b) Financial Promotion: it has only communicated or caused to be communicated and will only communicate or cause to be communicated any invitation or inducement to engage in investment activity (within the meaning of section 21 of the FSMA) received by it in connection with the issue or sale of any Certificates in circumstances in which section 21(1) of the FSMA does not or would not, if the Issuer was not an authorised person, apply to the Issuer; and
- (c) General Compliance: it has complied and will comply with all applicable provisions of the FSMA with respect to anything done by it in relation to any Certificates in, from or otherwise involving the United Kingdom.

If the applicable Supplemental Listing Document in respect of any Certificates specifies the "Prohibition of Sales to European Economic Area Retail Investors" as "Not Applicable", the Issuer has represented and agreed that it has not offered, sold or otherwise made available such Certificates to any retail investor in the United Kingdom. For the purposes of this provision:

- (a) the expression "retail investor" means a person who is one (or more) of the following:
 - a retail client, as defined in point (8) of Article 2 of Regulation (EU) No 2017/565 as it forms part of domestic law by virtue of the European Union (Withdrawal) Act 2018 ("EUWA"); or

- (ii) a customer within the meaning of the provisions of the FSMA and any rules or regulations made under the FSMA which were relied on immediately before exit day to implement Directive (EU) 2016/97, where that customer would not qualify as a professional client, as defined in point (8) of Article 2(1) of Regulation (EU) No 600/2014 as it forms part of domestic law by virtue of the EUWA; or
- (iii) not a qualified investor as defined in Article 2 of Regulation (EU) 2017/1129 as it forms part of domestic law by virtue of the EUWA; and
- (b) the expression an "offer" includes the communication in any form and by any means of sufficient information on the terms of the offer and the Certificates to be offered so as to enable an investor to decide to purchase or subscribe for the Certificates.

If the applicable Supplemental Listing Document in respect of any Certificates specifies the "Prohibition of Sales to European Economic Area Retail Investors" as "Not Applicable", the Issuer has represented and agreed that it has not made and will not make an offer of Certificates which are the subject of the offering contemplated by the Base Listing Document as completed by this Supplemental Listing Document to the public in the United Kingdom except that it may make an offer of such Certificates to the public in the United Kingdom:

- a) if the Supplemental Listing Document in relation to the Certificates specifies an offer of those Certificates may be made other than pursuant to Article 1(4) of the UK Prospectus Regulation in the United Kingdom (a "Public Offer"), following the date of publication of a prospectus in relation to such Certificates which either (i) has been approved by the UK Financial Conduct Authority ("FCA"), or (ii) is to be treated as if it had been approved by the FCA in accordance with the transitional provision in Regulation 74 of the Prospectus (Amendment etc.) (EU Exit) Regulations 2019, provided that any such prospectus has subsequently been completed by final terms contemplating such Public Offer, in the period beginning and ending on the dates specified in such prospectus or final terms, as applicable, and the Issuer has consented in writing to its use for the purpose of that Public Offer;
- b) at any time to any legal entity which is a qualified investor as defined in Article 2 of the UK Prospectus Regulation;
- c) at any time to fewer than 150 natural or legal persons (other than qualified investors as defined in Article 2 of the UK Prospectus Regulation); or
- d) at any time in any other circumstances falling within section 86 of the FSMA, provided that no such offer of Certificates to the public referred to in (a) to (c) above shall require the publication of a prospectus pursuant to section 85 of the FSMA or supplement a prospectus pursuant to Article 23 of the UK Prospectus Regulation,

provided that no such offer of Certificates referred to in (b) to (d) above shall require the Issuer to publish a prospectus pursuant to section 85 of the FSMA or supplement a prospectus pursuant to Article 23 of the UK Prospectus Regulation.

For the purposes of this provision, the expression "an offer of Certificates to the public" in relation to any products in the United Kingdom means the communication in any form and by any means of sufficient information on the terms of the offer and the Certificates to be offered so as to enable an investor to decide to purchase or subscribe the Certificates, and the expression "**UK Prospectus Regulation**" means Regulation (EU) 2017/1129 as it forms part of domestic law by virtue of the EUWA.

United States of America

The Certificates have not been, and will not be, registered under the Securities Act. Subject to certain exceptions, Certificates, or interests therein, may not at any time be offered, sold, resold or delivered, directly or indirectly, in the United States or to, or for the account or benefit of, any U.S. person or to others for offering, sale or resale in the United States or to any such U.S. person. Offers and sales of Certificates, or interests therein, in the United States or to U.S. persons would constitute a violation of United States securities laws unless made in compliance with registration requirements of the Securities Act or pursuant to an exemption therefrom. The Certificates will not be offered, sold or delivered within the United States or to U.S. persons. As used herein, "United States" means the United States of America (including the States and the District of Columbia), its territories, its possessions and other areas subject to its jurisdiction; and "U.S. person" means (i) any citizen or resident of the United States, including any corporation, partnership or other entity created or organised in or under the laws of the United States or of any political subdivision thereof, (ii) any estate or trust the income of which is subject to United States income taxation regardless of its source, (iii) "U.S. person" as such term is defined in (a) Regulation S under the Securities Act or (b) the Interpretive Guidance and Policy Statement Regarding Compliance with Certain Swap Regulations promulgated by the U.S. Commodity Futures Trading Commission ("CFTC") pursuant to the U.S. Commodity Exchange Act of 1936, as amended, or (iv) a person other than a "Non-United States Person" as defined in CFTC Rule 4.7, in each case, as such definition is amended, modified or supplemented from time to time.

Prohibition of Sales to European Economic Area

If the applicable Supplemental Listing Document in respect of any Certificates specifies the "Prohibition of Sales to European Economic Area Retail Investors" as "Not Applicable", the Issuer has represented and agreed that it has not offered, sold or otherwise made available and will not offer, sell or otherwise make available any Certificates which are the subject of the offering contemplated by the Base Listing Document as completed by this Supplemental Listing Document to any retail investor in the European Economic Area. For the purposes of this provision:

- (a) the expression "retail investor" means a person who is one (or more) of the following:
 - a retail client as defined in point (11) of Article 4(1) of Directive 2014/65/EU (as amended, "MiFID II");
 - a customer within the meaning of Directive 2016/97 (as amended), where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or
 - (iii) not a qualified investor as defined in Regulation (EU) 2017/1129 (as amended, the "**Prospectus Regulation**"); and
- (b) the expression an "offer" includes the communication in any form and by any means of sufficient information on the terms of the offer and the Certificates to be offered so as to enable an investor to decide to purchase or subscribe the Certificates.

PUBLIC OFFER SELLING RESTRICTION UNDER THE PROSPECTUS REGULATION

If the Supplemental Listing Document specifies "Prohibition of Sales to European Economic Area Retail Investors" as "Not Applicable", in relation to each member state of the European Economic Area (each, a "**Relevant State**"), the Issuer has represented, warranted and agreed that it has not made and will not make an offer of Certificates which are the subject of the offering contemplated by the Base Listing Document as completed by this Supplemental Listing Document to the public in that Relevant State except that it may make an offer of such Certificates to the public in that Relevant State:

- (a) Approved listing document: if the Supplemental Listing Document in relation to the Certificates specifies that an offer of those Certificates may be made other than pursuant to Article 1(4) of the Prospectus Regulation in that Relevant State (a "Non-exempt Offer"), following the date of publication of a listing document in relation to such Certificates which has been approved by the competent authority in that Relevant State or, where appropriate, approved in another Relevant State and notified to the competent authority in that Relevant State, provided that any such listing document has subsequently been completed by the Supplemental Listing Document contemplating such Non-exempt Offer, in accordance with the Prospectus Regulation, in the period beginning and ending on the dates specified in such listing document or Supplemental Listing Document, as applicable and the Issuer has consented in writing to its use for the purpose of that Non-exempt Offer;
- (b) Qualified investors: at any time to any legal entity which is a qualified investor as defined in the Prospectus Regulation;
- (c) Fewer than 150 offered: at any time to fewer than 150 natural or legal persons (other than qualified investors as defined in the Prospectus Regulation), subject to obtaining the prior consent of the Issuer for any such offer; or
- (d) Other exempt offers: at any time in any other circumstances falling within Article 3(2) of the Prospectus Regulation,

provided that no such offer of Certificates referred to in (b) to (d) above shall require the Issuer to publish a listing document pursuant to Article 3 of the Prospectus Regulation or supplement a listing document pursuant to Article 23 of the Prospectus Regulation.

For the purposes of this provision, the expression an "offer of Certificates to the public" in relation to any Certificates in any Relevant State means the communication in any form and by any means of sufficient information on the terms of the offer and the Certificates to be offered so as to enable an investor to decide to purchase or subscribe for the Certificates, as the same may be varied in that Relevant State by any measure implementing the Prospectus Regulation in that Relevant State.

Singapore

This document has not been registered as a prospectus with the Monetary Authority of Singapore. Accordingly, this document and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of Certificates may not be circulated or distributed, nor may Certificates be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons in Singapore other than pursuant to, and in accordance with the conditions of, any applicable provision of the Securities and Futures Act 2001 of Singapore.

Hong Kong

No person, other than a person permitted to do so under the securities laws of Hong Kong, has issued, or had in its possession for the purposes of issue, or will issue, or have in its possession for the purposes of issue any advertisement, invitation or document relating to the Certificates, whether in Hong Kong or elsewhere, which is directed at, or the contents of which are likely to be accessed or read by, the public in Hong Kong other than with respect to Certificates which are or are intended to be disposed of only to persons outside Hong Kong or only to "professional investors" within the meaning of the Securities and Futures Ordinance (Cap. 571) of the Laws of Hong Kong and any rules made thereunder.

SUPPLEMENTAL INFORMATION RELATING TO THE ISSUER

The information set out in Appendix I of this document relates to the recent developments in the Issuer's business.

The information set out in Appendix II of this document is an extract of the unaudited consolidated financial statements of UBS AG and its subsidiaries for the third quarter ended 30 September 2022.

For more information on the Issuer, please see http://www.ubs.com/.

Queries regarding the Certificates may be directed to +852 2971 6668 or OL-HKWarrants@ubs.com.

SUPPLEMENTAL GENERAL INFORMATION

The information set out herein is supplemental to, and should be read in conjunction with, the information set out on page 274 of the Base Listing Document.

- 1. Save as disclosed in the Base Listing Document and herein, there is no litigation, arbitration or administrative proceedings relating to claims or amounts which are material in the context of the issue of the Certificates to which the Issuer is a party nor, to the best of its knowledge and belief, is there any threatened litigation, arbitration or administrative proceedings relating to claims or amounts which are material in the context of the issue of the Certificates which are material in the context of the issue of the Certificates which would in either case jeopardise its ability to discharge its obligations in respect of the Certificates.
- 2. UBS AG, Singapore Branch at 9 Penang Road, Singapore 238459, has been authorised to accept, on behalf of the Issuer, service of process and any other notices required to be served on the Issuer. Any notices required to be served on the Issuer should be sent to UBS AG, Singapore Branch at the above address for the attention of Han-Kiat Tan, Legal & Compliance.
- 3. Settlement of trades done on a normal "ready basis" on the SGX-ST generally take place on the second Business Day following the transaction. Dealing in the Certificates will take place in board lots of 100 Certificates in Singapore dollars. For further details on the transfer of Certificates and their exercise, please refer to the section headed "Summary of the Issue" above.
- 4. It is not the current intention of the Issuer to apply for a listing of the Certificates on any stock exchange other than the SGX-ST.
- 5. There has been no adverse change, material in the context of the issue of the Certificates, in the financial position of the Issuer since 30 September 2022.
- 6. The following contracts, relating to the issue of the Certificates, have been or will be entered into by the Issuer and may be material to the issue of the Certificates:
 - (a) the Master Instrument; and
 - (b) the Master Warrant Agent Agreement.

None of the directors of the Issuer has any direct or indirect interest in any of the above contracts.

- 7. The Issuer has appropriate risk management capabilities to manage the issue of the Certificates.
- 8. Copies of the following documents may be inspected during usual business hours on any weekday (Saturdays, Sundays and holidays excepted) at the office of Allen & Gledhill LLP at One Marina Boulevard #28-00, Singapore 018989, during the period of 14 days from the date of this document:
 - (a) the articles of association of the Issuer;
 - (b) the latest financial reports (including the notes thereto) of the Issuer;
 - (c) the Base Listing Document; and
 - (d) this document.

APPENDIX I

RECENT DEVELOPMENTS IN THE ISSUER'S BUSINESS

This section supersedes in its entirety the section in the Base Listing Document entitled "Information Relating to UBS AG".

1. Overview

UBS AG ("**Issuer**") with its subsidiaries (together, "**UBS AG consolidated**", or "**UBS AG Group**"; together with UBS Group AG, which is the holding company of UBS AG, and its subsidiaries, "**UBS Group**", "**Group**", "**UBS**" or "**UBS Group AG consolidated**") provides financial advice and solutions to private, institutional and corporate clients worldwide, as well as private clients in Switzerland. The operational structure of the Group is comprised of the Group Functions and four business divisions: Global Wealth Management, Personal & Corporate Banking, Asset Management and the Investment Bank.

On 30 September 2022, UBS Group's common equity tier 1 ("**CET1**") capital ratio was 14.4%, the CET1 leverage ratio was 4.51%, and the total loss-absorbing capacity ratio was 33.7%.¹ On the same date, invested assets stood at USD 3,706 billion, equity attributable to shareholders was USD 55,756 million and market capitalisation was USD 46,674 million. On the same date, UBS employed 72,009 people.²

On 30 September 2022, UBS AG consolidated CET1 capital ratio was 13.6%, the CET1 leverage ratio was 4.25%, and the total loss-absorbing capacity ratio was 32.8%.¹ On the same date, invested assets stood at USD 3,706 billion and equity attributable to UBS AG shareholders was USD 54,610 million. On the same date, UBS AG Group employed 47,429 people.²

The rating agencies S&P Global Ratings Europe Limited ("**S&P**"), Moody's Deutschland GmbH ("**Moody's**"), and Fitch Ratings Limited ("**Fitch**") have published solicited credit ratings reflecting their assessment of the creditworthiness of UBS AG, i.e. its ability to fulfil in a timely manner payment obligations, such as principal or interest payments on long-term loans, also known as debt servicing. The ratings from Fitch and S&P may be attributed a plus or minus sign, and those from Moody's a number. These supplementary attributes indicate the relative position within the respective rating class. UBS AG has a long-term counterparty credit rating of A+ from S&P, long-term senior debt rating of Aa3 from Moody's, and long-term issuer default rating of AA- from Fitch.

An explanation of the significance of ratings may be obtained from the rating agencies. Generally, rating agencies base their ratings on such material and information, and such of their own investigations, studies and assumptions, as they deem appropriate. The ratings of UBS AG should be evaluated independently from similar ratings of other entities, and from the rating, if any, of its securities. A credit rating is not a recommendation to buy, sell or hold securities issued or guaranteed by the rated entity and may be subject to review, revision, suspension, reduction or withdrawal at any time by the assigning rating agency. Fitch is established in the UK and registered under Regulation (EU) No 1060/2009 as it forms part of domestic law of the UK by virtue of the EUWA (the **"UK CRA Regulation**") and currently appears on the list of credit rating agencies registered or certified with the Financial Conduct Authority published on its website www.fca.org.uk/markets/credit-rating-agencies/registered-certified-cras. Ratings given by Fitch are endorsed by Fitch Ratings Ireland Limited, which is established in the EEA and registered under Regulation (EU) No 1060/2009, as amended (the **"EU CRA Regulation"**) and currently appears on the list of credit rating agencies of the rating agencies.

¹ All figures based on the Swiss systemically relevant bank framework. Refer to the "Capital management" section of the Annual Report 2021 and of the UBS Group Third Quarter 2022 Report for more information. ² Full-time equivalents.

published by ESMA on its website www.esma.europa.eu in accordance with the EU CRA Regulation. S&P and Moody's are established in the European Union and registered under the EU CRA Regulation and currently appear on the list of credit ratings agencies published by ESMA on its website in accordance with the EU CRA Regulation. Ratings given by S&P and Moody's are endorsed by Standard & Poor's Global Ratings UK Limited and Moody's Investors Service Ltd, respectively, which are established in the UK and registered under the UK CRA Regulation and currently appear on the list of credit rating agencies registered or certified with the FCA published on its website.

No profit forecasts or estimates are included in this document.

No recent events particular to the Issuer have occurred which are to a material extent relevant to the evaluation of the Issuer's solvency.

2. Information about the Issuer

2.1 Corporate Information

The legal and commercial name of the Issuer is UBS AG.

The Issuer was incorporated under the name SBC AG on 28 February 1978 for an unlimited duration and entered in the Commercial Register of Canton Basel-City on that day. On 8 December 1997, the Issuer changed its name to UBS AG. The Issuer in its present form was created on 29 June 1998 by the merger of Union Bank of Switzerland (founded 1862) and Swiss Bank Corporation (founded 1872). UBS AG is entered in the Commercial Registers of Canton Zurich and Canton Basel-City. The registration number is CHE-101.329.561.

UBS AG is incorporated and domiciled in Switzerland and operates under the Swiss Code of Obligations as an Aktiengesellschaft, a corporation limited by shares. UBS AG's Legal Entity Identifier (LEI) code is BFM8T61CT2L1QCEMIK50.

According to article 2 of the articles of association of UBS AG dated 26 April 2018 ("**Articles of Association**"), the purpose of UBS AG is the operation of a bank. Its scope of operations extends to all types of banking, financial, advisory, trading and service activities in Switzerland and abroad. UBS AG may establish branches and representative offices as well as banks, finance companies and other enterprises of any kind in Switzerland and abroad, hold equity interests in these companies, and conduct their management. UBS AG is authorized to acquire, mortgage and sell real estate and building rights in Switzerland and abroad. UBS AG may borrow and invest money on the capital markets. UBS AG is part of the group of companies controlled by the group parent company UBS Group AG. It may promote the interests of the group parent company or other group companies. It may provide loans, guarantees and other kinds of financing and security for group companies.

The addresses and telephone numbers of UBS AG's two registered offices and principal places of business are: Bahnhofstrasse 45, CH-8001 Zurich, Switzerland, telephone +41 44 234 1111; and Aeschenvorstadt 1, CH-4051 Basel, Switzerland, telephone +41 61 288 5050.

2.2 UBS's borrowing and funding structure and financing of UBS's activities

For information on UBS's expected financing of its business activities, please refer to "*Liquidity and funding management*" in the "*Capital, liquidity and funding, and balance sheet*" section of the Annual Report 2021.

3. Business Overview

3.1 Organisational Structure of the Issuer

UBS AG is a Swiss bank and the parent company of the UBS AG Group. It is 100% owned by UBS Group AG, which is the holding company of the UBS Group. UBS operates as a group with four business divisions and Group Functions.

In 2014, UBS began adapting its legal entity structure in response to too-big-to-fail requirements and other regulatory initiatives. First, UBS Group AG was established as the ultimate parent holding company for the Group. In 2015, UBS AG transferred its personal & corporate banking and Swiss-booked wealth management businesses to the newly established UBS Switzerland AG, a banking subsidiary of UBS AG in Switzerland. That same year, UBS Business Solutions AG, a wholly owned subsidiary of UBS Group AG, was established and acts as the Group service company. In 2016, UBS Americas Holding LLC became the intermediate holding company for UBS's US subsidiaries and UBS's wealth management subsidiaries across Europe were merged into UBS Europe SE, UBS's German-headquartered European subsidiary. In 2019, UBS Limited, UBS's UK headquartered subsidiary, was merged into UBS Europe SE.

UBS Group AG's interests in subsidiaries and other entities as of 31 December 2021, including interests in significant subsidiaries, are discussed in "Note 29 Interests in subsidiaries and other entities" to the UBS Group AG's consolidated financial statements included in the UBS Group AG and UBS AG Annual Report 2021 published on 07 March 2022 ("**Annual Report 2021**").

UBS AG's interests in subsidiaries and other entities as of 31 December 2021, including interests in significant subsidiaries, are discussed in "Note 29 Interests in subsidiaries and other entities" to the UBS AG's consolidated financial statements included in the Annual Report 2021.

UBS AG is the parent company of, and conducts a significant portion of its operations through, its subsidiaries. UBS AG has contributed a significant portion of its capital and provides substantial liquidity to subsidiaries. In addition, UBS Business Solutions AG provides substantial services to group companies including UBS AG and its subsidiaries. To this extent, UBS AG is dependent on certain of the entities of the UBS AG Group and of the UBS Group.

3.2 Principal activities

UBS businesses are organised globally into four business divisions: Global Wealth Management, Personal & Corporate Banking, Asset Management, and the Investment Bank. All four business divisions are supported by Group Functions. Each of the business divisions and Group Functions are described below. A description of the businesses, organisational structures, products and services and targeted markets of the business divisions and Group Functions can be found under "*Our businesses*" in the "*Our strategy, business model and environment*" section of the Annual Report 2021.

