Eurybia

Data Catalog

Catalog

Introduction

Eurybia Technology Limited is a Web3 technology company incubated by the **Laboratory for AI-Powered Financial Technologies Limited (AIFT)** in Hong Kong. We provide high quality data services and decision support for Web3 projects and quantitative trading houses.

Our data suite integrates real-time **blockchain data, media and social media data, market data, and decentralized autonomous organizations (DAO) governance data**. By merging AI algorithms and rigorous academic theories, we offer a holistic understanding of project lifecycles, market dynamics, and regulatory alignment; streamlining project lifecycles and empowering informed decision-making in the dynamic decentralized world.

Eurybia is poised to unlock Web3's full potential, delivering a future were technology drives growth and transparency reigns supreme.

Data Sources

Blockchains

Eurybia synchronized more than a dozen different blockchains and extracted structure data using smart contract-specific processing from these blockchain nodes. The structure data are stored in different types of data warehouses, including MySQL, MongoDB, and ClickHouse.

EVM Chains

- Ethereum
- Binance Smart Chain
- Base
- Ronin
- Polygon
- Optimism
- Linea
- Mantle

Non-EVM Chains

- Bitcoin
- Ton
- Solana

Data Availability

- Start Date: From the genesis block
- Raw Data Resolution – Real-time updates when new block generates
- Structure Data Resolution – Daily ETL updates

Media

Eurybia identifies the most impactful media outlets and key sources from social platforms linked to Web3 and cryptocurrency. These data cover events like market dynamics, regulatory changes, technological breakthroughs.

Social Media

Data Sources

- **X (formerly Twitter):** 3,394 accounts

  Blockchain Titans, Mainchain Maintainers, Key Developers, Media Representatives, Key Opinion Leaders (KOLs)

- **Telegram:** 21 Channels

  Web3-Themed Group Chats, Market Signal Update Channels

Data Availability

- Start Date: Mar 2024
- Data Resolution: Updated every 15 mins
- Historical Tracing: Available upon request

News Media

Data Sources

- **Media Network:** 483 vetted outlets

  Mainstream media outlet, Specialized Web3 and cryptocurrency media platforms, Institutional reports from Web3/cryptocurrency organizations, Regulatory updates from government bodies

Data Availability

- Start Date: Mar 2023
- Data Resolution: Updated every minutes
- Historical Tracing: Available upon request

DAOs

Data Sources

- **Discord:** 111 Discord Groups

  Web3-Themed Chatting Groups

- **Discourse:** 111 Discourse Groups

  Web3-Themed Proposal Discussion Groups

- **Snapshot:** 111 Snapshot Groups

  Web3-Themed Proposal Voting Groups

Data Availability

- Start Date: Mar 2017
- Updates: Up till Oct 2023, not updating
- Historical Tracing: Available upon request

Market

Eurybia collects comprehensive trading data from the most influential centralized cryptocurrency exchanges, including key metrics such as price, trading volume, and circulating supply, etc.

Data Sources

- **Binance**

  https://www.binance.com/en/binance-api

- **OKX**

  https://www.okx.com/docs-v5/en/

Data Availability

- Market Signals: Funding rate, latest listing, etc.
- Asset Ticking
  - 1MBABYDOGE
  - ACT
  - AXS
  - BOME
  - BONK
  - BTC
  - DOGE
  - DOGS
  - ETH
  - FLOKI
  - MEME
  - NEIRO
  - ORDI
  - PEOPLE
  - PEPE
  - PNUT
  - SATS
  - SHIB
  - SOL
  - TURBO
  - WIF
- Start Date: Dec 2018
- Updates: Real time
- Extra Assets: Available upon request

External APIs

Eurybia also fetches data from the most influential data platforms.

Data Sources

- **CoinMarketCap**

  https://coinmarketcap.com/api/documentation/v1/

- **OKLink**

  https://www.oklink.com/docs/zh/#introduction

Data Availability

- Start Date: Sep 2019
- Updates: Real time

Raw Data

EVM

EVM Blocks

Name	Type	Description
baseFeePerGas	*STRING*	The base fee for each gas unit
difficulty	*STRING*	The difficulty level for mining the block
extraData	*STRING*	Additional data included in the block
gasLimit	*STRING*	The maximum amount of gas allowed in the block
gasUsed	*STRING*	The amount of gas used by all transactions in the block
hash	*STRING*	The unique hash of the block
logsBloom	*STRING*	A bloom filter of the logs in the block
miner	*STRING*	The address of the miner who mined the block
mixHash	*STRING*	The mix hash of the block
nonce	*STRING*	The nonce used to mine the block
number	*STRING*	The block number
parentHash	*STRING*	The hash of the parent block
receiptsRoot	*STRING*	The Merkle root of the transaction receipts
sha3Uncles	*STRING*	The hash of the uncles included in the block
size	*STRING*	The size of the block in bytes
stateRoot	*STRING*	The Merkle root of the State Trie
timestamp	*STRING*	The timestamp when the block was created
totalDifficulty	*STRING*	The total difficulty of the blockchain up to this block
transactions	*LIST*	An array of transaction hashes included in the block
transactionsRoot	*STRING*	The Merkle root of the transactions included in the block
uncles	*LIST*	An array of uncle block hashes included in the block

EVM Transactions

Name	Type	Description
blockHash	*STRING*	The hash of the block in which the transaction is included
blockNumber	*STRING*	The block number in which the transaction is included
from	*STRING*	The address of the sender of the transaction
gas	*STRING*	The amount of gas that the sender is willing to pay for the transaction
gasPrice	*STRING*	The price per unit of gas for the transaction
hash	*STRING*	The unique hash of the transaction
input	*STRING*	The data payload of the transaction, which can include arbitrary data or a function call
nonce	*STRING*	The nonce of the sender's account, which is incremented for each transaction sent from the account
to	*STRING*	The address of the recipient of the transaction
transactionIndex	*STRING*	The index of the transaction in the block
value	*STRING*	The amount of ether sent in the transaction
v	*STRING*	The V-value of the signature
r	*STRING*	The R-value of the signature
s	*STRING*	The S-value of the signature

