

# FTSE Cryptocurrencies Futures & Options

September 2024

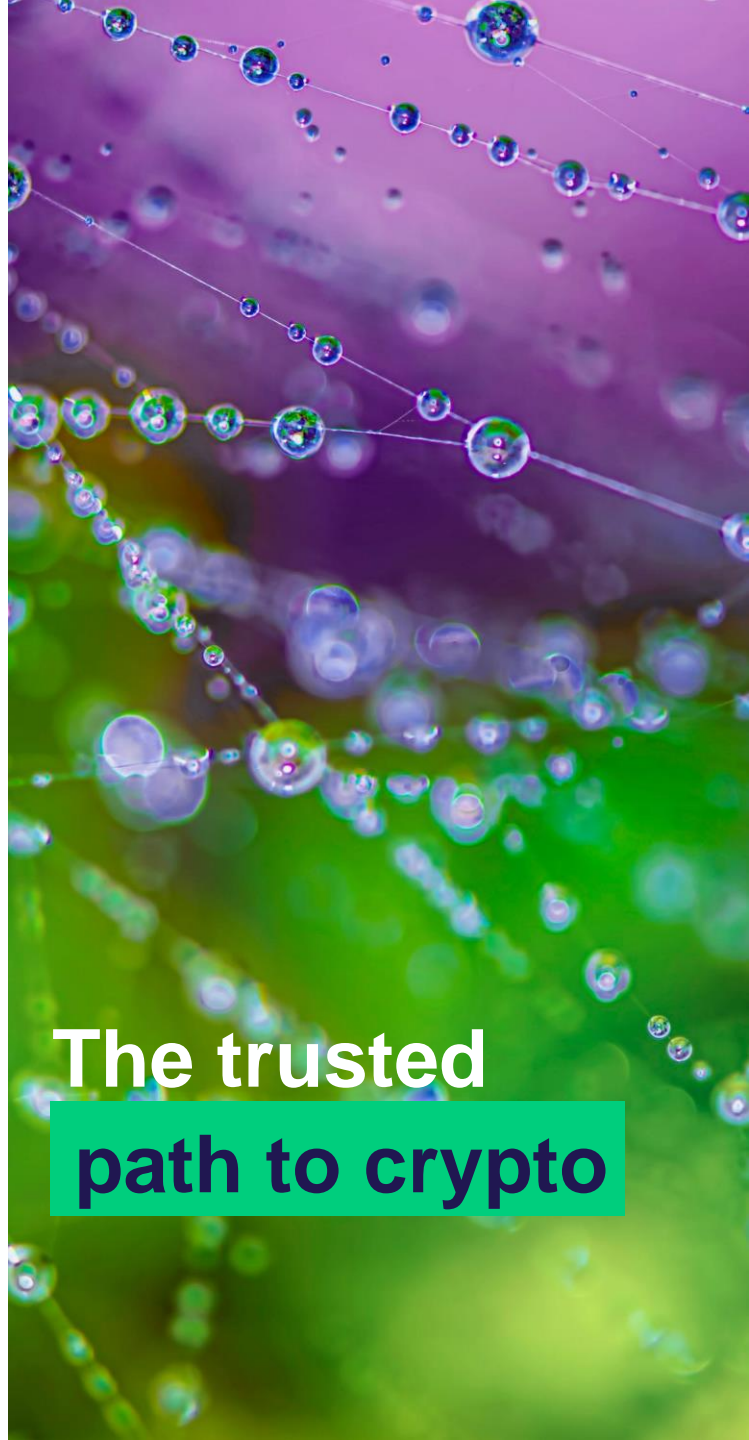
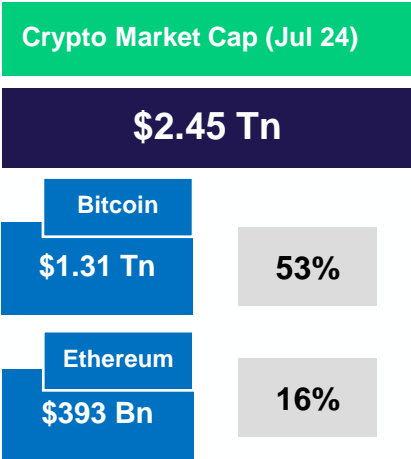
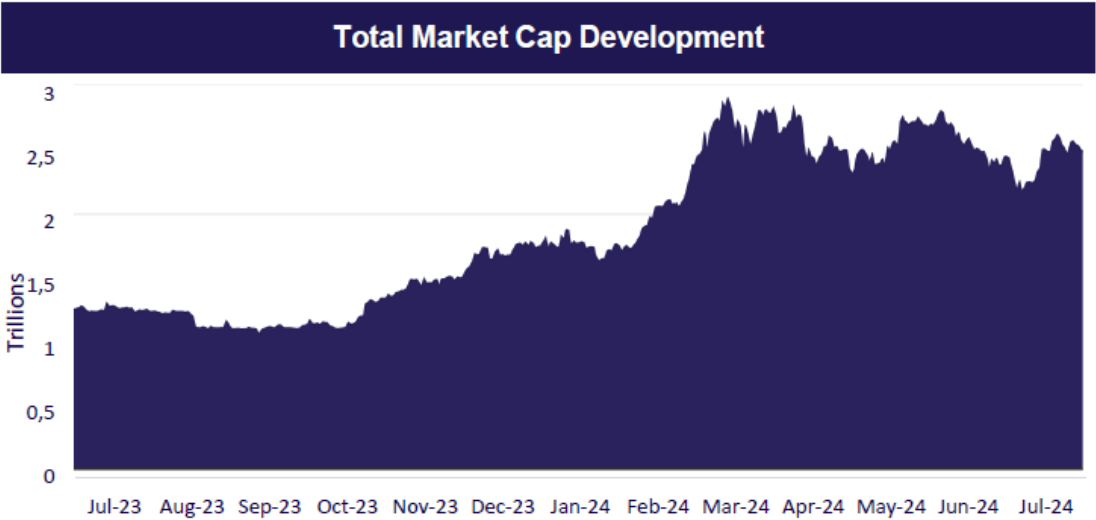
# Why crypto at Eurex?