- Global Wealth Management provides financial services, advice and solutions to private clients, in particular in the ultrahigh net worth and high net worth segments. Its offering ranges from investment management to estate planning and corporate finance advice, in addition to specific wealth management products and services. The business division is managed globally across the regions.
- Personal & Corporate Banking serves its private, corporate, and institutional clients' needs, from basic banking to retirement, financing, investments and strategic transactions, in Switzerland, through its branch network and digital channels.
- Asset Management is a large-scale and diversified global asset manager. It offers investment capabilities and styles across all major traditional and alternative asset classes, as well as advisory support to institutions, wholesale intermediaries and wealth management clients globally.
- The Investment Bank provides a range of services to institutional, corporate and wealth management clients globally, to help them raise capital, grow their businesses, invest and manage risks. Its offerings include advisory services, facilitating clients raising debt and equity from the public and private markets and capital markets, cash and derivatives trading across

equities and fixed income, and financing.

 Group Functions is made up of the following major areas: Group Services (which consists of Technology, Corporate Services, Human Resources, Finance, Legal, Risk Control, Compliance, Regulatory & Governance, Communications & Branding and Group Sustainability and Impact), Group Treasury and Non-core and Legacy Portfolio.

3.3 Competition

The financial services industry is characterised by intense competition, continuous innovation, restrictive, detailed, and sometimes fragmented regulation and ongoing consolidation. UBS faces competition at the level of local markets and individual business lines, and from global financial institutions that are comparable to UBS in their size and breadth, as well as competition from new technology-based market entrants, which may not be subject to the same level of regulation. Barriers to entry in individual markets and pricing levels are being eroded by new technology. UBS expects these trends to continue and competition to increase.

Any statements regarding the competitive position of UBS AG, UBS AG Group or the Group contained in this document are made on the basis of the opinion of UBS AG or the Group.

3.4 Recent Developments

3.4.1 UBS AG consolidated key figures

UBS AG derived the selected consolidated financial information included in the table below for the years ended 31 December 2021, 2020 and 2019 from the Annual Report 2021, except where noted. The selected consolidated financial information included in the table below for the nine months ended 30 September 2022 and 30 September 2021 was derived from the UBS AG Third Quarter 2022 Report.

The consolidated financial statements were prepared in accordance with International Financial Reporting Standards ("**IFRS**") issued by the International Accounting Standards Board ("**IASB**"). Information for the years ended 31 December 2021, 2020 and 2019 which is indicated as being unaudited in the table below was included in the Annual Report 2021, but has not been audited on the basis that the respective disclosures are not required under IFRS, and therefore are not part of the audited financial statements. Prospective investors should read the whole of this document, the Annual Report 2021 and the UBS AG Third Quarter 2022 Report and should not rely solely on the summarized information set out below.

	As of or fo months		As of or	for the year	ended
USD million, except where indicated	30.9.22	30.9.21	31.12.21	31.12.20	31.12.19
	unau	dited	audited, ex	cept where	indicated
Results					
Income statement					
Total revenues ¹	26,838	27,008	35,828	33,474	29,385
Net interest income	4,946	4,860	6,605	5,788	4,415
Net fee and commission income	14,664	16,897	22,438	19,207	17,460
Other net income from financial instruments measured at fair value through profit or loss	5,637	4,480	5,844	6,930	6,833
Credit loss expense / (release)	22	(121)	(148)	695	78

Operating expenses	19,644	19,785	27,012	25,081	24,138
Operating profit / (loss) before tax	7,171	7,345	8,964	7,699	5,169
Net profit / (loss) attributable to shareholders	5,566	5,777	7,032	6,196	3,965
Balance sheet ²					
Total assets	1,111,926		1,116,14 5	1,125,32 7	971,927
Total financial liabilities measured at amortized cost	682,047		744,762	732,364	617,429
of which: customer deposits	498,239		544,834	527,929	450,591
of which: debt issued measured at amortized cost	55,425		82,432	85,351	62,835
of which: subordinated debt	2,959		5,163	7,744	7,431
Total financial liabilities measured at fair value through profit or loss	365,946		300,916	325,080	291,452
of which: debt issued designated at fair value	67,696		71,460	59,868	66,592
Loans and advances to customers	374,747		398,693	380,977	327,992
Total equity	54,941		58,442	58,073	53,896
Equity attributable to shareholders	54,610		58,102	57,754	53,722
Profitability and growth					
Return on equity (%) ³	13.2	13.6	12.3*	10.9*	7.4*
Return on tangible equity (%) ⁴	14.8	15.3	13.9*	12.4*	8.5*
Return on common equity tier 1 capital (%) 5	17.7	19.5	17.6*	16.6*	11.3*
Return on leverage ratio denominator, gross (%) ^{6,7}	3.4	3.5	3.4*	3.4*	3.2*
Cost / income ratio (%) ⁸	73.2	73.3	75.4*	74.9*	82.1*
Net profit growth (%) ⁹	(3.6)	24.7	13.5*	56.3*	(3.4)*
Resources					
Common equity tier 1 capital ¹⁰	42,064	41,356	41,594	38,181	35,233*
Risk-weighted assets ¹⁰	308,571	299,612	299,005*	286,743*	257,831*
Common equity tier 1 capital ratio (%) ¹⁰	13.6	13.8	13.9*	13.3*	13.7*
Going concern capital ratio (%) ¹⁰	18.1	18.5	18.5*	18.3*	18.3*
Total loss-absorbing capacity ratio (%) ¹⁰	32.8	32.6	33.3*	34.2*	33.9*
Leverage ratio denominator ^{6, 10}	989,909	1,044,43 8	1,067,67 9*	1,036,77 1*	911,228*
Common equity tier 1 leverage ratio (%) 6, 10	4.25	3.96	3.90*	3.68*	3.87*
Other	. <u> </u>				1
Invested assets (USD billion) ¹¹	3,706	4,432	4,596	4,187	3,607
Personnel (full-time equivalents)	47,429	47,293	47,067*	47,546*	47,005*

* unaudited

² Except for *Total assets*, *Total equity* and *Equity attributable to shareholders*, balance sheet information for year ended 31 December 2019 is derived from the Annual Report 2020.

³ Calculated as annualized net profit attributable to shareholders divided by average equity attributable to shareholders. This measure provides information about the profitability of the business in relation to equity.

⁴ Calculated as annualized net profit attributable to shareholders divided by average equity attributable to shareholders less average goodwill and intangible assets. This measure provides information about the profitability of the business in relation to tangible equity.

⁵ Calculated as annualized net profit attributable to shareholders divided by average common equity tier 1 capital. This measure provides information about the profitability of the business in relation to common equity tier 1 capital.

⁶ Leverage ratio denominators and leverage ratios for year 2020 do not reflect the effects of the temporary exemption that applied from 25 March 2020 until 1 January 2021 and was granted by FINMA in connection with COVID-19.

⁷ Calculated as annualized total revenues divided by average leverage ratio denominator. This measure provides information about the revenues of the business in relation to the leverage ratio denominator.

⁸ Calculated as operating expenses divided by total revenues. This measure provides information about the efficiency of the business by comparing operating expenses with gross income.

⁹ Calculated as the change in net profit attributable to shareholders from continuing operations between current and comparison periods divided by net profit attributable to shareholders from continuing operations of the comparison period. This measure provides information about profit growth since the comparison period .

¹⁰ Based on the applicable Swiss systemically relevant bank framework as of 1 January 2020.

¹¹ Consists of invested assets for Global Wealth Management, Asset Management and Personal & Corporate Banking. Calculated as the sum of managed fund assets, managed institutional assets, discretionary and advisory wealth management portfolios, fiduciary deposits, time deposits, savings accounts, and wealth management securities or brokerage accounts. This measure provides information about the volume of client assets managed by or deposited with UBS for investment purposes.

3.4.2 Regulatory, legal and other developments

Refer to "*Recent developments*" in the UBS Group First Quarter 2022 Report, in the UBS Group Second Quarter 2022 Report and in the UBS Group Third Quarter 2022 Report, as well as to "*Our environment*" and "*Regulatory and legal developments*" in the Annual Report 2021, for further information on key regulatory, legal and other developments.

3.5 Trend Information

For information on trends, refer to "*Outlook*" under "*Group performance*", and to "*Country risk*" and "*Non-financial risk*" under "*Risk management and control*" in the UBS Group Third Quarter 2022 Report, as well as to the "*Our environment*" section, and to "*Top and emerging risks*" and "*Country risk*" in the "*Risk management and control*" section of the Annual Report 2021. In addition, please refer to the "*Risk factors*" and the "*Recent Developments*" sections of this document for more information.

¹ Effective from the second quarter of 2022, *Operating income* has been renamed *Total revenues* and excludes *Credit loss expense / (release)*, which is now presented separately on the Income statement. Prior-period information reflects the new presentation structure, with no effect on *Operating profit / (loss)* before tax and Net profit / (loss) attributable to shareholders.

4. Administrative, Management and Supervisory Bodies of the Issuer

UBS AG complies with all relevant Swiss legal and regulatory corporate governance requirements. As a foreign private issuer with debt securities listed on the New York Stock Exchange ("**NYSE**"), UBS AG also complies with the relevant NYSE corporate governance standards applicable to foreign private issuers.

UBS AG operates under a strict dual board structure, as mandated by Swiss banking law. The Board of Directors ("**BoD**") exercises the ultimate supervision over management, whereas the Executive Board ("**EB**"), headed by the President of the Executive Board ("**President of the EB**"), has executive management responsibility. The functions of Chairman of the BoD and President of the EB are assigned to two different people, ensuring a separation of power. This structure establishes checks and balances and preserves the institutional independence of the BoD from the executive management of UBS AG Group, for which responsibility is delegated to the EB under the leadership of the President of the EB. No member of one board may simultaneously be a member of the other.

Supervision and control of the EB remain with the BoD. The authorities and responsibilities of the two bodies are governed by the Articles of Association and the Organization Regulations of UBS AG.

4.1 Board of Directors

The BoD consists of between 5 and 12 members. All the members of the BoD are elected individually by the shareholders at the Annual General Meeting ("**AGM**") for a term of office of one year, which expires after the completion of the next AGM. Shareholders also elect the Chairman upon proposal of the BoD.

The BoD meets as often as business requires, and at least six times a year.

4.1.1 Members of the Board of Directors

The current members of the BoD are listed below.

Member	Title	Term of office	Current principal activities outside UBS AG
Colm Kelleher	Chairman	2023	Chairman of the Board of Directors of UBS Group AG; member of the board of Norfolk Southern Corporation (chair of the risk and finance committee); member of the Board of Directors of the Bretton Woods Committee; member of the board of the Swiss Finance Council; member of the board of Americans for Oxford; member of the Oxford Chancellor's Court of Benefactors; member of the Advisory Council of the British Museum; member of the International Advisory Council of the China Securities Regulatory Commission; member of the European Financial Services Round Table; member of the European Banking Group; member of the International Monetary Conference.
Lukas Gähwiler	Vice Chairman	2023	Vice Chairman of the Board of Directors of UBS Group AG; vice chairman of the Board of Directors of Pilatus Aircraft Ltd; member of the Board of Directors of Ringier AG; member of the Board of Directors of Opernhaus Zürich AG; vice chairman of the Swiss Bankers Association; chairman of the Employers Association of Banks in Switzerland; member of the Board of Directors of the Swiss Employers Association; member of the Board of economiesuisse; chairman of the Foundation Board of the UBS Pension Fund; member of the Foundation Council of the UBS

			Center for Economics in Society; and member of the board of the Swiss Finance Council.
Jeremy Anderson	Member	2023	Senior Independent Director of the Board of Directors of UBS Group AG; board member of Prudential plc; trustee of the UK's Productivity Leadership Group; trustee of Kingham Hill Trust; trustee of St. Helen Bishopsgate.
Claudia Böckstiegel	Member	2023	Member of the Board of Directors of UBS Group AG; General Counsel and member of the Enlarged Executive Committee of Roche Holding AG.
William C. Dudley	Member	2023	Member of the Board of Directors of UBS Group AG; member of the board of Treliant LLC; senior advisor to the Griswold Center for Economic Policy Studies at Princeton University; member of the Group of Thirty; member of the Council on Foreign Relations; chair of the Bretton Woods Committee board of directors; member of the board of the Council for Economic Education.
Patrick Firmenich	Member	2023	Member of the Board of Directors of UBS Group AG; chairman of the board of Firmenich International SA; chairman of Firmenich SA; member of the board of Jacobs Holding AG; member of the Board of INSEAD and INSEAD World Foundation; member of the Advisory Council of the Swiss Board Institute.
Fred Hu	Member	2023	Member of the Board of Directors of UBS Group AG; founder, chairman and CEO of Primavera Capital Group; non-executive chairman of the board of Yum China Holdings (chair of the nomination and governance committee); board member of Industrial and Commercial Bank of China; chairman of Primavera Capital Ltd; member of the Board of Ant Group; board member of Minsheng Financial Leasing Co.; trustee of the China Medical Board; Governor of the Chinese International School in Hong Kong SAR; co-chairman of the Nature Conservancy Asia Pacific Council; member of the Board of Trustees of the Institute for Advanced Study; director and member of the Executive Committee of China Venture Capital and Private Equity Association Ltd.
Mark Hughes	Member	2023	Member of the Board of Directors of UBS Group AG; chair of the Board of Directors of the Global Risk Institute; visiting lecturer at the University of Leeds; senior advisor to McKinsey & Company.
Nathalie Rachou	Member	2023	Member of the Board of Directors of UBS Group AG; member of the board of Euronext N.V. (chair of the remuneration committee); member of the board of Veolia Environnement SA (chair of the audit committee); member of the board of the African Financial Institutions Investment Platform.
Julie G. Richardson	Member	2023	Member of the Board of Directors of UBS Group AG; member of the board of Yext (chair of the audit committee); member of the board of Datalog (chair of the audit committee); member of the Board of Fivetran; ; member of the Board of Coalition, Inc.
Dieter Wemmer	Member	2023	Member of the Board of Directors of UBS Group AG; board member of Ørsted A/S (chair of the audit and risk committee); chairman of Marco Capital Holdings Limited, Malta and subsidiaries; member of the Berlin Center of Corporate Governance.

Jeanette Wong	Member	2023	Member of the Board of Directors of UBS Group AG; member of the board of Prudential plc; member of the board of Singapore Airlines Limited; member of the Board Risk Committee of GIC Pte Ltd; board member of Jurong Town Corporation; board member of PSA International; chairman of the CareShield Life Council; member of the Securities Industry Council; member of the Board of Trustees of the National University of Singapore.
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4.2 Executive Board ("EB")

Under the leadership of the President of the EB, the EB has executive management responsibility for UBS AG and its business. All EB members (with the exception of the President of the EB) are proposed by the President of the EB. The appointments are made by the BoD.

4.2.1 Members of the Executive Board

The current members of the EB are listed below.

Member and business address	Function	Current principal activities outside UBS AG
Ralph Hamers UBS AG, Bahnhofstrasse 45, CH- 8001 Zurich	President of the Executive Board	Member of the Group Executive Board and Group Chief Executive Officer of UBS Group AG; member of the Board of the Swiss-American Chamber of Commerce; member of the Institut International D'Etudes Bancaires; member of the IMD Foundation Board; member of the McKinsey Advisory Council; member of the World Economic Forum International Business Council; Governor of the Financial Services/Banking Community of the World Economic Forum ; member of the International Advisory Panel, Monetary Authority of Singapore.
Christian Bluhm UBS AG, Bahnhofstrasse 45, CH- 8001 Zurich	Chief Risk Officer	Member of the Group Executive Board and Group Chief Risk Officer of UBS Group AG; chairman of the Board of Christian Bluhm Photography AG; board member of UBS Switzerland AG; member of the Foundation Board of the UBS Pension Fund; member of the Foundation Board – International Financial Risk Institute.
Mike Dargan UBS AG, Bahnhofstrasse 45, CH- 8001 Zurich	Chief Digital and Information Officer	Member of the Group Executive Board and Group Chief Digital and Information Officer of UBS Group AG; President of the Executive Board and board member of UBS Business Solutions AG; member of the Board of Directors of Done Next Holdings AG; member of the Board of Trustees of the Inter-Community School Zurich; member of the Board of Governors of the International Baccalaureate.
Suni Harford UBS AG, 1285 Avenue of the Americas, New York, NY 10019 USA	President Asset Management	Member of the Group Executive Board and President Asset Management of UBS Group AG; chairman of the Board of Directors of UBS Asset Management AG; chair of the Board of UBS Optimus Foundation; member of the Leadership Council of the Bob Woodruff Foundation.

Naureen Hassan	President UBS Americas	Member of the Group Executive Board and President UBS Americas of UBS Group AG; CEO
UBS AG, 1285 Avenue of the Americas, New York, NY 10019 USA		of UBS Americas Holding LLC.
Robert Karofsky UBS AG, 1285 Avenue of the Americas, New York, NY 10019, USA	President Investment Bank	Member of the Group Executive Board and President Investment Bank of UBS Group AG; member of the board of UBS Americas Holding LLC; member of the board of UBS Optimus Foundation; trustee of the UBS Americas Inc. Political Action Committee.
Iqbal Khan UBS AG, Bahnhofstrasse 45, CH- 8001 Zurich	President Global Wealth Management and President UBS Europe, Middle East and Africa	Member of the Executive Board, President Global Wealth Management and President UBS Europe, Middle East and Africa of UBS Group AG; member of the Supervisory Board of UBS Europe SE; member of the board of UBS Optimus Foundation; board member of Room to Read Switzerland.
Edmund Koh UBS AG, One Raffles Quay North Tower, Singapore 048583	President UBS Asia Pacific	Member of the Group Executive Board and President UBS Asia Pacific of UBS Group AG; member of the Board of Trustees of the Wealth Management Institute, Singapore; board member of Next50 Limited, Singapore; board member of Medico Suites (S) Pte Ltd; member of a sub- committee of the Singapore Ministry of Finance's Committee on the Future Economy; member of the Financial Centre Advisory Panel of the Monetary Authority of Singapore; council member of the Asian Bureau of Finance and Economic Research; trustee of the Cultural Matching Fund, Singapore; member of University of Toronto's International Leadership Council for Asia.
Barbara Levi UBS AG, Bahnhofstrasse 45, CH- 8001 Zurich	General Counsel	Member of the Group Executive Board and Group General Counsel of UBS Group AG; member of the Employers' Board of the Global Institute for Women's Leadership, King's College London; member of the Board of Directors of the European General Counsel Association; member of the Legal Committee of the Swiss-American Chamber of Commerce.
Markus Ronner UBS AG, Bahnhofstrasse 45, CH- 8001 Zurich	Chief Compliance and Governance Officer	Member of the Group Executive Board and Group Chief Compliance and Governance Officer of UBS Group AG; chairman of the Board of Directors of UBS Switzerland AG.
Sarah Youngwood UBS AG, Bahnhofstrasse 45, CH- 8001 Zurich	Chief Financial Officer	Member of the Group Executive Board and Group Chief Financial Officer of UBS Group AG; member of the Board of UBS Business Solutions AG; Advisory Board Member – Wall Street Women's Alliance.

4.3 Potential Conflicts of Interest

Members of the BoD and the EB may act as directors or executive officers of other companies (for current principal positions outside UBS AG, if any, of BoD and EB members, please see sections 4.1.1 and 4.2.1 above, respectively) and may have economic or other private interests that differ from those of UBS AG. Conflicts of interest may potentially arise from these positions or interests. For example, it cannot be excluded that a member of the BoD or EB has or will have a function within a company, the shares of which are or will be traded by UBS AG or which has or will have a business relationship with UBS AG. UBS AG is confident that its internal corporate governance practices and its compliance with relevant legal and regulatory provisions reasonably ensure that any conflicts of interest of the type described above are appropriately managed, including through disclosure when appropriate.

Other than as indicated above, UBS is not aware of potential conflicts of interests between any duties to the Issuer of the members of the BoD and the EB and their private interests or other duties.

5. Auditors

Based on article 31 of the Articles of Association, UBS AG shareholders elect the auditors for a term of office of one year. At the AGMs of 27 April 2020, 7 April 2021 and 5 April 2022, Ernst & Young Ltd., Aeschengraben 27, 4051 Basel, Switzerland (**"Ernst & Young"**) was elected as auditor for the consolidated and standalone financial statements of UBS AG for a one-year term.

Ernst & Young is a member of EXPERTsuisse, the Swiss Expert Association for Audit, Tax and Fiduciary. Ernst & Young is also registered with the Swiss Federal Audit Oversight Authority, which is responsible for the licensing and supervision of audit firms and individuals that provide audit services in Switzerland.

6. Major Shareholders of the Issuer

UBS Group AG owns 100% of the outstanding shares of UBS AG. UBS AG is a wholly owned subsidiary of UBS Group AG. While UBS has no specific corporate measures intended to prevent abuse of control to the detriment of minority shareholders, UBS has adopted a comprehensive and integrated governance framework which takes into account the specific requirements of each relevant jurisdiction. This governance framework includes separate articles of association and organizational regulations for UBS Group AG and UBS AG. In addition, as UBS AG is regulated as a bank in Switzerland, it is subject to capital regulation and close supervisory oversight. This includes the general requirement under Swiss law that contracts of UBS AG with affiliates are subject to an arm's length principle of negotiation.