EVM Transaction Receipts

Name	Type	Description
blockHash	*STRING*	The hash of the block where the transaction was included
blockNumber	*STRING*	The number of the block where the transaction was included
contractAddress	*STRING*	The address of the contract created by the transaction
cumulativeGasUsed	*STRING*	The total amount of gas used by all transactions up to and including this transaction in the block
effectiveGasPrice	*STRING*	The actual price per gas that was paid for the transaction
from	*STRING*	The address of the sender of the transaction
gasUsed	*STRING*	The amount of gas used by this specific transaction
logs	*LIST*	An array of log entries generated by the transaction
logsBloom	*STRING*	A bloom filter that can be used to efficiently check if a log entry with a certain topic exists within this transaction
status	*STRING*	The status of the transaction

to	*STRING*	The address of the recipient of the transaction
transactionHash	*STRING*	The unique hash of the transaction
transactionIndex	*STRING*	The index of the transaction within the block
type	*STRING*	The type of the transaction

SVM

SVM Blocks

Name	Type	Description
slot	*INT*	Slot number
previousBlockhash	*STRING*	Previous Block hash
blockhash	*STRING*	Block hash
parentSlot	*INT*	Parent slot
transaction_signatures	*LIST*	Transaction signatures
transaction_header_ numRequiredSignatures	*INT*	Number of required signatures in the txn
transaction_header_ numReadonlySignedAccounts	*INT*	Number of read-only signed accounts in the transaction
transaction_header_ numReadonlyUnsignedAccounts	*INT*	Number of read-only unsigned accounts in the transaction
transaction_accountKeys	*LIST*	Account keys in transaction
transaction_recentBlockhash	*STRING*	Recent block hash
transaction_instructions_programIdIndex	*INT*	Program Id Index of instruction
transaction_instructions_accounts	*LIST*	Accounts of instruction
transaction_instructions_data	*STRING*	data of instruction
transaction_instructions_stackHeight	*STRING*	Stack Height of instruction
addressTableLookups	*LIST*	Address table lookups
transaction_err	*STRING*	Transaction error
transaction_status	*JSON*	Transaction status
transaction_fee	*FLOAT*	transaction fee
transaction_preBalances	*LIST*	Balances before transaction
transaction_postBalances	*LIST*	Balances after transaction
transaction_innerInstructions	*JSON*	Inner Instructions
transaction_logMessages	*LIST*	Log messages
transaction_preTokenBalances	*LIST*	Token balances before transaction
transaction_postTokenBalances	*LIST*	Token balances after transaction
transaction_rewards	*INT*	Transaction rewards
transaction_loadedAddresses_writable	*LIST*	Loaded writable addresses in transaction
transaction_loadedAddresses_readonly	*LIST*	Loaded read-only Addresses in transaction
transaction_computeUnitsConsumed	*INT*	Compute units consumed of transaction

transaction_version	*INT*	Transaction version

SVM Token Holders

Name	Type	Description
token_address	*STRING*	Token contract address
user_address	*STRING*	User's address who holds the token ever
user_token_account	*STRING*	User's token account who holds the token ever
user_hold_token_amount	*STRING*	Token amount that user holds now

SVM Tokens

Name	Type	Description
token_address	*STRING*	Token contract address
name	*STRING*	Token's name
symbol	*STRING*	Token's symbol
image	*STRING*	Token's image link
description	*STRING*	Token's description
executable	*STRING*	Contract executable or not
owner	*STRING*	Contract’s owner
rentEpoch	*STRING*	Account's epoch's rent
mintAuthority	*STRING*	Contract’s mint authority
supply	*INT*	Token's current supply
decimals	*INT*	Token's decimal
isInitialized	*STRING*	Token is initialized or not
freezeAuthority	*STRING*	Contranct's freeze authority

The pump.fun Contract

Name	Type	Description
		Instructions (Buy/Sell)
slot	*INT*	Slot number
signature	*STRING*	Transaction signature
timestamp	*INT*	Slot timestamp
instruction_name	*STRING*	Pump.fun instruction name Buy/sell etc.
instruction_params	*JSON*	Instruction parameters
		Trade Events
slot	*INT*	Slot number
signature	*STRING*	Transaction signature
name	*STRING*	Event Name
solAmount	*STRING*	The amount of SOL involved in the transaction
tokenAmount	*STRING*	The amount of token involved in the transaction
isBuy	*BOOL*	Whether the transaction is a buy or a sell
user	*STRING*	Slot timestamp
timestamp	*STRING*	Contranct's freeze authority
virtualSolReserves	*STRING*	Virtual SOL reserves in the bonding curve pool
virtualTokenReserves	*STRING*	Virtual token reserves in the bonding curve pool

