

White paper drafted under the European Markets in Crypto- Assets Regulation (EU) 2023/1114 for FFG RCGXTQ3G0

Preamble

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01. Date of notification

2025-10-14

02. Statement in accordance with Article 6(3) of Regulation (EU) 2023/1114

This crypto-asset white paper has not been approved by any competent authority in any Member State of the European Union. The person seeking admission to trading of the crypto-asset is solely responsible for the content of this crypto-asset white paper.

03. Compliance statement in accordance with Article 6(6) of Regulation (EU) 2023/1114

This crypto-asset white paper complies with Title II of Regulation (EU) 2023/1114 of the European Parliament and of the Council and, to the best of the knowledge of the management body, the information presented in the crypto-asset white paper is fair, clear and not misleading and the crypto-asset white paper makes no omission likely to affect its import.

04. Statement in accordance with Article 6(5), points (a), (b), (c), of Regulation (EU) 2023/1114

The crypto-asset referred to in this crypto-asset white paper may lose its value in part or in full, may not always be transferable and may not be liquid.

05. Statement in accordance with Article 6(5), point (d), of Regulation (EU) 2023/1114

Since the Metis token has multiple functions and does not “exclusively” provide access to a good or service supplied by its issuer only, it does not qualify as a “utility token” within the meaning of the MiCAR within the definition of Article 3, 1. (9).

06. Statement in accordance with Article 6(5), points (e) and (f), of Regulation (EU) 2023/1114

The crypto-asset referred to in this white paper is not covered by the investor compensation schemes under Directive 97/9/EC of the European Parliament and of the Council or the deposit guarantee schemes under Directive 2014/49/EU of the European Parliament and of the Council.

Summary

07. Warning in accordance with Article 6(7), second subparagraph, of Regulation (EU) 2023/1114

Warning: This summary should be read as an introduction to the crypto-asset white paper. The prospective holder should base any decision to purchase this crypto-asset on the content of the crypto-asset white paper as a whole and not on the summary alone. The offer to the public of this crypto-asset does not constitute an offer or solicitation to purchase financial instruments and any such offer or solicitation can be made only by means of a prospectus or other offer documents pursuant to the applicable national law. This crypto-asset white paper does not constitute a prospectus as referred to in Regulation (EU) 2017/1129 of the European Parliament and of the Council or any other offer document pursuant to union or national law.

08. Characteristics of the crypto-asset

The Metis tokens referred to in this white paper are crypto-assets other than EMTs and ARTs, and are issued on the Metis Andromeda and Ethereum network (2025-09-22 and according to DTI FFG shown in F.14) with a total number of 10,000,000 tokens.

The first activity on Metis Andromeda can be identified on 2021-05-18.

The first activity on Ethereum can be identified on 2021-05-11 (see transaction: <https://etherscan.io/tx/0xa66b03be0a1a42077b08b7c40fc7b834917101baf8c9fb44bd59c05195af07e2>).

09. Information about the quality and quantity of goods or services to which the utility tokens give access and restrictions on the transferability

Not applicable.

10. Key information about the offer to the public or admission to trading

This white paper concerns the admission to trading of the crypto-asset "Metis" by "Metis Labs Inc" in accordance to Article 5 of REGULATION (EU) 2023/1114 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 2023 on markets in crypto-assets, and amending Regulations (EU) No 1093/2010 and (EU) No 1095/2010 and Directives 2013/36/EU and (EU) 2019/1937.

The following platforms are in scope for this while drafting up this white paper: Payward Global Solutions Limited. Further platforms are also being sought for this purpose in the future.

Part A – Information about the offeror or the person seeking admission to trading

A.1 Name

Metis Labs Inc

A.2 Legal form

6TPA

A.3 Registered address

PA, Torre Advanced Building, First Floor, Ricardo Arias Street, Panama City

A.4 Head office

Not applicable.

A.5 Registration date

2022-04-01

A.6 Legal entity identifier

Not available.

A.7 Another identifier required pursuant to applicable national law

Company registration no.: 155720739

A.8 Contact telephone number

Not available.