7. Financial Information concerning the Issuer's Assets and Liabilities, Financial Position and Profits and Losses

7.1 Historical Annual Financial Information

Detailed information about UBS AG consolidated and UBS AG assets and liabilities, financial position and profits and losses for financial year 2021 is available in the section "*UBS AG consolidated financial statements*" of the Annual Report 2021 and in the UBS AG's standalone financial statements for the year ended 31 December 2021 (the "**Standalone Financial Statements 2021**"), respectively; and for financial year 2020 it is available in the "*UBS AG consolidated financial statements*" section of the UBS Group AG and UBS AG annual report 2020, published on 5 March 2021 ("**Annual Report 2020**") and in the UBS AG's standalone financial statements for the year ended 31 December 2020 published on 5 March 2021 (the "**Standalone Financial Statements 2020**"). The consolidated and standalone financial accounts are closed on 31 December of each year. The annual financial reports form an essential part of UBS AG's reporting. They include the audited consolidated financial statements of UBS AG, prepared in accordance with International Financial Reporting Standards, as issued by the International Accounting Standards Board. The annual reports also include discussions and analysis of the consolidated financial and business results of UBS, its business divisions and Group Functions. In addition, UBS AG prepares and publishes standalone financial statements in accordance with Swiss GAAP, as well as certain additional disclosures required under US Securities and Exchange Commission regulations.

7.2 Auditing of Historical Annual Financial Information

The consolidated financial statements and the standalone financial statements of UBS AG for the financial years 2021 and 2020 were audited by Ernst & Young. The reports of the auditors on the consolidated financial statements can be found on pages 422-428 (inclusive) of the Annual Report 2021 and on pages 417-428 (inclusive) of the Annual Report 2020. The reports of the auditors on the standalone financial statements of UBS AG can be found on pages 37-42 (inclusive) of the Standalone Financial Statements 2021 and on pages 34-39 (inclusive) of the Standalone Financial Statements 2020.

There are no qualifications in the auditors' reports on the consolidated financial statements of UBS AG and the standalone financial statements of UBS AG for the years ended on 31 December 2021 and 31 December 2020.

7.3 Interim Financial Information

Reference is also made to (i) the UBS Group AG first quarter 2022 report published on 26 April 2022 ("UBS Group First Quarter 2022 Report") and the UBS AG first quarter 2022 report published on 29 April 2022 ("UBS AG First Quarter 2022 Report"), which contain information on the financial condition and results of operations, including the interim financial statements, of UBS Group AG consolidated and UBS AG consolidated, respectively, as of and for the period ended 31 March 2022; (ii) UBS Group AG second guarter 2022 report published on 26 July 2022 ("UBS Group Second Quarter 2022 Report") and the UBS AG second quarter 2022 report published on 29 July 2022 ("UBS AG Second Quarter 2022 Report"), which contain information on the financial condition and results of operations, including the interim financial statements, of UBS Group AG consolidated and UBS AG consolidated, respectively, as of and for the period ended 30 June 2022; and (iii) UBS Group AG third quarter 2022 report published on 25 October 2022 ("UBS Group Third Quarter 2022 Report") and the UBS AG third quarter 2022 report published on 28 October 2022 ("UBS AG Third Quarter 2022 Report"), which contain information on the financial condition and results of operations, including the interim financial statements, of UBS Group AG consolidated and UBS AG consolidated, respectively, as of and for the period ended 30 September 2022. The interim consolidated financial statements are not audited.

7.4 Litigation, Regulatory and Similar Matters

UBS operates in a legal and regulatory environment that exposes it to significant litigation and similar risks arising from disputes and regulatory proceedings. As a result, UBS is involved in various disputes and legal proceedings, including litigation, arbitration, and regulatory and criminal investigations. Such matters are subject to many uncertainties, and the outcome and the timing of resolution are often difficult to predict, particularly in the earlier stages of a case. The uncertainties inherent in all such matters affect the amount and timing of any potential outflows for both matters with respect to which provisions have been established and other contingent liabilities. Litigation, regulatory and similar matters may also result in non-monetary penalties and consequences. A guilty plea to, or conviction of, a crime could have material consequences for UBS. Resolution of regulatory proceedings may require UBS to obtain waivers of regulatory disqualifications to maintain certain

operations, may entitle regulatory authorities to limit, suspend or terminate licenses and regulatory authorizations and may permit financial market utilities to limit, suspend or terminate UBS's participation in such utilities. Failure to obtain such waivers, or any limitation, suspension or termination of licenses, authorizations or participations, could have material consequences for UBS.

Specific litigation, regulatory and other matters, including all such matters that management considers to be material and others that management believes to be of significance due to potential financial, reputational and other effects, are described in "*Note 16 Provisions and contingent liabilities*" to the UBS AG unaudited interim consolidated financial statements included in the UBS AG Third Quarter 2022 Report. The amount of damages claimed, the size of a transaction or other information is provided where available and appropriate in order to assist users in considering the magnitude of potential exposures.

7.5 Material Contracts

Except as otherwise disclosed in this document (including the documents incorporated herein by reference), no material contracts have been entered into outside of the ordinary course of UBS AG's or UBS AG Group's business which could result in any member of the UBS AG Group being under an obligation or entitlement that is material to UBS AG's ability to meet its obligations to the investors in relation to the issued securities.

7.6 Significant Changes in the Financial Position and Performance; Material Adverse Change in Prospects

Except as otherwise indicated in this document (including the documents incorporated herein by reference), no material changes have occurred in UBS AG's assets and liabilities, financial position or profits and losses since 30 September 2022.

8. Share Capital

As reflected in the Articles of Association most recently registered with the Commercial Register of the Canton of Zurich and the Commercial Register of Basel-City, UBS AG has (i) fully paid and issued share capital of CHF 385,840,846.60, divided into 3,858,408,466 registered shares with a par value of CHF 0.10 each (article 4), and (ii) conditional capital in the amount of CHF 38,000,000, comprising 380,000,000 registered shares with a par value of CHF 0.10 each that can be issued upon the voluntary or mandatory exercise of conversion rights and/or warrants (article 4a).

9. Documents Available

The most recent Articles of Association of UBS AG are available on UBS's Corporate Governance website, at www.ubs.com/governance. Save as otherwise indicated herein, information on or accessible through the Group's corporate website, www.ubs.com, does not form part of and is not incorporated into this document.

APPENDIX II

EXTRACT OF THE UNAUDITED CONSOLIDATED FINANCIAL STATEMENTS OF UBS AG AND ITS SUBSIDIARIES FOR THE THIRD QUARTER ENDED 30 SEPTEMBER 2022

UBS AG interim consolidated financial statements (unaudited)

Income statement

		For the quarter ended			Year-to-	date
USD m	Note	30.9.22	30.6.22	30.9.21	30.9.22	30.9.21
Interest income from financial instruments measured at amortized cost and fair value through						
other comprehensive income	3	3,081	2,381	2,178	7,607	6,382
Interest expense from financial instruments measured at amortized cost	3	(1,794)	(1,103)	(853)	(3,706)	(2,572)
Net interest income from financial instruments measured at fair value through profit or loss	3	278	356	339	1,045	1,049
Net interest income	3	1,565	1,634	1,664	4,946	4,860
Other net income from financial instruments measured at fair value through profit or loss		1,792	1,620	1,695	5,637	4,480
Fee and commission income	4	4,971	5,235	6,124	16,074	18,369
Fee and commission expense	4	(476)	(450)	(510)	(1,410)	(1,472)
Net fee and commission income	4	4,495	4,785	5,615	14,664	16,897
Other income	5	456	996	237	1,591	772
Total revenues		8,308	9,036	9,210	26,838	27,008
Credit loss expense / (release)	9	(3)	7	(14)	22	(121)
Personnel expenses	6	3,617	3,762	3,951	11,613	12,109
General and administrative expenses	7	2,077	2,364	2,101	6,674	6,312
Depreciation, amortization and impairment of non-financial assets		458	451	459	1,358	1,364
Operating expenses		6,152	6,577	6,512	19,644	19,785
Operating profit / (loss) before tax		2,159	2,452	2,712	7,171	7,345
Tax expense / (benefit)	8	551	478	549	1,577	1,550
Net profit / (loss)		1,608	1,974	2,163	5,594	5,795
Net profit / (loss) attributable to non-controlling interests		9	10	9	28	18
Net profit / (loss) attributable to shareholders		1,598	1,964	2,154	5,566	5,777

Statement of comprehensive income

	For th	e quarter en	ded	Year-to	-date
USD m	30.9.22	30.6.22	30.9.21	30.9.22	30.9.2
Comprehensive income attributable to shareholders					
Net profit / (loss)	1,598	1,964	2,154	5,566	5,777
Other comprehensive income that may be reclassified to the income statement					
Foreign currency translation					
oreign currency translation movements related to net assets of foreign operations, before tax	(1,097)	(994)	(383)	(2,556)	(1,342
Effective portion of changes in fair value of hedging instruments designated as net investment hedges, before tax	467	434	174	1,113	676
Foreign currency translation differences on foreign operations reclassified to the income statement	24	8	7	32	(1
Effective portion of changes in fair value of hedging instruments designated as net investment hedges reclassified to the income statement		(4)	0	(7)	
Income tax relating to foreign currency translations, including the impact of net investment hedges	(3) 6		53		7 59
Subtotal foreign currency translation, net of tax	(603)	(551)	(149)	(1,405)	(601
Financial assets measured at fair value through other comprehensive income	(000)	(001)	(1.13)	(1)100)	(00
Net unrealized gains / (losses), before tax	(3)	(3)	(44)	(445)	(154
Net realized gains / (losses) reclassified to the income statement from equity	0	0	0	0	(9
Reclassification of financial assets to Other financial assets measured at amortized cost ¹	•	449	0	449	()
Income tax relating to net unrealized gains / (losses)	0	(116)	11	(3)	42
Subtotal financial assets measured at fair value through other comprehensive income, net of tax	(3)	330	(33)	0	(121
Cash flow hedges of interest rate risk	(5)	330	(55)	0	(121
Effective portion of changes in fair value of derivative instruments designated as cash flow hedges, before tax ²	(2,053)	(1,298)	(112)	(5,816)	(742
	(2,055)				
Net (gains) / losses reclassified to the income statement from equity		(149)	(282)	(370)	(804
Income tax relating to cash flow hedges	373	276	(216)	1,168	292
Subtotal cash flow hedges, net of tax Cost of hedging	(1,664)	(1,171)	(316)	(5,018)	(1,254
	17	21	5	111	/10
Cost of hedging, before tax Income tax relating to cost of hedging		21 0	0	114 (3)	(18
Income lax relating to cost of regoing	(3)	0	0	(5)	C
	1.4				/10
Subtotal cost of hedging, net of tax	14 (2,257)	21 (1,370)	5 (493)	111 (6,312)	(18 (1,992
Subtotal cost of hedging, net of tax Total other comprehensive income that may be reclassified to the income statement, net of tax Other comprehensive income that will not be reclassified to the income statement		21	5	111	
Subtotal cost of hedging, net of tax Total other comprehensive income that may be reclassified to the income statement, net of tax Other comprehensive income that will not be reclassified to the income statement Defined benefit plans	(2,257)	21 (1,370)	5 (493)	111 (6,312)	(1,992
Subtotal cost of hedging, net of tax Total other comprehensive income that may be reclassified to the income statement, net of tax Other comprehensive income that will not be reclassified to the income statement Defined benefit plans Gains / (losses) on defined benefit plans, before tax	(2,257)	21 (1,370) 127	5 (493) 15	111 (6,312) 401	(1,992
Subtotal cost of hedging, net of tax Total other comprehensive income that may be reclassified to the income statement, net of tax Other comprehensive income that will not be reclassified to the income statement Defined benefit plans Gains / (losses) on defined benefit plans, before tax Income tax relating to defined benefit plans	(2,257) 146 40	21 (1,370) 127 (8)	5 (493) 15 (10)	111 (6,312) 401 14	(1,992 (20 (6
Subtotal cost of hedging, net of tax Total other comprehensive income that may be reclassified to the income statement, net of tax Other comprehensive income that will not be reclassified to the income statement Defined benefit plans Gains / (losses) on defined benefit plans, before tax Income tax relating to defined benefit plans Subtotal defined benefit plans, net of tax	(2,257)	21 (1,370) 127	5 (493) 15	111 (6,312) 401	(1,992 (20 (6
Subtotal cost of hedging, net of tax Total other comprehensive income that may be reclassified to the income statement, net of tax Other comprehensive income that will not be reclassified to the income statement Defined benefit plans Gains / (losses) on defined benefit plans, before tax Income tax relating to defined benefit plans Subtotal defined benefit plans, net of tax Own credit on financial liabilities designated at fair value	(2,257) 146 40	21 (1,370) 127 (8) 119	5 (493) 15 (10) 6	111 (6,312) 401 14	(1,992 (20 (6
Subtotal cost of hedging, net of tax Total other comprehensive income that may be reclassified to the income statement, net of tax Other comprehensive income that will not be reclassified to the income statement Defined benefit plans Gains / (losses) on defined benefit plans, before tax Income tax relating to defined benefit plans	(2,257) 146 40	21 (1,370) 127 (8)	5 (493) 15 (10)	111 (6,312) 401 14	(1,992 (20 (6 (25
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Subtotal cost of hedging, net of tax Total other comprehensive income that may be reclassified to the income statement, net of tax Other comprehensive income that will not be reclassified to the income statement Defined benefit plans Gains / (losses) on defined benefit plans, before tax Income tax relating to defined benefit plans Subtotal defined benefit plans, net of tax Own credit on financial liabilities designated at fair value	(2,257) 146 40 186 452	21 (1,370) 127 (8) 119 296	5 (493) 15 (10) 6 (98)	111 (6,312) 401 14 415 1,171	(1,992 (20 (25 (8 (8 0)
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1 Effective 1 April 2022, a portfolio of assets previously classified as Financial assets measured at fair value through other comprehensive income was reclassified to Uther financial assets measured at amortized cost. Refer to Note 1 for more information. 2 The result for the first nine months of 2022 mainly reflects net unrealized losses on US dollar hedging derivatives, resulting from significant increases in the relevant US dollar long-term interest rates.

Balance sheet

Balance sheet				
USD m	Note	30.9.22	30.6.22	31.12.21
Assets				
Cash and balances at central banks		166,406	190,353	192,817
Loans and advances to banks		14,403	16,435	15,360
Receivables from securities financing transactions		66,926	63,291	75,012
Cash collateral receivables on derivative instruments	11	48,210	43,766	30,514
Loans and advances to customers	9	374,747	384,878	398,693
Other financial assets measured at amortized cost	12	47,045	37,551	26,236
Total financial assets measured at amortized cost		717,738	736,274	738,632
Financial assets at fair value held for trading	10	84,833	99,730	131,033
of which: assets pledged as collateral that may be sold or repledged by counterparties		26,810	33,830	43,397
Derivative financial instruments	10,11	195,208	160,524	118,145
Brokerage receivables	10	22,510	19,289	21,839
Financial assets at fair value not held for trading	10	53,418	57,240	59,642
Total financial assets measured at fair value through profit or loss		355,969	336,784	330,659
Financial assets measured at fair value through other comprehensive income	10	2,243	2,251	8,844
Investments in associates		1,032	1,094	1,243
Property, equipment and software		10,939	11,109	11,712
Goodwill and intangible assets		6,210	6,312	6,378
Deferred tax assets		9,276	9,083	8,839
Other non-financial assets	12	8,519	9,567	9,836
Total assets		1,111,926	1,112,474	1,116,145
Liabilities Amounts due to banks		13,870	15,202	13,101
Payables from securities financing transactions		4,540	5,956	5,533
Cash collateral payables on derivative instruments	11	44,321	40,468	31,801
Customer deposits		498,239	514,344	544,834
Funding from UBS Group AG measured at amortized cost		55,663	57,089	57,295
Debt issued measured at amortized cost	14	55,425	65,820	82,432
Other financial liabilities measured at amortized cost	12	9,990	10,516	9,765
Total financial liabilities measured at amortized cost		682,047	709,395	744,762
Financial liabilities at fair value held for trading	10	30,741	30,450	31,688
Derivative financial instruments	10,11	192,300	156,892	121,309
Brokerage payables designated at fair value	10	48,093	49,798	44,045
Debt issued designated at fair value	10,13	67,696	70,457	71,460
Other financial liabilities designated at fair value	10,12	27,116	30,373	32,414
Total financial liabilities measured at fair value through profit or loss		365,946	337,970	300,916
Provisions	16	3,235	3,407	3,452
Other non-financial liabilities	12	5,757	6,618	8,572
Total liabilities		1,056,985	1,057,390	1,057,702
Equity Share capital		338	338	338
Share capital			24,661	
Share premium Potningd angrings		24,663		24,653
Retained earnings		30,681	28,592	27,912
Other comprehensive income recognized directly in equity, net of tax		(1,072)	1,154	5,200
Equity attributable to shareholders		54,610	54,746	58,102
Equity attributable to non-controlling interests		330	339	340
Total equity		54,941	55,085	1 116 145

lotal equity	
Total liabilities and equity	

1,116,145

1,111,926

1,112,474

Statement of changes in equity

			001			
	Share		recognized	of which:		Total equity
	capital and		directly in	foreign	of which:	attributable
	share	Retained	equity,	currency	cash flow	to
USD m	premium	earnings	net of tax ¹	translation	5	shareholders
Balance as of 1 January 2022 ²	24,991	27,912	5,200	4,617	628	58,102
Tax (expense) / benefit						6
Dividends		(4,200)				(4,200)
Translation effects recognized directly in retained earnings		(44)	44			0
Share of changes in retained earnings of associates and joint ventures		0				0
New consolidations / (deconsolidations) and other increases / (decreases)	4	3	(3)			4
Total comprehensive income for the period		7,010	(6,312)	(1,405)	(5,018)	698
of which: net profit / (loss)		5 566				5,566
of which: OCI, net of tax		1,444	(6,312)	(1,405)	(5,018)	(4,868)
Balance as of 30 September 2022 ²	25,001	30,681	(1,072)	3,212	(4,346)	54,610
Non-controlling interests as of 30 September 2022						330
Total equity as of 30 September 2022						54,941
Balance as of 1 January 2021 ²	24,918	25,251	7,585	5,126	2,321	57,754
Tax (expense) / benefit	(67)					(67)
Dividends		(1 530)				(4,539)
Translation effects recognized directly in retained earnings		22	(22)		(23)	0
Share of changes in retained earnings of associates and joint ventures		1				1
New consolidations / (deconsolidations) and other increases / (decreases)	185					185
Total comprehensive income for the period		5 7/2	(1 002)	(601)	(1,254)	3,751
of which: net profit / (loss)		5.777				5.777
of which: OCI, net of tax		(34)	(1,992)	(601)	(1,254)	(2,026)
Balance as of 30 September 2021 ²	25,036	26,480	5,569	4,526	1,044	57,085
Non-controlling interests as of 30 September 2021						333
Total equity as of 30 September 2021						57,418

1 Excludes other comprehensive income related to defined benefit plans and own credit that is recorded directly in Retained earnings. 2 Excludes non-controlling interests.

