

UBS AG  
Form 424B2  
November 14, 2018

**The information in this preliminary pricing supplement is not complete and may be changed. We may not sell these Notes until the pricing supplement, the accompanying product supplement and the accompanying prospectus (collectively, the “Offering Documents”) are delivered in final form. The Offering Documents are not an offer to sell these Notes and we are not soliciting offers to buy these Notes in any state where the offer or sale is not permitted.**

Subject to Completion

## PRELIMINARY PRICING SUPPLEMENT

Dated November 14, 2018  
Filed Pursuant to Rule 424(b)(2)  
Registration Statement No. 333-225551

(To Prospectus dated October 31, 2018

and Product Supplement dated October 31, 2018)

UBS AG Trigger Autocallable Contingent Yield Notes

UBS AG \$• linked to the common stock of Apple Inc. due on or about November 19, 2021

UBS AG \$• linked to the common stock of Microsoft Corporation due on or about November 19, 2021

UBS AG \$• linked to the common stock of Raytheon Company due on or about November 19, 2021

UBS AG \$• linked to the American depositary receipts of Taiwan Semiconductor Manufacturing Company Limited due on or about November 19, 2021

## Investment Description

UBS AG Trigger Autocallable Contingent Yield Notes (the “Notes”) are unsubordinated, unsecured debt securities issued by UBS AG (“UBS” or the “issuer”) linked to the performance of the common stock or American depositary receipts of a specific company (the “underlying asset”). UBS will pay a contingent coupon on a coupon payment date only if the closing level of the underlying asset on the applicable observation date (including the final valuation date) is equal to or greater than the coupon barrier. Otherwise, no contingent coupon will be paid for the relevant coupon payment date. UBS will automatically call the Notes early if the closing level of the underlying asset on any observation date (quarterly, beginning after 6 months) prior to the final valuation date is equal to or greater than the initial level. If the Notes are subject to an automatic call, UBS will pay on the applicable coupon payment date following such observation date (the “call settlement date”) a cash payment per Note equal to your principal amount plus the contingent coupon otherwise due, and no further payments will be owed to you under the Notes. If the Notes are not subject to an automatic call and the closing level of the underlying asset on the final valuation date (the “final level”) is equal to or greater than the downside threshold, UBS will pay you a cash payment per Note equal to the principal amount. If, however, the Notes are not subject to an automatic call and the final level is less than the downside threshold, UBS will pay you a cash payment per Note that is less than the principal amount, if anything,

resulting in a percentage loss on your initial investment equal to the percentage decline in the underlying asset from the trade date to the final valuation date (the “underlying return”) and, in extreme situations, you could lose all of your initial investment. **Investing in the Notes involves significant risks. You may lose a significant portion or all of your initial investment and may not receive any contingent coupon during the term of the Notes. Generally, a higher contingent coupon rate on a Note is associated with a greater risk of loss and a greater risk that you will not receive contingent coupons over the term of the Notes. The contingent repayment of principal applies only at maturity. Any payment on the Notes, including any repayment of principal, is subject to the creditworthiness of the issuer. If UBS were to default on its payment obligations you may not receive any amounts owed to you under the Notes and you could lose all of your initial investment.**

## Features

**Potential for Periodic Contingent Coupons** — UBS will pay a contingent coupon on a coupon payment date only if the closing level of the underlying asset is equal to or greater than the coupon barrier on the applicable observation date (including the final valuation date). If, however, the closing level of the underlying asset is less than the coupon barrier on the applicable observation date, no contingent coupon will be paid for the relevant coupon payment date.

**Automatic Call Feature** — UBS will automatically call the Notes and pay you the principal amount of your Notes plus the contingent coupon otherwise due on the related coupon payment date if the closing level of the underlying asset is equal to or greater than the initial level on any observation date (quarterly, beginning after 6 months) prior to the final valuation date. If the Notes were previously subject to an automatic call, no further payments will be owed to you under the Notes.

**Contingent Repayment of Principal at Maturity with Potential for Full Downside Market Exposure** — If by maturity the Notes have not been subject to an automatic call and the final level of the underlying asset is equal to or greater than the downside threshold, UBS will repay you the principal amount per Note at maturity. If, however, the final level of the underlying asset is less than the downside threshold, UBS will pay you a cash payment per Note that is less than the principal amount, if anything, resulting in a percentage loss on your investment equal to the underlying return. The contingent repayment of principal applies only if you hold the Notes to maturity. Any payment on the Notes, including any repayment of principal, is subject to the creditworthiness of UBS.

## Key Dates\*

Trade Date	November 16, 2018
Settlement Date	November 21, 2018
Observation Dates	Quarterly (callable after 6 months) (see page 4)
Final Valuation Date	November 16, 2021
Maturity Date	November 19, 2021

\* Expected. See page 2 for additional details.

We expect to deliver the Notes against payment on or about the third business day following the trade date. Under Rule 15c6-1 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), trades in the secondary market generally are required to settle in two business days (T+2), unless the parties to a trade expressly agree otherwise. Accordingly, purchasers who wish to trade the Notes in the secondary market on any date prior to two business days before delivery of the Notes will be required, by virtue of the fact that each Note initially will settle in three business days (T+3), to specify alternative settlement arrangements to prevent a failed settlement of the secondary market trade.

**Notice to investors: the Notes are significantly riskier than conventional debt instruments. The issuer is not necessarily obligated to repay the principal amount of the Notes at maturity, and the Notes may have the same downside market risk as the underlying asset. This market risk is in addition to the credit risk inherent in purchasing a debt obligation of UBS. You should not purchase the Notes if you do not understand or are not comfortable with the significant risks involved in investing in the Notes.**

**You should carefully consider the risks described under “Key Risks” beginning on page 5 and under “Risk Factors” beginning on page PS-9 of the accompanying product supplement before purchasing any Notes. Events relating to any of those risks, or other risks and uncertainties, could adversely affect the market value of, and the return on, your Notes. You may lose a significant portion or all of your initial investment in the Notes. The Notes will not be listed or displayed on any securities exchange or any electronic communications network.**

### Note Offerings

These preliminary terms relate to the separate Note offerings listed below. Each of the Notes is linked to a different underlying asset and each of the Notes has its own contingent coupon rate, initial level, downside threshold and coupon barrier. The final terms for the Notes will be set on the trade date. Each of the Notes is offered at a minimum investment of 100 Notes at \$10 per Note (representing a \$1,000 investment), and integral multiples of \$10 in excess thereof. *The performance of each Note will not depend on the performance of any other Note.*

Underlying Asset	Bloomberg Ticker	Contingent Coupon Rate	Initial Level	Downside Threshold <sup>(1)</sup>	Coupon Barrier <sup>(1)</sup>	CUSIP	ISIN
Common stock of Apple Inc.	AAPL	8.00% per annum	\$•	64.00% to 69.00% of the Initial Level	64.00% to 69.00% of the Initial Level	90281B551	US90281B5518
Common stock of Microsoft Corporation	MSFT	8.00% per annum	\$•	63.00% to 68.00% of the Initial Level	63.00% to 68.00% of the Initial Level	90281B585	US90281B5856
Common stock of Raytheon Company	RTN	8.00% per annum	\$•	69.00% to 74.00% of the Initial Level	69.00% to 74.00% of the Initial Level	90281B577	US90281B5773
American depositary receipts of Taiwan Semiconductor Manufacturing Company Limited	TSM	8.00% per annum	\$•	59.00% to 64.00% of the Initial Level	59.00% to 64.00% of the Initial Level	90281B569	US90281B5690

<sup>(1)</sup> The downside threshold and coupon barrier will be set to the same percentage.

The estimated initial value of the Notes as of the trade date is expected to be between (i) \$9.517 and \$9.817 for Notes linked to the common stock of Apple Inc., (ii) \$9.439 and \$9.739 for Notes linked to the common stock of Microsoft Corporation, (iii) \$9.425 and \$9.725 for Notes linked to the common stock of Raytheon Company and (iv) \$9.397 and \$9.697 for Notes linked to the American depositary receipts of Taiwan Semiconductor Manufacturing Company Limited. The range of the estimated initial value of the Notes was determined on the date hereof by reference to UBS’ internal pricing models, inclusive of the internal funding rate. For more information about secondary market offers and the estimated initial value of the Notes, see “Key Risks — Fair value considerations” and “— Limited or no secondary

market and secondary market price considerations” on pages 6 and 7 herein.

See “Additional Information about UBS and the Notes” on page ii. The Notes will have the terms set forth in the accompanying product supplement relating to the Notes, dated October 31, 2018, the accompanying prospectus and this document.

Neither the Securities and Exchange Commission nor any other regulatory body has approved or disapproved of these Notes or passed upon the adequacy or accuracy of this document, the accompanying product supplement or the accompanying prospectus. Any representation to the contrary is a criminal offense.

The Notes are not bank deposits and are not insured by the Federal Deposit Insurance Corporation or any other governmental agency.

Offering of Notes	Issue Price to Public		Underwriting Discount		Proceeds to UBS AG	
	Total	Per Note	Total	Per Note	Total	Per Note
Notes linked to the common stock of Apple Inc.	\$•	\$10.00	\$•	\$0.20	\$•	\$9.80
Notes linked to the common stock of Microsoft Corporation	\$•	\$10.00	\$•	\$0.20	\$•	\$9.80
Notes linked to the common stock of Raytheon Company	\$•	\$10.00	\$•	\$0.20	\$•	\$9.80
Notes linked to the American depositary receipts of Taiwan Semiconductor Manufacturing Company Limited	\$•	\$10.00	\$•	\$0.20	\$•	\$9.80

UBS Financial Services Inc. UBS Investment Bank

Additional Information about UBS and the Notes

UBS has filed a registration statement (including a prospectus, as supplemented by a product supplement for the Notes) with the Securities and Exchange Commission (the “SEC”), for the Notes to which this document relates. Before you invest, you should read these documents and any other documents related to the Notes that UBS has filed with the SEC for more complete information about UBS and the Notes. You may obtain these documents for free from the SEC website at [www.sec.gov](http://www.sec.gov). Our Central Index Key, or CIK, on the SEC website is 0001114446.