Media

Social Media

X (Twitter) Posts

Name	Type	Description
Tweet ID	*BIGINT*	The unique identifier of the tweet on X (used to query the original link).
Creation Time	*DATETIME*	The specific time the tweet was created.
Date	*DATE*	The date the tweet was posted.
Is Retweet	*BOOLEAN*	Indicates whether the tweet is a retweet.
Retweeted Tweet	*TEXT*	The original content of the retweeted tweet (if applicable).
Rich Text Content	*TEXT*	Rich text content in the tweet (e.g., emojis, formatted text).
Text Content	*TEXT*	The text content of the tweet (excluding rich text).
Tweet Body	*TEXT*	The complete content of the tweet, including text and metadata.
Language	*VARCHAR(10)*	The language used in tweets.
Is Sensitive	*BOOLEAN*	Indicates whether the tweet is marked as sensitive.
Replied-to Tweet	*TEXT*	Information about the tweet being replied to.
Mentioned Users	*JSON*	User information mentioned (@) in the tweet.
Is Reply	*BOOLEAN*	Indicates whether the tweet is a reply.
Vibe	*VARCHAR(255)*	The mood or vibe set by the user when posting the tweet.
Location	*VARCHAR(255)*	The geographical location information of the tweet.
Source	*VARCHAR(255)*	The source of the tweet (e.g., device or platform).
Audio Space ID	*BIGINT*	The unique identifier of the associated audio space.
Is Audio Space	*BOOLEAN*	Indicates whether the tweet is associated with an audio space.
Voice Information	*TEXT*	Voice-related information in the tweet.
Poll Information	*JSON*	Poll information associated with the tweet.
URLs	*JSON*	Links included in the tweet.
Has Moderated Replies	*BOOLEAN*	Indicates whether there are moderated replies.
Hashtags	*JSON*	Tags included in the tweet.
Financial Symbols	*JSON*	Financial symbols mentioned in the tweet (e.g., $BTC).

Community Notes	*TEXT*	Community notes associated with the tweet.
Community	*VARCHAR(255)*	Community or group information to which the tweet belongs.
Tweet URL	*TEXT*	The URL link of the tweet.
Edit Control Info	*JSON*	Information about the tweet's edit controls.
Has Newer Version	*BOOLEAN*	Indicates whether an updated version of the tweet exists.
Is Broadcast	*BOOLEAN*	Indicates whether the tweet is a broadcast.
Threaded Tweet	*TEXT*	Indicates the thread or long tweet to which this belongs.
Can Reply	*BOOLEAN*	Indicates whether the tweet allows replies.
Reply Count	*INT*	The number of replies to the tweet.
Quote Count	*INT*	The number of times the tweet has been quoted.
Like Count	*INT*	The number of likes the tweet has received.
View Count	*BIGINT*	The number of times the tweet has been viewed.
Retweet Count	*INT*	The number of times the tweet has been retweeted.
Comment Count	*INT*	The number of comments on the tweet.
Is Quoted	*BOOLEAN*	Indicates whether the tweet has been quoted.
Quoted Tweet	*TEXT*	The content of the quoted tweet (if applicable).
Favorite Count	*INT*	The number of times the tweet has been favorited.

X (Twitter) Users

Updated every 15 minutes.

Name	Type	Description
User ID	*BIGINT*	The unique identifier of the user (for querying specific user information on X).
Display Name	*VARCHAR(255)*	The public display name of the user.
Unique Username	*VARCHAR(150)*	The unique username of the user.
Creation Time	*DATETIME*	The creation time of the user's account.
Entity Information	*JSON*	Structured information included in the user's bio, such as links and tags.
Bio Description	*TEXT*	The user's personal description or self-description.
Profile Summary	*TEXT*	The summary displayed in the user's profile.
Location	*VARCHAR(255)*	The geographic location by the user.
Media Count	*INT*	The total number of media included in the user's tweets.

Profile Banner Link	*TEXT*	The URL link to the banner image on the user's profile page.
Avatar Link (HTTPS)	*TEXT*	The HTTPS link to the user's profile picture.
Bio Insert Type	*VARCHAR(50)*	The type of content inserted into the user's bio.
Is Protected	*BOOLEAN*	Whether the user's account is private.
Is Verified	*BOOLEAN*	Whether the user has been officially verified by Twitter (blue tick).
Can Send DM	*BOOLEAN*	Whether the current user can send direct messages to this user.
Pinned Tweet	*TEXT*	Information about the tweet pinned to the top of the user's home page.
Profile Link	*TEXT*	The URL link to the user's profile page.
Rapid Follower Growth	*INT*	The number of followers the user has gained rapidly in recent times.
Regular Followers	*INT*	The number of regular followers who have not marked the user as a special category.
Liked Tweets	*INT*	The total number of tweets that the user has marked as "liked".
Followers Count	*BIGINT*	The total number of people following the user.
Following Count	*INT*	The total number of accounts the user follows.
Listed Count	*INT*	The number of lists created by other users where this user has been added.
Tweet Count	*INT*	The total number of tweets posted by the user.
Community Role	*VARCHAR(255)*	Information about the user's role within specific communities.

Telegram Group Chats

Name	Type	Description
Message ID	*BIGINT*	The unique identifier of the message.
Sender User ID	*BIGINT*	The ID of the user who sent the message.
Sender Username	*TEXT*	The username of the sender (default if not provided).
Group ID	*BIGINT*	The ID of the group where the message was sent.
Group Username	*TEXT*	The group's username (default if not provided).
Message Text	*TEXT*	The textual content of the message (default if not provided).
URLs	*TEXT*	List of URLs contained in the message (default if not provided).
Message Timestamp	*TIMESTAMP WITH TIME ZONE*	The timestamp of when the message was sent (time zone-aware).
Message Type	*TEXT*	The type/category of the message (default if not provided).
Reply To Message ID	*BIGINT*	The ID of the message being replied to.
Media Type	*TEXT*	The media type (e.g., image, video) included in the message.
Mentions	*TEXT*	List of users mentioned in the message (default if not provided).
Hashtags	*TEXT*	List of hashtags included in the message (default if not provided).
Phone Numbers	*TEXT*	List of phone numbers contained in the message (default if not provided).
Emails	*TEXT*	List of email addresses contained in the message (default if not provided).

Telegram Channel Updates

Name	Type	Description
Message ID	*BIGINT*	The unique identifier of the message.
Sender User ID	*BIGINT*	The ID of the user who sent the message.
Sender Username	*TEXT*	The username of the sender (default if not provided).
Channel ID	*BIGINT*	The ID of the channel where the message was posted.