	Year-to-da	
USD m	30.9.22	30.9.2
Cash flow from / (used in) operating activities		
Net profit / (loss)	5,594	5,795
Non-cash items included in net profit and other adjustments:		
Depreciation, amortization and impairment of non-financial assets	1,358	1,364
Credit loss expense / (release)	22	(121
Share of net (profit) / loss of associates and joint ventures and impairment related to associates	(31)	(72
Deferred tax expense / (benefit)	553	426
Net loss / (gain) from investing activities	(934)	(321
Net loss / (gain) from financing activities	(22,615)	(217
Other net adjustments	14,674	5,395
Vet change in operating assets and liabilities:		
oans and advances to banks and amounts due to banks	1,808	2,626
Securities financing transactions at amortized cost	5,347	(1,926
Cash collateral on derivative instruments	(5,320)	(3,174
oans and advances to customers and customer deposits	(17,474)	(14,510
inancial assets and liabilities at fair value held for trading and derivative financial instruments	23,045	(3,808
Brokerage receivables and payables	3,243	10,715
inancial assets at fair value not held for trading and other financial assets and liabilities	4,185	18,157
Provisions and other non-financial assets and liabilities	(4)	1,766
Income taxes paid, net of refunds	(1,230)	(674
Net cash flow from / (used in) operating activities	12,219	21,421
Cash flow from / (used in) investing activities		
Purchase of subsidiaries, associates and intangible assets	0	(1
Disposal of subsidiaries, associates and intangible assets	1,682 ¹	564
Purchase of property, equipment and software	(1,066)	(1,146
Disposal of property, equipment and software	9	268
Purchase of financial assets measured at fair value through other comprehensive income	(3,958)	(3,118
Disposal and redemption of financial assets measured at fair value through other comprehensive income	3,234	2,798
Net (purchase) / redemption of debt securities measured at amortized cost	(8,228)	223
Net cash flow from / (used in) investing activities	(8,329)	(414
Cash flow from / (used in) financing activities		
Net short-term debt issued / (repaid)	(16,249)	(7,717
Distributions paid on UBS AG shares	(4,200)	(4,539
ssuance of debt designated at fair value and long-term debt measured at amortized cost ²	68,812	81,146
Repayment of debt designated at fair value and long-term debt measured at amortized $cost^2$	(54,184)	(65,416
Net cash flows from other financing activities	(460)	(129
Net cash flow from / (used in) financing activities	(6,282)	3,345
Total cash flow		
Cash and cash equivalents at the beginning of the period	207,755	173,430
Net cash flow from / (used in) operating, investing and financing activities	(2,391)	24,352
ffects of exchange rate differences on cash and cash equivalents	(15,773)	(6,895
Cash and cash equivalents at the end of the period ³	189,592	190,888
Additional information		
Net cash flow from / (used in) operating activities includes:		
Interest received in cash	10,197	8,292
Interest paid in cash	5,120	3,981
Dividends on equity investments, investment funds and associates received in cash	1,556	1,969

Includes cash proceeds from the sales of: UBS AG is shareholding in its Japanese real restate joint venture, Mitsubish Corp.-UBS Kearty Inc.; UBS AG is wholly owned subsidiary UBS SMSs Financial Advisers AG; and UBS AG's domestic wealth management business in Spain. 2 Includes funding from UBS Group AG measured at amortized cost (recognized in Funding from UBS Group AG measured at amortized cost (recognized in Funding from UBS Group AG measured at fair value in the balance sheet). 3 Consists of balances with an original maturity of three months or less. USD 3,855m and USD 3,823m (mainly reflected in Loans and advances to banks) were restricted as of 30 September 2022 and 30 September 2021, respectively. Refer to "Note 23 Restricted and transferred financial assets" in the "Consolidated financial statements" section of the Annual Report 2021 for more information.

Notes to the UBS AG interim consolidated financial statements (unaudited)

Note 1 Basis of accounting

Basis of preparation

The consolidated financial statements (the financial statements) of UBS AG and its subsidiaries (together, UBS AG) are prepared in accordance with International Financial Reporting Standards (IFRS), as issued by the International Accounting Standards Board (the IASB), and are presented in US dollars (USD). These interim financial statements are prepared in accordance with IAS 34, *Interim Financial Reporting*.

In preparing these interim financial statements, the same accounting policies and methods of computation have been applied as in the UBS AG consolidated annual financial statements for the period ended 31 December 2021, except for the changes described in this Note. These interim financial statements are unaudited and should be read in conjunction with UBS AG's audited consolidated financial statements in the Annual Report 2021. In the opinion of management, all necessary adjustments have been made for a fair presentation of UBS AG's financial position, results of operations and cash flows.

Preparation of these interim financial statements requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, income, expenses and disclosures of contingent assets and liabilities. These estimates and assumptions are based on the best available information. Actual results in the future could differ from such estimates and differences may be material to the financial statements. Revisions to estimates, based on regular reviews, are recognized in the period in which they occur. For more information about areas of estimation uncertainty that are considered to require critical judgment, refer to "Note 1a Material accounting policies" in the "Consolidated financial statements" section of the Annual Report 2021.

Changes to the presentation of the financial statements

Effective from the second quarter of 2022, UBS AG has made several changes to simplify the presentation of the income statement alongside other primary financial statements and disclosure notes and to align them with management information. In particular, *Total operating income* has been renamed *Total revenues* and excludes *Credit loss expense / (release)*, which is now separately presented below *Total revenues*.

Reclassification of a portfolio from *Financial assets measured at fair value through other comprehensive income* to *Other financial assets measured at amortized cost*

Effective from 1 April 2022, UBS AG has reclassified a portfolio of financial assets from *Financial assets measured at fair value through other comprehensive income* (FVOCI) with a fair value of USD 6.9bn (the Portfolio) to *Other financial assets measured at amortized cost* in line with the principles in IFRS 9, *Financial Instruments*, which require a reclassification when an entity changes its business model for managing financial assets.

The Portfolio's cumulative fair value losses of USD 449m pre-tax and USD 333m post-tax, previously recognized in *Other comprehensive income*, have been removed from equity and adjusted against the value of the assets at the reclassification date, so that the Portfolio is measured as if the assets had always been classified at amortized cost, with a value as of 1 April 2022 of USD 7.4bn.

The reclassification had no effect on the income statement.

The reclassified Portfolio is made up of high-quality liquid assets, primarily US government treasuries and US government agency mortgage-backed securities, held and separately managed by UBS Bank USA (BUSA).

Note 1 Basis of accounting (continued)

The accounting reclassification has arisen as a direct result of the transformation of UBS AG's Global Wealth Management Americas business that has significantly impacted BUSA. This includes initiatives approved by the Group Executive Board to significantly grow and extend the business, as disclosed on 1 February 2022 during UBS's fourth quarter 2021 earnings presentation. BUSA's deposit base has grown by more than 100% in the last two years, generating substantial cash balances, with a number of new products being launched, including new deposit types that are longer in duration, additional lending and a broader range of customer segments targeted.

Following the commencement of these activities and the announcement made in the first quarter of 2022, the Portfolio is no longer held in a business model to collect the contractual cash flows and sell the assets, but is instead solely held to collect the contractual cash flows until the assets mature, requiring a reclassification of the Portfolio in line with IFRS 9 with effect from 1 April 2022.

The fair value of the Portfolio as of 30 September 2022 was USD 5.8bn (30 June 2022: USD 6.4bn). A pre-tax fair value loss of USD 515m would have been recognized in *Other comprehensive income* during the third quarter of 2022 (second quarter of 2022: USD 264m) if the Portfolio had not been reclassified.

Currency translation rates

The following table shows the rates of the main currencies used to translate the financial information of UBS AG's operations with a functional currency other than the US dollar into US dollars.

		Closing exchange rate				Average rate ¹						
		As of				e quarter end	Year-to-date					
	30.9.22	30.6.22	31.12.21	30.9.21	30.9.22	30.6.22	30.9.21	30.9.22	30.9.21			
1 CHF	1.01	1.05	1.10	1.07	1.03	1.04	1.09	1.05	1.09			
1 EUR	0.98	1.05	1.14	1.16	0.99	1.06	1.17	1.05	1.19			
1 GBP	1.12	1.22	1.35	1.35	1.16	1.25	1.37	1.24	1.38			
100 JPY	0.69	0.74	0.87	0.90	0.72	0.76	0.90	0.78	0.91			

1 Monthly income statement items of operations with a functional currency other than the US dollar are translated into US dollars using month-end rates. Disclosed average rates for a quarter represent an average of three month-end rates, weighted according to the income and expense volumes of all operations of UBS AG with the same functional currency for each month. Weighted average rates for individual business divisions may deviate from the weighted average rates for UBS AG.

Note 2 Segment reporting

		Personal &				
	Global Wealth	Corporate	Asset	Investment	Group	
USD m	Management	Banking	Management	Bank	Functions	UBS AG
For the nine months ended 30 September 2022 ¹						
Net interest income	3,775	1,559	(12)	(1)	(375)	4,946
Non-interest income	10,588	1,616	2,478	7,033	177	21,892
Total revenues	14,363	3,175	2,466	7,031	(197)	26,838
Credit loss expense / (release)	(3)	42	0	(20)	2	22
Operating expenses	10,518	1,867	1,192	5,320	748	19,644
Operating profit / (loss) before tax	3,847	1,266	1,274	1,731	(947)	7,171
Tax expense / (benefit)						1,577
Net profit / (loss)						5,594
As of 30 September 2022 ¹						
Total assets	384,057	217,409	15,968	426,064	68,427	1,111,926
For the nine months ended 30 September 2021 ¹						
Net interest income	3,130	1,577	(11)	318	(155)	4,860
Non-interest income	11,467	1,610	1,906	6,920	245	22,149
Total revenues	14,597	3,187	1,896	7,238	90	27,008
Credit loss expense / (release)	(27)	(76)	0	(19)	0	(121)
Operating expenses	10,460	1,899	1,200	5,375	851	19,785
Operating profit / (loss) before tax	4,165	1,365	695	1,882	(762)	7,345
Tax expense / (benefit)						1,550
Net profit / (loss)						5,795
As of 31 December 2021 ¹						
Total assets ²	395,235	225,425	25,202	346,641	123,641	1,116,145

1 Refer to "Note 2 Segment reporting" in the "Consolidated financial statements" section of the Annual Report 2021 for more information about UBS AG's reporting segments. 2 In the first quarter of 2022, UBS AG refined the methodology applied to allocate balance sheet resources from Group Functions to the business divisions, with prospective effect. If the new methodology had been applied as of 31 December 2021, balance sheet assets allocated to business divisions would have been USD 17bn higher, of which USD 14bn would have related to the Investment Bank.

Note 3 Net interest income

	For the	e quarter ei	ended Year-to		o-date	
USD m	30.9.22	30.6.22	30.9.21	30.9.22	30.9.21	
Interest income from loans and deposits ¹	2,523	1,887	1,644	6,071	4,843	
Interest income from securities financing transactions ² Interest income from other financial instruments measured at amortized cost	415	209	132	742	393	
	148	118	71	338	213	
Interest income from debt instruments measured at fair value through other comprehensive income	12	6	33	60	84	
Interest income from derivative instruments designated as cash flow hedges	(17)	160	297	396	849	
Total interest income from financial instruments measured at amortized cost and fair value through other comprehensive income	3,081	2,381	2,178	7,607	6,382	
Interest expense on loans and deposits ³	1,226	618	408	2,272	1,262	
Interest expense on securities financing transactions ⁴	282	288	299	794	850	
Interest expense on debt issued	265	176	122	576	385	
Interest expense on lease liabilities	21	21	24	64	75	
Total interest expense from financial instruments measured at amortized cost	1,794	1,103	853	3,706	2,572	
Total net interest income from financial instruments measured at amortized cost and fair value through other comprehensive						
income	1,287	1,278	1,325	3,901	3,810	
Net interest income from financial instruments measured at fair value through profit or loss	278	356	339	1,045	1,049	
Total net interest income	1,565	1,634	1,664	4,946	4,860	

1 Consists of interest income from cash and balances at central banks, loans and advances to banks and customers, and cash collateral receivables on derivative instruments, as well as negative interest on amounts due to banks, customer deposits, and cash collateral payables from securities financing transactions and negative interest, including fees, on payables from securities financing transactions. 3 Consists of interest expense on amounts due to banks, cash collateral payables on derivative instruments, customer deposits, and funding from UBS Group AG, as well as negative interest on cash and balances at central banks, loans and advances to banks, and cash collateral payables on derivative instruments, customer deposits, and funding from UBS Group AG, as well as negative interest on cash and balances at central banks, loans and advances to banks, and cash collateral receivables on derivative instruments. 4 Includes interest expense on payables from securities financing transactions.

Note 4 Net fee and commission income

	For th	e quarter e	Year-to-date		
USD m	30.9.22	30.6.22	30.9.21	30.9.22	30.9.21
Underwriting fees	188	122	353	512	1,165
M&A and corporate finance fees	152	220	315	608	883
Brokerage fees	780	870	1,017	2,728	3,412
Investment fund fees	1,173	1,233	1,428	3,794	4,270
Portfolio management and related services	2,178	2,298	2,517	6,938	7,227
Other	500	492	495	1,494	1,411
Total fee and commission income ¹	4,971	5,235	6,124	16,074	18,369
of which: recurring	3,453	3,593	3,951	10,905	11,395
of which: transaction-based	1,504	1,632	2,139	5, 126	6,80
of which: performance-based	14	10	34	43	17.
Fee and commission expense	476	450	510	1,410	1,472
Net fee and commission income	4,495	4,785	5,615	14,664	16,897

1 Reflects third-party fee and commission income for the third quarter of 2022 of USD 3,106m for Global Wealth Management (second quarter of 2022: USD 3,281m; third quarter of 2021: USD 3,663m), USD 398m for Personal & Corporate Banking (second quarter of 2022: USD 422m; third quarter of 2021: USD 429m), USD 682m for Asset Management (second quarter of 2022: USD 720m; third quarter of 2021: USD 815m), USD 782m for the Investment Bank (second quarter of 2022: USD 811m; third quarter of 2021: USD 1,214m) and USD 2m for Group Functions (second quarter of 2022: USD 1m; third quarter of 2021: USD 3m).

Note 5 Other income

UBS AG recognized other income of USD 456m in the third quarter of 2022, which included pre-tax gains in Global Wealth Management of USD 133m on the sale of UBS AG's domestic wealth management business in Spain and USD 86m on the sale of UBS AG's wholly owned subsidiary UBS Swiss Financial Advisers AG, as well as a USD 70m gain related to a legacy litigation settlement. In the second quarter of 2022, UBS AG recognized other income of USD 996m, which included a pre-tax gain of USD 848m in Asset Management on the sale of UBS AG's minority shareholding in its Japanese real estate joint venture, Mitsubishi Corp.-UBS Realty Inc. In the third quarter of 2021, UBS AG recognized other income of USD 237m, which included a pre-tax gain of USD 100m from the sale of UBS AG's domestic wealth management business in Austria.

Note 6 Personnel expenses

	For th	ie quarter ei	Year-to-date		
USD m	30.9.22	30.6.22	30.9.21	30.9.22	30.9.21
Salaries and variable compensation	2,057	2,194	2,212	6,716	7,013
Financial advisor compensation ¹	1,093	1,122	1,239	3,436	3,592
Contractors	29	30	33	87	107
Social security	179	164	205	571	603
Post-employment benefit plans	122	137	140	442	459
Other personnel expenses	136	116	123	361	335
Total personnel expenses	3,617	3,762	3,951	11,613	12,109

1 Financial advisor compensation consists of formulaic compensation based directly on compensable revenues generated by financial advisors and supplemental compensation calculated on the basis of financial advisor productivity, firm tenure, new assets and other variables. It also includes expenses related to compensation commitments with financial advisors entered into at the time of recruitment that are subject to vesting requirements.

Note 7 General and administrative expenses

	For th	For the quarter ended				
USD m	30.9.22	30.6.22	30.9.21	30.9.22	30.9.21	
Outsourcing costs	109	115	112	331	296	
IT expenses	122	126	116	370	363	
Consulting, legal and audit fees	116	123	111	343	310	
Real estate and logistics costs	119	129	137	371	391	
Market data services	91	89	90	273	272	
Marketing and communication	45	43	34	119	101	
Travel and entertainment	39	43	17	101	37	
Litigation, regulatory and similar matters ¹	21	220	12	298	84	
Other	1,416	1,475	1,473	4,467	4,459	
of which: shared services costs charged by UBS Group AG or its subsidiaries	1,237	1,348	1,288	3,975	3,957	
Total general and administrative expenses	2,077	2,364	2,101	6,674	6,312	

1 Reflects the net increase in provisions for litigation, regulatory and similar matters recognized in the income statement. Refer to Note 16b for more information.

Note 8 Income taxes

UBS AG recognized income tax expenses of USD 551m for the third quarter of 2022, representing an effective tax rate of 25.6%, compared with USD 549m and an effective tax rate of 20.2% for the third quarter of 2021.

Current tax expenses were USD 347m, compared with USD 400m, and related to taxable profits of UBS Switzerland AG and other entities.

Deferred tax expenses were USD 204m, compared with USD 148m. These include an expense of USD 173m that primarily relates to the amortization of deferred tax assets that were previously recognized in relation to tax losses carried forward and deductible temporary differences of UBS Americas Inc. They also include an expense of USD 31m in respect of a decrease in the expected value of future tax deductions for deferred compensation awards, due to a decrease in the Group's share price during the quarter.

a) Credit loss expense / release

Total net credit loss releases in the third quarter of 2022 were USD 3m, reflecting USD 4m net credit loss expenses related to stage 1 and 2 positions and USD 7m net credit loss releases primarily related to stage 3 positions in Personal & Corporate Banking.

Stage 1 and 2 net expenses of USD 4m included scenario-update-related expenses of USD 13m, mainly from the update of interest rate forecasts, partly offset by the net effect of changes to models and portfolio quality and size.

b) Changes to ECL models, scenarios, scenario weights and post-model adjustments

Scenarios and scenario weights

The expected credit loss (ECL) scenarios, along with their related macroeconomic factors and market data, were reviewed in light of the economic and political conditions prevailing in the third quarter of 2022 through a series of governance meetings, with input and feedback from UBS AG Risk and Finance experts across the business divisions and regions. UBS AG decided to apply the same scenarios and weights in the third quarter of 2022 as in the second quarter of 2022.

The baseline scenario assumptions on a calendar-year basis are included in the table on the next page. Such baseline information includes interest rate increases by central banks in September 2022, as well as other updated macro-economic data.

The global crisis scenario and the asset price inflation scenario were updated with current macroeconomic factors, but remain materially unchanged compared with the second quarter of 2022. Shocks in equity prices in the global crisis scenario have been made slightly less severe in the third quarter of 2022 than in the second quarter to reflect the decline seen in the first half of 2022.

As a response to inflationary developments and the war in Ukraine, in the first quarter of 2022 UBS AG replaced the mild global interest rate steepening scenario applied at year-end 2021 with the severe global interest rate steepening scenario. In the second quarter of 2022, a new severe Russia–Ukraine conflict scenario was developed. It has similar dynamics to the severe global interest rate steepening scenario, but includes a deepening energy crisis and disruptions in the delivery of Russian energy. These factors have resulted in surging commodity prices and accelerated inflation in major economies, compared with the severe global interest rate steepening scenario. Eurozone economic activity in particular is impacted in this scenario, due to the region's reliance on its supply of energy from Russia. Equity price shocks in the severe Russia–Ukraine conflict scenario have been made slightly less severe in the third quarter of 2022 than in the second quarter, to reflect the decline seen in the first half of 2022.

Refer to the table on the next page for scenarios and weights applied.

Post-model adjustments

Total stage 1 and 2 allowances and provisions amounted to USD 507m as of 30 September 2022 and included post-model adjustments (PMA) of USD 151m (30 June 2022: USD 155m; 31 December 2021: USD 224m).

The PMA represent uncertainty and risk related to substantially heightened geopolitical tensions and the continued COVID-19 pandemic, which cannot be fully and reliably modeled, due to a lack of sufficiently supportable data.

The PMA were reduced during the second and first quarters of 2022 as the application of different and more adverse scenarios and scenario assumptions in UBS AG's models addressed some of the uncertainties that had been reflected in the PMA in prior periods.

Comparison of shock factors

		Baseline				
Key parameters	2021	2022	2023			
Real GDP growth (annual percentage change)						
US	5.5	1.7	0.6			
Eurozone	5.1	2.9	0.8			
Switzerland	3.1	2.1	0.6			
Unemployment rate (%, annual average)						
US	5.4	3.6	3.7			
Eurozone	7.7	6.7	6.9			
Switzerland	3.0	2.2	2.1			
Fixed income: 10-year government bonds (%, Q4)						
010	1.J	5.0	5.7			
EUR	(0.2)	2.2	2.2			
CHF	(0.1)	1.3	1.4			
Real estate (annual percentage change, Q4)						
US	16.1	10.1	1.7			
Eurozone	7.9	3.3	0.5			
Switzerland	6.0	5.0	0.0			

Economic scenarios and weights applied

	Assign	Assigned weights in %					
ECL scenario	30.9.22	30.6.22	31.12.21				
Upside	0.0	0.0	5.0				
Baseline	55.0	55.0	55.0				
Mild global interest rate steepening	-	-	10.0				
Severe Russia–Ukraine conflict scenario	25.0	25.0					
Global crisis	20.0	20.0	30.0				

c) ECL-relevant balance sheet and off-balance sheet positions including ECL allowances and provisions

The following tables provide information about financial instruments and certain non-financial instruments that are subject to ECL requirements. For amortized-cost instruments, the carrying amount represents the maximum exposure to credit risk, taking into account the allowance for credit losses. Financial assets measured at fair value through other comprehensive income (FVOCI) are also subject to ECL; however, unlike amortized-cost instruments, the allowance for credit losses for FVOCI instruments does not reduce the carrying amount of these financial assets. Instead, the carrying amount of financial assets measured at FVOCI represents the maximum exposure to credit risk.

In addition to recognized financial assets, certain off-balance sheet financial instruments and other credit lines are also subject to ECL. The maximum exposure to credit risk for off-balance sheet financial instruments is calculated based on the maximum contractual amounts.