You may access these documents on the SEC website at [www.sec.gov](http://www.sec.gov) as follows:

- .. Market-Linked Securities product supplement dated October 31, 2018:  
<http://www.sec.gov/Archives/edgar/data/1114446/000091412118002085/ub47016353-424b2.htm>
- .. Prospectus dated October 31, 2018:  
<http://www.sec.gov/Archives/edgar/data/1114446/000119312518314003/d612032d424b3.htm>

*References to “UBS”, “we”, “our” and “us” refer only to UBS AG and not to its consolidated subsidiaries. In this document, “Trigger Autocallable Contingent Yield Notes” or the “Notes” refer to two different Notes that are offered hereby. Also, references to the “accompanying product supplement” mean the UBS product supplement, dated October 31, 2018, and references to “accompanying prospectus” mean the UBS prospectus, titled “Debt Securities and Warrants”, dated October 31, 2018.*

This document, together with the documents listed above, contains the terms of the Notes and supersedes all other prior or contemporaneous oral statements as well as any other written materials including all other prior pricing terms, correspondence, trade ideas, structures for implementation, sample structures, brochures or other educational materials of ours. You should carefully consider, among other things, the matters set forth in “Key Risks” beginning on page 5 and in “Risk Factors” beginning on page PS-9 in the accompanying product supplement, as the Notes involve risks not associated with conventional debt securities. We urge you to consult your investment, legal, tax, accounting and other advisors before deciding to invest in the Notes.

If there is any inconsistency between the terms of the Notes described in the accompanying prospectus, the accompanying product supplement and this document, the following hierarchy will govern: first, this document; second, the accompanying product supplement and last, the accompanying prospectus.

UBS reserves the right to change the terms of, or reject any offer to purchase, the Notes prior to their issuance. In the event of any changes to the terms of the Notes, UBS will notify you and you will be asked to accept such changes in connection with your purchase. You may also choose to reject such changes in which case UBS may reject your offer to purchase.

## Investor Suitability

The Notes may be suitable for you if:

- .. You fully understand the risks inherent in an investment in the Notes, including the risk of loss of a significant portion or all of your initial investment.
- .. You can tolerate a loss of a significant portion or all of your initial investment and are willing to make an investment that may have the same downside market risk as an investment in the underlying asset.  
You are willing to receive no contingent coupons and believe the closing level of the underlying asset will be equal to or greater than the coupon barrier on the specified observation dates and that the final level will be equal to or greater than the downside threshold on the final valuation date.
- .. You understand and accept that you will not participate in any appreciation of the underlying asset and that your potential return is limited to any contingent coupons.
- .. You can tolerate fluctuations in the price of the Notes prior to maturity that may be similar to or exceed the downside fluctuations in the level of the underlying asset.  
You would be willing to invest in the Notes based on the contingent coupon rate specified on the cover hereof and if the downside threshold and coupon barrier were set equal to the top of the range specified on the cover hereof (the actual downside threshold and coupon barrier will be set on the trade date).
- .. You do not seek guaranteed current income from your investment and are willing to forgo any dividends paid on the underlying asset.
- .. You are willing to invest in Notes that may be subject to an automatic call and you are otherwise willing to hold such Notes to maturity and you accept that there may be little or no secondary market for the Notes.
- .. You understand and accept the single equity risk associated with the Notes and understand and are willing to accept the risks associated with the underlying asset.
- .. You are willing to assume the credit risk of UBS for all payments under the Notes, and understand that if UBS defaults on its obligations you may not receive any amounts due to you including any repayment of principal.  
You understand that the estimated initial value of the Notes determined by our internal pricing models is lower than the issue price and that should UBS Securities LLC or any affiliate make secondary markets for the Notes, the price (not including their customary bid-ask spreads) will temporarily exceed the internal pricing model price.

The Notes may not be suitable for you if:

- .. You do not fully understand the risks inherent in an investment in the Notes, including the risk of loss of a significant portion or all of your initial investment.  
.. You require an investment designed to provide a full return of principal at maturity.
- .. You cannot tolerate a loss of all or a significant portion of your investment or you are not willing to make an investment that may have the same downside market risk as an investment in the underlying asset.  
You believe that the level of the underlying asset will decline during the term of the Notes and that the closing level is likely to be less than the coupon barrier on the specified observation dates or less than the downside threshold on the final valuation date.
- .. You seek an investment that participates in the appreciation of the underlying asset or that has unlimited return potential.
- .. You cannot tolerate fluctuations in the price of the Notes prior to maturity that may be similar to or exceed the downside fluctuations of the underlying asset.  
You would be unwilling to invest in the Notes based on the contingent coupon rate specified on the cover hereof or if the downside threshold and coupon barrier were set equal to the top of the range specified on the cover hereof (the actual downside threshold and coupon barrier will be set on the trade date).
- .. You seek guaranteed current income from your investment or are unwilling to forgo any dividends paid on the underlying asset.
- .. You do not understand or accept the single equity risk associated with the Notes or do not understand or are unwilling to accept the risks associated with the underlying asset.

- .. You are unable or unwilling to invest in Notes that may be subject to an automatic call, you are otherwise unable or unwilling to hold the Notes to maturity or you seek an investment for which there will be an active secondary market.
- .. You are not willing to assume the credit risk of UBS for all payments under the Notes, including any repayment of principal.

**The suitability considerations identified above are not exhaustive. Whether or not the Notes are a suitable investment for you will depend on your individual circumstances and you should reach an investment decision only after you and your investment, legal, tax, accounting and other advisors have carefully considered the suitability of an investment in the Notes in light of your particular circumstances. You should review “Information About the Underlying Asset” herein for more information on the underlying assets. You should also review carefully the “Key Risks” section herein for risks related to an investment in the Notes.**

Preliminary Terms for Each Offering of the Notes

Issuer	UBS AG London Branch
Principal Amount	\$10 per Note
Term	Approximately 36 months, unless subject to an automatic call. In the event that we make any change to the expected trade date and settlement date, the calculation agent may adjust the observation dates and coupon payment dates, as well as the final valuation date and maturity date to ensure that the stated term of the Notes remains the same.
Underlying Asset	The common stock or American depository receipts of a specific company, as indicated on the cover hereof. <b>If the closing level of the underlying asset is equal to or greater than the coupon barrier on any observation date (including the final valuation date), UBS will pay you the contingent coupon applicable to such observation date.</b>
Contingent Coupon & Contingent Coupon Rate	<b>If the closing level of the underlying asset is less than the coupon barrier on any observation date (including the final valuation date), the contingent coupon applicable to such observation date will not accrue or be payable and UBS will not make any payment to you on the relevant coupon payment date.</b>

The contingent coupon is a fixed amount based upon equal periodic installments at the contingent coupon rate, which is a per annum rate. The table below sets forth the contingent coupon rate and contingent coupon for each Note that would be applicable to each observation date on which the closing level of the underlying asset is equal to or greater than the coupon barrier.

	<b>Apple Inc.</b>	<b>Microsoft Corporation</b>	<b>Raytheon Company</b>	<b>Taiwan Semiconductor Manufacturing Company Limited</b>
<b>Contingent Coupon Rate</b>	8.00%	8.00%	8.00%	8.00%
<b>Contingent Coupon</b>	\$0.20	\$0.20	\$0.20	\$0.20

**Contingent coupons on the Notes are not guaranteed. UBS will not pay you the contingent coupon for any observation date on which the closing level of the underlying asset is less than the coupon barrier.**

Coupon Barrier <sup>(1)</sup>	A specified level of the underlying asset that is less than the initial level, equal to a percentage of the initial level and equal to the downside threshold, as specified on the cover hereof. The actual coupon barrier for the Notes will be set on the trade date to the same percentage as the downside threshold.
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Automatic Call Feature	UBS will automatically call the Notes if the closing level of the underlying asset on any observation date (quarterly, beginning after six months) prior to the final valuation date is equal to or greater
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than the initial level.

If the Notes are subject to an automatic call, UBS will pay you on the corresponding coupon payment date (which will be the “call settlement date”) a cash payment per Note equal to your principal amount plus the contingent coupon otherwise due on such date (the “call settlement amount”). Following an automatic call, no further payments will be made on the Notes.

**If the Notes are not subject to an automatic call and the final level is equal to or greater than the downside threshold,** UBS will pay you a cash payment equal to:

Principal Amount of \$10

Payment at  
Maturity (per  
Note)

**If the Notes are not subject to an automatic call and the final level is less than the downside threshold,** UBS will pay you a cash payment that is less than the principal amount, if anything, equal to:

$\$10 \times (1 + \text{Underlying Return})$

**In such a case, you will suffer a percentage loss on your initial investment equal to the underlying return.**

The quotient, expressed as a percentage, of the following formula:

Underlying  
Return

$\frac{\text{Final Level} - \text{Initial Level}}{\text{Initial Level}}$

A specified level of the underlying asset that is less than the initial level, equal to a percentage of the initial level and equal to the coupon barrier, as specified on the cover hereof.

Downside  
Threshold<sup>(1)</sup>

The actual downside threshold for the Notes will be set on the trade date to the same percentage as the coupon barrier.

Initial Level<sup>(1)</sup>

The closing level of the underlying asset on the trade date.

Final Level<sup>(1)</sup>

The closing level of the underlying asset on the final valuation date.

As determined by the calculation agent and as may be adjusted in the case of certain adjustment events as described under “General Terms of the Notes — Antidilution Adjustments for Notes Linked to an Underlying Equity or Equity Basket Asset” and “Reorganization Events for Notes Linked to an Underlying Equity or Equity Basket Asset” in the accompanying product supplement.

Investment Timeline

<b>Trade date</b>	<p>The initial level of the underlying asset is observed and the final terms of the Notes are set.</p> <p>If the closing level is equal to or greater than the coupon barrier on any observation date (including the final valuation date), UBS will pay you a contingent coupon on the applicable coupon payment date.</p>
<b>Quarterly (callable after six months)</b>	<p>The Notes will be subject to an automatic call if the closing level of the underlying asset on any observation date (quarterly, beginning after six months) prior to the final valuation date is equal to or greater than the initial level.</p> <p>If the Notes are subject to an automatic call UBS will pay you a cash payment per Note equal to your principal amount plus the contingent coupon otherwise due on such date. Following an automatic call, no further payments will be made on the Notes.</p> <p>The final level is observed on the final valuation date and the underlying return of the underlying asset is calculated.</p> <p><b>If the Notes are not subject to an automatic call and the final level is equal to or greater than the downside threshold, UBS will pay you a cash payment per Note equal to:</b></p> <p>Principal Amount of \$10</p>
<b>Maturity date</b>	<p><b>If the Notes are not subject to an automatic call and the final level is less than the downside threshold, UBS will pay you a cash payment per Note that is less than the principal amount, if anything, equal to:</b></p> <p><math>\\$10 \times (1 + \text{Underlying Return})</math></p> <p><b>In such a case, you will suffer a percentage loss on your initial investment equal to the underlying return.</b></p>

**Investing in the Notes involves significant risks. You may lose a significant portion or all of your initial investment. Any payment on the Notes, including any repayment of principal, is subject to the creditworthiness of UBS. If UBS were to default on its payment obligations, you may not receive any amounts owed to you under the Notes and you could lose all of your initial investment.**

**If the Notes are not subject to an automatic call, you may lose a significant portion or all of your initial investment. Specifically, if the Notes are not subject to an automatic call and the final level is less than the downside threshold, you will lose a percentage of your principal amount equal to the underlying return and, in extreme situations, you could lose all of your initial investment.**

Observation Dates<sup>(1)</sup> and Coupon Payment Dates<sup>(1)(2)(3)</sup>

Observation Dates	Coupon Payment Dates	Observation Dates	Coupon Payment Dates	Observation Dates	Coupon Payment Dates
February 19, 2019*	February 21, 2019*	February 18, 2020	February 20, 2020	February 16, 2021	February 18, 2021
May 16, 2019*	May 20, 2019	May 18, 2020	May 20, 2020	May 17, 2021	May 19, 2021
August 16, 2019	August 20, 2019	August 17, 2020	August 19, 2020	August 16, 2021	August 18, 2021
November 18, 2019	November 20, 2019	November 16, 2020	November 18, 2020	Final Valuation Date	Maturity Date

\* The Notes are not callable until the first potential call settlement date, which is May 20, 2019.