## The trusted path to crypto

The cryptocurrency market has undergone a volatile period in 2022 as the industry faced an array of credit risk events. This has highlighted the importance of having trusted, regulated marketplace supporting the trading and risk management of digital assets.

2023 marked a turning point, with BTC and ETH recovering from the lows of previous year. The importance of this new asset class has been further strengthened, whereby in 2024 spot Bitcoin and subsequently spot Ethereum ETFs were launched in the US and other jurisdictions across the world.

It is now time to reconsider this asset class through the lens of a regulated marketplace.



# Introducing Eurex Crypto Derivatives Suite

The trusted path to crypto

## Bitcoin Futures & Options

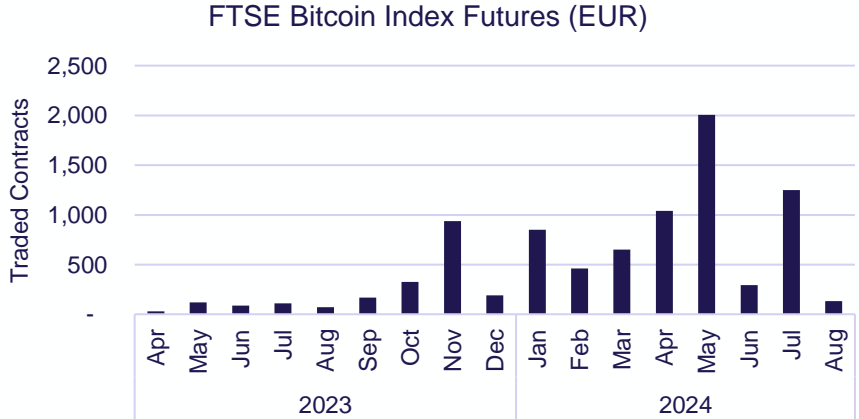
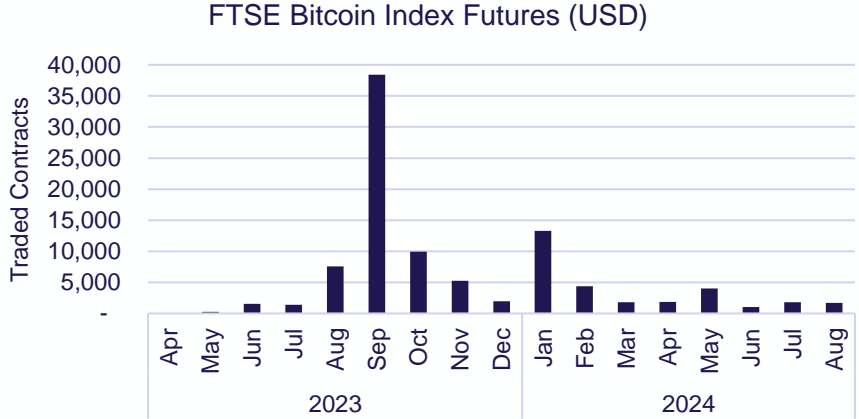
Launched at Eurex in 2023, with the support of Liquidity Providers and Clearing Members. Options additionally allow investors to hedge their Bitcoin exposure and express a more sophisticated market view with various trading strategies (e.g. straddles, put/call spreads etc.).

## Ethereum Futures & Options

Eurex expanded the crypto offering to cover Ethereum, the second largest cryptocurrency with approximately \$400bn market cap. Futures and Options supported by Liquidity Providers available to trade since 12 August 2024.

Across all products, over 100,000 contracts have traded since launch, or over USD 3.5bn notional

**FTSE Russell**, calculates and administers the underlying spot price index for Bitcoin & Ethereum, which is **compliant with the Benchmark Regulation (BMR)**



# Our Value Proposition

## Safe and trusted Trading & Clearing



### Trusted Index Provider

FTSE Russell is a leading index provider with over \$3.75T of investment product assets tracking their indices. Their partner for crypto indices, Digital Asset Research (DAR), is a provider of unbiased crypto market data, research, and analysis to professional investors



### Trading on a Regulated Exchange

Eurex is a renowned regulated exchange, with best-in-class trading platform and robust safeguards offering multi-asset class trading



### On-screen & OTC Liquidity

Investors benefit from tight spreads provided by leading Liquidity Providers during Asian, European and US trading hours



