

Proxy Benchmarks – PRIIP Regulation

List of proxy benchmarks used for regulatory calculations under the **Regulation (EU) No 1286/2014 of the European Parliament and of the Council of 26 November 2014 on packaged retail and insurance-based investment products** ("PRIIP Regulation"), as of **31 December 2018**.

UBS has to produce and to provide to retail investors under certain circumstances key information documents ("KID") pursuant to the PRIIP Regulation.

A KID includes product specific information and performance scenarios calculated according to the provisions provided by the PRIIP Regulation. The calculations to determine the performance scenarios have to be based on the historical performance of the underlying. In case an underlying does **not** provide for enough historic price data a substitute by reference to a proxy benchmark has to be applied.

The information contained herein shall provide you with the proxy benchmarks applied in case that the above mentioned price history is not available. The exact methodology and further details are set out in annexes II and IV of the Regulatory Technical Standards of the PRIIP Regulation.

List of underlying substituted by a proxy benchmark

Underlying name	Proxy benchmark name	Selected by	Used until
Adyen N.V.	Wirecard AG	UBS	June 2020
AUD/USD 19-Sep-2018 Forward	AUD/USD	UBS	Until further notice
Basket of China's Lower Tier Cities (ISIN: CH0419057507)	Hang Seng China Enterprises Index	UBS	Until further notice
Basket of Chinese Shares (ISIN: CH0416888235)	Hang Seng China Enterprises Index	UBS	Until further notice
Basket of Chinese Shares (ISIN: DE000UV799N0)	Hang Seng China Enterprises Index	UBS	Until further notice
Basket of EMU Stock Shares (ISIN: CH0397866937)	Euro STOXX 50 Price Index	UBS	Until further notice
Basket of Real Estate Shares (ISIN: CH0416887468)	Dubai Financial Market Index	UBS	Until further notice
Basket of Swiss Shares (ISIN: DE000UV9NVK7)	SMI PR Index	UBS	Until further notice
Basket of US Shares (ISIN: CH0410513144)	Dow Jones US Banks Index (USD)	UBS	Until further notice
Basket of US Shares (ISIN: CH0412800325)	Solactive Cloud Computing Index	UBS	Until further notice
Blockchain Equity Basket (ISIN: DE000UX647X8)	Invesco S&P 500 Equal Weight Technology ETF	UBS	Oct. 2020
Booking Holdings Inc	The Priceline Group Inc	UBS	Feb. 2020
Delivery Hero AG	Rocket Internet	UBS	June 2019
DowDuPont Inc	Merck & Co.	UBS	Sept. 2019
Dropbox	Netflix	UBS	March 2020
DWS Group	Deutsche Bank	UBS	March 2020
Galenica AG	Vifor Pharma AG	UBS	April 2019
GAM Star PLC - Credit Opportunities EUR	SPDR Bloomberg Barclays Euro Aggr. Bond UCITS ETF	UBS	Until further notice
Idorsia Ltd	Actelion	UBS	June 2019
iQIYI Inc	Baidu Inc.	UBS	March 2020
JPY/USD 19-Sep-18 Forward	JPY/USD	UBS	Until further notice
K Switzerland Low Volatility Index (ISIN: CH0428528670)	SPI Index	UBS	Aug. 2020
Knorr-Bremse AG	Continental	UBS	Jan. 2021
KRW/USD 21-Mar-18 Non-Deliverable Forward	KRW/USD	UBS	Until further notice
LANDIS+GYR	ABB	UBS	July 2019
Linde AG (Tender)	Linde AG	UBS	August 2019
Linde PLC	Linde AG	UBS	Nov. 2020
Lithium-Basket (ISIN: CH0362602580)	MSCI World Index	UBS	April 2019
METRO WHOLESALE & FOOD SPECIALIST AG	Metro AG	UBS	July 2019
MongoDB Inc.	TABLEAU SOFTWA-A	UBS	Nov. 2020
MSCI Emerging Markets Net Total Return Index	MSCI World Index	UBS	Until further notice