(1) Subject to the market disruption event provisions set forth in the accompanying product supplement.

If you are able to sell the Notes in the secondary market on an observation date, the purchaser of the Notes will be (2) deemed to be the record holder on the applicable record date and therefore you will not be entitled to any payment attributable to that observation date.

(3) Two business days following each observation date, except that the coupon payment date for the final valuation date is the maturity date.

## Key Risks

An investment in the Notes involves significant risks. Investing in the Notes is not equivalent to investing in the underlying asset. Some of the key risks that apply to the Notes are summarized below, but we urge you to read the more detailed explanation of risks relating to the Notes in the “Risk Factors” section of the accompanying product supplement. We also urge you to consult your investment, legal, tax, accounting and other advisors before you invest in the Notes.

**Risk of loss at maturity** — The Notes differ from ordinary debt securities in that UBS will not necessarily make periodic coupon payments or repay the principal amount of the Notes at maturity. If the Notes are not subject to an automatic call and the final level is less than the downside threshold, you will lose a percentage of your principal amount equal to the underlying return and, in extreme situations, you could lose all of your initial investment.

**The contingent repayment of principal applies only at maturity** — You should be willing to hold your Notes to maturity. If you are able to sell your Notes prior to an automatic call or maturity in the secondary market, you may have to sell them at a loss relative to your initial investment even if the then-current level of the underlying asset at that time is equal to or greater than the downside threshold. All payments on the Notes are subject to the creditworthiness of UBS.

**You may not receive any contingent coupons with respect to your Notes**— UBS will not necessarily make periodic coupon payments on the Notes. UBS will pay a contingent coupon for each observation date on which the closing level of the underlying asset is equal to or greater than the coupon barrier. If the closing level of the underlying asset is less than the coupon barrier on any observation date, UBS will not pay you the contingent coupon applicable to such observation date. If the closing level of the underlying asset is less than the coupon barrier on each of the observation dates, UBS will not pay you any contingent coupons during the term of, and you will not receive a positive return on, your Notes. Generally, this non-payment of the contingent coupon coincides with a period of greater risk of principal loss on your Notes.

**Your potential return on the Notes is limited to any contingent coupons and you will not participate in any appreciation of the underlying asset** — The return potential of the Notes is limited to the pre-specified contingent coupon rate, regardless of any appreciation of the underlying asset. In addition, your return on the Notes will vary based on the number of observation dates, if any, in which the requirements of the contingent coupon have been met prior to maturity or an automatic call. Further, if the Notes are subject to an automatic call, you will not receive any contingent coupons or any other payment in respect of any observation dates after the applicable call settlement date. Because the Notes may be subject to an automatic call as early as the first potential call settlement date, the total return on the Notes could be less than if the Notes remained outstanding until maturity. Furthermore, if the Notes are not subject to an automatic call, you may be subject to the decline of the underlying asset even though you cannot participate in any appreciation of the underlying asset. As a result, the return on an investment in the Notes could be less than the return on a direct investment in the underlying asset. In addition, as an owner of the Notes, you will not have voting rights or any other rights of a holder of the underlying asset.

**A higher contingent coupon rate or lower downside threshold or coupon barrier may reflect greater expected volatility of the underlying asset, and greater expected volatility generally indicates an increased risk of loss at maturity** — The economic terms for the Notes, including the contingent coupon rate, coupon barrier and downside threshold, are based, in part, on the expected volatility of the underlying asset at the time the terms of the Notes are set. “Volatility” refers to the frequency and magnitude of changes in the level of the underlying asset. The greater the expected volatility of the underlying asset as of the trade date, the greater the expectation is as of that date that the closing level of the underlying asset could be less than the coupon barrier on any observation date and that the final level of the underlying asset could be less than the downside threshold on the final valuation date and, as a consequence, indicates an increased risk of not receiving a contingent coupon and an increased risk of loss, respectively. All things being equal, this greater expected volatility will generally be reflected in a higher contingent coupon rate than the yield payable on our conventional debt securities with a similar maturity or on otherwise comparable securities, and/or a lower downside threshold and/or coupon barrier than those terms on otherwise comparable securities. Therefore, a relatively higher contingent coupon rate may indicate an increased risk of loss.

Further, relatively lower downside thresholds and/or coupon barriers may not necessarily indicate that the Notes have a greater likelihood of a return of principal at maturity and/or paying contingent coupons. You should be willing to accept the downside market risk of the underlying asset and the potential to lose a significant portion or all of your initial investment.

**Reinvestment risk** — The Notes will be subject to an automatic call if the closing level of the underlying asset is equal to or greater than the initial level on certain observation dates prior to the final valuation date, as set forth under “Observation Dates and Coupon Payment Dates” above. Because the Notes could be subject to an automatic call, the term of your investment may be limited. In the event that the Notes are subject to an automatic call, there is no guarantee that you would be able to reinvest the proceeds at a comparable return and/or with a comparable contingent coupon rate for a similar level of risk. In addition, to the extent you are able to reinvest such proceeds in an investment comparable to the Notes, you may incur transaction costs such as dealer discounts and hedging costs built into the price of the new securities. Generally, however, the longer the Notes remain outstanding, the less likely the Notes will be subject to an automatic call due to the decline in the level of the underlying asset and the shorter time remaining for the level of the underlying asset to recover. Such periods generally coincide with a period of greater risk of principal loss on your Notes.

**Credit risk of UBS** — The Notes are unsubordinated, unsecured debt obligations of UBS and are not, either directly or indirectly, an obligation of any third party. Any payment to be made on the Notes, including any repayment of principal, depends on the ability of UBS to satisfy its obligations as they come due. As a result, UBS’ actual and perceived creditworthiness of UBS may affect the market value of the Notes. If UBS were to default on its obligations, you may not receive any amounts owed to you under the terms of the Notes and you could lose all of your initial investment.

**Single equity risk** — The level of the underlying asset can rise or fall sharply due to factors specific to that underlying asset and the issuer of such underlying asset (the "underlying asset issuer"), such as stock price volatility, earnings, financial conditions, corporate, industry and regulatory developments, management changes and decisions and other events, as well as general market factors, such as general market volatility and levels, interest rates and economic and political conditions. You, as an investor in the Notes, should make your own investigation into the underlying asset issuer and the underlying asset for your Notes. For additional information regarding the underlying asset issuer, please see "Information about the Underlying Asset" in this document and the underlying asset issuer's SEC filings referred to in that section. **We urge you to review financial and other information filed periodically by the applicable underlying asset issuer with the SEC.**

**Fair value considerations.**

**The issue price you pay for the Notes will exceed their estimated initial value** — The issue price you pay for the Notes will exceed their estimated initial value as of the trade date due to the inclusion in the issue price of the underwriting discount, hedging costs, issuance costs and projected profits. As of the close of the relevant markets on the trade date, we will determine the estimated initial value of the Notes by reference to our internal pricing models and it will be set forth in the final pricing supplement. The pricing models used to determine the estimated initial value of the Notes incorporate certain variables, including the level and volatility of the underlying asset, any expected dividends on the underlying asset, if applicable, prevailing interest rates, the term of the Notes and our internal funding rate. Our internal funding rate is typically lower than the rate we would pay to issue conventional fixed or floating rate debt securities of a similar term. The underwriting discount, hedging costs, issuance costs, projected profits and the difference in rates will reduce the economic value of the Notes to you. Due to these factors, the estimated initial value of the Notes as of the trade date will be less than the issue price you pay for the Notes.

**The estimated initial value is a theoretical price; the actual price that you may be able to sell your Notes in any secondary market (if any) at any time after the trade date may differ from the estimated initial value** — The value of your Notes at any time will vary based on many factors, including the factors described above and in "—Single equity risk" above and is impossible to predict. Furthermore, the pricing models that we use are proprietary and rely in part on certain assumptions about future events, which may prove to be incorrect. As a result, after the trade date, if you attempt to sell the Notes in the secondary market, the actual value you would receive may differ, perhaps materially, from the estimated initial value of the Notes determined by reference to our internal pricing models. The estimated initial value of the Notes does not represent a minimum or maximum price at which we or any of our affiliates would be willing to purchase your Notes in any secondary market at any time.

**Our actual profits may be greater or less than the differential between the estimated initial value and the issue price of the Notes as of the trade date** — We may determine the economic terms of the Notes, as well as hedge our obligations, at least in part, prior to the trade date. In addition, there may be ongoing costs to us to maintain and/or adjust any hedges and such hedges are often imperfect. Therefore, our actual profits (or potentially, losses) in issuing the Notes cannot be determined as of the trade date and any such differential between the estimated initial value and the issue price of the Notes as of the trade date does not reflect our actual profits. Ultimately, our actual profits will be known only at the maturity of the Notes.

**Limited or no secondary market and secondary market price considerations.**

**There may be little or no secondary market for the Notes** — The Notes will not be listed or displayed on any securities exchange or any electronic communications network. UBS Securities LLC and its affiliates intend, but are not required, to make a market for the Notes and may stop making a market at any time. If you are able to sell your Notes prior to maturity, you may have to sell them at a substantial loss. Furthermore, there can be no assurance that a secondary market for the Notes will develop. The estimated initial value of the Notes does not represent a minimum or maximum price at which we or any of our affiliates would be willing to purchase your Notes in any secondary market at any time.