### Institutional and Professional Investors

Eurex cryptocurrency futures & options contracts are designed for both institutional as well as sophisticated retail investors, having balanced contract size and cash settlement on expiry



### Regional Advantage

Investors can gain cryptocurrency exposure in EUR or USD whilst trading on a European-regulated exchange, with a global investor base



### Central Counterparty Clearing

All trades at Eurex are risk managed and cleared in an AA-rated clearing house, with no auto liquidations or counterparty risk

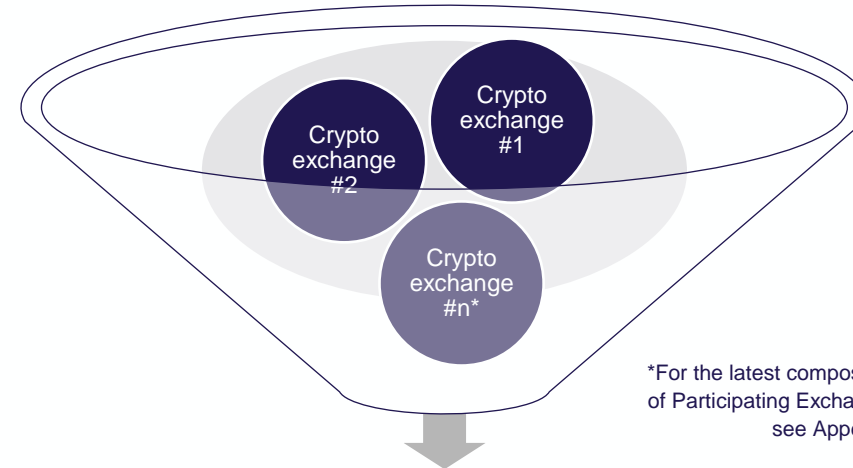
# Trading and Clearing of Crypto Futures & Options

Crypto F&O trading supported by high-grade, time-tested infrastructure and set up

| Layer   | Framework   | Functional Setup Overview   |
|---|---|---|
| <p><b>Trading Layer</b></p>                   | <p>Crypto futures &amp; options traded on Eurex</p>           | <ul style="list-style-type: none"> <li>▪ Index Futures &amp; Options with cash settlement on FTSE Indexes</li> <li>▪ Quotation in EUR or USD</li> <li>▪ Indexes provided by Benchmark Regulation(BMR) compliant Index Provider (FTSE Russel)</li> <li>▪ Trading on T7 / Eurex Deutschland, incl. all trading safeguards (e.g., Volatility Interruptions)</li> <li>▪ Technical set-up via cash settled index futures (FINX) and options on futures (OFIX)</li> </ul>                                   |
| <p><b>Clearing &amp; Settlement Layer</b></p> | <p>Crypto futures &amp; options cleared at Eurex Clearing</p> | <ul style="list-style-type: none"> <li>▪ Standard membership model (GCM, DCM)</li> <li>▪ Futures – cash-settlement in EUR or USD; Options – physical delivery of the index futures</li> <li>▪ Daily settlement prices calculated from order book data (if available, otherwise theoretical pricing)</li> <li>▪ Final settlement price is the contract value corresponding to the end-of-day value of the FTSE indexes</li> <li>▪ Standard clearing, netting, position management processes</li> </ul> |
| <p><b>Risk Layer</b></p>                      | <p>Standard clearing with PCY01 liquidation group</p>         | <ul style="list-style-type: none"> <li>▪ Margining in EUR/USD</li> <li>▪ PCY01 Crypto Derivatives Liquidation Group, with cross margining between products to follow</li> <li>▪ Indicative IM for futures Long 19% / Short 29%</li> </ul>   |

# FTSE DAR Index Design

- 1 Trade data is collected across all exchanges and converted into USD every 15 seconds
- 2 The index prices are then converted into other fiat currencies, like EUR, GBP, JPY
- 3 The Bitcoin futures underlying is the 17:00 CET index print



\*For the latest composition of Participating Exchanges see Appendix

VWAP calculation of all (genuine) trades across all vetted exchanges every 15 seconds

- Every 15 seconds DAR delivers the Asset Price to FTSE
- Every 15 minutes FTSE calculates time-weighted average Reference Price
- Every hour FTSE DAR (EU BMR compliant) price is published

| Crypto   | Index Name                   | Currency | ISIN         | Bloomberg Ticker | Refinitiv Real Time | Refinitiv Hourly |
|----------|------------------------------|----------|--------------|------------------|---------------------|------------------|
| Bitcoin  | FTSE Bitcoin Index 1700 CET  | USD      | GB00BMD2XR47 | FBTCUS17         | BTC=DARN            | BTC=FTSE         |
|          | FTSE Bitcoin Index 1700 CET  | EUR      | GB00BR03T444 | FBTCEU17         | BTCEUR=DARN         | BTCEUR=FTSE      |
| Ethereum | FTSE Ethereum Index 1700 CET | USD      | GB00BRRHT272 | FETHUS17         | ETH=DARN            | ETH=FTSE         |
|          | FTSE Ethereum Index 1700 CET | EUR      | GB00BRRHT389 | FETHEU17         | ETHEUR=DARN         | ETHEUR=FTSE      |