A.9 E-mail address

support@metis.io; tom@metis.io

A.10 Response time (Days)

030

A.11 Parent company

Metis Labs Foundation (formerly known as MetisDAO Foundation) (the "Foundation")

A.12 Members of the management body

Name	Position	Address
Veronica Camano	Director and Secretary	PA, Torre Advanced Building, First Floor, Ricardo Arias Street, Panama City
Maria Elena Mata Donado De Toral	Director and Treasurer	PA, Torre Advanced Building, First Floor, Ricardo Arias Street, Panama City
Iramirus Esther Mc Lean Del Cid	Director and President	PA, Torre Advanced Building, First Floor, Ricardo Arias Street, Panama City

A.13 Business activity

Technology development and blockchain infrastructure services. Primary activities include development and maintenance of the Metis Layer 2 blockchain platform, ecosystem support and developer relations, community governance facilitation, and regulatory compliance management.

A.14 Parent company business activity

Metis Labs Foundation is a non-profit organization that is focused on building a hub for the Web3 community & giving equal opportunity to everyone to receive education, create a startup or an EcoNode and get it funded. In regard to the specific crypto-asset, the Foundation supports with community management of the decentralized network.

A.15 Newly established

No

A.16 Financial condition for the past three years

Metis Labs Inc. was incorporated on April 1, 2022 with an initial share capitalization of 10,000 shares of USD \$1.00 each. All 10,000 shares were issued in favor of MetisDAO Foundation (currently known as Metis Labs Foundation, the "Foundation"), representing an initial capitalization of \$10,000. Since the incorporation, the person seeking admission to trading has maintained a stable financial condition. There is no outstanding debt or material liabilities.

A.17 Financial condition since registration

Not applicable.

Part B – Information about the issuer, if different from the offeror or person seeking admission to trading**B.1 Issuer different from offeror or person seeking admission to trading**

Yes

B.2 Name

Metis Labs Inc plays an important role in supporting the ongoing development of the ecosystem and contributes to its long-term advancement. However, because the crypto-assets are issued from the network, Metis Labs Inc does not hold a formally defined role as the issuer of the crypto-asset. The crypto-asset is therefore to be regarded as decentralized, without a designated issuer formally involved in its issuance.

B.3 Legal form

Not applicable.

B.4. Registered address

Not applicable.

B.5 Head office

Not applicable.

B.6 Registration date

Not applicable.

B.7 Legal entity identifier

Not applicable.

B.8 Another identifier required pursuant to applicable national law

Not applicable.

B.9 Parent company

Not applicable.

B.10 Members of the management body

Not applicable.

B.11 Business activity

Not applicable.

B.12 Parent company business activity

Not applicable.

Part C – Information about the operator of the trading platform in cases where it draws up the crypto-asset white paper and information about other persons drawing the crypto-asset white paper pursuant to Article 6(1), second subparagraph, of Regulation (EU) 2023/1114

C.1 Name

Not applicable.

C.2 Legal form

Not applicable.

C.3 Registered address

Not applicable.

C.4 Head office

Not applicable.

C.5 Registration date

Not applicable.

C.6 Legal entity identifier

Not applicable.

C.7 Another identifier required pursuant to applicable national law

Not applicable.

C.8 Parent company

Not applicable.

C.9 Reason for crypto-Asset white paper Preparation

Not applicable.

C.10 Members of the Management body

Not applicable.

C.11 Operator business activity

Not applicable.

C.12 Parent company business activity

Not applicable.

C.13 Other persons drawing up the crypto-asset white paper according to Article 6(1), second subparagraph, of Regulation (EU) 2023/1114

Crypto Risk Metrics GmbH, Lange Reihe 73, 20099 Hamburg

C.14 Reason for drawing the white paper by persons referred to in Article 6(1), second subparagraph, of Regulation (EU) 2023/1114

Crypto Risk Metrics GmbH, Lange Reihe 73, 20099 Hamburg, was mandated to support the process of drawing up the white paper by the person mentioned in Part A.