**The price at which UBS Securities LLC and its affiliates may offer to buy the Notes in the secondary market (if any) may be greater than UBS' valuation of the Notes at that time, greater than any other secondary market prices provided by unaffiliated dealers (if any) and, depending on your broker, greater than the valuation provided on your customer account statements** — For a limited period of time following the issuance of the Notes, UBS Securities LLC or its affiliates may offer to buy or sell such Notes at a price that exceeds (i) our

valuation of the Notes at that time based on our internal pricing models, (ii) any secondary market prices provided by unaffiliated dealers (if any) and (iii) depending on your broker, the valuation provided on customer account statements. The price that UBS Securities LLC may initially offer to buy such Notes following issuance will exceed the valuations indicated by our internal pricing models due to the inclusion for a limited period of time of the aggregate value of the underwriting discount, hedging costs, issuance costs and theoretical projected trading profit. The portion of such amounts included in our price will decline to zero on a straight line basis over a period ending no later than the date specified under “Supplemental Plan of Distribution (Conflicts of Interest); Secondary Markets (if any)”. Thereafter, if UBS Securities LLC or an affiliate makes secondary markets in the Notes, it will do so at prices that reflect our estimated value determined by reference to our internal pricing models at that time. The temporary positive differential relative to our internal pricing models arises from requests from and arrangements made by UBS Securities LLC with the selling agents of structured debt securities such as the Notes. As described above, UBS Securities LLC and its affiliates intend, but are not required, to make a market for the Notes and may stop making a market at any time. The price at which UBS Securities LLC or an affiliate may make secondary markets at any time (if at all) will also reflect its then current bid-ask spread for similar sized trades of structured debt securities. UBS Financial Services Inc. and UBS Securities LLC reflect this temporary positive differential on their customer statements. Investors should inquire as to the valuation provided on customer account statements provided by unaffiliated dealers.

**Economic and market factors affecting the terms and market price of Notes prior to maturity** — Because structured notes, including the Notes, can be thought of as having a debt component and a derivative component, factors that influence the values of debt instruments and options and other derivatives will also affect the terms and features of the Notes at issuance and the market price of the Notes prior to maturity. These factors include the level of the underlying asset; the volatility of the underlying asset; any dividends paid on the underlying asset; the time remaining to the maturity of the Notes; interest rates in the markets; geopolitical conditions and economic, financial, political, force majeure and regulatory or judicial events; whether the underlying asset is currently or has been less than the coupon barrier; the availability of comparable instruments; and the creditworthiness of UBS; the then current bid-ask spread for the Notes and the factors discussed under “— Potential conflict of interest” below. These and other factors are unpredictable and interrelated and may offset or magnify each other.

**Impact of fees and the use of internal funding rates rather than secondary market credit spreads on secondary market prices** — All other things being equal, the use of the internal funding rates described above under “— Fair value considerations” as well as the inclusion in the issue price of the underwriting discount, hedging costs, issuance costs and any projected profits are, subject to the temporary mitigating effect of UBS Securities LLC’s and its affiliates’ market making premium, expected to reduce the price at which you may be able to sell the Notes in any secondary market.

**There are important differences between the American depositary receipts and the ordinary shares of a non-U.S. company** — Investors in Notes linked to the American depositary receipts of Taiwan Semiconductor Manufacturing Company Limited should be aware that there are important differences between the rights of holders of an American depositary receipt and the non-U.S. stock such American depositary receipt represents. American depositary receipts are issued pursuant to a deposit agreement, which sets forth the rights and responsibilities of the depositary, the non-U.S. company and holders of the American depositary receipts, which may be different from the rights of holders of the non-U.S. stock. For example, a company may make distributions in respect of the non-U.S. stock that are not passed on to the holders of its American depositary receipts. Any such differences between the rights of holders of the American depositary receipts and the rights of holders of the ordinary shares of the non-U.S. company may be significant and may materially and adversely affect the value of the American depositary receipts and, as a result, the value of, and any amounts payable on, your Notes.

**The Notes linked to the American depositary receipts of Taiwan Semiconductor Manufacturing Company Limited are subject to non-U.S. markets risk** — The Notes linked to the American depositary receipts of Taiwan Semiconductor Manufacturing Company Limited are subject to risks associated with non-U.S. markets. An investment in securities linked directly or indirectly to the value of non-U.S. equity securities involves particular risks. For example, the non-U.S. markets may be more volatile than the U.S. securities markets, and market developments may affect these markets differently from the U.S. or other securities markets. Direct or indirect government intervention to stabilize the securities markets outside the U.S., as well as cross-shareholdings in certain companies, may affect trading prices and trading volumes in those markets. Also, the public availability of information concerning the non-U.S. issuers may vary depending on their home jurisdiction and the reporting requirements imposed by their respective regulators. Securities prices generally are subject to political, economic, financial and social factors that apply to the markets in which they trade and, to a lesser extent, non-U.S. markets. Securities prices outside the U.S. are subject to political, economic, financial and social factors that apply in non-U.S. countries. These factors, which could negatively affect non-U.S. markets, include the possibility of changes in a non-U.S. government’s economic and fiscal policies, the possible imposition of, or changes in, currency exchange laws or other laws or restrictions applicable to non-U.S. companies or investments in non-U.S. equity securities and the possibility of fluctuations in the rate of exchange between currencies. Moreover, non-U.S. economies may differ favorably or unfavorably from the U.S. economy in important respects such as growth of gross national product, rate of inflation, capital reinvestment, resources and self-sufficiency.

**The Notes linked to the American depositary receipts of Taiwan Semiconductor Manufacturing Company Limited are subject to exchange rate risk** — American depositary receipts are denominated in U.S. dollars but represent non-U.S. equity securities that are denominated in a non-U.S. currency, changes in currency exchange rates may negatively impact the value of the American depositary receipts. The value of the non-U.S. currency may be subject to a high degree of fluctuation due to changes in interest rates, the effects of monetary policies issued by the



U.S., non-U.S. governments, central banks or supranational entities, the imposition of currency controls or other national or global political or economic developments. Therefore, exposure to exchange rate risk may materially and adversely affect the value of the American depositary receipts and, as a result, the value of, and any amounts payable on, your Notes.

**There can be no assurance that the investment view implicit in the Notes will be successful** — It is impossible to predict whether and the extent to which the level of the underlying asset will rise or fall and there can be no assurance that the closing level of the underlying asset will be equal to or greater than the coupon barrier on any observation date, or, if the Notes are not subject to an automatic call, that the final level will be equal to or greater than the downside threshold. The level of the underlying asset will be influenced by complex and interrelated political, economic, financial and other factors that affect the underlying asset issuer. You should be willing to accept the downside risks of owning equities in general and the underlying asset in particular, and the risk of losing a significant portion or all of your initial investment.

**There is no affiliation between the underlying asset issuer and UBS, and UBS is not responsible for any disclosure by such issuer** — We are not affiliated with the underlying asset issuer. However, we and our affiliates may currently, or from time to time in the future engage in business with the underlying asset issuer. However, we are not affiliated with the underlying asset issuer and are not responsible for such issuer's public disclosure of information, whether contained in SEC filings or otherwise. You, as an investor in the Notes, should conduct your own investigation into the underlying asset and the underlying asset issuer for your Notes. The underlying asset issuer is not involved in the Notes offered hereby in any way and has no obligation of any sort with respect to your Notes. The underlying asset issuer has no obligation to take your interests into consideration for any reason, including when taking any corporate actions that might affect the value of your Notes.

**The calculation agent can make antidilution and reorganization adjustments that affect the payment to you at maturity** — For antidilution and reorganization events affecting the underlying asset, the calculation agent may make adjustments to the initial level,

coupon barrier, downside threshold and/or final level, as applicable, and any other term of the Notes. However, the calculation agent will not make an adjustment in response to every corporate event that could affect the underlying asset. If an event occurs that does not require the calculation agent to make an adjustment, the market value of the Notes and the payment at maturity may be materially and adversely affected. In addition, all determinations and calculations concerning any such adjustments will be made by the calculation agent. You should be aware that the calculation agent may make any such adjustment, determination or calculation in a manner that differs from that discussed in the accompanying product supplement or this document as necessary to achieve an equitable result. Following certain reorganization events relating to the underlying asset issuer where such issuer is not the surviving entity, the determination as to whether the contingent coupon is payable to you on any coupon payment date, whether the Notes are subject to an automatic call or the amount you receive at maturity may be based on the equity security of a successor to the underlying asset issuer in combination with any cash or any other assets distributed to holders of the underlying asset in such reorganization event. If the underlying asset issuer becomes subject to (i) a reorganization event whereby the underlying asset is exchanged solely for cash, (ii) a merger or consolidation with UBS or any of its affiliates, or (iii) the underlying asset is delisted or otherwise suspended from trading, the determination as to whether the contingent coupon is payable to you on any coupon payment date, whether the Notes are subject to an automatic call or the amount you receive at maturity may be based on a substitute security. The occurrence of any antidilution or reorganization event and the consequent adjustments may materially and adversely affect the value of the Notes and your payment at maturity, if any. For more information, see the sections “General Terms of the Notes — Antidilution Adjustments for Notes Linked to an Underlying Equity or Equity Basket Asset” and “—Reorganization Events for Notes Linked to an Underlying Equity or Equity Basket Asset” in the accompanying product supplement.

**Potential UBS impact on the underlying asset** — Trading or transactions by UBS or its affiliates in the underlying asset, listed and/or over-the-counter options, futures, exchange-traded funds or other instruments with returns linked to the performance of the underlying asset, may adversely affect the market price of that underlying asset on any observation date (including the final valuation date) and, therefore, the market value of the Notes and any payment of any contingent coupons or at maturity.

**Potential conflict of interest** — UBS and its affiliates may engage in business with an underlying asset issuer, which may present a conflict between the obligations of UBS and you, as a holder of the Notes. There are also potential conflicts of interest between you and the calculation agent, which will be an affiliate of UBS and which will make potentially subjective judgments. The calculation agent will determine whether the contingent coupon is payable to you on any coupon payment date, whether the Notes are subject to an automatic call and the payment at maturity of the Notes, if any, based on observed levels of the underlying asset. The calculation agent can postpone the determination of the terms of the Notes on the trade date, any observation date or final valuation date, respectively. As UBS determines the economic terms of the Notes, including the contingent coupon rate, downside threshold and coupon barrier, and such terms include the underwriting discount, hedging costs, issuance costs and projected profits, the Notes represent a package of economic terms. There are other potential conflicts of interest insofar as an investor could potentially get better economic terms if that investor entered into exchange-traded and/or OTC derivatives or other instruments with third parties, assuming that such instruments were available and the investor had the ability to assemble and enter into such instruments.

**Potentially inconsistent research, opinions or recommendations by UBS** — UBS and its affiliates publish research from time to time on financial markets and other matters that may influence the value of the Notes, or express opinions or provide recommendations that are inconsistent with purchasing or holding the Notes. Any research, opinions or recommendations expressed by UBS or its affiliates may not be consistent with each other and may be modified from time to time without notice. Investors should make their own independent investigation of the merits of investing in the Notes and the underlying asset to which the Notes are linked.