# Bitcoin & Ethereum Futures

## Contract Specifications

|  | Bitcoin Index Futures  | Ethereum Index Futures  |
|--|--|---|
| <b>Contract size</b>                           | 1 EUR / USD per index point (equivalent to 1 BTC)  | 10 EUR / USD per index point (equivalent to 10 ETH)   |
| <b>Underlying Crypto / Fiat Index</b>          | BTC / EUR - FTSE Bitcoin Index EUR (Bloomberg: FBTCEU17 Index <GO><br>BTC / USD - FTSE Bitcoin Index USD (Bloomberg: FBTCUS17 Index <GO>)  | ETH / EUR - FTSE Ethereum Index EUR (Bloomberg: FETHEU17 Index <GO><br>ETH / USD - FTSE Ethereum Index USD (Bloomberg: FETHUS17 Index <GO>) |
| <b>Tick size / value</b>                       | 5 per index point equivalent to 5 EUR / USD  | 0.5 per index point equivalent to 5 EUR / USD   |
| <b>Trading hours</b>                           | Monday – Friday: 1:15 and 22:00 CET (2:15 – 22:00 CEST); TES trading until 22:30 CE(S)T<br>The trading hours for an expiring crypto futures contract end at 17:00 CE(S)T on its final settlement day   |   |
| <b>Contract months</b>                         | The next three succeeding serial months and the two next quarterly expiration (March, June, September, December) up to a maximum term of 9 months  |   |
| <b>Last trading day / Final settlement day</b> | Last trading day and final settlement is 17:00 CE(S)T on the last Friday of the month in which the term of the respective contract expires   |   |
| <b>Exercise / Settlement</b>                   | Cash   |   |
| <b>Daily settlement price</b>                  | Daily settlement price is the volume-weighted average price (VWAP) of the futures transactions, calculated over a 1-minute interval ending at 17:00 CE(S)T. If less than five transactions occur, the VWAP of the last five transactions conducted in the last 15 minutes before 17:00 CE(S)T or the mid-point of bid/ask prices in the order book before 17:00 CE(S)T is used |   |
| <b>Final settlement price</b>                  | The final settlement price is the hourly calculated FTSE Index at 17:00 CE(S)T (up to 2 decimals)  |   |
| <b>Positions limits</b>                        | Not applicable   |   |
| <b>Minimum block size</b>                      | 10 lots  | 10 lots   |
| <b>Initial Margin</b>                          | Long 19% / Short 29%   | Long 19% / Short 29%  |
| <b>Bloomberg</b>                               | <b>PYAA Curncy &lt;GO&gt; / PYCA Curncy &lt;GO&gt;</b>   | <b>TEEA Curncy &lt;GO&gt; / TEEA Curncy &lt;GO&gt;</b>  |
| <b>Refinitiv</b>                               | <b>0#FBTU / 0#FBTE</b>   | <b>0#FETU / 0#FETE</b>  |

# Bitcoin & Ethereum Options

## Contract Specifications

|  | Options on Bitcoin Index Futures  | Options on Ethereum Index Futures  |
|--|---|--|
| <b>Contract size</b>                           | 1 Bitcoin Index Futures (equivalent to 1 BTC)   | 1 Ethereum Index Futures (equivalent to 10 ETH)  |
| <b>Underlying Crypto / Fiat Index</b>          | BTC / EUR - FTSE Bitcoin Index EUR (Bloomberg: FBTCEU17 Index <GO>)<br>BTC / USD - FTSE Bitcoin Index USD (Bloomberg: FBTCUS17 Index <GO>)  | ETH / EUR - FTSE Ethereum Index EUR (Bloomberg: FETHEU17 Index <GO>)<br>ETH / USD - FTSE Ethereum Index USD (Bloomberg: FETHUS17 Index <GO>) |
| <b>Tick size / value</b>                       | 1 per index point equivalent to 1 EUR / USD   | 0.1 per index point equivalent to 1 EUR / USD  |
| <b>Trading hours</b>                           | Monday – Friday: 8:00 and 20:00 CE(S)T<br>The trading hours for an expiring crypto options contract end at 17:00 CE(S)T on its final settlement day                               |  |
| <b>Contract months</b>                         | Five Friday weekly expirations, the next three succeeding serial months and the next two quarterly expiration (March, June, September, December) up to a maximum term of 9 months |  |
| <b>Exercise prices</b>                         | 40 strikes around the money with 500 steps ATM, and 1,000 further ITM/OTM   | 40 strikes around the money with 100 steps ATM, and 500 further ITM/OTM  |
| <b>Last trading day / Final settlement day</b> | Last trading day and final settlement is 17:00 CE(S)T on the last Friday of the month in which the term of the respective contract expires  |  |
| <b>Exercise / Settlement</b>                   | European / Physical delivery of the index futures. The index futures matures on the same exchange day and will be settled in cash   |  |
| <b>Daily settlement price</b>                  | Established by Eurex via a theoretical options pricing model  |  |
| <b>Final settlement price</b>                  | The final settlement price is the hourly calculated FTSE Bitcoin Index at 17:00 CE(S)T (up to 2 decimals)   |  |
| <b>Positions limits</b>                        | Not applicable  |  |
| <b>Minimum block size</b>                      | 10 lots   | 10 lots  |
| <b>Bloomberg</b>                               | <b>PYAA Curncy &lt;OMON&gt; / PYCA Curncy &lt;OMON&gt;</b>  | <b>TEEA Curncy &lt;OMON&gt; / TEEA Curncy &lt;OMON&gt;</b>   |
| <b>Refinitiv</b>                               | <b>0#OBTU / 0#OBTE</b>  | <b>0#OETU / 0#OETE</b>   |