NASDAQ 100 Total Return Index	NASDAQ 100 Index	UBS	Until further notice
Nordea Bank ABP (Listing in Finland)	Nordea Bank ABP (Listing in Sweden)	UBS	Until further notice
PIRELLI & C SPA	Continental	UBS	Oct. 2019
QIX Dividenden Europa	Euro STOXX 50 Price Index	UBS	Until further notice
Russell 2000 Index	NASDAQ 100 Index	UBS	Until further notice
S&P Toronto Stock Exchange 60 TR Index	iShares MSCI Canada ETF	UBS	Until further notice
S&P/ASX 200 Index	iShares MSCI Australia	UBS	Until further notice
Siemens Healthineers	Siemens	UBS	March 2020
Signify	Philips	UBS	Jan. 2021
Snap	Twitter Inc.	UBS	March 2019
Solactive Global Gender Diversity Net TR Index (CHF)	MSCI World Index	UBS	Until further notice
Solactive Global Gender Diversity Net TR Index (EUR)	MSCI World Index	UBS	Until further notice
Solactive Global Gender Diversity Net TR Index (USD)	MSCI World Index	UBS	Until further notice
Solactive M&A Europe Total Return Index (EUR)	Euro STOXX 50 Price Index	UBS	Until further notice
Solactive Swiss Family Owned Companies Net TR Index (CHF)	SMI PR Index	UBS	Until further notice
Spotify	Netflix	UBS	April 2020
SPTSX 60 Index	MSCI Canada Index	UBS	Until further notice
Standard & Poor's 500 Information Technology Index	S&P 500 Index	UBS	Until further notice
Swiss Real Estate Basket	SXI Real Est Fd PR	UBS	Until further notice
TOPIX Net Total Return Index	TOPIX Stock Price Index	UBS	Until further notice
TOPIX Stock Price Index	ISHARES MSCI JAPAN ETF	UBS	Until further notice
Trivago NV	Expedia Group Inc	UBS	Dec. 2018
UBS 20Y US Treasuries Index	iShares USD Treasury Bond 20+Y	UBS	Until further notice
UBS 2Y US Treasuries ER Index	iShares USD Treasury Bond 1/3Y	UBS	Until further notice
UBS Market Beta Australia Equity Index ER AUD	S&P/ASX 200 Index	UBS	Until further notice
UBS Market Beta Europe Equity ER Index	Euro STOXX 50 Price Index	UBS	Until further notice
UBS Market Beta Switzerland Equity ER Index	SMI PR Index	UBS	Until further notice
UBS Market Beta US Equity ER Index	S&P 500 Index	UBS	Until further notice
Uniper AG	RWE AG	UBS	Dec. 2018
Varta AG	Continental	UBS	Oct. 2019
VAT Group AG	AMS	UBS	June 2020

List of Actively Managed Certificates / Reference Portfolios substituted by a proxy benchmark

ISIN	Proxy benchmark name	Selected by	Used until
CH0352040833	S&P 500 Index	AMC advisor	03.01.2019
CH0352040825	S&P 500 Index	AMC advisor	03.01.2019
CH0341180559	EURO STOXX 50 Price EUR	AMC advisor	24.01.2019
CH0354248350	MSCI World Index	AMC advisor	30.01.2019
CH0354252303	MSCI World Index	AMC advisor	30.01.2019
CH0354248376	MSCI World Index	AMC advisor	30.01.2019
CH0353942896	S&P 500 Index	AMC advisor	30.01.2019
CH0354251875	S&P 500 Index	AMC advisor	06.02.2019
CH0354248012	S&P 500 Index	AMC advisor	06.02.2019
CH0338246785	S&P 500 Index	AMC advisor	13.02.2019
CH0355033926	ISHARES AGEING POPULATION	AMC advisor	15.02.2019
CH0356359452	MSCI World Index	AMC advisor	15.02.2019
CH0356760253	Financial Select Sector SPDR Fund	AMC advisor	17.02.2019
CH0298160836	MSCI World Index	AMC advisor	24.02.2019
CH0359334502	S&P Oil & Gas Exploration & Production Select Industry Total Return Index	AMC advisor	14.03.2019
CH0354753326	EURO STOXX 50 Price EUR	AMC advisor	22.03.2019
CH0359888168	MSCI Switzerland	AMC advisor	23.03.2019
CH0360318700	Swiss Performance Index	AMC advisor	06.04.2019
CH0363896603	S&P 500 Index	AMC advisor	20.04.2019