**The Notes are not bank deposits** — An investment in the Notes carries risks which are very different from the risk profile of a bank deposit placed with UBS or its affiliates. The Notes have different yield and/or return, liquidity and risk profiles and would not benefit from any protection provided to deposits.

**If UBS experiences financial difficulties, FINMA has the power to open restructuring or liquidation proceedings in respect of, and/or impose protective measures in relation to, UBS, which proceedings or measures may have a material adverse effect on the terms and market value of the Notes and/or the ability of UBS to make payments thereunder** — The Swiss Financial Market Supervisory Authority (“FINMA”) has broad statutory powers to take measures and actions in relation to UBS if (i) it concludes that there is justified concern that UBS is over-indebted or has serious liquidity problems or (ii) UBS fails to fulfil the applicable capital adequacy requirements (whether on a standalone or consolidated basis) after expiry of a deadline set by FINMA. If one of these pre-requisites is met, FINMA is authorized to open restructuring proceedings or liquidation (bankruptcy) proceedings in respect of, and/or impose protective measures in relation to, UBS. The Swiss Banking Act grants significant discretion to FINMA in connection with the aforementioned proceedings and measures. In particular, a broad variety of protective measures may be imposed by FINMA, including a bank moratorium or a maturity postponement, which measures may be ordered by FINMA either on a stand-alone basis or in connection with restructuring or liquidation proceedings. The resolution regime of the Swiss Banking Act is further detailed in the FINMA Banking Insolvency Ordinance (“BIO-FINMA”). In a restructuring proceeding, FINMA, as resolution authority, is competent to approve the resolution plan. The resolution plan may, among other things, provide for (a) the transfer of all or a portion of UBS’ assets, debts, other liabilities and contracts (which may or may not include the contractual relationship between UBS and the holders of Notes) to another entity, (b) a stay (for a maximum of two business days) on the termination of contracts to which UBS is a party, and/or the exercise of (w) rights to terminate, (x) netting rights, (y) rights to enforce or dispose of collateral or (z) rights to transfer claims, liabilities or collateral under contracts to which UBS is a party, (c) the conversion of UBS’ debt and/or other obligations, including its obligations under the Notes, into equity (a “debt-to-equity” swap), and/or (d) the partial or full write-off of obligations owed by UBS (a “write-off”), including its obligations under the Notes. The BIO-FINMA provides that a debt-to-equity swap and/or a write-off of debt and other obligations (including the Notes) may only take place after (i) all debt instruments issued by UBS qualifying as additional tier 1 capital or tier 2 capital have been converted into equity or written-off, as applicable, and (ii) the existing equity of UBS has been fully cancelled. While the BIO-FINMA does not expressly address the order in which a write-off of debt instruments other than debt instruments qualifying as additional tier 1 capital or tier 2 capital should occur, it states that debt-to-equity swaps should occur in the following order: first, all subordinated claims not qualifying as regulatory

capital; second, all other claims not excluded by law from a debt-to-equity swap (other than deposits); and third, deposits (in excess of the amount privileged by law). However, given the broad discretion granted to FINMA as the resolution authority, any restructuring plan in respect of UBS could provide that the claims under or in connection with the Notes will be partially or fully converted into equity or written-off, while preserving other obligations of UBS that rank *pari passu* with, or even junior to, UBS' obligations under the Notes. Consequently, holders of Notes may lose all or some of their investment in the Notes. In the case of restructuring proceedings with respect to a systemically important Swiss bank (such as UBS), the creditors whose claims are affected by the restructuring plan will not have a right to vote on, reject, or seek the suspension of the restructuring plan. In addition, if a restructuring plan has been approved by FINMA, the rights of a creditor to seek judicial review of the restructuring plan (e.g., on the grounds that the plan would unduly prejudice the rights of holders of Notes or otherwise be in violation of the Swiss Banking Act) are very limited. In particular, a court may not suspend the implementation of the restructuring plan. Furthermore, even if a creditor successfully challenges the restructuring plan, the court can only require the relevant creditor to be compensated *ex post* and there is currently no guidance as to on what basis such compensation would be calculated or how it would be funded.

**Dealer incentives** — UBS and its affiliates act in various capacities with respect to the Notes. We and our affiliates may act as a principal, agent or dealer in connection with the sale of the Notes. Such affiliates, including the sales representatives, will derive compensation from the distribution of the Notes and such compensation may serve as an incentive to sell these Notes instead of other investments. We will pay total underwriting compensation in an amount equal to the underwriting discount listed on the cover hereof per Note to any of our affiliates acting as agents or dealers in connection with the distribution of the Notes. Given that UBS Securities LLC and its affiliates temporarily maintain a market making premium, it may have the effect of discouraging UBS Securities LLC and its affiliates from recommending sale of your Notes in the secondary market.

**Uncertain tax treatment** — Significant aspects of the tax treatment of the Securities are uncertain. You should consult your tax advisor about your tax situation. See “What are the Tax Consequences of the Securities” herein and “Material U.S. Federal Income Tax Consequences”, including the section “—Securities Treated as Prepaid Derivatives or Prepaid Forwards with Associated Contingent Coupons”, in the accompanying product supplement.

## Hypothetical Examples of How the Notes Might Perform

**The below examples are based on hypothetical terms. The actual terms will be set on the trade date and will be indicated on the cover of the applicable pricing supplement.**

The examples below illustrate the payment upon a call or at maturity for a \$10 Note on a hypothetical offering of the Notes, with the following assumptions (amounts may have been rounded for ease of reference):

Principal Amount:	\$10.00
Term:	Approximately 3 years
Initial Level:	\$100.00
Contingent Coupon Rate:	7.00% per annum (or 1.75% per quarter)
Contingent Coupon:	\$0.175 per quarter
Observation Dates:	Quarterly (callable after 6 months)
Downside Threshold:	\$80.00 (which is 80.00% of the Initial Level)
	\$80.00 (which is 80.00% of the Initial Level)
Coupon Barrier:	

**Example 1 — The Closing Level of the Underlying Asset is equal to or greater than the Initial Level on the Observation Date corresponding to the first Potential Call Settlement Date.**

Date	Closing Level	Payment (per Note)
First Observation Date	\$115.00 (equal to or greater than Initial Level)	\$0.175 (Contingent Coupon – Not Callable)
Second Observation Date	\$108.00 (equal to or greater than Initial Level)	\$10.175 (Call Settlement Amount)
	Total Payment:	\$10.350 (a 3.50% total return)

Because the Notes are subject to an automatic call following the second observation date (which is approximately 6 months after the trade date and is the first observation date on which they are callable), UBS will pay you on the call settlement date a total of \$10.175 per Note, reflecting your principal amount plus the applicable contingent coupon. When added to the contingent coupon of \$0.175 received in respect of the prior observation date, UBS will have paid you a total of \$10.350 per Note for a 3.50% total return on the Notes. No further amount will be owed to you under the Notes.

**Example 2 — The Notes are NOT Subject to an Automatic Call and the Final Level of the Underlying Asset is equal to or greater than the Downside Threshold and Coupon Barrier.**

Date	Closing Level	Payment (per Note)
First Observation Date	\$90.00 (equal to or greater than Coupon Barrier; less than Initial Level)	\$0.175 (Contingent Coupon)
Second Observation Date	\$70.00 (less than Coupon Barrier)	\$0
Third to Eleventh Observation Dates	Various (all less than Coupon Barrier)	\$0
Final Valuation Date	\$88.00 (equal to or greater than Downside Threshold and Coupon Barrier)	\$10.175 (Payment at Maturity)
	Total Payment:	\$10.350 (a 3.50% total return)

Because the Notes are not subject to an automatic call and the final level of the underlying asset is equal to or greater than the downside threshold and coupon barrier, at maturity, UBS will pay you a total of \$10.175 per Note, reflecting your principal amount plus the applicable contingent coupon. When added to the contingent coupon of \$0.175 received in respect of the prior observation dates, UBS will have paid you a total of \$10.350 per Note for a 3.50%

total return on the Notes.

10

**Example 3 — The Notes are NOT Subject to an Automatic Call and the Final Level of the Underlying Asset is less than the Downside Threshold and Coupon Barrier.**

<b>Date</b>	<b>Closing Level</b>	<b>Payment (per Note)</b>
First Observation Date	\$90.00 (equal to or greater than Coupon Barrier; less than Initial Level)	\$0.175 (Contingent Coupon)
Second Observation Date	\$85.00 (equal to or greater than Coupon Barrier; less than Initial Level)	\$0.175 (Contingent Coupon)
Third to Eleventh Observation Dates	Various (all less than Coupon Barrier)	\$0
Final Valuation Date	\$40.00 (less than Downside Threshold and Coupon Barrier)	\$10 x (1 + Underlying Return) = \$10 x [1 + (-60%)] = \$10 x 0.40 = \$4 (Payment at Maturity)
	<b>Total Payment</b>	<b>\$4.350 (a 56.50% loss)</b>

Because the Notes are not subject to an automatic call and the final level of the underlying asset is less than the downside threshold, at maturity, UBS will pay you \$4 per Note. When added to the contingent coupons of \$0.350 received in respect of the prior observation dates, UBS will have paid you \$4.350 per Note for a loss on the Notes of 56.50%.

**Investing in the Notes involves significant risks. The Notes differ from ordinary debt securities in that UBS is not necessarily obligated to repay the full amount of your initial investment. If the Notes are not subject to an automatic call, you may lose a significant portion or all of your initial investment. Specifically, if the Notes are not subject to an automatic call and the final level is less than the downside threshold, you will lose a percentage of your principal amount equal to the underlying return and, in extreme situations, you could lose all of your initial investment.**

**Any payment on the Notes, including any payments in respect of an automatic call, contingent coupon or any repayment of principal, is subject to the creditworthiness of UBS. If UBS were to default on its payment obligations, you may not receive any amounts owed to you under the Notes and you could lose all of your initial investment.**

## Information about the Underlying Asset

All disclosures contained in this document regarding the underlying asset for the Notes are derived from publicly available information. UBS has not conducted any independent review or due diligence of any publicly available information with respect to the underlying assets. **You should make your own investigation into each underlying asset.**

Included on the following pages is a brief description of each underlying asset issuer for the Notes. This information has been obtained from publicly available sources. Set forth below is a table that provides the quarterly closing high and quarterly closing low for each underlying asset. The information given below is for the specified calendar quarters. We obtained the closing level information set forth below from the Bloomberg Professional<sup>®</sup> service (“Bloomberg”) without independent verification. You should not take the historical prices of each underlying asset as an indication of future performance.