USD m	30.9.22									
		Carrying a				ECL allow				
Financial instruments measured at amortized cost	Total	Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 3		
Cash and balances at central banks	166,406	166,350	56	0	(15)	0	(15)	0		
Loans and advances to banks	14,403	14,342	61	0	(6)	(5)	(1)	0		
Receivables from securities financing transactions	66,926	66,926	0	0	(2)	(2)	0	0		
Cash collateral receivables on derivative instruments	48,210	48,210	0	0	0	0	0	0		
Loans and advances to customers	374,747	358,320	14,973	1,455	(760)	(124)	(170)	(466)		
of which: Private clients with mortgages	148,347	140,274	7,430	643	(129)	(26)	(78)	(25)		
of which: Real estate financing	42,647	<i>38,981</i>	3,658	8	(55)	(17)	(38)	0		
of which: Large corporate clients	11,775	10,035	1,458	282	(119)	(20)	(18)	(81)		
of which: SME clients	13,032	11,504	1,179	349	(241)	(24)	(22)	(195)		
of which: Lombard	134,535	134,455	0	79	(34)	(8)	0	(26)		
of which: Credit cards	1,737	1,352	358	27	(36)	(10)	(10)	(17)		
of which: Commodity trade finance	3,383	3,368	0	15	(92)	(5)	0	(86)		
Other financial assets measured at amortized cost	47,045	46,482	404	160	(92)	(18)	(7)	(67)		
of which: Loans to financial advisors	2,505	2,191	187	128	(69)	(10)	(3)	(56)		
Total financial assets measured at amortized cost	717,738	700,630	15,494	1,614	(874)	(149)	(192)	(533)		
Financial assets measured at fair value through other comprehensive income	2,243	2,243	0	0	0	0	0	0		
Total on-balance sheet financial assets in scope of ECL requirements	719,981	702,872	15,494	1,614	(874)	(149)	(192)	(533)		
		Total ex	posure		ECL provisions					
Off-balance sheet (in scope of ECL)	Total	Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 3		
Guarantees	20,835	19,652	1,054	128	(36)	(12)	(8)	(16)		
of which: Large corporate clients	3,537	2,714	748	75	(12)	(2)	(3)	(7)		
of which: SME clients	1,201	1,015	134	52	(7)	(1)	(1)	(5) 0		
of which: Financial intermediaries and hedge funds	10,950	10,882	68	0	(11)	(8)	(4)	0		
of which: Lombard	2,273	2,272	0	1	(1)	0	0	(1)		
of which: Commodity trade finance	2,062	2,061	0	0	(1)	(1)	0	0		
Irrevocable loan commitments	37,456	34,996	2,378	82	(102)	(60)	(42)	0		
of which: Large corporate clients	22,121	20,283	1,779	58	(85)	(51)	(34)	0		
Forward starting reverse repurchase and securities borrowing agreements	8,161	8,161	0	0	0	0	0	0		
Committed unconditionally revocable credit lines	38,652	36,691	1,918	43	(42)	(30)	(12)	0		
of which: Real estate financing	8,223	8,099	124	0	(5)	(5)	0	0		
of which: Large corporate clients	3,889	3,448	436	5	(8)	(2)	(6)	0		
of which: SME clients	4,446	4,111	306	29	(17)	(14)	(3)	0		
of which: Lombard	6,884	6,879	0	5	0	0	0	0		
of which: Credit cards	8,976	8,537	435	3	(6)	(4)	(2)	0		
of which: Commodity trade finance	282	282	0	0	0	0	0	0		
Irrevocable committed prolongation of existing loans	3,732	3,725	4	4	(2)	(2)	0	0		
Total off-balance sheet financial instruments and other credit lines	108,837	103,225	5,355	257	(182)	(104)	(62)	(16)		

Total allowances and provisions

1 The carrying amount of financial assets measured at amortized cost represents the total gross exposure net of the respective ECL allowances.

USD m				30.6.2	22			
		Carrying	amount ¹			ECL allow	vances	
Financial instruments measured at amortized cost	Total	Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 3
Cash and balances at central banks	190,353	190,296	57	0	(13)	0	(13)	0
Loans and advances to banks	16,435	16,318	117	0	(8)	(7)	(1)	0
Receivables from securities financing transactions	63,291	63,291	0	0	(2)	(2)	0	0
Cash collateral receivables on derivative instruments	43,766	43,766	0	0	0	0	0	0
Loans and advances to customers	384,878	367,433	15,759	1,686	(793)	(129)	(163)	(501)
of which: Private clients with mortgages	150,884	142,050	8,064	770	(126)	(27)	(72)	(27)
of which: Real estate financing	43,291	39,358	3,925	7	(59)	(17)	(42)	0
of which: Large corporate clients	12,208	10,791	1,088	329	(141)	(27)	(17)	(98)
of which: SME clients	13,309	11,744	1,167	397	(249)	(22)	(22)	(205)
of which: Lombard	140,333	140,251	0	82	(37)	(7)	0	(29)
of which: Credit cards	1,760	1,384	349	27	(36)	(10)		(17)
of which: Commodity trade finance	3,699	3,686	0	12	(94)	(5)		(89)
Other financial assets measured at amortized cost ²	37.551	37.000	391	160	(99)	(18)	0 (7)	(74)
of which: Loans to financial advisors	2,447	2,171	144	132	(78)	(11)	(2)	(64)
Total financial assets measured at amortized cost	736,274	718,104	16,325	1,846	(915)	(155)	(184)	(575)
Financial assets measured at fair value through other comprehensive income ²	2,251	2,251	0	0	0	0	0	0
Total on-balance sheet financial assets in scope of ECL requirements	738,525	720,355	16,325	1,846	(915)	(155)	(184)	(575)
		Total ex	posure			ECL prov	visions	
Off-balance sheet (in scope of ECL)	Total	Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 3
Guarantees	22,556	21,381	1,028	146	(40)	(16)	(9)	(15)
of which: Large corporate clients	3,539	2,710	734	95	(10)	(3)	(3)	(4)
of which: SME clients	1,213	1,034	128	51	(9)	(1)	(1)	(7)
of which: Financial intermediaries and hedge funds	12,113	12,021	92	0	(16)	(11)	(5)	0
of which: Lombard	2,332	2,332	0	0	(1)	0	0	(1)
of which: Commodity trade finance	2,388	2,387	0	0	(1)	(1)	0	0
Irrevocable loan commitments	37,703	35,308	2,359	37	(113)	(67)	(46)	0
of which: Large corporate clients	22,649	21,001	1,642	6	(94)	(60)	(34)	0
Forward starting reverse repurchase and securities borrowing agreements	3,985	3,985	0	0	0	0	0	0
Committed unconditionally revocable credit lines	41,615	39,266	2,306	42	(37)	(27)	(10)	0
of which: Real estate financing	9,123	8,931	193	0	(5)	(5)	0	0
of which: Large corporate clients	4,354	3,662	687	5	(6)	(1)	(5)	0
of which: SME clients	4,660	4,240	392	29	(16)	(13)	(3)	0
of which: Lombard	7,697	7,693	0	4	0	0	0	0
of which: Credit cards	9,162	8,725	433	3	(6)	(4)	(2)	0
				^				0
of which: Commodity trade finance	172	172	0	0	0	0	0	
	<i>172</i> 5,156	<i>172</i> 5,136		2	(2)	(2)	0	0
of which: Commodity trade finance								

The carrying amount of financial assets measured at amortized cost represents the total gross exposure net of the respective ECL allowances. 2 Effective 1 April 2022, a portfolio of assets previously classified as Financial assets measured at fair value through other comprehensive income was reclassified to Other financial assets measured at amortized cost. Refer to Note 1 for more information.

USD m	31.12.21									
		Carrying a	amount ¹			ECL allow	vances			
Financial instruments measured at amortized cost	Total	Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 3		
Cash and balances at central banks	192,817	192,817	0	0	0	0	0	0		
Loans and advances to banks	15,360	15,333	26	1	(8)	(7)	(1)	0		
Receivables from securities financing transactions	75,012	75,012	0	0	(2)	(2)	0	0		
Cash collateral receivables on derivative instruments	30,514	30,514	0	0	0	0	0	0		
Loans and advances to customers	398,693	381,496	15,620	1,577	(850)	(126)	(152)	(572)		
of which: Private clients with mortgages	152,479	143,505	8,262	711	(132)	(28)	(71)	(33)		
of which: Real estate financing	43,945	40,463	3,472	9	(60)	(19)	(40)	0		
of which: Large corporate clients	13,990	12,643	1,037	310	(170)	(22)	(16)	(133)		
of which: SME clients	14,004	12,076	1,492	436	(259)	(19)	(15)	(225)		
of which: Lombard	149,283	149,255	0	27	(33)	(6)	0	(28)		
of which: Credit cards	1,716	1,345	342	29	(36)	(10)	(9)	(17)		
of which: Commodity trade finance	3,813	3,799	7	7	(114)	(6)	0	(108)		
Other financial assets measured at amortized cost	26.236	25.746	302	189	(109)	(27)	(7)	(76)		
of which: Loans to financial advisors	2,453	2,184	106	163	(86)	(19)	(3)	(63)		
Total financial assets measured at amortized cost	738,632	720,917	15,948	1,767	(969)	(161)	(160)	(647)		
Financial assets measured at fair value through other comprehensive income	8,844	8,844	0	0	0	0	0	0		
Total on-balance sheet financial assets in scope of ECL requirements	747,477	729,762	15,948	1,767	(969)	(161)	(160)	(647)		
		Total ex	posure			ECL prov	visions			
Off-balance sheet (in scope of ECL)	Total	Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 3		
Guarantees	20,972	19,695	1,127	150	(41)	(18)	(8)	(15)		
of which: Large corporate clients	3,464	2,567	793	104	(6)	(3)	(3)	0		
of which: SME clients	1,353	1,143	164	46	(8)	(1)	(1)	(7)		
of which: Financial intermediaries and hedge funds	9,575	9,491	84	0	(17)	(13)	(4)	0		
of which: Lombard	2,454	2,454	0	0	(1)	0	0	(1)		
of which: Commodity trade finance	3,137	3,137	0	0	(1)	(1)	0	0		
Irrevocable loan commitments	39,478	37,097	2,335	46	(114)	(72)	(42)	0		
of which: Large corporate clients	23,922	21,811	2,102	9	(100)	(66)	(34)	0		
Forward starting reverse repurchase and securities borrowing agreements	1.444	1,444	0	0	0	0	0	0		
Committed unconditionally revocable credit lines	42.373	39,802	2.508	63	(38)	(28)	(10)	0		
of which: Real estate financing	7,328	7,046	_,=====================================	0	(5)	(4)	(1)	0		
of which: Large corporate clients	5.358	4,599	736	23	(7)	(4)	(3)	0		
of which: SME clients	5,160	4,736	389	35	(15)	(11)	(3)	0		
of which: Lombard	8,670	8,670	0	0	0	0	0			
of which: Credit cards	9,466	9,000	462	4	(6)	(5)	(2)	0		
of which: Commodity trade finance	117	117	0	, 0	0	0	0	0		
Irrevocable committed prolongation of existing loans	5,611	5,527	36	48	(3)	(3)	0	0		
								0		
Total off-balance sheet financial instruments and other credit lines	109.878	103,565	6.006	307	(196)	(121)	(60)	(15)		

1 The carrying amount of financial assets measured at amortized cost represents the total gross exposure net of the respective ECL allowances.

The table below provides information about the ECL gross exposure and the ECL coverage ratio for UBS AG's core loan portfolios (i.e., *Loans and advances to customers* and *Loans to financial advisors*) and relevant off-balance sheet exposures. Cash and balances at central banks, *Loans and advances to banks*, *Receivables from securities financing transactions*, Cash collateral receivables on derivative instruments and Financial assets measured at fair value through other comprehensive income are not included in the table below, due to their lower sensitivity to ECL.

ECL coverage ratios are calculated by dividing ECL allowances and provisions by the gross carrying amount of the related exposures.

Coverage ratios for core loan portfolio		30.9.22										
	Gros	s carrying amo	unt (USD m)			ECL	coverage (b	ops)				
On-balance sheet	Total	Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 1&2	Stage 3			
Private clients with mortgages	148,476	140,301	7,508	668	9	2	104	7	370			
Real estate financing	42,702	38,998	3,695	8	13	4	102	13	429			
Total real estate lending	191,178	179,299	11,203	676	10	2	104	8	370			
Large corporate clients	11,893	10,055	1,476	363	100	20	123	33	2,234			
SME clients	13,273	11,527	1,202	544	181	21	187	36	3,578			
Total corporate lending	25,166	21,582	2,678	906	143	20	151	35	3,041			
Lombard	134,569	134,463	0	106	3	1	0	1	2,495			
Credit cards	1,774	1,362	367	44	205	74	263	114	3,783			
Commodity trade finance	3,475	3,374	0	101	264	16	0	16	8,556			
Other loans and advances to customers	19,346	18,364	895	88	28	8	42	9	4,112			
Loans to financial advisors	2,573	2,201	190	183	266	45	148	53	3,040			
Total other lending	161,737	159,763	1,451	522	18	3	112	4	4,239			
Total ¹	378,081	360,644	15,333	2,104	22	4	113	8	2,480			
	G	iross exposure	(USD m)			ECL	coverage (b	ops)				
Off-balance sheet	Total	Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 1&2	Stage 3			
Private clients with mortgages	5,456	5,253	201	1	4	3	17	4	410			
Real estate financing	9,059	8,880	179	0	8	7	53	8	0			
Total real estate lending	14,515	14,133	381	1	7	6	34	7	410			
Large corporate clients	29,740	26,639	2,963	138	36	21	145	33	506			
SME clients	6,708	6,097	503	108	48	28	204	42	432			
Total corporate lending	36,449	32,736	3,466	246	38	22	154	35	474			
Lombard	12,392	12,386	0	6	1	0	0	0	0			
Credit cards	8,976	8,537	435	3	7	5	37	7	0			
Commodity trade finance	2,343	2,343	0	0	3	3	0	3	0			
Financial intermediaries and hedge funds	17,139	16,732	407	0	7	5	97	7	0			
Other off-balance sheet commitments	8,861	8,196	666	0	15	10	30	12	0			
Total other lending	49,712	48,194	1,508	9	7	5	50	6	0			
	100.675	95,064	5,355	257	18	11	116	17	607			
Total ²	100,075	95,004	5,555	237	10		110		007			

1 Includes Loans and advances to customers of USD 375,508m and Loans to financial advisors of USD 2,573m, which are presented on the balance sheet line Other financial assets measured at amortized cost. 2 Excludes Forward starting reverse repurchase and securities borrowing agreements. 3 Includes on-balance-sheet exposure, gross, and off-balance-sheet exposure (notional), and the related ECL coverage ratio (bps).

Coverage ratios for core loan portfolio				3	30.6.22				
	Gross	s carrying amo	unt (USD m)			ECL	coverage (b	ops)	
On-balance sheet	Total	Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 1&2	Stage 3
Private clients with mortgages	151,010	142,077	8,136	798	8	2	88	7	342
Real estate financing	43,350	39,375	3,967	8	14	4	106	14	505
Total real estate lending	194,360	181,452	12,103	805	10	2	94	8	344
Large corporate clients	12,349	10,818	1,105	427	114	25	153	37	2,286
SME clients	13,558	11,766	1,190	602	184	19	187	34	3,400
Total corporate lending	25,907	22,584	2,294	1,029	151	22	170	35	2,938
Lombard	140,370	140,259	0	111	3	1	0	1	2,641
Credit cards	1,796	1,394	359	43	201	72	263	111	3,805
Commodity trade finance	3,793	3,692	0	101	248	15	0	15	8,768
Other loans and advances to customers	19,446	18,182	1,167	98	26	7	7	7	3,796
Loans to financial advisors	2,525	2,182	147	196	307	50	163	57	3,278
Total other lending	167,929	165,708	1,672	549	18	3	76	4	4,293
Total ¹	388,196	369,744	16,069	2,383	22	4	103	8	2,373
	G	ross exposure	(USD m)			ECL	. coverage (b	ops)	
Off-balance sheet	Total	Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 1&2	Stage 3
Private clients with mortgages	6,860	6,658	199	3	4	3	9	3	786
Real estate financing	10,336	10,126	210	0	11	6	232	11	0
Total real estate lending	17,196	16,784	409	3	8	5	123	8	786
Large corporate clients	30,750	27,581	3,062	107	36	23	136	35	368
SME clients	7,301	6,603	589	109	45	23	178	36	649
Total corporate lending	38,051	34,184	3,651	216	37	23	143	35	510
Lombard	12,931	12,927	0	4	1	0	0	0	0
Credit cards	9,162	8,725	433	3	7	5	36	7	0
Commodity trade finance	2,615	2,615	0	0	4	4	0	4	0
Financial intermediaries and hedge funds	18,527	18,010	517	0	10	7	129	10	0
Other off-balance sheet commitments	8,548	7,845	701	2	11	8	5	8	0
Total other lending	51,783	50,123	1,651	9	7	5	52	6	0
	107,030	101,091	5,712	228	18	11	115	17	644
Total ²	107,050	101,031	5,712	220	10		115		• · ·

1 Includes Loans and advances to customers of USD 385,671m and Loans to financial advisors of USD 2,525m, which are presented on the balance sheet line Other financial assets measured at amortized cost. 2 Excludes Forward starting reverse repurchase and securities borrowing agreements. 3 Includes on-balance-sheet exposure, gross, and off-balance-sheet exposure (notional), and the related ECL coverage ratio (bps).

Coverage ratios for core loan portfolio				-	1.12.21				
		s carrying amo	. ,				coverage (b		
On-balance sheet	Total	Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 1&2	Stage 3
Private clients with mortgages	152,610	143,533	8,333	744	9	2	85	6	446
Real estate financing	44,004	40,483	3,512	10	14	5	114	14	23
Total real estate lending	196,615	184,016	11,845	754	10	3	94	8	443
Large corporate clients	14,161	12,665	1,053	443	120	18	148	28	2,997
SME clients	14,263	12,095	1,507	661	182	16	103	25	3,402
Total corporate lending	28,424	24,760	2,560	1,104	151	17	121	26	3,240
Lombard	149,316	149,261	0	55	2	0	0	0	5,026
Credit cards	1,752	1,355	351	46	204	72	255	109	3,73
Commodity trade finance	3,927	3,805	7	115	290	15	3	15	9,388
Other loans and advances to customers	19,510	18,425	1,010	75	23	9	15	9	3,730
Loans to financial advisors	2,539	2,203	109	226	338	88	303	99	2,791
Total other lending	177,043	175,049	1,477	517	18	3	93	4	4,718
Total ¹	402,081	383,825	15,882	2,374	23	4	98	8	2,673
		ross exposure	(USD m)			ECL	coverage (b	ops)	
Off-balance sheet	Total	Stage 1	Stage 2	Stage 3	Total	Stage 1	Stage 2	Stage 1&2	Stage 3
Private clients with mortgages	9,123	8,798	276	49	3	3	9	3	15
Real estate financing	8,766	8,481	285	0	9	7	88	9	(
Total real estate lending	17,889	17,278	562	49	6	5	49	6	15
Large corporate clients	32,748	28,981	3,630	136	34	25	110	35	
SME clients	8,077	7,276	688	114	38	19	151	30	58
Total corporate lending	40,826	36,258	4,318	250	35	24	117	34	266
Lombard	14,438	14,438	0	0	1	0	0	0	(
Credit cards	9,466	9,000	462	4	7	5	34	7	(
Commodity trade finance	3,262	3,262	0	0	4	4	0	4	(
Financial intermediaries and hedge funds	13,747	13,379	369	0	13	10	120	13	(
Other off-balance sheet commitments	8,806	8,507	296	4	15	6	30	7	(
Total other lending	49,720	48,585	1,127	8	8	5	61	7	(
Total ²	108,434	102,121	6,006	307	18	12	100	17	486
Total on- and off-balance sheet ³	510,516	485,946	21,888	2,681	22	5	99	9	2,423

1 Includes Loans and advances to customers of USD 399,543m and Loans to financial advisors of USD 2,539m, which are presented on the balance sheet line Other financial assets measured at amortized cost. 2 Excludes Forward starting reverse repurchase and securities borrowing agreements. 3 Includes on-balance-sheet exposure, gross, and off-balance-sheet exposure (notional), and the related ECL coverage ratio (bps).

a) Fair value hierarchy

The fair value hierarchy classification of financial and non-financial assets and liabilities measured at fair value is summarized in the table below.

During the first nine months of 2022, assets and liabilities that were transferred from Level 2 to Level 1, or from Level 1 to Level 2, and were held for the entire reporting period were not material.