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[eurex.com](http://eurex.com)



# Appendix

# Digital Asset Overview



DIGITAL  
ASSET  
RESEARCH

FTSE Digital Asset Index Series  
in association with Digital Asset  
Research (DAR)

FTSE  
Russell

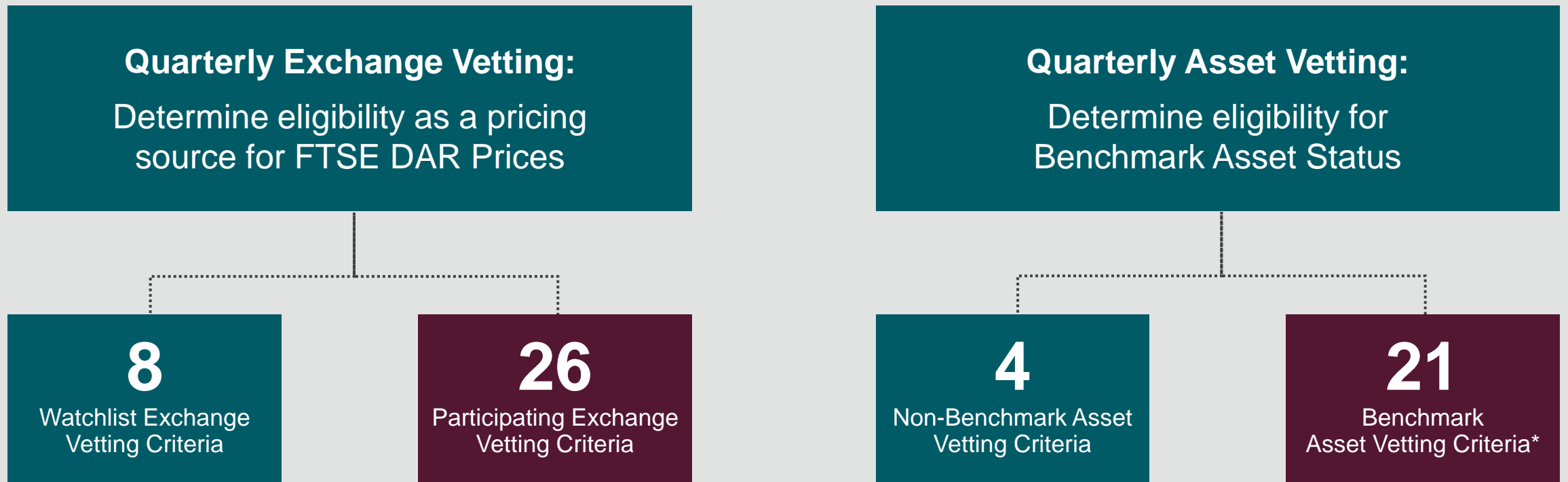
[ftserussell.com](https://ftserussell.com)

An LSEG Business

# The importance of exchange vetting

Eligibility is determined by key criteria

Total of 34 quality-of-market and 25 quality-of-asset tests



Source: FTSE DAR Guide to the Vetting of Digital Assets and Digital Asset Exchanges. Benchmark Asset Vetting includes the criteria for Tier 1 pricing.

# Market Status Exchanges: Proprietary 2-Tiered Classification

*Offers investors risk management insight into the regulatory and trading practices of the exchanges*

## FTSE DAR digital asset market status classification

### PARTICIPATING EXCHANGES

- Bitfinex
- Bitflyer
- Bitstamp
- Gemini
- itBit
- Kraken
- LMAX
- Luno

### WATCHLIST EXCHANGES

- Bibox
- Biconomy
- Binance
- Binance.US
- Bitbank
- BitMart
- BitoPro
- Bitvavo
- BtcTurk
- Bybit
- Changelly PRO
- Coinbase
- Coincheck
- CoinEx
- Crypto.com
- Cryptology
- Dex-Trade
- DIFX
- Digifinex
- GMO Coin Co.
- Latoken
- OKCoin Japan
- Phemex
- Pionex
- Poloniex
- Woo Network

Exchanges can be declassified from this list with immediate effect according to rules outlined in the Guide to the Vetting of Digital Assets and Digital Asset Exchanges.

Source: [FTSE Russell and DAR](#). As of July 12, 2024. For more information please visit: <http://www.ftserussell.com/digitalasset>