Each underlying asset is registered under the Securities Act of 1933, the Securities Exchange Act of 1934 and/or the Investment Company Act of 1940, each as amended. Companies with securities registered with the SEC are required to file financial and other information specified by the SEC periodically. Information filed by each underlying asset issuer with the SEC can be reviewed electronically through a website maintained by the SEC. The address of the SEC’s website is <http://www.sec.gov>. Information filed with the SEC by each underlying asset issuer can be located by reference to its SEC file number provided below. In addition, information filed with the SEC can be inspected and copied at the Public Reference Section of the SEC, 100 F Street, N.E., Room 1580, Washington, D.C. 20549. Copies of this material can also be obtained from the Public Reference Section, at prescribed rates.



**Apple Inc.**

According to publicly available information, Apple Inc. (“Apple”) designs, manufactures and markets mobile communication and media devices, personal computers, and portable digital music players, and sells a variety of related software, services, accessories, networking solutions, and third-party digital content and applications. Information filed by Apple with the SEC can be located by reference to its SEC file number 001-36743, or its CIK Code: 0000320193. Apple’s website is apple.com. Apple’s common stock is listed on the NASDAQ Global Select Market under the ticker symbol “AAPL.”

Information from outside sources is not incorporated by reference in, and should not be considered part of, this document or any document incorporated herein by reference. UBS has not conducted any independent review or due diligence of any publicly available information with respect to the underlying asset.

**Historical Information**

The following table sets forth the quarterly closing high and quarterly closing low for Apple’s common stock, based on the daily closing levels on the primary exchange for Apple. We obtained the closing levels below from Bloomberg, without independent verification. The closing levels may be adjusted by Bloomberg for corporate actions such as stock splits, public offerings, mergers and acquisitions, spin-offs, extraordinary dividends, delistings and bankruptcy. UBS has not undertaken an independent review or due diligence of any publicly available information obtained from Bloomberg. The closing level of Apple’s common stock on November 13, 2018 was \$192.23 (the “hypothetical initial level”). The actual initial level will be the closing level of Apple’s common stock on the trade date. ***The historical performance of the underlying asset should not be taken as indication of the future performance of the underlying asset during the term of the Notes.***

<b>Quarter Begin</b>	<b>Quarter End</b>	<b>Quarterly Closing High</b>	<b>Quarterly Closing Low</b>	<b>Quarterly Close</b>
1/1/2014	3/31/2014	\$79.62	\$71.35	\$76.68
4/1/2014	6/30/2014	\$94.25	\$73.99	\$92.93
7/1/2014	9/30/2014	\$103.30	\$93.08	\$100.75
10/1/2014	12/31/2014	\$119.00	\$96.26	\$110.38
1/1/2015	3/31/2015	\$133.00	\$105.99	\$124.43
4/1/2015	6/30/2015	\$132.65	\$124.25	\$125.43
7/1/2015	9/30/2015	\$132.07	\$103.12	\$110.30
10/1/2015	12/31/2015	\$122.57	\$105.26	\$105.26
1/1/2016	3/31/2016	\$109.56	\$93.42	\$108.99
4/1/2016	6/30/2016	\$112.10	\$90.34	\$95.60
7/1/2016	9/30/2016	\$115.57	\$94.99	\$113.05
10/1/2016	12/31/2016	\$118.25	\$105.71	\$115.82
1/1/2017	3/31/2017	\$144.12	\$116.02	\$143.66
4/1/2017	6/30/2017	\$156.10	\$140.68	\$144.02
7/1/2017	9/30/2017	\$164.05	\$142.73	\$154.12
10/1/2017	12/31/2017	\$176.42	\$153.48	\$169.23
1/1/2018	1/31/2018	\$181.72	\$155.15	\$167.78
4/1/2018	6/30/2018	\$193.98	\$162.32	\$185.11
7/1/2018	9/30/2018	\$228.36	\$183.92	\$225.74
10/1/2018	11/13/2018*	\$232.07	\$192.23	\$192.23

\*The above table only includes data through this date. Accordingly, the “Quarterly Closing High,” “Quarterly Closing Low” and “Quarterly Close” data indicated are for this shortened period only and do not reflect complete data for this

calendar quarter.

The graph below illustrates the performance of Apple's common stock from January 1, 2008 through November 13, 2018, based on information from Bloomberg. The dotted line represents the hypothetical coupon barrier and the hypothetical downside threshold of \$132.64, which is equal to 69.00% (the top of the range specified on the cover) of the hypothetical initial level. The actual coupon barrier and downside threshold will be set on the trade date. ***Past performance of the underlying asset is not indicative of the future performance of the underlying asset.***

**Microsoft Corporation**

According to publicly available information, Microsoft Corporation (“Microsoft”) is a technology company that designs, manufactures and sells devices, including computers, tables, gaming and entertainment consoles, other intelligent devices and products, including operating systems, cross-device productivity applications, server applications, business solution applications, desktop and server management tools, software development tools and video games. Information filed by Microsoft with the SEC can be located by reference to its SEC file number: 000-14278, or its CIK Code: 0000789019. Microsoft’s website is microsoft.com. Microsoft’s common stock is listed on The NASDAQ Global Select Market under the ticker symbol “MSFT.”

Information from outside sources is not incorporated by reference in, and should not be considered part of, this document or any document incorporated herein by reference. UBS has not conducted any independent review or due diligence of any publicly available information with respect to the underlying asset.

**Historical Information**

The following table sets forth the quarterly closing high and quarterly closing low for Microsoft’s common stock, based on the daily closing levels on the primary exchange for Microsoft. We obtained the closing levels below from Bloomberg, without independent verification. The closing levels may be adjusted by Bloomberg for corporate actions such as stock splits, public offerings, mergers and acquisitions, spin-offs, extraordinary dividends, delistings and bankruptcy. UBS has not undertaken an independent review or due diligence of any publicly available information obtained from Bloomberg. The closing level of Microsoft’s common stock on November 13, 2018 was \$106.94 (the “hypothetical initial level”). The actual initial level will be the closing level of Microsoft’s common stock on the trade date. *The historical performance of the underlying asset should not be taken as indication of the future performance of the underlying asset during the term of the Notes.*

Quarter Begin	Quarter End	Quarterly Closing High	Quarterly Closing Low	Quarterly Close
1/1/2014	3/31/2014	\$40.99	\$34.99	\$40.99
4/1/2014	6/30/2014	\$42.25	\$39.06	\$41.70
7/1/2014	9/30/2014	\$47.52	\$41.67	\$46.36
10/1/2014	12/31/2014	\$49.61	\$42.74	\$46.45
1/1/2015	3/31/2015	\$47.59	\$40.40	\$40.66
4/1/2015	6/30/2015	\$49.16	\$40.29	\$44.15
7/1/2015	9/30/2015	\$47.58	\$40.47	\$44.26
10/1/2015	12/31/2015	\$56.55	\$44.61	\$55.48
1/1/2016	3/31/2016	\$55.23	\$49.28	\$55.23
4/1/2016	6/30/2016	\$56.46	\$48.43	\$51.17
7/1/2016	9/30/2016	\$58.30	\$51.16	\$57.60
10/1/2016	12/31/2016	\$63.62	\$56.92	\$62.14
1/1/2017	3/31/2017	\$65.86	\$62.30	\$65.86
4/1/2017	6/30/2017	\$72.52	\$64.95	\$68.93
7/1/2017	9/30/2017	\$75.44	\$68.17	\$74.49
10/1/2017	12/31/2017	\$86.85	\$74.26	\$85.54
1/1/2018	3/31/2018	\$96.77	\$85.01	\$91.27
4/1/2018	6/30/2018	\$102.49	\$88.52	\$98.61
7/1/2018	9/30/2018	\$114.67	\$99.05	\$114.37
10/1/2018	11/13/2018*	\$115.61	\$102.32	\$106.94

\*The above table only includes data through this date. Accordingly, the “Quarterly Closing High,” “Quarterly Closing Low” and “Quarterly Close” data indicated are for this shortened period only and do not reflect complete data for this

calendar quarter.

15

The graph below illustrates the performance of Microsoft's common stock from January 1, 2008 through November 13, 2018, based on information from Bloomberg. The dotted line represents the hypothetical coupon barrier and the hypothetical downside threshold of \$72.72, which is equal to 68.00% (the top of the range specified on the cover) of the hypothetical initial level. The actual coupon barrier and downside threshold will be set on the trade date. ***Past performance of the underlying asset is not indicative of the future performance of the underlying asset.***

Raytheon Company

According to publicly available information, Raytheon Company (“Raytheon”), is a technology company specializing in defense and other government markets and develops products, services and solutions in its core markets of integrated air and missile defense; electronic warfare; command, control, communications, computers, cyber, intelligence, surveillance and reconnaissance; space systems; effects; and cyber. Information filed by Raytheon with the SEC can be located by reference to its SEC file number: 001-13699, or its CIK Code: 0001047122. Raytheon’s website is raytheon.com. Raytheon’s common stock is listed on the New York Stock Exchange under the ticker symbol “RTN.”

Information from outside sources is not incorporated by reference in, and should not be considered part of, this document or any document incorporated herein by reference. UBS has not conducted any independent review or due diligence of any publicly available information with respect to the underlying asset.

Historical Information

The following table sets forth the quarterly closing high and quarterly closing low for Raytheon’s common stock, based on the daily closing levels on the primary exchange for Raytheon. We obtained the closing levels below from Bloomberg, without independent verification. The closing levels may be adjusted by Bloomberg for corporate actions such as stock splits, public offerings, mergers and acquisitions, spin-offs, extraordinary dividends, delistings and bankruptcy. UBS has not undertaken an independent review or due diligence of any publicly available information obtained from Bloomberg. The closing level of Raytheon’s common stock on November 13, 2018 was \$180.62 (the “hypothetical initial level”). The actual initial level will be the closing level of Raytheon’s common stock on the trade date. *The historical performance of the underlying asset should not be taken as indication of the future performance of the underlying asset during the term of the Notes.*

Quarter Begin	Quarter End	Quarterly Closing High	Quarterly Closing Low	Quarterly Close
1/1/2014	3/31/2014	\$101.31	\$88.13	\$98.79
4/1/2014	6/30/2014	\$101.47	\$92.25	\$92.25
7/1/2014	9/30/2014	\$103.35	\$89.43	\$101.62
10/1/2014	12/31/2014	\$110.47	\$93.85	\$108.17
1/1/2015	3/31/2015	\$112.40	\$100.05	\$109.25
4/1/2015	6/30/2015	\$110.01	\$95.68	\$95.68
7/1/2015	9/30/2015	\$110.33	\$95.57	\$109.26
10/1/2015	12/31/2015	\$127.95	\$107.77	\$124.53
1/1/2016	3/31/2016	\$128.24	\$117.62	\$122.63
4/1/2016	6/30/2016	\$136.66	\$123.23	\$135.95
7/1/2016	9/30/2016	\$142.65	\$134.82	\$136.13
10/1/2016	12/31/2016	\$150.54	\$132.97	\$142.00
1/1/2017	3/31/2017	\$156.97	\$142.90	\$152.50
4/1/2017	6/30/2017	\$164.26	\$149.95	\$161.48
7/1/2017	9/30/2017	\$186.58	\$162.57	\$186.58
10/1/2017	12/31/2017	\$191.38	\$179.58	\$187.85
1/1/2018	3/31/2018	\$219.86	\$186.28	\$215.82
4/1/2018	6/30/2018	\$228.13	\$192.54	\$193.18
7/1/2018	9/30/2018	\$207.90	\$192.43	\$206.66
10/1/2018	11/13/2018*	\$208.21	\$168.35	\$180.62

The above table only includes data through this date. Accordingly, the “Quarterly Closing High,” “Quarterly Closing \*Low” and “Quarterly Close” data indicated are for this shortened period only and do not reflect complete data for this calendar quarter.