Part D – Information about the crypto-asset project**D.1 Crypto-asset project name**

Long Name: "Metis Token", Short Name: "Metis" according to the Digital Token Identifier Foundation (www.dtif.org, DTI see F.13, FFG DTI see F.14 as of 2025-09-22).

D.2 Crypto-assets name

See F.13.

D.3 Abbreviation

See F.13.

D.4 Crypto-asset project description

Metis is a Layer 2 blockchain platform that extends Ethereum capabilities through advanced scaling technology. The project implements a decentralized sequencer network, parallel execution framework, and optimized database systems (MetisDB) to provide high-throughput, low-cost blockchain infrastructure. The platform maintains full

EVM compatibility while offering significant performance improvements over Ethereum mainnet.

D.5 Details of all natural or legal persons involved in the implementation of the crypto-asset project

Name	Position	Address
Veronica Camano	Director and Secretary of Metis Labs Inc Member and President of Metis Labs Foundation	VG, Vistra Corporate Services Centre, Wickhams Cay II, Road Town, Tortola, VG1110, British Virgin Islands
Zuleyka Aleman Calderon	Member and Treasurer of Metis Labs Foundation	VG, Vistra Corporate Services Centre, Wickhams Cay II, Road Town, Tortola, VG1110, British Virgin Islands
Iramirus Esther Mc Lean Del Cid	Director and President of Metis Labs Inc Member and Secretary of Metis Labs Foundation	VG, Vistra Corporate Services Centre, Wickhams Cay II, Road Town, Tortola, VG1110, British Virgin Islands
Maria Elena Mata Donado De Toral	Director and Treasurer of Metis Labs Inc	VG, Vistra Corporate Services Centre, Wickhams Cay II, Road Town, Tortola, VG1110, British Virgin Islands
Metis Labs Inc	Research and Development Labs	VG, Vistra Corporate Services Centre, Wickhams Cay II, Road

		Town, Tortola, VG1110, British Virgin Islands
Elena Sinelnikova	Co-Founder, Decentralized Coordinator of People	VG, Vistra Corporate Services Centre, Wickhams Cay II, Road Town, Tortola, VG1110, British Virgin Islands
Kevin Liu	Co-Founder, Decentralized Coordinator of Strategy	VG, Vistra Corporate Services Centre, Wickhams Cay II, Road Town, Tortola, VG1110, British Virgin Islands
Yuan Su	Decentralized Coordinator of Innovation	VG, Vistra Corporate Services Centre, Wickhams Cay II, Road Town, Tortola, VG1110, British Virgin Islands
Tom Ngo	CEO of Metis	VG, Vistra Corporate Services Centre, Wickhams Cay II, Road Town, Tortola, VG1110, British Virgin Islands

D.6 Utility Token Classification

The token does not classify as a utility token.

D.7 Key Features of Goods/Services for Utility Token Projects

Not applicable.

D.8 Plans for the token

The Metis network was introduced with the launch of its core infrastructure and mainnet (Phase 1, completed). Following this, development has continued with the establishment of a decentralized sequencer network (Phase 2, under implementation).

At present, work is ongoing on the optimization of a parallel execution framework (Phase 3, in development). Looking ahead, further milestones include advanced cross-chain interoperability (Phase 4, planned).

These steps are designed to expand the technical capacities of the Metis ecosystem. However, the precise timing, scope, and market impact of these developments remain uncertain and are dependent on technological progress, regulatory environments, and external market conditions. Consequently, no assurances or guarantees can be provided that the roadmap will be realized as described.

D.9 Resource allocation

At the time of launch in May 2021, the allocation of Metis token was divided across several categories. Approximately 15.5% was reserved for investors, 6% for airdrop distributions, 4% for the treasury, 7% for the team, 4.5% for advisors and key partners, and 10.7% for Community Development including builder mining rewards and grants. 0.3% of the supply was allocated to Public Sale, 6% for Liquidity and 46% for Sequencers mining and Ecosystem Development Fund.