# FTSE DAR digital exchange vetting

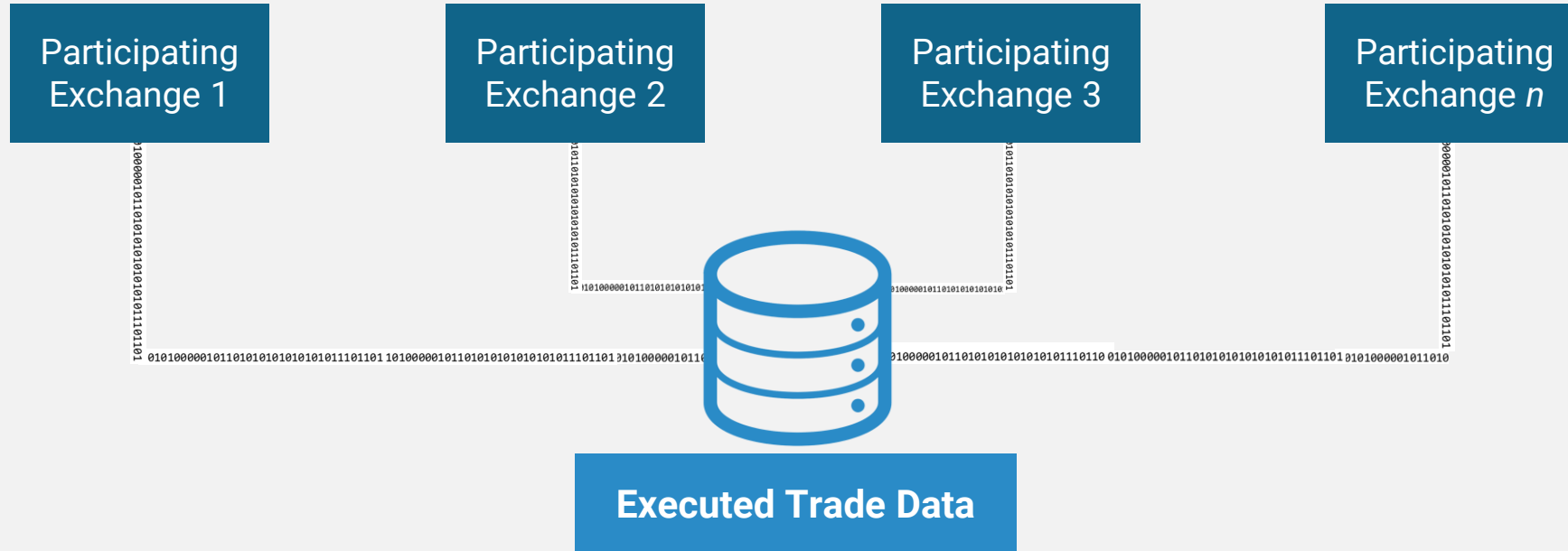
## Market Status Classification Criteria

| CRITERIA   | WATCHLIST | PARTICIPATING |
|--|-----------|---------------|
| <b>Regulatory Criteria</b>   |           |               |
| Capital Controls: Domicile of Exchange does not restrict capital trading to foreign or international investors   | ●         | ●             |
| Exchanges must be managed by companies with easily available and verified biographical information on its leadership team  | ●         | ●             |
| Regulatory Compliance: the Exchange operates within the laws of its domiciled country and does not knowingly violate any local or international regulations applicable to it based on its location, or the location of its permitted users and has obtained the relevant licensing and registrations |           | ●             |
| Differentiation of Users Based on Geolocation: restricts trading to users in specific jurisdictions  |           | ●             |
| Obtained the relevant licensing and registrations for the jurisdiction(s) in which the Exchange maintains an office, is headquartered, or is otherwise registered to do business   |           | ●             |
| Exchange has complied with regulatory authorities for requests for information   |           | ●             |
| <b>Governance and Institutional Criteria</b>   |           |               |
| Must maintain a minimum daily reported volume of \$5M USD each day over the previous six months  | ●         | ●             |
| "Know Your Customer" (KYC) and Anti-Money Laundering (AML) controls require, at a minimum, that a user verify their name, phone number and bank account prior to using the platform including FTSE and DAR's ability to audit the policies   |           | ●             |
| Information Sharing: Provide upon request by FTSE and DAR information around unusual or suspicious market activity   |           | ●             |
| Sanctions Lists: an Exchange is reviewed against third-party sanctions lists   |           | ●             |
| Fees: An Exchange must have a publicly listed fee schedule which is uniformly practiced and demonstrates that the Exchange operation as a centralized, for-profit business   |           | ●             |

| CRITERIA  | WATCHLIST   | PARTICIPATING   |
|---|---|---|
| <b>Governance and Institutional Criteria Continued</b>  |   |   |
| Accessible Support Team: Provide open support communication channels to its users   |   | ●   |
| Criminal or Regulatory Misconduct: No founded accusations of misconduct or criminal charges against the Exchange and the Exchange has complied with regulatory authorities for requests of information                    |   | ●   |
| <b>Technical Criteria</b>   |   |   |
| Centralized Spot Exchange, centralized organization that facilitates spot delivery transactions of underlying assets  | ●   | ●   |
| Required Data: Trade data is available and allows for continuous delivery of trade prices and trading volume data, including data fields which detail the asset pair, price, volume and accurate timestamp for each trade | ●   | ●   |
| No Meaningful Security Lapses: No meaningful security lapse or breach in the last 12 months which resulted in the loss of client or Exchange funds exceeding 1% of its total holdings                                     |   | ●   |
| No Known Deficiencies in Operational Security: focusing on mitigating potential attack vectors and operational risks.   |   | ●   |
| Have no significant downtime, defined as more than 24 cumulative hours in a quarter   |   | ●   |
| <b>Data Science Criteria</b>  |   |   |
| Trading needs to follow natural buy and sell patterns   | ●   | ●   |
| Trading occurs at natural and expected lot levels   | ●   | ●   |
| Price follows natural patterns that track with the market   | ●   | ●   |
| Volume follows natural patterns that track with the market  | Pass any two of three criteria over previous two quarters | Pass any two of three criteria over previous two quarters |
| Order book shows active and competitive behavior  |   |   |

# Aggregate prices from vetted sources

DAR aggregates raw trade data for each constituent asset from the Participating Exchanges\* in order to derive a consolidated price.