Determination of fair values from quoted market prices or valuation techniques¹

		30.9.	22			30.6.	22			31.12	.21	
USD m	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total
Financial assets measured at fair value on a recurring	basis											
Financial assets at fair value held for trading	71,474	12,093	1,267	84,833	85,292	12,515	1,923	99,730	113,722	15,012	2,299	131,033
of which: Equity instruments	59,135	938	114	60,187	70,306	982	85	71,373	97,983	1,090	149	99,222
of which: Government bills / bonds	<i>6,580</i>	1,235	9	7,824	8,633	1,409	9	10,052	7,135	1,351	10	8,496
of which: Investment fund units	5,067	1,231	68	6,365	5,728	1,040	18	6,786	7,843	1,364	21	9,229
of which: Corporate and municipal bonds	<i>688</i>	<i>7,296</i>	481	8,465	619	7,258	673	8,550	708	7,791	556	9,055
of which: Loans	0	1,073	472	1,545	0	1,553	1,010	2,563	0	3,099	1,443	4,542
of which: Asset-backed securities	4	320	123	447	5	274	128	407	53	317	120	489
Derivative financial instruments	2,121	191,420	1,667	195,208	1,185	157,586	1,753	160,524	522	116,482	1,140	118,145
of which: Foreign exchange	1,496	114,350	2	115,848	527	82,845	3	83,375	255	53,046	7	53,307
of which: Interest rate	0	40,826	488	41,314	0	37,930	351	38,281	0	<i>32,747</i>	494	33,241
of which: Equity / index	0	32,742	710	33,452	0	33,266	680	33,946	0	27,861	384	28,245
of which: Credit derivatives	0	1,351	391	1,743	0	1,446	640	2,087	0	1,179	236	1,414
of which: Commodities	0	<i>1,975</i>	73	2,048	0	1,936	76	2,013	0	1,590	16	1,606
Brokerage receivables	0	22,510	0	22,510	0	19,289	0	19,289	0	21,839	0	21,839
Financial assets at fair value not held for trading	17,385	32,151	3,881	53,418	20,844	32,226	4,171	57,240	27,278	28,185	4,180	59,642
of which: Financial assets for unit-linked												
investment contracts	12,166	0	7	12,173	14,341	0	8	14,348	21,110	187	6	21,303
of which: Corporate and municipal bonds	<i>65</i>	<i>12,715</i>	221	13,000	131	14,361	249	14,741	123	13,937	306	14,366
of which: Government bills / bonds	4,811	6,266	0	11,077	5,954	4,607	0	10,561	5,624	3,236	0	8,860
of which: Loans	0	3,338	654	<i>3,992</i>	0	3,301	976	4,277	0	4,982	892	5,874
of which: Securities financing transactions	0	<i>9,686</i>	114	<i>9,799</i>	0	<i>9,881</i>	108	<i>9,989</i>	0	5,704	100	5,804
of which: Auction rate securities	0	0	1,651	1,651	0	0	1,644	1,644	0	0	1,585	1,585
of which: Investment fund units	272 72	146	117	<i>535</i>	317	74	112	504	338	137	117	591
of which: Equity instruments	72	0	751	823	101	0	721	822	83	2	681	765
Financial assets measured at fair value through other	comprehensiv	e income on	a recurring	basis								
Financial assets measured at fair value through												
other comprehensive income	55	2,188	0	2,243	55	2,196	0	2,251	2,704	6,140	0	8,844
of which: Asset-backed securities ²	0	0	0	0	0	0	0	0	0	4,849	0	4,849
of which: Government bills / bonds ²	0	25	0	25	0	18	0	18	2,658	27	0	2,686
of which: Corporate and municipal bonds	55	2,162	0	2,217	55	2,178	0	2,233	45	1,265	0	1,310
Non-financial assets measured at fair value on a recu	rring basis											
Precious metals and other physical commodities	4,133	0	0	4,133	4,377	0	0	4,377	5,258	0	0	5,258
Non-financial assets measured at fair value on a non-	-recurring basi	s										
Other non-financial assets ³	0	0	14	14	0	0	22	22	0	0	26	26
Total assets measured at fair value	95,168	260,361	6,830	362,359	111,753	223,812	7,868	343,434	149,484	187,658	7,645	344,787

Note 10	Fair value	measurement	(continued)
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		30.9	.22			30.6	.22			31.12	2.21	
USD m	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Total	Level 1	Level 2	Level 3	Tota
Financial liabilities measured at fair value on a recurring	g basis											
Financial liabilities at fair value held for trading	25,449	5,199	93	30,741	24,393	5,932	125	30,450	25,413	6,170	105	31,688
of which: Equity instruments	16,695	366	69	17,130	16,323	440	89	16,852	18,328	513	83	18,924
of which: Corporate and municipal bonds	33	4,008	22	<i>4,062</i>	39	4,159	33	4,231	30	4,219	17	4,266
of which: Government bills / bonds	7,358	714	0	8,073	6,979	1,049	0	8,028	5,883	826	0	6,709
of which: Investment fund units	<i>1,363</i>	<i>85</i>	1	1,449	1,051	261	2	1,314	1,172	555	6	1,733
Derivative financial instruments	2,311	188,331	1,658	192,300	1,294	153,887	1,711	156,892	509	118,558	2,242	121,309
of which: Foreign exchange	1,615	112,931	25	114,571	486	81,985	26	82,497	258	53,800	21	54,078
of which: Interest rate	0	38,698	108	38,806	0	34,585	96	34,681	0	28,398	278	28,675
of which: Equity / index	0	33,078	1,150	34,228	0	33,561	1,076	34,638	0	33,438	1,511	34,949
of which: Credit derivatives	0	1,260	<i>285</i>	1,544	0	1,448	373	1,820	0	1,412	341	1,753
of which: Commodities	0	<i>2,186</i>	57	2,243	0	2,107	76	2,183	0	1,503	63	1,566
Financial liabilities designated at fair value on a recurrir	ng basis											
Brokerage payables designated at fair value	0	48,093	0	48,093	0	49,798	0	49,798	0	44,045	0	44,045
Debt issued designated at fair value	0	59,051	8,645	67,696	0	59,973	10,484	70,457	0	59,606	11,854	71,460
Other financial liabilities designated at fair value	0	25,200	1,916	27,116	0	27,980	2,393	30,373	0	29,258	3,156	32,414
of which: Financial liabilities related to unit-linked												
investment contracts	0	12,321	0	12,321	0	14,503	0	14,503	0	21,466	0	21,466
of which: Securities financing transactions	0	11,376	0	11,376	0	12,024	2	12,026	0	6,375	2	6,377
of which: Over-the-counter debt instruments	0	1,041	699	1,740	0	1,157	879	2,036	0	1,334	794	2, 128
Total liabilities measured at fair value	27,760	325,875	12,311	365,946	25,687	297,570	14,713	337,970	25,922	257,637	17,357	300,916

1 Bifurcated embedded derivatives are presented on the same balance sheet lines as their host contracts and are not included in this table. The fair value of these derivatives was not material for any of the periods presented. 2 Effective 1 April 2022, a portfolio of assets previously classified as Financial assets measured at fair value through other comprehensive income was reclassified to Other financial assets measured at amortized cost. Refer to Note 1 for more information. 3 Other non-financial assets primarily consist of properties and other non-current assets held for sale, which are measured at the lower of their net carrying amount or fair value less costs to sell.

b) Valuation adjustments

The table below summarizes the changes in deferred day-1 profit or loss reserves during the relevant period.

Deferred day-1 profit or loss is generally released into Other net income from financial instruments measured at fair value through profit or loss when the pricing of equivalent products or the underlying parameters become observable or when the transaction is closed out.

Deferred day-1 profit or loss reserves

	For th	e quarter endeo	ł	Year-to-d	late
USD m	30.9.22	30.6.22	30.9.21	30.9.22	30.9.21
Reserve balance at the beginning of the period	451	425	405	418	269
Profit / (loss) deferred on new transactions	84	86	102	245	380
(Profit) / loss recognized in the income statement	(108)	(58)	(78)	(235)	(220)
Foreign currency translation	(1)	(1)	(1)	(2)	(1)
Reserve balance at the end of the period	426	451	429	426	429

The table below summarizes other valuation adjustment reserves recognized on the balance sheet.

Other valuation adjustment reserves on the balance sheet

		As of	
Life-to-date gain / (loss), USD m	30.9.22	30.6.22	31.12.21
Own credit adjustments on financial liabilities designated at fair value	848	406	(315)
of which: debt issued designated at fair value	449	251	(144)
of which: other financial liabilities designated at fair value	398	154	(172)
Credit valuation adjustments ¹	(40)	(36)	(44)
Funding valuation adjustments	(50)	(8)	(49)
Debit valuation adjustments	6	5	2
Other valuation adjustments	(824)	(869)	(913)
of which: liquidity	(293)	(326)	(341)
of which: model uncertainty	(531)	(543)	(571)

1 Amount does not include reserves against defaulted counterparties.

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c) Level 3 instruments: valuation techniques and inputs

The table below presents material Level 3 assets and liabilities, together with the valuation techniques used to measure fair value, as well as the inputs used in a given valuation technique that are considered significant as of 30 September 2022 and unobservable, and a range of values for those unobservable inputs.

The range of values represents the highest- and lowest-level inputs used in the valuation techniques. Therefore the range does not reflect the level of uncertainty regarding a particular input or an assessment of the reasonableness of UBS AG's estimates and assumptions, but rather the different underlying characteristics of the relevant assets and liabilities held by UBS AG.

The significant unobservable inputs disclosed in the table below are consistent with those included in "Note 21 Fair value measurement" in the "Consolidated financial statements" section of the Annual Report 2021.

		Fair	value						Rang	je of inp	outs		
	As	sets	Liab	ilities	-			30.9.2	2		31.12.	21	
USD bn	30 9 22	31.12.21	30.9.22	31.12.21	Valuation technique(s)	Significant unobservable input(s) ¹	low	high	weighted average ²	low	high	weighted average ²	unit ¹
Financial assets and liabilities							1011	nign	average		···g··	arelage	unit
Corporate and municipal			ang ana m		Relative value to	or usually							
bonds	0.7	0.9	0.0	0.0	market comparable	Bond price equivalent	9	107	84	16	143	98	points
		0.5		0.0	Discounted expected	Sond price equivalent							basis
					cash flows	Discount margin	447	447		434	434		points
Traded loans, loans													
measured at fair value, loan													
commitments and					Relative value to								
guarantees	1.5	2.8	0.0	0.0	market comparable	Loan price equivalent	20	100	97	0	101	99	points
					Discounted expected								basis
					cash flows	Credit spread	200	350	287	175	800	436	
		•••••			Market comparable	Credit Spread	200	550	207	175	000	450	points
					and securitization								basis
					model	Credit spread	125	1,343	301	28	1.544	241	points
		•••••			Discounted expected								basis
Auction rate securities	1.7	1.6			cash flows	Credit spread	115	192	152	115	197	153	points
					Relative value to								
Investment fund units ³	0.2	0.1	0.0	0.0	market comparable	Net asset value							
					Relative value to								
Equity instruments ³	0.9	0.8	0.1	0.1	market comparable	Price							
Debt issued designated at													
fair value ⁴			8.6	11.9									
Other financial liabilities					Discounted expected								basis
designated at fair value			1.9	3.2	cash flows	Funding spread	25	175		24	175		points
Derivative financial instrumen	ts												
													basis
Interest rate	0.5	0.5	0.1	0.3	Option model	Volatility of interest rates	74	153		65	81		points
					Discounted expected								basis
Credit derivatives	0.4	0.2	0.3	0.3	cash flows	Credit spreads	10	410		1	583		points
						Bond price equivalent	3	232		2	136		points %
Equity / index	0.7	0.4	<i>1.2</i>	1.5	Option model	Equity dividend yields	0	20		0	11		%
						Volatility of equity stocks,							
						equity and other indices	2	118		4	98		%
						Equity-to-FX correlation	(29)	84		(29)	76		%
						Equity-to-equity							
						correlation	(25)	100		(25)	100		%

Valuation techniques and inputs used in the fair value measurement of Level 3 assets and liabilities

1 The ranges of significant unobservable inputs are represented in points, percentages and basis points. Points are a percentage of par (e.g., 100 points would be 100% of par). 2 Weighted averages are provided for most non-derivative financial instruments and were calculated by weighting inputs based on the fair values of the respective instruments. Weighted averages are not provided for inputs related to Other financial liabilities designated at fair value and Derivative financial instruments, as this would not be meaningful. 3 The range of inputs is not disclosed, as there is a dispersion of values given the diverse nature of the investments. 4 Debt issued designated at fair value primarily consists of structured notes, which include variable maturity notes with various equity and foreign exchange underlying risks, rates-linked and credit-linked notes, all of which have embedded derivative parameters that are considered to be unobservable. The equivalent derivative instrument parameters are presented in the respective derivative financial instruments links investigation of the unobservable.

d) Level 3 instruments: sensitivity to changes in unobservable input assumptions

The table below summarizes those financial assets and liabilities classified as Level 3 for which a change in one or more of the unobservable inputs to reflect reasonably possible alternative assumptions would change fair value significantly, and the estimated effect thereof.

The sensitivity data shown below presents an estimation of valuation uncertainty based on reasonably possible alternative values for Level 3 inputs at the balance sheet date and does not represent the estimated effect of stress scenarios. Typically, these financial assets and liabilities are sensitive to a combination of inputs from Levels 1–3. Although well-defined interdependencies may exist between Level 1 / 2 parameters and Level 3 parameters (e.g., between interest rates, which are generally Level 1 or Level 2, and prepayments, which are generally Level 3), these have not been incorporated in the table. Furthermore, direct interrelationships between the Level 3 parameters are not a significant element of the valuation uncertainty.

Sensitivity of fair value measurements to changes in unobservable input assumptions¹

	30.9.	22	30.6	.22	31.12	.21
USD m	Favorable changes	Unfavorable changes	Favorable changes	Unfavorable changes	Favorable changes	Unfavorable changes
Traded loans, loans measured at fair value, loan commitments and guarantees	22	(19)	25	(32)	19	(13)
Securities financing transactions	41	(43)	53	(55)	41	(53)
Auction rate securities	55 ²	(55) ²	79	(79)	66	(66)
Asset-backed securities	31	(24)	25	(19)	20	(20)
Equity instruments	181	(161)	177	(152)	173	(146)
Interest rate derivatives, net	16 ²	(23) ²	41	(54)	29	(19)
Credit derivatives, net	3	(5)	7	(6)	5	(8)
Foreign exchange derivatives, net	10	(5)	11	(7)	19	(11)
Equity / index derivatives, net	326	(314)	382	(374)	368	(335)
Other	36 ²	(80) ²	63	(90)	50	(73)
Total	721	(728)	861	(868)	790	(744)

1 Sensitivity of issued and over-the-counter debt instruments is reported with the equivalent derivative or securities financing instrument. 2 Includes refinements applied in estimating valuation uncertainty across various parameters.

e) Level 3 instruments: movements during the period

The table on the following page presents additional information about material Level 3 assets and liabilities measured at fair value on a recurring basis. Level 3 assets and liabilities may be hedged with instruments classified as Level 1 or Level 2 in the fair value hierarchy and, as a result, realized and unrealized gains and losses included in the table may not include the effect of related hedging activity. Furthermore, the realized and unrealized gains and losses presented in the table are not limited solely to those arising from Level 3 inputs, as valuations are generally derived from both observable and unobservable parameters.

Assets and liabilities transferred into or out of Level 3 are presented as if those assets or liabilities had been transferred at the beginning of the year.

Note 10 Fair value measurement (continued)

Movements of Level 3 instrum	Balance at the beginning	compre- hensive	of which: related to instruments held at the end of the	Durchases	Color		Cottilomonto	Transfers into	Transfers out of	Foreign currency	Balance at the end
USD bn	of the period	income ¹	period	Purchases	Sales	Issuances	Settlements	Level 3	Level 3	translation	of the period
For the nine months ended 30 Septemb Financial assets at fair value held for	ber 2022 ²										
trading	2.3	(0.2)	(0.2)	0.3	(1.4)	0.3	0.0	0.3	(0.3)	(0.0)	1.3
of which: Investment fund units	0.0	0.0	0.0	0.0	(0.0)	0.0	0.0	0.1	(0.0)	(0.0)	0.1
of which: Corporate and municipal											
bonds	0.6	(0.0)	(0.0)	0.2	(0.2)	0.0	0.0	0.0	(0.0)	(0.0)	0.5
of which: Loans	1.4	(0.1)	(0.1)	0.0	(1.1)	0.3	0.0	0.0	(0.2)	(0.0)	0.5
Derivative financial instruments –											
assets	1.1	0.8	0.5	0.0	0.0	0.6	(0.7)	0.1	(0.1)	(0.1)	1.7
of which: Interest rate	0.5	0.2	0.2	0.0	0.0	0.0	(0.1)	0.1	(0.1)	(0.1)	0.5
of which: Equity / index	0.4	0.4	0.3	0.0	0.0	0.2	(0.3)	0.0	(0.0)	(0.0)	0.7
of which: Credit derivatives	0.2	0.1	(0.1)	0.0	0.0	0.2	(0.2)	0.0	0.0	0.0	0.4
Financial assets at fair value not held											
for trading	4.2	0.1	0.1	0.6	(0.8)	0.1	(0.0)	0.1	(0.3)	(0.1)	3.9
of which: Loans	0.9	(0.0)	(0.1)	0.4	(0.4)	0.1	0.0	0.0	(0.3)	(0.0)	0.7
of which: Auction rate securities	1.6	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
of which: Equity instruments	0.7	0.0	0.0	0.1	(0. 1)	0.0	0.0	0.1	0.0	(0.0)	0.8
Derivative financial instruments –											
liabilities	2.2	(0.8)	(0.6)	0.0	0.0	1.3	(0.8)	0.1	(0.2)	(0.2)	1.7
of which: Interest rate	0.3	(0.2)	(0.1)	0.0	0.0	0.1	(0.0)	0.0	0.0	(0.1)	0.1
of which: Equity / index	1.5	(0.5)	(0.5)	0.0	0.0	1.0	(0.7)	0.0	(0.2)	(0.1)	1.2
of which: Credit derivatives	0.3	(0.1)	(0.1)	0.0	0.0	0.1	(0.0)	0.1	(0.0)	(0.0)	0.3
Debt issued designated at fair value	11.9	(1.7)	(1.4)	0.0	0.0	4.4	(3.0)	0.5	(2.8)	(0.5)	8.6
	11.3	(17)	(1.4)	0.0	0.0	4.4	(5.0)	0.5	(2.0)	(0.3)	0.0
Other financial liabilities designated at fair value	3.2	(1.0)	(1.0)	0.0	0.0	0.2	(0.3)	0.1	(0.2)	(0.1)	1.9
For the nine months ended 30 Septemb Financial assets at fair value held for			(0.0)	0.2	(1.0)				(0.2)	(0.0)	1.0
trading of which: Investment fund units	2.3 0.0	0.0 (0.0)	(0.0) (0.0)	0.3 0.0	<u>(1.0)</u> (0.0)	0.2	0.0	0.2 <i>0.0</i>	(0.2) (0.0)	(0.0) (0.0)	1.8
of which: Corporate and municipal	0.0	(0.0)	(0.0)	0.0	(0.0)	0.0	0.0	0.0	(0.0)	(0.0)	0.0
bonds	0.8	0.0	0.0	0.2	(0.2)	0.0	0.0	0.0	(0.1)	(0.0)	0.8
of which: Loans	1.1	0.0	0.0	0.0	(0.6)	0.2	0.0	0.0	(0.2)	0.0	0.7
Derivative financial instruments –											
assets	1.8	(0.2)	(0.2)	0.0	0.0	0.5	(0.5)	0.1	(0.1)	(0.0)	1.4
of which: Interest rate	0.5	(0.1)	(0.1)	0.0	0.0	0.0	(0.1)	0.0	(0.0)	(0.0)	0.3
of which: Equity / index	0.9	0.0	0.0	0.0	0.0	0.3	(0.4)	0.0	(0.1)	(0.0)	0.7
of which: Credit derivatives	0.3	(0.1)	(0.1)	0.0	0.0	<i>0.1</i>	(0.0)	0.1	(0.0)	0.0	0.3
Financial assets at fair value not held											
for trading	3.9	0.1	0.1	0.8	(0.4)	0.0	0.0	0.1	(0.3)	(0.0)	4.3
of which: Loans	0.9	0.0	0.0	0.4	(0.2)	0.0	0.0	0.0	(0.3)	(0.0)	0.9
of which: Auction rate securities	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
of which: Equity instruments	0.5	0.1	0.1	0.1	(0.1)	0.0	0.0	0.0	(0.0)	(0.0)	0.6
Derivative financial instruments –											
liabilities	3.5	0.2	(0.0)	0.0	0.0	0.8	(1.6)	0.0	(0.3)	(0.0)	2.5
of which: Interest rate	0.5	(0.0)	(0.0)	0.0	0.0	0.0	(0.1)	0.0	(0.0)	(0.0)	0.5
of which: Equity / index	2.3	0.4	0.1	0.0	0.0	0.6	(1.4)	0.0	(0.2)	(0.0)	1.6
of which: Credit derivatives	0.5	(0.2)	(0.2)	0.0	0.0	0.1	(0.0)	0.0	(0.1)	(0.0)	0.3
Debt issued designated at fair value	9.6	0.2	0.2	0.0	0.0	7.7	(3.4)	0.2	(0.9)	(0.2)	13.2
Other financial liabilities designated at fair value	2.1	(0.0)	(0.0)	0.0	0.0	1.2	(0.3)	0.0	(0.0)	(0.0)	3.0
1 Not gains / losses included in comprehensiv		izad in Nat intar		Other net incom	from finar			air value throu	ah profit or la	cc in the Incom	

1 Net gains / losses included in comprehensive income are recognized in Net interest income and Other net income from financial instruments measured at fair value through profit or loss in the Income statement, and also in Gains / (losses) from own credit on financial liabilities designated at fair value, before tax in the Statement of comprehensive income. 2 Total Level 3 assets as of 30 September 2022 were USD 6.8bn (31 December 2021: USD 7.6bn). Total Level 3 liabilities as of 30 September 2022 were USD 12.3bn (31 December 2021: USD 17.4bn).

f) Financial instruments not measured at fair value

The table below reflects the estimated fair values of financial instruments not measured at fair value. Valuation principles applied when determining fair value estimates for financial instruments not measured at fair value are consistent with those described in "Note 21 Fair value measurement" in the "Consolidated financial statements" section of the Annual Report 2021.