As of today, approximately 6.6 million tokens are circulating. Future allocation of project resources, if any, will be determined through the Metis governance framework and applied toward ecosystem development, network maintenance, and community incentives in line with the Foundation's public mandate.

The temporary token distribution can be traced on-chain, on Metis Andromeda:

<https://andromeda-explorer.metis.io/token/0xDeadDeAddeAddEAddeadDEaDDEAdDe-aDDeAD0000?tab=holders>

On Ethereum:

<https://etherscan.io/token/0x9e32b13ce7f2e80a01932b42553652e053d6ed8e#balances>

The investor must be aware that a public address cannot necessarily be assigned to a single person or entity, which limits the ability to determine exact economic influence or future actions. Token distribution changes can negatively impact the investor.

D.10 Planned use of Collected funds or crypto-Assets

Not applicable, as this white paper was drawn up for the admission to trading and not for collecting funds for the crypto-asset-project.

Part E – Information about the offer to the public of crypto-assets or their admission to trading

E.1 Public offering or admission to trading

The white paper concerns the admission to trading (i. e. ATTR).

E.2 Reasons for public offer or admission to trading

The crypto asset is to be listed on the platforms: Payward Global Solutions Limited. Additional platforms aren't excluded in the future.

E.3 Fundraising target

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.4 Minimum subscription goals

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.5 Maximum subscription goals

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.6 Oversubscription acceptance

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.7 Oversubscription allocation

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.8 Issue price

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.9 Official currency or any other crypto-assets determining the issue price

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.10 Subscription fee

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.11 Offer price determination method

Once the token is admitted to trading its price will be determined by demand (buyers) and supply (sellers).

E.12 Total number of offered/traded crypto-assets

The total supply of the crypto-asset is set at 10,000,000 units. Investors should note that changes in the token supply can have a negative impact. The effective amount of tokens available on the market depends on the number of tokens released by the issuer or other parties at any given time, as well as potential reductions through token “burning.” As a result, the circulating supply may differ from the total supply.

E.13 Targeted holders

ALL

E.14 Holder restrictions

The Holder restrictions are subject to the rules applicable to the Crypto Asset Service Provider as well as additional restrictions the Crypto Asset Service Providers might set in force.

E.15 Reimbursement notice

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.16 Refund mechanism

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.17 Refund timeline

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.18 Offer phases

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.19 Early purchase discount

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.20 Time-limited offer

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.21 Subscription period beginning

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.22 Subscription period end

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.23 Safeguarding arrangements for offered funds/crypto- Assets

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.24 Payment methods for crypto-asset purchase

The payment methods are subject to the respective capabilities of the Crypto Asset Service Provider listing the crypto-asset.

E.25 Value transfer methods for reimbursement

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.26 Right of withdrawal

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.27 Transfer of purchased crypto-assets

The transfer of purchased crypto-assets are subject to the respective capabilities of the Crypto Asset Service Provider listing the crypto-asset.

E.28 Transfer time schedule

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

E.29 Purchaser's technical requirements

The technical requirements that the purchaser is required to fulfil to hold the crypto-assets of purchased crypto-assets are subject to the respective capabilities of the Crypto Asset Service Provider listing the crypto-asset.

E.30 Crypto-asset service provider (CASP) name

Not applicable.

E.31 CASP identifier

Not applicable.

E.32 Placement form

Not applicable.

E.33 Trading platforms name

Payward Global Solutions Limited. Other platforms are also planned for future listing.

E.34 Trading platforms Market identifier code (MIC)

Payward Global Solutions Limited: PGSL.

Other platforms are also planned for future listing.

E.35 Trading platforms access

This depends on the trading platform listing the asset.

E.36 Involved costs

This depends on the trading platform listing the asset. Investors should always review the current fee structures of platforms before making trading decisions. Furthermore, costs may occur for making transfers out of the platform (i. e. "gas costs" for blockchain network use that may exceed the value of the crypto-asset itself).

E.37 Offer expenses

Not applicable, as this crypto-asset white paper concerns the admission to trading and not the offer of the token to the public.