Channel Title	*TEXT*	The title of the channel (default if not provided).
Message Text	*TEXT*	The textual content of the message (default if not provided).
URLs	*TEXT*	List of URLs contained in the message (default if not provided).
Message Timestamp	*TIMESTAMP WITH TIME ZONE*	The timestamp of when the message was sent (time zone-aware).
Message Type	*TEXT*	The type/category of the message (default if not provided).
Reply To Message ID	*BIGINT*	The ID of the message being replied to.
Media Type	*TEXT*	The media type (e.g., image, video) included in the message.
Mentions	*TEXT*	List of users mentioned in the message (default if not provided).
Hashtags	*TEXT*	List of hashtags included in the message (default if not provided).
Phone Numbers	*TEXT*	List of phone numbers contained in the message (default if not provided).
Emails	*TEXT*	List of email addresses contained in the message (default if not provided).
Is Post	*BOOLEAN*	Indicates whether the message is a channel post (default: false).
Views Count	*INTEGER*	Number of views for the message.
Forwards Count	*INTEGER*	Number of times the message was forwarded (default: 0).
Reactions	*JSONB*	Interactive reactions to the message.
Comments Count	*INTEGER*	Number of comments on the message (default: 0).
Comments	*JSONB*	Collection of comment content (nullable).

News Media

Name	Type	Description
Source	*VARCHAR(255)*	The media outlet that published the news.
Author	*VARCHAR(255)*	The author of the news article.
Publish Time	*DATETIME*	The time when the news was published.
Title	*TEXT*	The title of the news article.
Summary	*TEXT*	A brief introduction or lead-in to the news article.
Body	*MEDIUMTEXT*	The main content of the news article, including rich text and media content.
Link	*TEXT*	The original link to the published news article.

DAO Governance

Discord

Name	Type	Description
DAO Name	*TEXT*	Name of the DAO/community associated with the message.
Channel ID	*BIGINT*	The unique identifier of the Discord channel.
Message ID	*BIGINT*	The unique identifier of the message.
Author ID	*BIGINT*	The ID of the message author.
Author Name	*TEXT*	The username of the message author.
Is Bot	*BOOLEAN*	Indicates if the user is a bot (default: NULL).
Content	*TEXT*	The textual content of the message.
Attachments	*TEXT*	List of attached files/media URLs (default: NULL).
Reactions	*TEXT*	List of user reactions to the message (default: NULL).
Message Type	*TEXT*	The type/category of the message (e.g., text, image).
Timestamp	*TEXT*	Message creation time (ISO format, time zone-aware).
Mentions ID	*BIGINT*	List of user IDs mentioned in the message.
Reference Message ID	*BIGINT*	The ID of the referenced/replied message.
Reference Channel ID	*BIGINT*	The ID of the channel where the referenced message exists.

Discourse

Name	Type	Description
Post_url	*TEXT*	URL of the proposal
Title	*TEXT*	Proposal title
Acitivity_date	*TEXT*	The first post date and last modified date
Replynum	*NUMERIC*	Number of replies
Author	*TEXT*	Creator of the proposal
Category	*TEXT*	Category of the proposal
User_link	*TEXT*	Personal URL of every user
Comment	*TEXT*	Content of the comment
Commenter_ID	*TEXT*	Pseudonym of the commenter
Reply	*TEXT*	Replies to the comments (if any)
Replyer_ID	*TEXT*	Pseudonym of replier
Vote_info	*TEXT*	Pre-vote information on the proposals

Snapshot

Name	Type	Description
Link	*TEXT*	URL of the vote
Title	*TEXT*	Title of the proposal
Content	*TEXT*	Content of the proposal
Info	*TEXT*	Voting information (Voting system, Start date, End date, ID)
Results	*TEXT*	Voting results
Vote_num	*NUMERIC*	Number of voters
Voters	*TEXT*	Voters' ID and voting token Count

Market

Asset Ticking

Updated every 15/60 minutes.

Name	Type	Description
Candle Begin Time	*DATETIME*	The start time of the candlestick period.
Open	*DECIMAL(20,8)*	The opening price at the beginning of the candlestick period.
High	*DECIMAL(20,8)*	The highest price reached during the candlestick period.
Low	*DECIMAL(20,8)*	The lowest price reached during the candlestick period.
Close	*DECIMAL(20,8)*	The closing price at the end of the candlestick period.
Volume	*DECIMAL(20,8)*	The total traded volume of the base asset in the candlestick period.
Quote Asset Volume	*DECIMAL(20,8)*	The total traded volume of the quote asset in the candlestick period.
Number of Trades	*INT*	The number of trades executed during the candlestick period.
Taker Buy Base Asset Volume	*DECIMAL(20,8)*	The total volume of the base asset bought by takers during the candlestick period.
Taker Buy Quote Asset Volume	*DECIMAL(20,8)*	The total volume of the quote asset used by takers to buy the base asset during the candlestick period.
Funding Rate	*DECIMAL(20,8)*	The funding rate for perpetual contracts or futures markets, indicating the cost or reward for holding positions.

Funding Rate

Updated every 15/60 minutes.

Name	Type	Description
Funding Rate	*DECIMAL(20,8)*	The funding rate for perpetual contracts or futures markets, indicating the cost or reward for holding positions.

Metrics

Blockchains

With robust data infrastructure and warehouses, Eurybia bridges the gap between raw blockchain data with smart contracts and projects. We have abstracted the immense and diverse range of projects into one X2Earn model and developed a comprehensive and practical framework for data analysis.

Addresses

Individual-level Address Metrics

Updated regularly.

Name	Description
	Basic Indicators
Generic Metrics	Total number of transactions, trading volume, counterparty; Behavior in other projects
User Profile	Classify/cluster users using rules and machine learning algorithms
Suspicious Activity	Identify robots/wool Party/Guild agent/potential smash
	Smart Money
Payment	Payment to the project (including governance tokens and utility tokens)
Expenditure	Total spending to projects and other users (including governance and utility tokens)
Revenue	Total revenue (including NFT, governance tokens, and utility tokens)
Profit	Profit after expenses
ROI	Income versus expenditure
Payback cycle	Time to get the money back through a project

Group-level Address Metrics

Updated regularly.