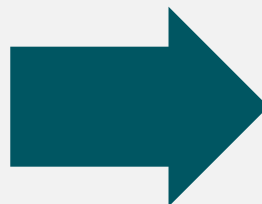


\*Please note the same process is in place for the Watchlist Exchange which are pricing sources for the Non-Benchmark Assets.

# Trade filtration methodology

## First, we filter on the exchange level:

1. For each asset we take the last 15 seconds of trades and create an VWAP at each exchange
2. We then calculate the standard deviation and mean of this dataset
3. Any exchange whose VWAP asset price is more than 1.5 standard deviations away from the mean has all their trades for that asset removed from contribution of the final FTSE DAR 15 second price



## Then, we filter on Asset Level:

1. For each asset we gather the most recent 10 minutes worth of trade data and convert all trade prices to USD
2. We then calculate the standard deviation and mean of this dataset
3. Any trades that are 2.5 standard deviations away from the mean are removed from the dataset

*March 2022 Results:*

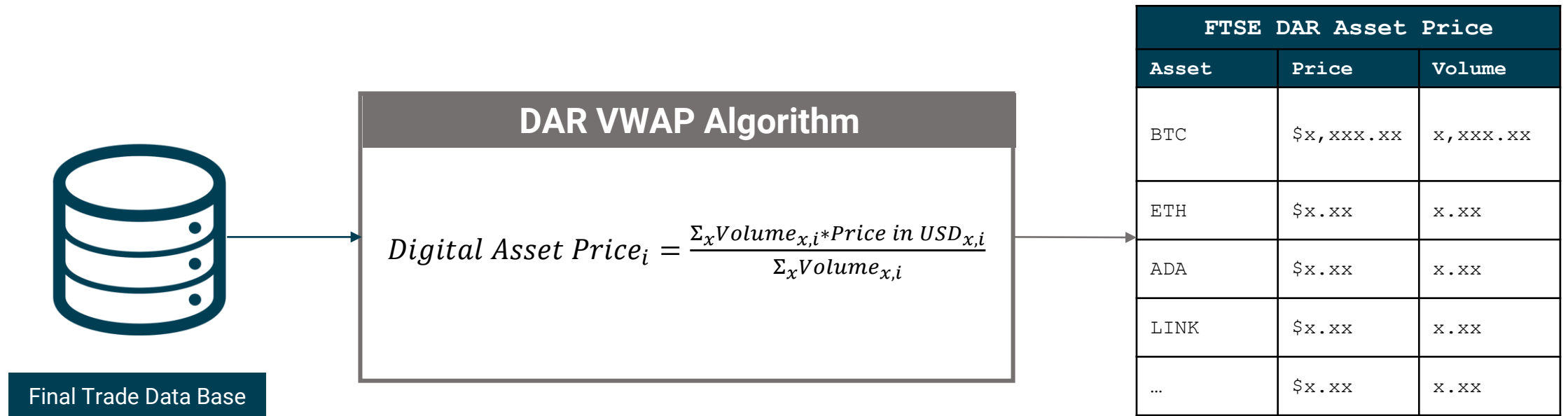
| Exchange Status | No. of Filtered Trades | Total Trades | Percent |
|-----------------|------------------------|--------------|---------|
| Participating   | 18,570,483             | 323,861,754  | 5.73%   |
| Watchlist       | 34,786,593             | 612,340,375  | 5.68%   |

| Benchmark Status     | No. of Filtered Trades | Total Trades | Percent |
|----------------------|------------------------|--------------|---------|
| Benchmark Assets     | 16,619,216             | 259,516,254  | 6.40%   |
| Non-Benchmark Assets | 36,280,006             | 676,685,875  | 5.36%   |