Financial instruments not measured at fair value

	30.9.2	2	30.6.2	2	31.12.21	
USD bn	Carrying amount	Fair value	Carrying amount	Fair value	Carrying amount	Fair value
Assets						
Cash and balances at central banks	166.4	166.4	190.4	190.4	192.8	192.8
Loans and advances to banks	14.4	14.4	16.4	16.4	15.4	15.3
Receivables from securities financing transactions	66.9	66.9	63.3	63.3	75.0	75.0
Cash collateral receivables on derivative instruments	48.2	48.2	43.8	43.8	30.5	30.5
Loans and advances to customers	374.7	363.0	384.9	374.6	398.7	397.9
Other financial assets measured at amortized cost ¹	47.0	44.6	37.6	36.1	26.2	26.5
Liabilities						
Amounts due to banks	13.9	13.9	15.2	15.2	13.1	13.1
Payables from securities financing transactions			6.0	6.0	5.5	5.5
Cash collateral payables on derivative instruments	44.3	44.3	40.5	40.J	0.10	51.0
Customer deposits	498.2	497.9	514.3	514.3	544.8	544.8
Funding from UBS Group AG measured at amortized cost	55.7	54.4	57.1	56.2	57.3	58.8
Debt issued measured at amortized cost	55.4	54.8	65.8	65.1	82.4	82.8
Other financial liabilities measured at amortized cost ²	7.0	7.0	7.4	7.4	6.3	6.3

1 Effective 1 April 2022, a portfolio of assets previously classified as Financial assets measured at fair value through other comprehensive income was reclassified to Other financial assets measured at amortized cost. Refer to Note 1 for more information. 2 Excludes lease liabilities.

a) Derivative instruments

		Notional values related to derivative	Derivative financial	Notional values related to derivative	Other notional
As of 30.9.22, USD bn	assets	financial assets ¹	liabilities	financial liabilities ¹	values ²
Derivative financial instruments					
Interest rate	41.3	975	38.8	970	10,300
Credit derivatives	1.7	48	1.5	48	0
Foreign exchange	115.8	3,299	114.6	3,108	45
Equity / index	33.5	367	34.2	418	68
Commodities	2.0	73	2.2	65	17
Loan commitments measured at FVTPL	0.0	1	0.1	5	
Unsettled purchases of non-derivative financial instruments ³	0.4	28	0.5	22	
Unsettled sales of non-derivative financial instruments ³	0.4	28	0.4	18	
Total derivative financial instruments, based on IFRS netting ⁴	195.2	4,819	192.3	4,655	10,430
Further netting potential not recognized on the balance sheet ⁵	(177.7)		(176.1)		
of which: netting of recognized financial liabilities / assets	(142.8)		(142.8)		
of which: netting with collateral received / pledged	(35.0)		(33.3)		
Total derivative financial instruments, after consideration of further					
netting potential	17.5		16.2		
As of 30.6.22, USD bn					
Derivative financial instruments					
Interest rate	38.3	1,083	34.7	1,051	9,799
Credit derivatives	2.1	48	1.8	47	0
	83.4	3,252	82.5	3,092	33
Foreign exchange	33.9	388	34.6	457	55 69
Equity / index Commodities	2.0				
		/8	2.2	70 7	16
Loan commitments measured at FVTPL	0.0	 	0.0		
Unsettled purchases of non-derivative financial instruments ³	0.3	29	0.5	22	
Unsettled sales of non-derivative financial instruments ³	0.5	30	0.5	24	
Total derivative financial instruments, based on IFRS netting ⁴	160.5	4,910	156.9	4,771	9,916
Further netting potential not recognized on the balance sheet ⁵	(146.5)		(141.0)		
of which: netting of recognized financial liabilities / assets	(116.0)		(116.0)		
of which: netting with collateral received / pledged	(30.5)		(24.9)		
Total derivative financial instruments, after consideration of further netting potential	14.0		15.9		
As of 31.12.21, USD bn Derivative financial instruments					
Interest rate	33.2	991	28.7	943	8,675
Credit derivatives	1.4	45	1.8	46	0
Foreign exchange	53.3	3,031	54.1	2,939	1
Equity / index	28.2	457	34.9	604	80
Commodities	1.6	58	1.6	56	15
Loan commitments measured at FVTPL	0.0	ں 1	0.0	8	L I
	~ -	ا 12			
Unsettled purchases of non-derivative financial instruments ³	0.1	13 18	0.2	9	
Unsettled sales of non-derivative financial instruments ³ Total derivative financial instruments, based on IFRS netting ⁴	118.1	4,614	121.3	4,617	8,771
Further netting potential not recognized on the balance sheet ⁵	(107.4)	4,014	(107.0)	4,017	0,771
of which: netting of recognized financial liabilities / assets					
· · · · · · · · · · · · · · · · · · ·	(88.9) (10.5)		(88.9)		
of which: netting with collateral received / pledged	(18.5)		(18.1)		
Total derivative financial instruments, after consideration of further netting potential	10.7		14.3		

 netung potential
 10.7
 14.3

 1 In cases where derivative financial instruments are presented on a net basis on the balance sheet, the respective notional values of the netted derivative financial instruments are still presented on a gross basis. Notional amounts of client-cleared ETD and OTC transactions through central clearing counterparties are not disclosed, as they have a significantly different risk profile.
 2 Other notional values relate to derivatives that are cleared through either a central counterparty or an exchange. The fair value of these derivatives is presented on the balance sheet net of the corresponding cash margin under Cash collateral receivables on derivative instruments and was not material for any of the periods presented.
 3 Changes in the fair value of purchased and sold non-derivative financial instruments. **4** Financial assets and liabilities are presented net on the balance sheet if UBS AG has the unconditional and legally enforceable right to offset the recognized amounts, both in the normal course of business and in the event of default, bankruptcy or insolvency of UBS AG or its counterparties, and intends either to settle on a net basis or to realize the asset and settle the liability simultaneously.
 5 Reflects the netting potential in accordance with enforceable master netting and similar arrangements where not all criteria for a net presentation on the balance sheet have been met. Refer to "Note 22 Offsetting financial assets and financial liabilities" in the "Consolidated financial statements" section of the Annual Report 2021 for more information.

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b) Cash collateral on derivative instruments

USD bn	Receivables 30.9.22	Payables 30.9.22	Receivables 30.6.22	Payables 30.6.22	Receivables 31.12.21	Payables 31.12.21
Cash collateral on derivative instruments, based on IFRS netting ¹	48.2	44.3	43.8	40.5	30.5	31.8
Further netting potential not recognized on the balance sheet ²	(30.2)	(25.6)	(23.2)	(22.6)	(18.4)	(16.4)
of which: netting of recognized financial liabilities / assets	(28.2)	<i>(23.6)</i>	(20.4)	(19.9)	(15.2)	(13.1)
of which: netting with collateral received / pledged	(2.1)	(2.1)	(2.8)	(2.8)	(3.3)	(3.3)
Cash collateral on derivative instruments, after consideration of further netting potential	18.0	18.7	20.6	17.9	12.1	15.4

1 Financial assets and liabilities are presented net on the balance sheet if UBS AG has the unconditional and legally enforceable right to offset the recognized amounts, both in the normal course of business and in the event of default, bankruptcy or insolvency of UBS AG or its counterparties, and intends either to settle on a net basis or to realize the asset and settle the liability simultaneously. 2 Reflects the netting potential in accordance with enforceable master netting and similar arrangements where not all criteria for a net presentation on the balance sheet have been met. Refer to "Note 22 Offsetting financial assets and financial liabilities" in the "Consolidated financial statements" section of the Annual Report 2021 for more information.

Note 12 Other assets and liabilities

a) Other financial assets measured at amortized cost

USD m	30.9.22	30.6.22	31,12,21
Debt securities ¹	39,259	29,812	18,858
Loans to financial advisors	2,505	2,447	2,453
Fee- and commission-related receivables	1,867	1,965	1,966
Finance lease receivables	1,270	1,283	1,356
Settlement and clearing accounts	611	500	455
Accrued interest income	854	681	521
Other	680	863	627
Total other financial assets measured at amortized cost	47,045	37,551	26,236

1 Effective 1 April 2022, a portfolio of assets previously classified as Financial assets measured at fair value through other comprehensive income was reclassified to Other financial assets measured at amortized cost. Refer to Note 1 for more information.

b) Other non-financial assets

30.6.22	31.12.21
4,377	5,258
2,150	1,526
731	717
410	591
257	32
823	1,093
819	618
9,567	9,836
JB	9,567 S Swiss Financial Adv

1 Refer to Note 16 for more information. 2 In the third quarter of 2022, UBS AG completed the sale of its domestic wealth management business in Spain and the sale of UBS Swiss Financial Advise

c) Other financial liabilities measured at amortized cost

USD m	30.9.22	30.6.22	31.12.21
Other accrued expenses	1,561	1,500	1,642
Accrued interest expenses	1,186	1,238	1,134
Settlement and clearing accounts	1,528	1,866	1,282
Lease liabilities	3,014	3,140	3,438
Other	2,701	2,773	2,269
Total other financial liabilities measured at amortized cost	9,990	10,516	9,765

d) Other financial liabilities designated at fair value

Total other financial liabilities designated at fair value	27,116	30,373	32,414
Other			103
Funding from UBS Group AG	1,679	1,807	2,340
Over-the-counter debt instruments	1,740	2,036	2,128
Securities financing transactions	11,376	12,026	6,377
Financial liabilities related to unit-linked investment contracts	12,321	14,503	21,466
USD m	30.9.22	30.6.22	31.12.21

e) Other non-financial liabilities

USD m	30.9.22	30.6.22	31.12.21
Compensation-related liabilities	3,844	3,338	4,795
of which: net defined benefit liability	412	462	617
Deferred tax liabilities	293	201	297
Current tax liabilities	898	935	1,365
VAT and other tax payables	444	490	524
Deferred income	248	233	225
Liabilities of disposal groups held for sale ¹		1,351	1,298
Other	29	70	68
Total other non-financial liabilities	5,757	6,618	8,572

1 In the third quarter of 2022, UBS AG completed the sale of its domestic wealth management business in Spain and the sale of UBS Swiss Financial Advisers AG.

Note 13 Debt issued designated at fair value

USD m	30.9.22	30.6.22	31.12.21
Equity-linked ¹	37,785	39,629	47,059
Rates-linked	16,559	16,916	16,369
Credit-linked	2,330	2,147	1,723
Fixed-rate	5,887	5,411	2,868
Commodity-linked	4,350	4,640	2,911
Other	784	1,715	529
Total debt issued designated at fair value	67,696	70,457	71,460

1 Includes investment fund unit-linked instruments issued.

Note 14 Debt issued measured at amortized cost

USD m	30.9.22	30.6.22	31.12.21
Short-term debt ¹	24,849	31,525	43,098
Senior unsecured debt other than TLAC	19,050	20,109	23,328
Covered bonds			1,389
Subordinated debt	2,959	5,008	5,163
of which: low-trigger loss-absorbing tier 2 capital instruments	2,427	2,471	2,596
of which: non-Basel III-compliant tier 2 capital instruments	531	538	547
Debt issued through the Swiss central mortgage institutions	8,567	9,177	9,454
Long-term debt ²	30,576	34,294	39,334
Total debt issued measured at amortized cost ³	55,425	65,820	82,432

1 Debt with an original contractual maturity of less than one year, mainly consisting of certificates of deposit and commercial paper. 2 Debt with an original contractual maturity greater than or equal to one year. The classification of debt issued into short-term and long-term does not consider any early redemption features. 3 Net of bifurcated embedded derivatives, the fair value of which was not material for any of the periods presented.

Note 15 Interest rate benchmark reform

During 2022, UBS AG has continued to manage the transition to alternative reference rates (ARRs). The transition of non-USD interbank offered rates (IBORs) is substantially complete, with efforts now focused on managing the transition of the remaining USD London Interbank Offered Rate (LIBOR) exposures.

On 15 March 2022, the US enacted federal legislation, the Adjustable Interest Rate (LIBOR) Act, which is substantially based on, and supersedes, the New York State LIBOR legislation. The Adjustable Interest Rate (LIBOR) Act provides a legislative solution for USD LIBOR legacy products governed by any US state law should such products fail to transition prior to the USD LIBOR cessation date of 30 June 2023.

In January 2022, UBS AG completed the transition of USD LIBOR-linked balances related to brokerage accounts. Substantially all US securities-based lending that was outstanding as of 31 December 2021 has been transitioned to the Secured Overnight Financing Rate (SOFR) and UBS AG continues to make good progress on the transition of the remaining USD LIBOR non-derivative assets and liabilities.

In August 2022, to facilitate the transition of derivatives linked to the USD LIBOR Swap Rate, UBS AG adhered to the June 2022 Benchmark Module of the ISDA 2021 Fallbacks Protocol on the USD LIBOR Swap Rate. The transition of USD LIBOR-cleared derivatives is planned to commence in the second quarter of 2023.

Note 16 Provisions and contingent liabilities

a) Provisions

The table below presents an overview of total provisions.

USD m	30.9.22	30.6.22	31.12.21
Provisions other than provisions for expected credit losses	3,053	3,215	3,256
Provisions for expected credit losses ¹	182	192	196
Total provisions	3,235	3,407	3,452

1 Refer to Note 9c for more information.

The following table presents additional information for provisions other than provisions for expected credit losses.

	Litigation, regulatory and			
USD m	similar matters ¹	Restructuring ²	Other ³	Total
Balance as of 31 December 2021	2,798	137	321	3,256
Balance as of 30 June 2022	2,798	114	302	3,215
Increase in provisions recognized in the income statement	25	25	10	60
Release of provisions recognized in the income statement	(4)	(5)	(5)	(15)
Provisions used in conformity with designated purpose	(52)	(40)	(10)	(102)
Foreign currency translation / unwind of discount	(90)	(4)	(12)	(105)
Balance as of 30 September 2022	2,677	90	285	3,053

1 Consists of provisions for losses resulting from legal, liability and compliance risks. 2 Consists of personnel-related restructuring provisions of USD 56m as of 30 September 2022 (30 June 2022: USD 75m; 31 December 2021: USD 90m) and provisions for onerous contracts of USD 34m as of 30 September 2022 (30 June 2022: USD 40m; 31 December 2021: USD 47m). 3 Mainly includes provisions related to real estate, employee benefits and operational risks.

Restructuring provisions relate to personnel-related provisions and onerous contracts. Personnel-related restructuring provisions are generally used within a short period of time. The level of personnel-related provisions can change when natural staff attrition reduces the number of people affected by a restructuring event, and therefore results in lower estimated costs. Onerous contracts for property are recognized when UBS is committed to pay for non-lease components, such as utilities, service charges, taxes and maintenance, when a property is vacated or not fully recovered from sub-tenants.

Information about provisions and contingent liabilities in respect of litigation, regulatory and similar matters, as a class, is included in Note 16b. There are no material contingent liabilities associated with the other classes of provisions.

b) Litigation, regulatory and similar matters

UBS operates in a legal and regulatory environment that exposes it to significant litigation and similar risks arising from disputes and regulatory proceedings. As a result, UBS is involved in various disputes and legal proceedings, including litigation, arbitration, and regulatory and criminal investigations. "UBS," "we" and "our" may, for purposes of this Note, refer to UBS AG and / or one or more of its subsidiaries, as applicable.

Such matters are subject to many uncertainties, and the outcome and the timing of resolution are often difficult to predict, particularly in the earlier stages of a case. There are also situations where UBS may enter into a settlement agreement. This may occur in order to avoid the expense, management distraction or reputational implications of continuing to contest liability, even for those matters for which UBS believes it should be exonerated. The uncertainties inherent in all such matters affect the amount and timing of any potential outflows for both matters with respect to which provisions have been established and other contingent liabilities. UBS makes provisions for such matters brought against it when, in the opinion of management after seeking legal advice, it is more likely than not that UBS has a present legal or constructive obligation as a result of past events, it is probable that an outflow of resources will be required, and the amount can be reliably estimated. Where these factors are otherwise satisfied, a provision may be established for claims that have not yet been asserted against UBS, but are nevertheless expected to be, based on UBS's experience with similar asserted claims. If any of those conditions is not met, such matters result in contingent liabilities. If the amount of an obligation cannot be reliably estimated, a liability exists that is not recognized even if an outflow of resources is probable. Accordingly, no provision is established even if the potential outflow of resources with respect to such matters could be significant. Developments relating to a matter that occur after the relevant reporting period, but prior to the issuance of financial statements, which affect management's assessment of the provision for such matter (because, for example, the developments provide evidence of conditions that existed at the end of the reporting period), are adjusting events after the reporting period under IAS 10 and must be recognized in the financial statements for the reporting period.

Specific litigation, regulatory and other matters are described below, including all such matters that management considers to be material and others that management believes to be of significance due to potential financial, reputational and other effects. The amount of damages claimed, the size of a transaction or other information is provided where available and appropriate in order to assist users in considering the magnitude of potential exposures.

In the case of certain matters below, we state that we have established a provision, and for the other matters, we make no such statement. When we make this statement and we expect disclosure of the amount of a provision to prejudice seriously our position with other parties in the matter because it would reveal what UBS believes to be the probable and reliably estimable outflow, we do not disclose that amount. In some cases we are subject to confidentiality obligations that preclude such disclosure. With respect to the matters for which we do not state whether we have established a provision, either: (a) we have not established a provision, in which case the matter is treated as a contingent liability under the applicable accounting standard; or (b) we have established a provision but expect disclosure of that fact to prejudice seriously our position with other parties in the matter because it would reveal the fact that UBS believes an outflow of resources to be probable and reliably estimable.

With respect to certain litigation, regulatory and similar matters for which we have established provisions, we are able to estimate the expected timing of outflows. However, the aggregate amount of the expected outflows for those matters for which we are able to estimate expected timing is immaterial relative to our current and expected levels of liquidity over the relevant time periods.

The aggregate amount provisioned for litigation, regulatory and similar matters as a class is disclosed in the "Provisions" table in Note 16a above. It is not practicable to provide an aggregate estimate of liability for our litigation, regulatory and similar matters as a class of contingent liabilities. Doing so would require UBS to provide speculative legal assessments as to claims and proceedings that involve unique fact patterns or novel legal theories, that have not yet been initiated or are at early stages of adjudication, or as to which alleged damages have not been quantified by the claimants. Although UBS therefore cannot provide a numerical estimate of the future losses that could arise from litigation, regulatory and similar matters, UBS believes that the aggregate amount of possible future losses from this class that are more than remote substantially exceeds the level of current provisions.

Litigation, regulatory and similar matters may also result in non-monetary penalties and consequences. A guilty plea to, or conviction of, a crime could have material consequences for UBS. Resolution of regulatory proceedings may require UBS to obtain waivers of regulatory disqualifications to maintain certain operations, may entitle regulatory authorities to limit, suspend or terminate licenses and regulatory authorizations, and may permit financial market utilities to limit, suspend or terminate UBS's participation in such utilities. Failure to obtain such waivers, or any limitation, suspension or termination of licenses, authorizations or participations, could have material consequences for UBS.

The risk of loss associated with litigation, regulatory and similar matters is a component of operational risk for purposes of determining capital requirements. Information concerning our capital requirements and the calculation of operational risk for this purpose is included in the "Capital management" section of the UBS Group third quarter 2022 report.

Provisions for litigation, regulatory and similar matters by business division and in Group Functions¹

USD m	Global Wealth Manage- ment	Personal & Corporate Banking	Asset Manage- ment	Investment Bank	Group Functions	Total
Balance as of 31 December 2021	1,338	181	8	310	962	2,798
Balance as of 30 June 2022	1,289	168	8	387	946	2,798
Increase in provisions recognized in the income statement	22	0	0	3	0	25
Release of provisions recognized in the income statement	(4)	0	0	0	0	(4)
Provisions used in conformity with designated purpose	(44)	0	0	0	(8)	(52)
Foreign currency translation / unwind of discount	(68)	(10)	0	(11)	(1)	(90)
Balance as of 30 September 2022	1,195	158	8	378	937	2,677

1 Provisions, if any, for the matters described in items 3 and 4 of this Note are recorded in Global Wealth Management, and provisions, if any, for the matters described in item 2 are recorded in Group Functions. Provisions, if any, for the matters described in items 1 and 6 of this Note are allocated between Global Wealth Management and Personal & Corporate Banking, provisions, if any, for the matters described in item 5 are allocated between Global Wealth Management and Personal & Corporate Banking, provisions, if any, for the matters described in item 5 are allocated between the Investment Bank and Group Functions, and provisions, if any, for the matters described in item 7 are allocated between Global Wealth Management and the Investment Bank.