Name	Description
Gini coefficient	Fairness, whether there are big crocodiles
Average clustering	Whether inter-address transactions are centralized or decentralized is often used to indicate whether the user group is closely connected
Core-peripheral trading	Whether multiple transactions have taken place between counterparties
Density	It is often used to indicate whether a community has started to actively grow
Big whale - retail intimate degree	The bigger it is, the more likely a big owner is to trade with a big owner. The smaller they are, the more likely they are to trade with retail investors

Smart Contracts

Generic Contract Event Logs

Name	Type	Description
block_number	*INT*	The number of the block where the log was included
block_hash	*STRING*	The hash of the block where the log was included
transaction_index	*INT*	The index of the transaction where the log was included
log_index	*INT*	The index of the log in the transaction
transaction_hash	*STRING*	The hash of the transaction where the log was included
address	*STRING*	The address which generates the log
data	*STRING*	The data of the log
event_signature	*STRING*	The signature of the log
topics	*LIST*	All topics of the log
time_stamp	*DATETIME*	The timestamp when the log was created

Token Event Logs

Name	Type	Description
block_number	*INT*	The number of the block where the transaction was included
transaction_index	*INT*	The index of the transaction within the block
log_index	*INT*	The index of the log entry within the transaction's logs
transaction_hash	*STRING*	The unique hash of the transaction
time_stamp	*DATETIME*	The timestamp of when the transaction was included in the block
token_id	*FLOAT*	A unique identifier for the token (common in NFT transactions)
token_address	*STRING*	The address of the token contract
decimal	*INT*	The number of decimal places the token uses
name	*STRING*	The name of the token or asset
symbol	*STRING*	The symbol of the token
description	*STRING*	A description of the token or asset
amount	*INT*	The quantity of tokens involved in the transaction
token_price	*FLOAT*	The price of the token at the time of the transaction

DeFi

Uniswap Pair Trade Events

Name	Type	Description
block_number	*INT*	Number of the block where the transaction happened
log_index	*INT*	Index of the log event
pool_address	*STRING*	The address of the pool where the trade is taking place
token0_symbol	*STRING*	The token the user wallet is using to swap
token1_symbol	*STRING*	The token that the user is swapping for / the DEX is supplying
price	*FLOAT*	Price of the taker token in WETH at time of the trade
time_stamp	*DATETIME*	Timestamp of the block where the transaction happened
amount0	*INT*	The amount the user is using to swap
amount1	*INT*	The amount the user is receiving for in the swap
sqrtPriceX96	*INT*	the square root of the price of token in terms of another (only for Uniswap v3)
tick	*INT*	Integer that represents the current price point in the pool (only for Uniswap v3)
liquidity	*INT*	The funds provided by users to liquidity pools (only for Uniswap v3)
transaction_hash	*STRING*	Hash of the transaction
sender_address	*STRING*	The wallet initiating the trade
recipient_address	*STRING*	The DEX facilitating the trade
pool_created_time	*DATETIME*	Timestamp of the block where the pool created
created_blocknumber	*INT*	Number of the block where the pool created
created_log_index	*INT*	Index of the log event where the pool created
block_number	*INT*	Number of the block where the transaction happened
log_index	*INT*	Index of the log event
pool_address	*STRING*	The address of the pool where the trade is taking place

Stablecoin

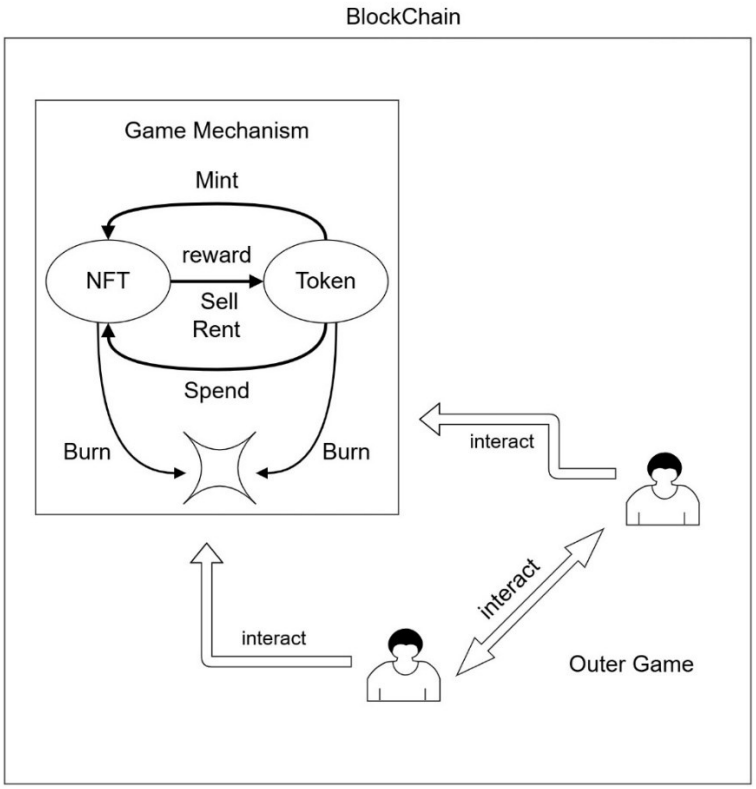
Updated every block.

Name	Type	Description
coin_name	*STRING*	Name of the stablecoin
block_number	*INT*	Number of the block
coin_address	*STRING*	Address of the stable coin
total_supply	*DECIMAL*	Total supply with decimal in current block
total_supply_float	*FLOAT*	Total supply in current block
time_stamp	*DATETIME*	Timestamp of the block

X2Earn Projects

X2Earn User Behaviors

We summarized the user transactions within the projects into seven basic interactions drawn below.