E.38 Conflicts of interest

MiCAR-compliant Crypto Asset Service Providers shall have strong measurements in place in order to manage conflicts of interests. Due to the broad audience this white-paper is addressing, potential investors should always check the conflicts of Interest policy of their respective counterparty.

E.39 Applicable law

Not applicable, as it is referred to on "offer to the public" and in this white-paper, the admission to trading is sought.

E.40 Competent court

Not applicable, as it is referred to on "offer to the public" and in this white-paper, the admission to trading is sought.

Part F – Information about the crypto-assets

F.1 Crypto-asset type

The crypto-asset described in the white paper is classified as a crypto-asset under the Markets in Crypto-Assets Regulation (MiCAR) but does not qualify as an electronic money token (EMT) or an asset-referenced token (ART). It is a digital representation of value that can be stored and transferred using distributed ledger technology (DLT) or similar technology, without embodying or conferring any rights to its holder.

The asset does not aim to maintain a stable value by referencing an official currency, a basket of assets, or any other underlying rights. Instead, its valuation is entirely market-driven, based on supply and demand dynamics, and not supported by a stabilization mechanism. It is neither pegged to any fiat currency nor backed by any external assets, distinguishing it clearly from EMTs and ARTs.

Furthermore, the crypto-asset is not categorized as a financial instrument, deposit, insurance product, pension product, or any other regulated financial product under EU law. It does not grant financial rights, voting rights, or any contractual claims to its holders, ensuring that it remains outside the scope of regulatory frameworks applicable to traditional financial instruments.

F.2 Crypto-asset functionality

The Metis token is intended to operate as the native token of the Metis Layer 2 network. It is designed for transaction fee payments, governance participation in protocol decisions, staking for sequencer operations, and ecosystem incentives and rewards.

These intended functionalities reflect the issuer's current plans and statements. The actual scope of use, the enforceability of governance rights, and the long-term role of the token within the ecosystem cannot be assured. Future developments depend on technological progress, regulatory frameworks, and market conditions, and may therefore differ materially from the issuer's present description.

F.3 Planned application of functionalities

See D.8.

A description of the characteristics of the crypto asset, including the data necessary for classification of the crypto-asset white paper in the register referred to in Article 109 of Regulation (EU) 2023/1114, as specified in accordance with paragraph 8 of that Article

F.4 Type of crypto-asset white paper

The white paper type is "other crypto-assets" (i. e. "OTHR").

F.5 The type of submission

The white paper submission type is "NEWT", which stands for new token.

F.6 Crypto-asset characteristics

The tokens are crypto-assets other than EMTs and ARTs, which are available on the Metis Andromeda and Ethereum network. The tokens are fungible (up to 18 digits after the decimal point). The tokens are a digital representation of value, and have no inherent rights attached as well as no intrinsic utility.

F.7 Commercial name or trading name

See F.13.

F.8 Website of the issuer

<https://www.metis.io/>

F.9 Starting date of offer to the public or admission to trading

2025-11-11

F.10 Publication date

2025-11-11

F.11 Any other services provided by the issuer

It is not possible to exclude the possibility that the issuer of the token provides or will provide other services not covered by Regulation (EU) 2023/1114 (i.e. MiCAR).

F.12 Language or languages of the crypto-asset white paper

EN

F.13 Digital token identifier code used to uniquely identify the crypto-asset or each of the several crypto assets to which the white paper relates, where available

GML246D6S; PW1SD8FKL; 90ZSVQ1JC

F.14 Functionally fungible group digital token identifier, where available

RCGXTQ3G0

F.15 Voluntary data flag

Mandatory.

F.16 Personal data flag

The white paper does contain personal data.

F.17 LEI eligibility

The issuer should be eligible for a Legal Entity Identifier.

F.18 Home Member State

Ireland

F.19 Host Member States

Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden

Part G – Information on the rights and obligations attached to the crypto-assets

G.1 Purchaser rights and obligations

There are no rights or obligations attached for/of the purchaser.

G.2 Exercise of rights and obligations

As the token grants neither rights nor obligations, there are no procedures and conditions for the exercise of these rights applicable.