The graph below illustrates the performance of Raytheon's common stock from January 1, 2008 through November 13, 2018, based on information from Bloomberg. The dotted line represents the hypothetical coupon barrier and the hypothetical downside threshold of \$133.66, which is equal to 74.00% (the top of the range specified on the cover) of the hypothetical initial level. The actual coupon barrier and downside threshold will be set on the trade date. ***Past performance of the underlying asset is not indicative of the future performance of the underlying asset.***

Taiwan Semiconductor Manufacturing Company Limited

According to publicly available information, Taiwan Semiconductor Manufacturing Company Limited (“Taiwan Semiconductor”) is a semiconductor foundry which is engaged in the manufacturing, selling, packaging, testing and computer-aided design of integrated circuits and other semiconductors and the manufacturing of masks. Information filed by Taiwan Semiconductor with the SEC can be located by reference to its SEC file number: 001-14700, or its CIK Code: 0001046179. Taiwan Semiconductor’s website is tsmc.com. Taiwan Semiconductor’s American depositary receipts is listed on the New York Stock Exchange under the ticker symbol “TSM.”

Information from outside sources is not incorporated by reference in, and should not be considered part of, this document or any document incorporated herein by reference. UBS has not conducted any independent review or due diligence of any publicly available information with respect to the underlying asset.

Historical Information

The following table sets forth the quarterly closing high and quarterly closing low for Taiwan Semiconductor’s American depositary receipts, based on the daily closing levels on the primary exchange for Taiwan Semiconductor. We obtained the closing levels below from Bloomberg, without independent verification. The closing levels may be adjusted by Bloomberg for corporate actions such as stock splits, public offerings, mergers and acquisitions, spin-offs, extraordinary dividends, delistings and bankruptcy. UBS has not undertaken an independent review or due diligence of any publicly available information obtained from Bloomberg. The closing level of Taiwan Semiconductor’s American depositary receipts on November 13, 2018 was \$37.40 (the “hypothetical initial level”). The actual initial level will be the closing level of Taiwan Semiconductor’s American depositary receipts on the trade date. ***The historical performance of the underlying asset should not be taken as indication of the future performance of the underlying asset during the term of the Notes.***

Quarter Begin	Quarter End	Quarterly Closing High	Quarterly Closing Low	Quarterly Close
1/1/2014	3/31/2014	\$20.02	\$16.46	\$20.02
4/1/2014	6/30/2014	\$21.69	\$19.62	\$21.39
7/1/2014	9/30/2014	\$22.95	\$19.79	\$20.18
10/1/2014	12/31/2014	\$23.47	\$19.44	\$22.38
1/1/2015	3/31/2015	\$25.04	\$20.79	\$23.48
4/1/2015	6/30/2015	\$25.41	\$22.38	\$22.71
7/1/2015	9/30/2015	\$23.15	\$18.76	\$20.75
10/1/2015	12/31/2015	\$23.55	\$20.76	\$22.75
1/1/2016	3/31/2016	\$26.46	\$20.48	\$26.20
4/1/2016	6/30/2016	\$26.81	\$22.82	\$26.23
7/1/2016	9/30/2016	\$30.66	\$26.15	\$30.59
10/1/2016	12/31/2016	\$31.55	\$28.55	\$28.75
1/1/2017	3/31/2017	\$33.35	\$29.29	\$32.84
4/1/2017	6/30/2017	\$36.83	\$31.61	\$34.96
7/1/2017	9/30/2017	\$38.30	\$34.50	\$37.55
10/1/2017	12/31/2017	\$42.99	\$38.13	\$39.65
1/1/2018	3/31/2018	\$46.38	\$40.36	\$43.76
4/1/2018	6/30/2018	\$43.94	\$35.51	\$36.56
7/1/2018	9/30/2018	\$44.89	\$36.39	\$44.16
10/1/2018	11/13/2018*	\$44.66	\$36.33	\$37.40

The above table only includes data through this date. Accordingly, the “Quarterly Closing High,” “Quarterly Closing \*Low” and “Quarterly Close” data indicated are for this shortened period only and do not reflect complete data for this calendar quarter.



The graph below illustrates the performance of Taiwan Semiconductor's American depositary receipts from January 1, 2008 through November 13, 2018, based on information from Bloomberg. The dotted line represents the hypothetical coupon barrier and the hypothetical downside threshold of \$23.94, which is equal to 64.00% (the top of the range specified on the cover) of the hypothetical initial level. The actual coupon barrier and downside threshold will be set on the trade date. ***Past performance of the underlying asset is not indicative of the future performance of the underlying asset.***

## What Are the Tax Consequences of the Notes?

**The U.S. federal income tax consequences of your investment in the Notes are uncertain. There are no statutory provisions, regulations, published rulings or judicial decisions addressing the characterization for U.S. federal income tax purposes of securities with terms that are substantially the same as the Notes. Some of these tax consequences are summarized below, but we urge you to read the more detailed discussion in “Material U.S. Federal Income Tax Consequences” of the accompanying product supplement and to discuss the tax consequences of your particular situation with your tax advisor. This discussion is based upon the Internal Revenue Code of 1986, as amended (the “Code”), final, temporary and proposed U.S. Treasury Department (the “Treasury”) regulations, rulings and decisions, in each case, as available and in effect as of the date hereof, all of which are subject to change, possibly with retroactive effect. Tax consequences under state, local and non-U.S. laws are not addressed herein. No ruling from the U.S. Internal Revenue Service (the “IRS”) has been sought as to the U.S. federal income tax consequences of your investment in the Notes, and the following discussion is not binding on the IRS.**

*U.S. Tax Treatment.* Pursuant to the terms of the Notes, UBS and you agree, in the absence of a statutory or regulatory change or an administrative determination or judicial ruling to the contrary, to characterize the Notes as pre-paid derivative contracts with respect to the underlying asset. If your Notes are so treated, any contingent coupon that is paid by UBS (including on the maturity date or call settlement date) should be included in your income as ordinary income in accordance with your regular method of accounting for U.S. federal income tax purposes.

In addition, excluding amounts attributable to any contingent coupon, you should generally recognize capital gain or loss upon the taxable disposition of your Notes in an amount equal to the difference between the amount you receive at such time (other than amounts or proceeds attributable to a contingent coupon or any amount attributable to any accrued but unpaid contingent coupon) and the amount you paid for your Notes. Such gain or loss should generally be long-term capital gain or loss if you have held your Notes for more than one year (otherwise such gain or loss should be short-term capital gain or loss if held for one year or less). The deductibility of capital losses is subject to limitations. Although uncertain, it is possible that proceeds received from the sale or exchange of your Notes prior to a coupon payment date, but that could be attributed to an expected contingent coupon, could be treated as ordinary income. You should consult your tax advisor regarding this risk.

**In the opinion of our counsel, Cadwalader, Wickersham & Taft LLP, based on certain factual representations received from us, it would be reasonable to treat your Notes in the manner described above. However, because there is no authority that specifically addresses the tax treatment of the Notes, it is possible that your Notes could alternatively be treated for tax purposes as a single contingent payment debt instrument, or pursuant to some other characterization, such that the timing and character of your income from the Notes could differ materially and adversely from the treatment described above, as described further under “Material U.S. Federal Income Tax Consequences — Securities Treated as Prepaid Derivatives or Prepaid Forwards with Associated Contingent Coupons” in the accompanying product supplement unless and until such time as the IRS and the Treasury Department determine that some other treatment is more appropriate.**

Except to the extent otherwise required by law, UBS intends to treat your Notes for U.S. federal income tax purposes in accordance with the treatment described above and under “Material U.S. Federal Income Tax Consequences” in the accompanying product supplement unless and until such time as the IRS and the Treasury determine that some other treatment is more appropriate.

*Section 1297.* We will not attempt to ascertain whether the underlying asset issuer would be treated as a passive foreign investment company (a “PFIC”) within the meaning of Section 1297 of the Internal Revenue Code of 1986, as amended (the “Code”). If the underlying asset issuer were so treated, certain adverse U.S. federal income tax consequences might apply upon the taxable of a Note. You should refer to information filed with the SEC or the

equivalent governmental authority by such entities and consult your tax advisor regarding the possible consequences to you if such entity is or becomes a PFIC.

*Notice 2008-2.* In 2007, the IRS released a notice that may affect the taxation of holders of the Notes. According to Notice 2008-2, the IRS and the Treasury are actively considering whether the holder of an instrument such as the Notes should be required to accrue ordinary income on a current basis. It is not possible to determine what guidance they will ultimately issue, if any. It is possible, however, that under such guidance, holders of the Notes will ultimately be required to accrue income currently in excess of any receipt of contingent coupons and this could be applied on a retroactive basis. The IRS and the Treasury are also considering other relevant issues, including whether additional gain or loss from such instruments should be treated as ordinary or capital, whether non-U.S. holders of such instruments should be subject to withholding tax on any deemed income accruals, and whether the special “constructive ownership rules” of Section 1260 of the Code should be applied to such instruments. Both U.S. and non U.S. holders are urged to consult their tax advisors concerning the significance and potential impact of the above considerations.

*Medicare Tax on Net Investment Income.* U.S. holders that are individuals, estates, and certain trusts are subject to an additional 3.8% tax on all or a portion of their “net investment income,” which may include any income or gain realized with respect to the Notes, to the extent of their net investment income that when added to their other modified adjusted gross income, exceeds \$200,000 for an unmarried individual, \$250,000 for a married taxpayer filing a joint return (or a surviving spouse), \$125,000 for a married individual filing a separate return or the dollar amount at which the highest tax bracket begins for an estate or trust. The 3.8% Medicare tax is determined in a different manner than the income tax. You should consult your tax advisor as to the consequences of the 3.8% Medicare tax.