Name	Description
	Basic
block_number	The number of the block where the transaction was included
transaction_index	The index of the transaction within the block
log_index	The index of the log entry within the transaction's logs
transaction_hash	The unique hash of the transaction
Auction	
seller	The address of the seller or creator of the listing (common in gaming dApps)
listing_index	A unique identifier for the listing or auction (common in gaming dApps)
starting_price	The initial price at which the listing or auction started (common in gaming dApps)
ending_price	The final price at which the listing or auction ended
exchange_token	The token used for the transaction or exchange (common in gaming dApps)
duration	The length of time the listing or auction is active (common in gaming dApps)

time_stamp	The timestamp of when the transaction was included in the block
buyer	The address of the buyer who purchased the listing (common in gaming dApps)
kind	The type or category of the transaction (e.g., sale, auction, bid)
payment_token	The token used to make the payment for the listing (common in gaming dApps)
real_price	The actual price paid for the listing, which may include fees or adjustments (common in gaming dApps)
market_fee_percentage	The percentage of the transaction fee taken by the marketplace (common in gaming dApps)
settle_token	The token used for settling the transaction (common in gaming dApps)
settle_price	The price at which the transaction was settled (common in gaming dApps)
assets	A description or list of the assets involved in the transaction
bid_token	The token used for placing a bid in an auction (common in gaming dApps)
bid_price	The price of the bid placed (common in gaming dApps)
	Success Auction
seller_received	The amount the seller received after any fees were deducted (common in gaming dApps)
market_fee_taken	The fee amount taken by the marketplace (common in gaming dApps)
token_id	A unique identifier for the token (common in NFT transactions)
token_address	The address of the token contract
amount	The quantity of tokens involved in the transaction
from_address	The address from which the transaction originated
to_address	The address to which the transaction was sent
total_price_usd	The total price of the transaction is converted to USD
auction_id	A unique identifier for the auction (common in gaming dApps)
success_block	The block number where the transaction was successfully completed (common in gaming dApps)
success_transaction_index	The index of the transaction within the block where it was successfully completed
success_log_index	The index of the log entry for the successful transaction (common in gaming dApps)
success_transaction_hash	The hash of the transaction where the event was successfully completed (common in gaming dApps)
success_time_stamp	The timestamp of when the listing or auction was finished (common in gaming dApps)
	Create Auction

create_block	The timestamp of the successful transaction (common in gaming dApps)
create_transaction_index	The block number where the listing or auction was created (common in gaming dApps)
create_log_index	The index of the log entry for the creation of the listing or auction (common in gaming dApps)
create_transaction_hash	The hash of the transaction where the listing or auction was created (common in gaming dApps)
create_time_stamp	The timestamp of when the listing or auction was created (common in gaming dApps)
	Reward
player	The address of the user or player involved in the transaction (common in gaming dApps)
reward_amount	The number of rewards received by the player (common in gaming dApps)

X2Earn Project Performance

Updated every day.

Name	Description
New users	Project acquire new capabilities
Active users	Daily operation capability
Loyalty	A higher value indicates a better ability to retain customers
User churn rate	A higher value indicates a lower ability to retain customers
User spending and payment	Distribution, proportion, etc.
Total users	Project attractiveness
Life cycle	Expected future user activity
Agreement income	Tokens received at contract address (Types of tokens)
Profit	Profit after expenses
Potential Capacity	Expected future income
	Spending
Protocol expenditure	Expenditure for airdrop, equity issuance and other activities
Expenditure efficiency	Income from expenditures
Customer acquisition cost	Spending leads to user activity
Asset ratio, net value ratio, liquidity, turnover, governance token price estimation, etc.	
Blockchain height, transaction volume, trading volume, gas fees, etc.	

X2Earn Prop Market Metrics

Updated every day.

Name	Description
Buy - sell pressure	The degree of variation in the volume of buyers and sellers
Auction	Volume of pending orders, trading volume
NFT mint	Sources may include breeding, airdrops, etc.
NFT Lending	Volume of pending orders, trading volume
Buy - sell profit	Actual profit on bought and sold NFT (US $)
Breed - sell profit	Actual profit on NFT breeding and sold (US $)
Buy - sell expected profit	Expected profit on purchased and unsold NFT (US $)
Breed - sell expected profit	Expected profit on incubated, unsold NFT (US $)
Unbreed - sell for expected profit	Expected profit on unbreed and unsold NFT (US $)0

Media

Using advanced AI and large language models, Eurybia interprets event details and analyzes public sentiment–positive, negative, or neutral. This provides actionable insights into market reactions and future trends, offering predictive intelligence in the dynamic Web3 and cryptocurrency landscape.

X (Twitter)

Sentiment (per Post per Keyword)

Name	Type	Description
Date	*DATETIME*	The date and time of sentiment analysis.
Tweet ID	*BIGINT*	The unique identifier of the tweet on X (used to query the original link).
Tweet Body	*TEXT*	The complete content of the tweet, including text and metadata.
Name/Symbol/Slug	*VARCHAR(255)*	The name, symbol, or unique identifier (slug) of cryptocurrency or keyword that each post mentioned.
Sentiment	*TEXT*	Sentiment of this tweet towards each keyword. Positive | Negative | Neutral

Keywords' Volume, Sentiment, and Summary

Updated every 15 and 60 minutes, for specific keywords only.

Name	Type	Description
Date	*DATETIME*	The date and time of sentiment analysis.
Name/Symbol/Slug	*VARCHAR(255)*	The name, symbol, or unique identifier (slug) of cryptocurrency or keyword being analyzed.
	Volume	
Total Count	*INT*	The total number of tweets during the period.
	Sentiment	
Negative Count	*INT*	The number of tweets with negative sentiment during the period.
Neutral Count	*INT*	The number of tweets with neutral sentiment during the period.