G.3 Conditions for modifications of rights and obligations

As the token grants neither rights nor obligations, there are no conditions under which the rights and obligations may be modified applicable. An adjustment of the technical infrastructure necessary to exercise the promised governance rights, declining functionality due to dilution, changing rights within the voting platforms, and all other adverse effects for investors may occur at any time.

G.4 Future public offers

This white paper refers to admission to trading. The issuer reserves the right to make further offers in the future. This means that future public offers cannot be ruled out, although there are no current plans to do so.

G.5 Issuer retained crypto-assets

At the time of launch in May 2021, the allocation of Metis token was divided across several categories. Approximately 15.5% was reserved for investors, 6% for airdrop distributions, 4% for the treasury, 7% for the team, 4.5% for advisors and key partners, and 10.7% for Community Development including builder mining rewards and grants. 0.3% of the supply was allocated to Public Sale, 6% for Liquidity and 46% for Sequencers mining and Ecosystem Development Fund.

As of today, approximately 6.6 million tokens are circulating. Future allocation of project resources, if any, will be determined through the Metis governance framework and applied toward ecosystem development, network maintenance, and community incentives in line with the Foundation's public mandate.

As of today, approximately 6.6 million tokens are circulating. Although there is no formal issuer, certain allocations representing approximately 40% of the total token supply can, in a broader interpretation, be considered issuer-retained to the extent that they are reserved for future circulation by the network.

The temporary token distribution can be traced on-chain, on Metis Andromeda:

<https://andromeda-explorer.metis.io/token/0xDeadDeAddeAddEAddeadDEaDDEAdDe-aDDeAD0000?tab=holders>

On Ethereum:

<https://etherscan.io/token/0x9e32b13ce7f2e80a01932b42553652e053d6ed8e#balances>

The investor must be aware that a public address cannot necessarily be assigned to a single person or entity, which limits the ability to determine exact economic influence or future actions. Token distribution changes can negatively impact the investor.

G.6 Utility token classification

No

G.7 Key features of goods/services of utility tokens

Not applicable.

G.8 Utility tokens redemption

Not applicable.

G.9 Non-trading request

The admission to trading is sought.

G.10 Crypto-assets purchase or sale modalities

Not applicable, as this white paper is written to support admission to trading and not for the initial offer to the public.

G.11 Crypto-assets transfer restrictions

The crypto-assets as such do not have any transfer restrictions and are generally freely transferable. The Crypto Asset Service Providers can impose their own restrictions in agreements they enter with their clients. The Crypto Asset Service Providers may impose restrictions to buyers and sellers in accordance with applicable laws and internal policies and terms.

G.12 Supply adjustment protocols

No, there are no fixed protocols that can increase or decrease the supply implemented as of 2025-09-26. Also, it is possible to decrease the circulating supply, by transferring crypto-assets to so called "burn-addresses", which are addresses that render the crypto-asset "non-transferable" after sent to those addresses.

G.13 Supply adjustment mechanisms

For the crypto-asset in scope, the supply is limited to 10,000,000 tokens. Investors should note that changes in the token supply can have a negative impact.

G.14 Token value protection schemes

No, the token does not have value protection schemes.

G.15 Token value protection schemes description

Not applicable.

G.16 Compensation schemes

No, the token does not have compensation schemes.

G.17 Compensation schemes description

Not applicable.

G.18 Applicable law

Applicable law likely depends on the location of any particular transaction with the token.

G.19 Competent court

Competent court likely depends on the location of any particular transaction with the token.

Part H – information on the underlying technology

H.1 Distributed ledger technology (DTL)

See F.13.

H.2 Protocols and technical standards

The crypto asset that is the subject of this white paper is available on multiple DLT networks. These include: Metis Andromeda and Ethereum. In general, when evaluating crypto assets, the total number of tokens issued across different networks must always be taken into account, as spillover effects can be adverse for investors.