CH0365241469	EURO STOXX 50 Price EUR	AMC advisor	15.05.2019
CH0358664750	DAX: 20%, MDAX: 40%, SDAX: 16.67%, CDAX: 23.33%	AMC advisor	16.05.2019
CH0366456892	MSCI ACWI Index	AMC advisor	17.05.2019
CH0366452776	NDWUIT Index	AMC advisor	17.05.2019
CH0359334817	Dow Jones Global Shipping Index	AMC advisor	26.05.2019
CH0355200764	RDG Index	AMC advisor	23.06.2019
CH0355200814	RDG Index	AMC advisor	27.06.2019
CH0355200673	EURO STOXX 50 Price EUR	AMC advisor	27.06.2019
CH0372873882	50% SMI TR + 50% Libor 3M (ICE LIBOR CHF 3M Index)	AMC advisor	27.07.2019
CH0355200509	MSCI World Index	AMC advisor	02.08.2019
CH0367841381	MSCI World Index	AMC advisor	25.08.2019
CH0359334734	S&P Oil & Gas Exploration & Production Select Industry Total Return Index	AMC advisor	28.08.2019
CH0378874256	S&P 500 Index	AMC advisor	01.09.2019
CH0355202190	NASDAQ 100 Index	AMC advisor	04.09.2019
CH0355202216	NASDAQ 100 Index	AMC advisor	04.09.2019
CH0355198026	MSCI World Index	AMC advisor	14.09.2019
CH0374073721	NASDAQ 100 Stock Index	AMC advisor	14.09.2019
CH0355198034	NASDAQ 100 Stock Index	AMC advisor	14.09.2019
CH0372809837	MSCI World Index	AMC advisor	26.09.2019
CH0372809373	MSCI World Index	AMC advisor	26.09.2019
CH0364860061	CAC 40	AMC advisor	29.09.2019
CH0372810447	S&P 500 Index	AMC advisor	20.10.2019
CH0372810348	Solactive Global Lithium Index	AMC advisor	25.10.2019
CH0386303595	STOXX Europe 600 Price Index EUR	AMC advisor	30.10.2019
CH0372810777	MSCI World Index	AMC advisor	15.11.2019
CH0372810769	MSCI World Index	AMC advisor	15.11.2019
CH0372810421	MSCI World Index	AMC advisor	15.11.2019
CH0372811080	STOXX Europe 600 Price Index EUR	AMC advisor	24.11.2019
CH0372808268	MSCI World Index	AMC advisor	19.12.2019
CH0393796856	STOXX Europe 600 EUR Price Index	AMC advisor	22.12.2019
CH0397869444	STOXX Europe 600 EUR Price Index	AMC advisor	23.01.2020
CH0385836637	MSCI World Index	AMC advisor	29.01.2020
CH0385836462	MSCI World Index	AMC advisor	29.01.2020
CH0385845166	SPDR S&P Regional Banking ETF	AMC advisor	07.03.2020
CH0385833485	iShares Russell 2000 Growth ETF	AMC advisor	12.03.2020
CH0408701743	Euro STOXX 50 Price Index	AMC advisor	26.03.2020
CH0385838138	UBS ETF MSCI Emerging Markets	AMC advisor	27.03.2020
CH0385841116	UBS ETF MSCI Emerging Markets	AMC advisor	05.04.2020
CH0401841405	SPI INDEX	AMC advisor	30.04.2020
CH0385839276	STOXX Europe 600 EUR Price Index	AMC advisor	02.05.2020
CH0385842387	Vanguard Information Technology ETF	AMC advisor	22.05.2020
CH0416888193	MSCI World Mid Cap Index	AMC advisor	25.05.2020
CH0414797065	MSCI Europe	AMC advisor	29.06.2020
CH0410022534	MSCI World Index	AMC advisor	29.06.2020
CH0420785153	MSCI World Index	AMC advisor	09.07.2020
CH0420785146	MSCI World Index	AMC advisor	09.07.2020
CH0410018375	MSCI World Information Technology Index	AMC advisor	09.07.2020
CH0410019480	MSCI World Information Technology Net Total Return Index	AMC advisor	16.08.2020
CH0410019860	MSCI World Net Total Return Index	AMC advisor	31.08.2020
CH0410019852	MSCI World Net Total Return Index	AMC advisor	31.08.2020
CH0410024142	MSCI World Net Total Return Index	AMC advisor	31.08.2020
CH0410019324	MSCI Daily TR Net World Index	AMC advisor	13.09.2020
CH0410028879	iShares Healthcare Innovation UCITS ETF	AMC advisor	30.10.2020
CH0410026089	iShares Healthcare Innovation UCITS ETF	AMC advisor	30.10.2020
DE000US8MAR5	iShares Healthcare Innovation UCITS ETF	AMC advisor	01.11.2020
CH0410017336	NASDAQ 100 Index	AMC advisor	07.12.2020

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