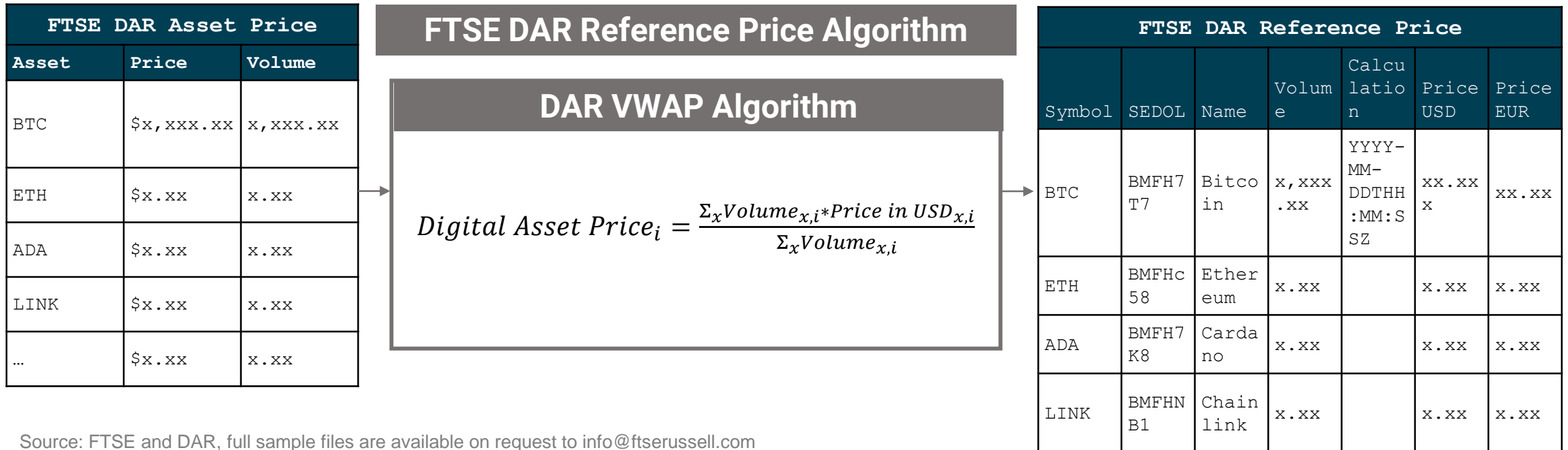
# FTSE DAR asset price calculation process

Once the data is cleansed, DAR calculates a Volume Weighted Average Price (VWAP) in USD for all constituent assets every 15 seconds. If no trades have been made in the most recent 15 seconds, the previous price is pulled forward.



# FTSE DAR reference price calculation process

DAR delivers to FTSE the FTSE DAR Asset price every 15 seconds. FTSE calculates the volume time weighted average of the FTSE DAR Digital Asset Price over the 15-minute period before the fixing time. The Reference Prices are calculated every hour, 24 times per day. The FTSE DAR Reference Prices are utilized in the indices for official closes.



Source: FTSE and DAR, full sample files are available on request to [info@ftserussell.com](mailto:info@ftserussell.com)

# Disclaimer

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customers. Lastly, U.S. QIBs and broker-dealers trading on behalf of QIBs may trade certain single-security futures and narrow-based security index futures subject to terms and conditions of the SEC’s Exchange Act Release No. 60,194 (June 30, 2009), 74 Fed. Reg. 32,200 (July 7, 2009) and the CFTC’s Division of Clearing and Intermediary Oversight Advisory Concerning the Offer and Sale of Foreign Security Futures Products to Customers Located in the United States (June 8, 2010). Trademarks and Service Marks Buxl®, DAX®, DivDAX®, eb.rexx®, Eurex®, Eurex Repo®, Strategy Wizard®, Euro GC®, FDAX®, FWB®, GC Pooling®, CPI®, MDAX®, ODAX®, SDAX®, TecDAX®, USD GC Pooling®, VDAX®, VDAX-NEW® and Xetra® are registered trademarks of DBAG or its affiliates and subsidiaries. MSCI®, EAFE®, ACWI® and all MSCI indexes (the “Indexes”), the data included therein, and service marks included therein are the intellectual property of MSCI Inc., its affiliates and/or their licensors (together, the “MSCI Parties”). The Indexes are provided “as is” and the user assumes the entire risk of any use it may make or permit to be made of the Indexes. No MSCI Party warrants or guarantees the originality, accuracy and/or completeness of the Indexes and each expressly disclaims all express or implied warranties. No MSCI Party shall have any liability for any errors or omissions in connection with any of the Indexes, or any liability for any direct, indirect, special, punitive, consequential or any other damages (including lost profits) even if notified of the possibility of such damages. For full disclaimer see [msci.com/disclaimer](https://www.msci.com/disclaimer). ATX®, ATX® five, CECE® and RDX® are registered trademarks of Vienna Stock Exchange AG. IPD® UK Quarterly Indexes are registered trademarks of Investment Property Databank Ltd. IPD and have been licensed for the use by Eurex for derivatives. SLI®, SMI® and SMIM® are registered trademarks of SIX Swiss Exchange AG. The STOXX® indexes, the data included therein and the trademarks used in the index names are the intellectual property of STOXX Limited and/or its licensors. Eurex derivatives based on the STOXX® indexes are in no way sponsored, endorsed, sold or promoted by STOXX and its licensors and neither STOXX nor its licensors shall have any liability with respect thereto. PCS® and Property Claim Services® are registered trademarks of ISO Services, Inc. Korea Exchange, KRX, KOSPI and KOSPI 200 are registered trademarks of Korea Exchange Inc. The names of other companies and thirdparty products may be trademarks or service marks of their respective owners. FTSE® is a trademark of the London Stock Exchange Group companies and is used by FTSE International Limited under license. The names of other companies and third-party products may be trademarks or service marks of their respective owners. PRIIPs: Eurex Deutschland qualifies as manufacturer of packaged retail and insurance-based investment products (PRIIPs) under Regulation (EU) No 1286/2014 on key information documents for packaged retail and insurance-based investment products (PRIIPs Regulation) and provides key information documents (KIDs) covering PRIIPs traded on Eurex Deutschland on its website under the following link: <https://www.eurex.com/ex-en/rules-regs/priips-kids>. In addition, according to Art. 14(1) PRIIPs Regulation the person advising on, or selling, a PRIIP shall provide the KID to retail investors free of charge.