The following applies to Metis Andromeda:

Metis Andromeda is built on the Optimistic Rollup protocol and integrates fully with the Ethereum Virtual Machine (EVM). In addition to pure optimistic rollups, Metis uses decentralized Sequencers and Verifiers that operate on their own PoS consensus mechanism (staking METIS). Metis Andromeda follows Ethereum's widely adopted ERC token standards and development tools, which ensures that applications and smart contracts designed for Ethereum can be deployed with minimal adjustments. The protocol uses a modular design that emphasizes compatibility, scalability, and interoperability within the Ethereum ecosystem. By maintaining alignment with established standards, Metis enables seamless integration with wallets, developer frameworks, and decentralized applications, thereby lowering the barrier for adoption and migration.

The following applies to Ethereum:

The crypto-asset operates on a well-defined set of protocols and technical standards that are intended to ensure its security, decentralization, and functionality. It is running on the Ethereum blockchain. Below are some of the key protocols and technical standards:

1. Network Protocols

The crypto-asset follows a decentralized, peer-to-peer (P2P) protocol where nodes communicate over the crypto-asset's DevP2P protocol using RLPx for data encoding.

- Transactions and smart contract execution are secured through Proof-of-Stake (PoS) consensus.
- Validators propose and attest blocks in Ethereum's Beacon Chain, finalized through Casper FFG.
- The Ethereum Virtual Machine (EVM) executes smart contracts using Turing-complete bytecode.

2. Transaction and Address Standards

crypto-asset Address Format: 20-byte addresses derived from Keccak-256 hashing of public keys.

Transaction Types:

- Legacy Transactions (pre-EIP-1559)
- Type 0 (Pre-EIP-1559 transactions)
- Type 1 (EIP-2930: Access list transactions)
- Type 2 (EIP-1559: Dynamic fee transactions with base fee burning)

The Pectra upgrade introduces EIP-7702, a transformative improvement to account abstraction. This allows externally owned accounts (EOAs) to temporarily act as smart contract wallets during a transaction. It provides significant flexibility, enabling functionality such as sponsored gas payments and batched operations without changing the underlying account model permanently.

3. Blockchain Data Structure & Block Standards

- the crypto-asset's blockchain consists of accounts, smart contracts, and storage states, maintained through Merkle Patricia Trees for efficient verification.

Each block contains:

- Block Header: Parent hash, state root, transactions root, receipts root, timestamp, gas limit, gas used, proposer signature.
- Transactions: Smart contract executions and token transfers.
- Block Size: No fixed limit; constrained by the gas limit per block (variable over time). In line with Ethereum's scalability roadmap, Pectra includes EIP-7691, which increases the maximum number of "blobs" (data chunks introduced with EIP-4844) per block. This change significantly boosts the data availability layer used by rollups, supporting cheaper and more efficient Layer 2 scalability.

4. Upgrade & Improvement Standards

Ethereum follows the Ethereum Improvement Proposal (EIP) process for upgrades.

H.3 Technology used

The crypto asset that is the subject of this white paper is available on multiple DLT networks. These include: Metis Andromeda and Ethereum. In general, when evaluating

crypto assets, the total number of tokens issued across different networks must always be taken into account, as spillover effects can be adverse for investors.

The following applies to Metis Andromeda:

The core technology behind Metis Andromeda is a combination of an Optimistic Rollup implementation, which scales Ethereum by executing transactions off-chain, bundling them into batches, and submitting compressed data to Ethereum Layer 1 for settlement. Additionally, Metis Andromeda runs a PoS consensus mechanisms based on staking Metis token, to operate a decentralized network of Sequencers and Verifiers. This approach significantly reduces transaction costs and improves throughput compared to Ethereum mainnet alone, while removing reliance on a single sequencers (which is the case for many other rollups).

Metis introduces EVM equivalence, allowing existing Ethereum-based applications to run on Andromeda without modification, while also planning for advanced features such as a decentralized sequencer pool. This pool will distribute sequencing responsibilities across multiple participants to mitigate centralization risks.