*Specified Foreign Financial Assets.* U.S. holders may be subject to reporting obligations with respect to their Notes if they do not hold their Notes in an account maintained by a financial institution and the aggregate value of their Notes and certain other “specified foreign financial assets” (applying certain attribution rules) exceeds an applicable threshold. Significant penalties can apply if a U.S. holder is required to disclose its Notes and fails to do so.

*Non-U.S. Holders.* The U.S. federal income tax treatment of the contingent coupons is unclear. Subject to Section 871(m) of the Code and FATCA, as discussed below, our counsel is of the opinion that contingent coupons paid to a non-U.S. holder that provides us (and/or the

applicable withholding agent) with a fully completed and validly executed applicable IRS Form W-8 should not be subject to U.S. withholding tax and we do not intend to withhold any tax on contingent coupons. However, it is possible that the IRS could assert that such payments are subject to U.S. withholding tax, or that another withholding agent may otherwise determine that withholding is required, in which case such other withholding agent may withhold up to 30% on such payments (subject to reduction or elimination of such withholding tax pursuant to an applicable income tax treaty). We will not pay any additional amounts in respect of such withholding. Subject to Section 897 of the Code and Section 871(m) of the Code, discussed below, gain from the taxable disposition of the Notes generally should not be subject to U.S. tax unless (i) such gain is effectively connected with a trade or business conducted by the non-U.S. holder in the U.S., (ii) the non-U.S. holder is a non-resident alien individual and is present in the U.S. for 183 days or more during the taxable year of such taxable disposition and certain other conditions are satisfied or (iii) the non-U.S. holder has certain other present or former connections with the U.S.

*Section 897.* We will not attempt to ascertain whether the underlying asset issuer would be treated as a “United States real property holding corporation” (“USRPHC”) within the meaning of Section 897 of the Code. We also have not attempted to determine whether the Notes should be treated as “United States real property interests” (“USRPI”) as defined in Section 897 of the Code. If the underlying asset issuer and the Notes were so treated, certain adverse U.S. federal income tax consequences could possibly apply, including subjecting any gain to a non-U.S. holder in respect of a Note upon a taxable disposition of the Note to the U.S. federal income tax on a net basis, and the proceeds from such a taxable disposition to a 15% withholding tax. Non-U.S. holders should consult their tax advisor regarding the potential treatment of the underlying asset issuer for their Notes as a USRPHC and the Notes as USRPI.

*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 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. 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 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, 2021.

Based on our determination that the Notes are not “delta-one” with respect to the underlying asset, our counsel is of the opinion that the Notes 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 our determinations made upon issuance of the Notes. If withholding is required, we will not make payments of any additional amounts.

Nevertheless, after issuance, it is possible that your Notes could be deemed to be reissued for tax purposes upon the occurrence of certain events affecting the underlying asset or your Notes, and following such occurrence your Notes 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 Notes under these rules if you enter, or have entered, into certain other transactions in respect of the underlying asset or the Notes. If you enter, or have entered, into other transactions in respect of the underlying asset or the Notes should consult your tax advisor regarding the application of Section 871(m) of the Code to your Notes in the context of your other transactions.

**Because of the uncertainty regarding the application of the 30% withholding tax on dividend equivalents to the Notes, 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 Notes.**

*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” made on or after July 1, 2014, certain gross proceeds on a taxable disposition occurring after December 31, 2018, and certain foreign passthru payments made after December 31, 2018 (or, if later, the date that final regulations defining the term “foreign passthru payment” are published). If withholding is required, we (and/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.

Investors should consult their tax advisors about the application of FATCA, in particular if they may be classified as financial institutions (or if they hold their Notes through a foreign entity) under the FATCA rules.

*Proposed Legislation.* In 2007, legislation was introduced in Congress that, if it had been enacted, would have required holders of Notes purchased after the bill was enacted to accrue interest income over the term of the Notes despite the fact that there may not be interest payments over the entire term of the Notes.



Furthermore, in 2013, the House Ways and Means Committee released in draft form certain proposed legislation relating to financial instruments. If it had been enacted, the effect of this legislation generally would have been to require instruments such as the Notes to be marked to market on an annual basis with all gains and losses to be treated as ordinary, subject to certain exceptions.

It is not possible to predict whether any similar or identical bills will be enacted in the future, or whether any such bill would affect the tax treatment of your Notes. You are urged to consult your tax advisor regarding the possible changes in law and their possible impact on the tax treatment of your Notes.

**Both U.S. and non-U.S. holders are urged to consult their tax advisors concerning the application of U.S. federal income tax laws to their particular situations, as well as any tax consequences of the purchase, beneficial ownership and disposition of the Notes arising under the laws of any state, local, non-U.S. or other taxing jurisdiction.**

Supplemental Plan of Distribution (Conflicts of Interest); Secondary Markets (if any)

We will agree to sell to UBS Securities LLC and UBS Securities LLC will agree to purchase, all of the Notes at the issue price to the public less the underwriting discount indicated on the cover hereof. UBS Securities LLC will agree to resell all of the Notes to UBS Financial Services Inc. at a discount from the issue price to the public equal to the underwriting discount indicated on the cover hereof.

**Conflicts of Interest** — Each of UBS Securities LLC and UBS Financial Services Inc. is an affiliate of UBS and, as such, has a “conflict of interest” in this offering within the meaning of Financial Industry Regulatory Authority, Inc. (“FINRA”) Rule 5121. In addition, UBS will receive the net proceeds (excluding the underwriting discount) from the initial public offering of the Notes, thus creating an additional conflict of interest within the meaning of FINRA Rule 5121. Consequently, the offering is being conducted in compliance with the provisions of FINRA Rule 5121. Neither UBS Securities LLC nor UBS Financial Services Inc. is permitted to sell Notes in this offering to an account over which it exercises discretionary authority without the prior specific written approval of the account holder.

**UBS Securities LLC and its affiliates may offer to buy or sell the Notes in the secondary market (if any) at prices greater than UBS’ internal valuation** — The value of the Notes at any time will vary based on many factors that cannot be predicted. However, the price (not including UBS Securities LLC’s or any affiliate’s customary bid-ask spreads) at which UBS Securities LLC or any affiliate would offer to buy or sell the Notes immediately after the trade date in the secondary market is expected to exceed the estimated initial value of the Notes as determined by reference to our internal pricing models. The amount of the excess will decline to zero on a straight line basis over a period ending no later than 7 months after the trade date, provided that UBS Securities LLC may shorten the period based on various factors, including the magnitude of purchases and other negotiated provisions with selling agents. Notwithstanding the foregoing, UBS Securities LLC and its affiliates are not required to make a market for the Notes and may stop making a market at any time. For more information about secondary market offers and the estimated initial value of the Notes, see “Key Risks — Fair value considerations” and “Key Risks — Limited or no secondary market and secondary market price considerations” herein.

**Prohibition of Sales to EEA Retail Investors** — The Notes are not intended to be offered, sold or otherwise made available to and should not be offered, sold or otherwise made available to any retail investor in the European Economic Area (“EEA”). For these purposes, a retail investor means a person who is one (or more) of: (i) a retail client as defined in point (11) of Article 4(1) of Directive 2014/65/EU, as amended (“MiFID II”); (ii) a customer within the meaning of Directive 2002/92/EC, 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 Directive 2003/71/EC, as amended. Consequently no key information document required by Regulation (EU) No 1286/2014, as amended (the “PRIIPs Regulation”), for offering or selling the Notes or otherwise making them available to retail investors in the EEA has been prepared and therefore offering or selling the Notes or otherwise making them available to any retail investor in the EEA may be unlawful under the PRIIPs Regulation.

**You should rely only on the information incorporated by reference or provided in this preliminary pricing supplement, the accompanying product supplement or the accompanying prospectus. We have not authorized anyone to provide you with different information. We are not making an offer of these Notes in any state where the offer is not permitted. You should not assume that the information in this preliminary pricing supplement is accurate as of any date other than the date on the front of the document.**

## **TABLE OF CONTENTS**

### **Preliminary Pricing Supplement**

Investment Description	i
Features	i
Key Dates	i
Note Offerings	i
Additional Information about UBS and the Notes	ii
Investor Suitability	1
Preliminary Terms for Each Offering of the Notes	2
Investment Timeline	3
Observation Dates and Coupon Payment Dates	4
Key Risks	5
Hypothetical Examples of How the Notes Might Perform	9
Information about the Underlying Asset	11
What Are the Tax Consequences of the Notes?	20
Supplemental Plan of Distribution (Conflicts of Interest); Secondary Markets (if any)	23

### **Product Supplement**

Product Supplement Summary	PS-1
Specific Terms of Each Security Will Be Described in the Applicable Supplements	PS-1
The Securities are Part of a Series	PS-1
Denomination	PS-2
Coupons	PS-2
Early Redemption	PS-3
Payment at Maturity for the Securities	PS-3
Defined Terms Relating to Payment on the Securities	PS-4
Valuation Dates	PS-5
Valuation Periods	PS-6
Payment Dates	PS-6
Closing Level	PS-7
Intraday Level	PS-7
What are the Tax Consequences of the Securities?	PS-8
Risk Factors	PS-9
General Terms of the Securities	PS-29
Use of Proceeds and Hedging	PS-52
Material U.S. Federal Income Tax Consequences	PS-53
Certain ERISA Considerations	PS-75
Supplemental Plan of Distribution (Conflicts of Interest)	PS-76

### **Prospectus**

Introduction	1
--------------	---

Cautionary Note Regarding Forward-Looking Statements	3
Incorporation of Information About UBS AG	4
Where You Can Find More Information	5
Presentation of Financial Information	6
Limitations on Enforcement of U.S. Laws Against UBS, Its Management and Others	6
UBS	7
Swiss Regulatory Powers	10
Use of Proceeds	11
Description of Debt Securities We May Offer	12
Description of Warrants We May Offer	32
Legal Ownership and Book-Entry Issuance	47
Considerations Relating to Indexed Securities	52
Considerations Relating to Securities Denominated or Payable in or Linked to a Non-U.S. Dollar Currency	55
U.S. Tax Considerations	58
Tax Considerations Under the Laws of Switzerland	69
Benefit Plan Investor Considerations	71
Plan of Distribution	73
Conflicts of Interest	75
Validity of the Securities	76
Experts	76

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**UBS AG Trigger Autocallable Contingent Yield Notes due on or about November 19, 2021**

Preliminary Pricing Supplement dated November 14, 2018

(To Product Supplement dated October 31, 2018

and Prospectus dated October 31, 2018)

**UBS Investment Bank**

**UBS Financial Services Inc.**