Positive Count	*INT*	The number of tweets with positive sentiment during the period.
	Summary	
Positive	*TEXT*	Summary of positive sentiment discussions related to the keywords.
Neutral	*TEXT*	Summary of neutral sentiment discussions related to the keywords.
Negative	*TEXT*	Summary of negative sentiment discussions related to the keywords.

Trending Keywords

Updated every 15 and 60 minutes, for the most trending keywords only.

Name	Type	Description
Period Start	*DATETIME*	Start time of the 15-minute statistical period.
Period End	*DATETIME*	End time of the 15-minute statistical period.
Name	*TEXT*	Name of the cryptocurrency/token.
Symbol	*TEXT*	Ticker symbol of the cryptocurrency.
Slug	*TEXT*	Unique identifier slug for the cryptocurrency.
	Growth	
Recent Proportion	*TEXT*	Mention proportion in the current 15-minute period.
Previous Proportion	*TEXT*	Mention proportion in the prior 15-minute period.
Relative Growth	*TEXT*	Relative growth rate of mention proportion.
	Summary	
Positive	*TEXT*	Summary of positive sentiment content from tweets.
Positive Keywords	*TEXT*	Keywords extracted from positive sentiment tweets.
Negative	*TEXT*	Summary of negative sentiment content from tweets.
Negative Keywords	*TEXT*	Keywords extracted from negative sentiment tweets.

Top 10 Events

Updated every hour.

Name	Type	Description
Index	*BIGINT*	Event importance ranking (smaller number = higher importance).
Content	*TEXT*	Summary of the event's content.
Keywords	*TEXT*	All keywords extracted from the event.
Sentiment	*TEXT*	Sentiment analysis result (e.g., Positive, Negative).
Time	*DATETIME*	Timestamp of when the summarization took place.

News Media

Sentiment (per Report per Keyword)

Name	Type	Description
Date	*DATETIME*	The date and time of sentiment analysis.
Name/Symbol/Slug	*VARCHAR (255)*	The name, symbol, or unique identifier (slug) of cryptocurrency or keyword that each post mentioned.
News Body	*TEXT*	The complete content of the news, including text and metadata.
Sentiment	*TEXT*	Sentiment of this tweet towards each keyword. Positive | Negative | Neutral

Keywords' Volume and Sentiment

Updated every 15 and 60 minutes, for specific keywords only.

Name	Type	Description
Date	*DATETIME*	The date and time of sentiment analysis.
Name/Symbol/Slug	*VARCHAR (255)*	The name, symbol, or unique identifier (slug) of cryptocurrency or keyword being analyzed.
Negative Count	*INT*	The amount of news with negative sentiment during the period.
Neutral Count	*INT*	The amount of news with neutral sentiment during the period.
Positive Count	*INT*	The amount of news with positive sentiment during the period.
Total Count	*INT*	The total amount of news during the period.

DAO Governance

Community-level Metrics

Name	Type	Description
DAO Name	*TEXT*	Name of the DAO/community.
Date	*DATETIME*	Date of the activity statistics (YYYY-MM-DD format).
Chat User Count	*BIGINT*	Number of users participating in chats.
Chat Message Count	*BIGINT*	Total number of chat messages.
Chat Structural Flow Hierarchy	*DOUBLE*	Hierarchy metric of chat interaction flow.
Chat Structural Cent Outdegree	*DOUBLE*	Out-degree centrality metric for chat user interactions.
Chat Structural Cent Out closeness	*DOUBLE*	Out-closeness centrality metric for chat user interactions.
Chat Structural Cent Betweenness	*DOUBLE*	Betweenness centrality metric for chat user interactions.
Chat Structural Cluster Coeff	*DOUBLE*	Clustering coefficient of chat interaction networks.
Chat Structural Transitivity	*DOUBLE*	Transitivity metric of chat interaction networks.
Chat User Survivability	*DOUBLE*	Survival probability metric of active chat users.

User-level Metrics

Name	Description	Platform
User token holdings	The number of tokens held by each user during the observation period (considering each blockchain address as one user)	*Ethereum*
User community influence	The social centrality of each user on the Discord platform during the observation period	*Discord*
User status	The level of each user on the Discourse platform during the observation period (the five levels from low to high are ordinary, basic, member, regular and leader)	*Discourse*
User vote count	The number of tokens each user voted on the Snapshot platform during the observation period (one token, one vote)	*Snapshot*
User chat frequency	The number of posts made by users on the Discord platform during the observation period	*Discord*
User retention time	The retention time of each user on the Discord platform during the observation period	*Discord*
User discussion frequency	The number of discussions (posts + comments + replies) of each user on the Discourse platform during the observation period	*Discourse*
User voting frequency	The number of votes each user has cast on the Snapshot platform during the observation period	*Snapshot*

Proposals & Voting Metrics

Name	Description	Platform
Proposal discussion intensity	The number of voters for each proposal on the Snapshot platform during the observation period	*Discourse*
Proposal voting participants	The number of tokens in each proposal voting record on the Snapshot platform during the observation period (one token for one vote)	*Snapshot*
Proposal voting amount	The number of tokens in each proposal voting record on the Snapshot platform during the observation period (one token for one vote)	*Snapshot*
Number of pre-proposals	The total number of proposals raised by the community on the Discourse platform during the observation period	*Discourse*
Number of discussants	The total number of users participating in discussions on the Discourse platform during the observation period	*Discourse*
Number of proposals	The total number of proposals raised by the community on the Snapshot platform during the observation period	*Snapshot*
Number of voters	The total number of users who participated in the voting on the Snapshot platform during the observation period	*Snapshot*
Group size	The sum of the number of active users on Discord, Discourse, and Snapshot during the observation period	*All Platform*