1. Inquiries regarding cross-border wealth management businesses

Tax and regulatory authorities in a number of countries have made inquiries, served requests for information or examined employees located in their respective jurisdictions relating to the cross-border wealth management services provided by UBS and other financial institutions. It is possible that the implementation of automatic tax information exchange and other measures relating to cross-border provision of financial services could give rise to further inquiries in the future. UBS has received disclosure orders from the Swiss Federal Tax Administration (FTA) to transfer information based on requests for international administrative assistance in tax matters. The requests concern a number of UBS account numbers pertaining to current and former clients and are based on data from 2006 and 2008. UBS has taken steps to inform affected clients about the administrative assistance proceedings and their procedural rights, including the right to appeal. The requests are based on data received from the German authorities, who seized certain data related to UBS clients booked in Switzerland during their investigations and have apparently shared this data with other European countries. UBS expects additional countries to file similar requests.

Since 2013, UBS (France) S.A., UBS AG and certain former employees have been under investigation in France in relation to UBS's cross-border business with French clients. In connection with this investigation, the investigating judges ordered UBS AG to provide bail ("*caution*") of EUR 1.1bn.

On 20 February 2019, the court of first instance returned a verdict finding UBS AG guilty of unlawful solicitation of clients on French territory and aggravated laundering of the proceeds of tax fraud, and UBS (France) S.A. guilty of aiding and abetting unlawful solicitation and of laundering the proceeds of tax fraud. The court imposed fines aggregating EUR 3.7bn on UBS AG and UBS (France) S.A. and awarded EUR 800m of civil damages to the French state. A trial in the French Court of Appeal took place in March 2021. On 13 December 2021, the Court of Appeal found UBS AG guilty of unlawful solicitation and aggravated laundering of the proceeds of tax fraud. The court ordered a fine of EUR 3.75m, the confiscation of EUR 1bn, and awarded civil damages to the French state of EUR 800m. The court also found UBS (France) SA guilty of the aiding and abetting of unlawful solicitation and ordered it to pay a fine of EUR 1.875m. UBS AG has filed an appeal with the French Supreme Court to preserve its rights. The notice of appeal enables UBS AG to thoroughly assess the verdict of the Court of Appeal and to determine next steps in the best interest of its stakeholders. The fine and confiscation imposed by the Court of Appeal are suspended during the appeal. The civil damages award has been paid to the French state (EUR 99m of which was deducted from the bail), subject to the result of UBS's appeal.

Our balance sheet at 30 September 2022 reflected provisions with respect to this matter in an amount of EUR 1.1bn (USD 1.1bn). The wide range of possible outcomes in this case contributes to a high degree of estimation uncertainty and the provision reflects our best estimate of possible financial implications, although actual penalties and civil damages could exceed (or may be less than) the provision amount.

Our balance sheet at 30 September 2022 reflected provisions with respect to matters described in this item 1 in an amount that UBS believes to be appropriate under the applicable accounting standard. As in the case of other matters for which we have established provisions, the future outflow of resources in respect of such matters cannot be determined with certainty based on currently available information and accordingly may ultimately prove to be substantially greater (or may be less) than the provision that we have recognized.

2. Claims related to sales of residential mortgage-backed securities and mortgages

From 2002 through 2007, prior to the crisis in the US residential loan market, UBS was a substantial issuer and underwriter of US residential mortgage-backed securities (RMBS) and was a purchaser and seller of US residential mortgages.

In November 2018, the DOJ filed a civil complaint in the District Court for the Eastern District of New York. The complaint seeks unspecified civil monetary penalties under the Financial Institutions Reform, Recovery and Enforcement Act of 1989 related to UBS's issuance, underwriting and sale of 40 RMBS transactions in 2006 and 2007. UBS moved to dismiss the civil complaint on 6 February 2019. On 10 December 2019, the district court denied UBS's motion to dismiss.

Our balance sheet at 30 September 2022 reflected a provision with respect to matters described in this item 2 in an amount that UBS believes to be appropriate under the applicable accounting standard. As in the case of other matters for which we have established provisions, the future outflow of resources in respect of this matter cannot be determined with certainty based on currently available information and accordingly may ultimately prove to be substantially greater (or may be less) than the provision that we have recognized.

3. Madoff

In relation to the Bernard L. Madoff Investment Securities LLC (BMIS) investment fraud, UBS AG, UBS (Luxembourg) S.A. (now UBS Europe SE, Luxembourg branch) and certain other UBS subsidiaries have been subject to inquiries by a number of regulators, including the Swiss Financial Market Supervisory Authority (FINMA) and the Luxembourg Commission de Surveillance du Secteur Financier. Those inquiries concerned two third-party funds established under Luxembourg law, substantially all assets of which were with BMIS, as well as certain funds established in offshore jurisdictions with either direct or indirect exposure to BMIS. These funds faced severe losses, and the Luxembourg funds are in liquidation. The documentation establishing both funds identifies UBS entities in various roles, including custodian, administrator, manager, distributor and promoter, and indicates that UBS employees serve as board members.

In 2009 and 2010, the liquidators of the two Luxembourg funds filed claims against UBS entities, non-UBS entities and certain individuals, including current and former UBS employees, seeking amounts totaling approximately EUR 2.1bn, which includes amounts that the funds may be held liable to pay the trustee for the liquidation of BMIS (BMIS Trustee).

A large number of alleged beneficiaries have filed claims against UBS entities (and non-UBS entities) for purported losses relating to the Madoff fraud. The majority of these cases have been filed in Luxembourg, where decisions that the claims in eight test cases were inadmissible have been affirmed by the Luxembourg Court of Appeal, and the Luxembourg Supreme Court has dismissed a further appeal in one of the test cases.

In the US, the BMIS Trustee filed claims against UBS entities, among others, in relation to the two Luxembourg funds and one of the offshore funds. The total amount claimed against all defendants in these actions was not less than USD 2bn. In 2014, the US Supreme Court rejected the BMIS Trustee's motion for leave to appeal decisions dismissing all claims except those for the recovery of approximately USD 125m of payments alleged to be fraudulent conveyances and preference payments. In 2016, the bankruptcy court dismissed these claims against the UBS entities. In February 2019, the Court of Appeals reversed the dismissal of the BMIS Trustee's remaining claims, and the US Supreme Court subsequently denied a petition seeking review of the Court of Appeals' decision. The case has been remanded to the Bankruptcy Court for further proceedings.

4. Puerto Rico

Declines since 2013 in the market prices of Puerto Rico municipal bonds and of closed-end funds (funds) that are sole-managed and co-managed by UBS Trust Company of Puerto Rico and distributed by UBS Financial Services Incorporated of Puerto Rico (UBS PR) led to multiple regulatory inquiries, which in 2014 and 2015, led to settlements with the Office of the Commissioner of Financial Institutions for the Commonwealth of Puerto Rico, the US Securities and Exchange Commission (SEC) and the Financial Industry Regulatory Authority.

Since then, UBS clients in Puerto Rico who own the funds or Puerto Rico municipal bonds and/or who used their UBS account assets as collateral for UBS non-purpose loans filed customer complaints and arbitration demands seeking aggregate damages of USD 3.4bn, of which USD 3.3bn have been resolved through settlements, arbitration or withdrawal of claims. Allegations include fraud, misrepresentation and unsuitability of the funds and of the loans.

A shareholder derivative action was filed in 2014 against various UBS entities and current and certain former directors of the funds, alleging hundreds of millions of US dollars in losses in the funds. In 2021, the parties reached an agreement to settle this matter for USD 15m, subject to court approval.

In 2011, a purported derivative action was filed on behalf of the Employee Retirement System of the Commonwealth of Puerto Rico (System) against over 40 defendants, including UBS PR, which was named in connection with its underwriting and consulting services. Plaintiffs alleged that defendants violated their purported fiduciary duties and contractual obligations in connection with the issuance and underwriting of USD 3bn of bonds by the System in 2008 and sought damages of over USD 800m. In 2016, the court granted the System's request to join the action as a plaintiff. In 2017, the court denied defendants' motion to dismiss the complaint. In 2020, the court denied plaintiffs' motion for summary judgment. In 2022, UBS filed a motion to dismiss in the bankruptcy proceeding.

Beginning in 2015, certain agencies and public corporations of the Commonwealth of Puerto Rico (Commonwealth) defaulted on certain interest payments on Puerto Rico bonds. In 2016, US federal legislation created an oversight board with power to oversee Puerto Rico's finances and to restructure its debt. The oversight board has imposed a stay on the exercise of certain creditors' rights. In 2017, the oversight board placed certain of the bonds into a bankruptcy-like proceeding under the supervision of a Federal District Judge.

In May 2019, the oversight board filed complaints in Puerto Rico federal district court bringing claims against financial, legal and accounting firms that had participated in Puerto Rico municipal bond offerings, including UBS, seeking a return of underwriting and swap fees paid in connection with those offerings. UBS estimates that it received approximately USD 125m in fees in the relevant offerings.

In August 2019, and February and November 2020, four US insurance companies that insured issues of Puerto Rico municipal bonds sued UBS and several other underwriters of Puerto Rico municipal bonds in three separate cases. The actions collectively seek recovery of an aggregate of USD 955m in damages from the defendants. The plaintiffs in these cases claim that defendants failed to reasonably investigate financial statements in the offering materials for the insured Puerto Rico bonds issued between 2002 and 2007, which plaintiffs argue they relied upon in agreeing to insure the bonds notwithstanding that they had no contractual relationship with the underwriters. Defendants' motions to dismiss have been granted in all three cases; those decisions are being appealed by the plaintiffs.

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Our balance sheet at 30 September 2022 reflected provisions with respect to matters described in this item 4 in amounts that UBS believes to be appropriate under the applicable accounting standard. As in the case of other matters for which we have established provisions, the future outflow of resources in respect of such matters cannot be determined with certainty based on currently available information and accordingly may ultimately prove to be substantially greater (or may be less) than the provisions that we have recognized.

5. Foreign exchange, LIBOR and benchmark rates, and other trading practices

Foreign exchange-related regulatory matters: Beginning in 2013, numerous authorities commenced investigations concerning possible manipulation of foreign exchange markets and precious metals prices. As a result of these investigations, UBS entered into resolutions with Swiss, US and United Kingdom regulators and the European Commission. UBS was granted conditional immunity by the Antitrust Division of the DOJ and by authorities in other jurisdictions in connection with potential competition law violations relating to foreign exchange and precious metals businesses.

Foreign exchange-related civil litigation: Putative class actions have been filed since 2013 in US federal courts and in other jurisdictions against UBS and other banks on behalf of putative classes of persons who engaged in foreign currency transactions with any of the defendant banks. UBS has resolved US federal court class actions relating to foreign currency transactions with the defendant banks and persons who transacted in foreign exchange futures contracts and options on such futures under a settlement agreement that provides for UBS to pay an aggregate of USD 141m and provide cooperation to the settlement classes. Certain class members have excluded themselves from that settlement and have filed individual actions in US and English courts against UBS and other banks, alleging violations of US and European competition laws and unjust enrichment.

In 2015, a putative class action was filed in federal court against UBS and numerous other banks on behalf of persons and businesses in the US who directly purchased foreign currency from the defendants and alleged coconspirators for their own end use. In March 2017, the court granted UBS's (and the other banks') motions to dismiss the complaint. The plaintiffs filed an amended complaint in August 2017. In March 2018, the court denied the defendants' motions to dismiss the amended complaint. In March 2022, the court denied plaintiffs' motion for class certification.

LIBOR and other benchmark-related regulatory matters: Numerous government agencies conducted investigations regarding potential improper attempts by UBS, among others, to manipulate LIBOR and other benchmark rates at certain times. UBS reached settlements or otherwise concluded investigations relating to benchmark interest rates with the investigating authorities. UBS was granted conditional leniency or conditional immunity from authorities in certain jurisdictions, including the Antitrust Division of the DOJ and the Swiss Competition Commission (WEKO), in connection with potential antitrust or competition law violations related to certain rates. However, UBS has not reached a final settlement with WEKO, as the Secretariat of WEKO has asserted that UBS does not qualify for full immunity.

LIBOR and other benchmark-related civil litigation: A number of putative class actions and other actions are pending in the federal courts in New York against UBS and numerous other banks on behalf of parties who transacted in certain interest rate benchmark-based derivatives. Also pending in the US and in other jurisdictions are a number of other actions asserting losses related to various products whose interest rates were linked to LIBOR and other benchmarks, including adjustable rate mortgages, preferred and debt securities, bonds pledged as collateral, loans, depository accounts, investments and other interest-bearing instruments. The complaints allege manipulation, through various means, of certain benchmark interest rates, including USD LIBOR, Euroyen TIBOR, Yen LIBOR, EURIBOR, CHF LIBOR, GBP LIBOR, SGD SIBOR and SOR and Australian BBSW, and seek unspecified compensatory and other damages under varying legal theories.

USD LIBOR class and individual actions in the US: In 2013 and 2015, the district court in the USD LIBOR actions dismissed, in whole or in part, certain plaintiffs' antitrust claims, federal racketeering claims, CEA claims, and state common law claims, and again dismissed the antitrust claims in 2016 following an appeal. In December 2021, the Second Circuit affirmed the district court's dismissal in part and reversed in part and remanded to the district court for further proceedings. The Second Circuit, among other things, held that there was personal jurisdiction over UBS and other foreign defendants based on allegations that at least one alleged co-conspirator undertook an overt act in the United States. Separately, in 2018, the Second Circuit reversed in part the district court's 2015 decision dismissing certain individual plaintiffs' claims and certain of these actions are now proceeding. In 2018, the district court denied plaintiffs' motions for class certification in the USD class actions for claims pending against UBS, and plaintiffs sought permission to appeal that ruling to the Second Circuit. In July 2018, the Second Circuit denied the petition to appeal of the class of USD lenders and in November 2018 denied the petition of the USD exchange class. In January 2019, a putative class action was filed in the District Court for the Southern District of New York against UBS and numerous other banks on behalf of US residents who, since 1 February 2014, directly transacted with a defendant bank in USD LIBOR instruments. The complaint asserts antitrust claims. The defendants moved to dismiss the complaint in August 2019. In March 2020 the court granted defendants' motion to dismiss the complaint in its entirety. Plaintiffs have appealed the dismissal. In March 2022, the Second Circuit dismissed the appeal because appellants, who had been substituted in to replace the original plaintiffs who had withdrawn, lacked standing to pursue the appeal. In August 2020, an individual action was filed in the Northern District of California against UBS and numerous other banks alleging that the defendants conspired to fix the interest rate used as the basis for loans to consumers by jointly setting the USD LIBOR rate and monopolized the market for LIBOR-based consumer loans and credit cards. Defendants moved to dismiss the complaint in September 2021. In September 2022, the court granted defendants' motion to dismiss the complaint in its entirety, while allowing plaintiffs the opportunity to file an amended complaint. Plaintiffs filed an amended complaint in October 2022.

Other benchmark class actions in the US:

Yen LIBOR / Euroyen TIBOR – In 2014, 2015 and 2017, the court in one of the Yen LIBOR / Euroyen TIBOR lawsuits dismissed certain of the plaintiffs' claims, including the plaintiffs' federal antitrust and racketeering claims. In August 2020, the court granted defendants' motion for judgment on the pleadings and dismissed the lone remaining claim in the action as impermissibly extraterritorial. In October 2022, the appeals court affirmed the dismissal on multiple grounds. In 2017, the court dismissed the other Yen LIBOR / Euroyen TIBOR action in its entirety on standing grounds. In April 2020, the appeals court reversed the dismissal and in August 2020 plaintiffs in that action filed an amended complaint focused on Yen LIBOR. The court granted in part and denied in part defendants' motion to dismiss the amended complaint in September 2021. In August 2022, the court granted UBS's motion for reconsideration and dismissed the case against UBS.

CHF LIBOR – In 2017, the court dismissed the CHF LIBOR action on standing grounds and failure to state a claim. Plaintiffs filed an amended complaint, and the court granted a renewed motion to dismiss in September 2019. Plaintiffs appealed. In September 2021, the Second Circuit granted the parties' joint motion to vacate the dismissal and remand the case for further proceedings.

EURIBOR – In 2017, the court in the EURIBOR lawsuit dismissed the case as to UBS and certain other foreign defendants for lack of personal jurisdiction. Plaintiffs have appealed.

SIBOR / SOR – In October 2018, the court in the SIBOR / SOR action dismissed all but one of plaintiffs' claims against UBS. Plaintiffs filed an amended complaint, and the court granted a renewed motion to dismiss in July 2019. Plaintiffs appealed. In March 2021, the Second Circuit reversed the dismissal. Plaintiffs filed an amended complaint in October 2021, which defendants have moved to dismiss. In March 2022, plaintiffs reached a settlement in principle with the remaining defendants, including UBS. The court granted preliminary approval of the settlement in June 2022.

BBSW – In November 2018, the court dismissed the BBSW lawsuit as to UBS and certain other foreign defendants for lack of personal jurisdiction. Plaintiffs filed an amended complaint in April 2019, which UBS and other defendants moved to dismiss. In February 2020, the court granted in part and denied in part defendants' motions to dismiss the amended complaint. In August 2020, UBS and other BBSW defendants joined a motion for judgment on the pleadings, which the court denied in May 2021. In February 2022, plaintiffs reached a settlement in principle with the remaining defendants, including UBS. The court granted preliminary approval of the settlement in May 2022.

GBP LIBOR – The court dismissed the GBP LIBOR action in August 2019. Plaintiffs have appealed.

Government bonds: Putative class actions have been filed since 2015 in US federal courts against UBS and other banks on behalf of persons who participated in markets for US Treasury securities since 2007. A consolidated complaint was filed in 2017 in the US District Court for the Southern District of New York alleging that the banks colluded with respect to, and manipulated prices of, US Treasury securities sold at auction and in the secondary market and asserting claims under the antitrust laws and for unjust enrichment. Defendants' motions to dismiss the consolidated complaint were granted in March 2021. Plaintiffs filed an amended complaint, which defendants moved to dismiss in June 2021. In March 2022, the court granted defendants' motion to dismiss that complaint. Plaintiffs have appealed the dismissal. Similar class actions have been filed concerning European government bonds and other government bonds.

In May 2021, the European Commission issued a decision finding that UBS and six other banks breached European Union antitrust rules in 2007–2011 relating to European government bonds. The European Commission fined UBS EUR 172m. UBS is appealing the amount of the fine.

With respect to additional matters and jurisdictions not encompassed by the settlements and orders referred to above, our balance sheet at 30 September 2022 reflected a provision in an amount that UBS believes to be appropriate under the applicable accounting standard. As in the case of other matters for which we have established provisions, the future outflow of resources in respect of such matters cannot be determined with certainty based on currently available information and accordingly may ultimately prove to be substantially greater (or may be less) than the provision that we have recognized.

6. Swiss retrocessions

The Federal Supreme Court of Switzerland ruled in 2012, in a test case against UBS, that distribution fees paid to a firm for distributing third-party and intra-group investment funds and structured products must be disclosed and surrendered to clients who have entered into a discretionary mandate agreement with the firm, absent a valid waiver. FINMA issued a supervisory note to all Swiss banks in response to the Supreme Court decision. UBS has met the FINMA requirements and has notified all potentially affected clients.

The Supreme Court decision has resulted, and continues to result, in a number of client requests for UBS to disclose and potentially surrender retrocessions. Client requests are assessed on a case-by-case basis. Considerations taken into account when assessing these cases include, among other things, the existence of a discretionary mandate and whether or not the client documentation contained a valid waiver with respect to distribution fees.

Our balance sheet at 30 September 2022 reflected a provision with respect to matters described in this item 6 in an amount that UBS believes to be appropriate under the applicable accounting standard. The ultimate exposure will depend on client requests and the resolution thereof, factors that are difficult to predict and assess. Hence, as in the case of other matters for which we have established provisions, the future outflow of resources in respect of such matters cannot be determined with certainty based on currently available information and accordingly may ultimately prove to be substantially greater (or may be less) than the provision that we have recognized.

7. Communications recordkeeping

The SEC and CFTC conducted investigations of UBS and other financial institutions regarding compliance with records preservation requirements relating to business communications sent over unapproved electronic messaging channels. UBS cooperated with the investigations, and, in September 2022, UBS agreed to pay civil monetary penalties of USD 125m to the SEC and USD 75m to the CFTC to resolve these matters.

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