Governance Token Metrics

Name	Description	Platform
Token ownership concentration	Daily average Gini coefficient of the distribution of blockchain address token holdings during the observation period	*Ethereum*
Social network hierarchy	The average daily flow hierarchy degree of the Discord platform user chat network during the observation period	*Discord*
Status centralization	The average daily Gini coefficient of the number of users of each level on the Discourse platform during the observation period	*Discourse*
Deliberation status centralization	The daily average Gini coefficient of the number of users participating in public proposal discussions at each level on the Discourse platform during the observation period	*Discourse*
Voting impact inequality	The average Gini coefficient of the number of tokens voted by members on each proposal on the Snapshot platform during the observation period	*Snapshot*
Smart contract usage rate	Frequency of using smart contracts in governance token transaction records on the Etherscan platform during the observation period	*Ethereum*
Chatbot usage rate	Frequency of chatbot usage on Discord during the observation period	*Discord*
Market capitalization	Average daily market value during the observation period	*Market*
Crypto price	Average daily coin price during the observation period	*Market*
Trading volume	Average daily trading volume during the observation period	*Market*
User retention ratio	The proportion of active users on Discord during the observation period who continue to be active during the next observation period	*Discord*
Team efficiency	Ratio of the number of proposals per month to the total number of proposals during the observation period	*Discourse*
Collective consensus	The average variance of the voting results for each proposal on Snapshot during the observation period (weighted by the number of participants)	*Snapshot*
Participation in Deliberation	The ratio of active proposal discussants to the total number of members on Discourse in the observation period	*Discourse*
Participation in Voting	The proportion of active proposal voters on Snapshot relative to the total number of governance token holders in the observation period	*Snapshot*

Constructiveness	Language that aims to positively move the conversation forward, build consensus, or resolve conflicts. This is achieved by highlighting facts, identifying common ground, or suggesting solutions.	*Discord, Discourse*
Justification	Language that offers evidence or rationale for a claim, including logical reasoning, personal experiences, values, feelings, data, links, facts, or even brief explanations.	*Discord, Discourse*
Reciprocity	Language that asks for opinions, suggestions, or information.	*Discord, Discourse*
Empathy & Respect	Language that acknowledges others' viewpoints or generally shows respect and support to others.	*Discord, Discourse*
Incivility	Language that is abusive, racist, threatening, or exaggerating.	*Discord, Discourse*
Diversity of opinions	The topic diversity of user discussion content during the observation period	*Discord, Discourse*
Proposal on-chain rate	The proportion of proposals voted on-chain to all proposals during the observation period	*Snapshot*

Market

By leveraging raw transactional data, Eurybia calculates a wide range of actionable trading factors designed to provide deeper insights and serve as valuable references for trading activities. These factors may encompass market trends, liquidity analysis, volatility measures, and other critical indicators that enable traders to make data-driven decisions.

Market Dynamics

Updated every 15 minutes.

Name	Type	Description
Asset Price	*DECIMAL(20,8)*	Tracks changes in the asset's price over a specified period.
Region Price Change: Asia	*DECIMAL(5,2)*	Price change during Asia working hours.
Region Price Change: Europe	*DECIMAL(5,2)*	Price change during EU working hours.
Region Price Change: USA	*DECIMAL(5,2)*	Price change during US working hours.
Price Drawdown from ATH	*DECIMAL(5,2)*	Percentage decrease of the asset's price from its previous all-time high.
Market Cap	*DECIMAL(20,8)*	Total value of a cryptocurrency obtained by multiplying the current supply by the current USD price.
Realized Cap	*DECIMAL(20,8)*	Sum of the values of the last transaction/transfer of assets held by all addresses.
Realized Cap by Wallet Size	*JSON*	Categorization of digital assets based on wallet sizes to show wealth distribution.
Total Volume	*DECIMAL(20,8)*	Cumulative amount traded for the pair over a specific period.
Trading Volume	*DECIMAL(20,8)*	Total trading volume of the asset over a specific period.
Total Transactions	*INT*	Total number of transactions involving the trading pair.
5M Transactions	*INT*	Number of transactions in a 5-minute interval.

5M Buys	*INT*	Number of buy transactions in a 5-minute interval.
5M Sells	*INT*	Number of sell transactions in a 5-minute interval.

Exchange Capital Dynamics

Updated every 15 minutes.

Name	Type	Description
Exchange Balance (Total)	*DECIMAL(20,8)*	Total coins held on exchange addresses.
Exchange Balance (Percent)	*DECIMAL(5,2)*	Percentage of supply held on exchange addresses.
Exchange Deposits	*INT*	Count of deposits to exchange addresses.
Exchange Withdrawals	*INT*	Count of withdrawals from exchange addresses.
Exchange Inflow Volume (Total)	*DECIMAL(20,8)*	Total volume of coins flowing into exchanges.
Exchange Outflow Volume (Total)	*DECIMAL(20,8)*	Total volume of coins flowing out of exchanges.
Exchange NetFlow Volume	*DECIMAL(20,8)*	Net volume difference between inflows and outflows.

User Dynamics

Updated every 15 minutes.

Name	Type	Description
Unique Makers	*INT*	Distinct wallets that have either bought or sold the pair.
Spent Volume in Profit by LTH/STH	*DECIMAL(20,8)*	Spent Volume in Profit categorized by long-term and short-term holders.
Spent Volume in Profit by Wallet Size	*JSON*	Spent Volume in Profit categorized by wallet sizes.
LTH Profit to Exchange (Volume)	*DECIMAL(20,8)*	Volume of coins transferred from long-term holders in profit to exchanges.

LTH Loss to Exchange (Volume)	*DECIMAL(20,8)*	Volume of coins transferred from long-term holders in loss to exchanges.
STH Profit to Exchange (Volume)	*DECIMAL(20,8)*	Volume of coins transferred from short-term holders in profit to exchanges.
STH Loss to Exchange (Volume)	*DECIMAL(20,8)*	Volume of coins transferred from short-term holders in loss to exchanges.
Whale Deposits	*DECIMAL(20,8)*	Volume of coins deposited by whales to exchanges.
Whale Withdrawals	*DECIMAL(20,8)*	Volume of coins withdrawn by whales from exchanges.

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