The following applies to Ethereum:

1. Decentralized Ledger: The Ethereum blockchain acts as a decentralized ledger for all token transactions, with the intention to preserving an unalterable record of token transfers and ownership to ensure both transparency and security.
2. Private Key Management: To safeguard their token holdings, users must securely store their wallet's private keys and recovery phrases.
3. Cryptographic Integrity: Ethereum employs elliptic curve cryptography to validate and execute transactions securely, intended to ensure the integrity of all transfers. The Keccak-256 (SHA-3 variant) Hashing Algorithm is used for hashing and address generation. The crypto-asset uses ECDSA with secp256k1 curve for key generation and digital signatures. Next to that, BLS (Boneh-Lynn-Shacham) signatures are used for validator aggregation in PoS.

H.4 Consensus mechanism

The crypto asset that is the subject of this white paper is available on multiple DLT networks. These include: Metis Andromeda and Ethereum. In general, when evaluating crypto assets, the total number of tokens issued across different networks must always be taken into account, as spillover effects can be adverse for investors.

The following applies to Metis Andromeda:

Metis Andromeda leverages the security and finality of Ethereum Layer 1, inheriting its Proof-of-Stake consensus mechanism. On Layer 2, transactions operate similar to an optimistic rollup but additionally running another PoS consensus based on Metis token to remove centralization risk with regard to sequencers. Assumptions of validity are enforced by other node types called Verifiers.

Metis aims to further reduce the risk of centralization by establishing a decentralized sequencer pool, where multiple operators validate and order transactions.

The following applies to Ethereum:

The crypto-asset's Proof-of-Stake (PoS) consensus mechanism, introduced with The Merge in 2022, replaces mining with validator staking. Validators must stake at least 32 ETH; every block, a validator is randomly chosen to propose the next block. Once proposed, the other validators verify the block's integrity. The network operates on a slot and epoch system, where a new block is proposed every 12 seconds, and finalization occurs after two epochs (~12.8 minutes) using Casper-FFG. The Beacon Chain coordinates validators, while the fork-choice rule (LMD-GHOST) ensures the chain follows the heaviest accumulated validator votes. Validators earn rewards for proposing and verifying blocks, but face slashing for malicious behavior or inactivity. PoS aims to improve energy efficiency, security, and scalability, with future upgrades like Proto-Danksharding enhancing transaction efficiency.

H.5 Incentive mechanisms and applicable fees

The crypto asset that is the subject of this white paper is available on multiple DLT networks. These include: Metis Andromeda and Ethereum. In general, when evaluating

crypto assets, the total number of tokens issued across different networks must always be taken into account, as spillover effects can be adverse for investors.

The following applies to Metis Andromeda:

Transactions on Metis Andromeda incur gas fees paid in Metis tokens. Metis Andromeda's own PoS also runs on Metis token, so sequencers have to stake a minimum amount to participate in the consensus algorithm.

In addition to transaction-based incentives, Metis runs ecosystem programs such as Builder Mining Rewards, which encourage developers and projects to deploy on Andromeda by providing retroactive rewards based on usage and activity. This mechanism fosters long-term ecosystem growth and adoption.

The following applies to Ethereum:

The crypto-asset's PoS system secures transactions through validator incentives and economic penalties. Validators stake at least 32 ETH and earn rewards for proposing blocks, attesting to valid ones, and participating in sync committees. Rewards are paid in newly issued ETH and transaction fees. Under EIP-1559, transaction fees consist of a base fee, which is burned to reduce supply, and an optional priority fee (tip) paid to validators. Validators face slashing if they act maliciously and incur penalties for inactivity. This system aims to increase security by aligning incentives while making the crypto-asset's fee structure more predictable and deflationary during high network activity.

H.6 Use of distributed ledger technology

No. DLT not operated by the issuer, offeror, a person seeking admission to trading or a third-party acting on the issuer's behalf. The Metis token operates on the Metis Andromeda network, a decentralized, permissionless Layer-2 blockchain built on Ethereum. The issuer does not operate or control the distributed ledger technology. Operation and validation of the networks are carried out by independent participants through decentralized consensus mechanisms.

H.7 DLT functionality description

The Metis Andromeda network functions as a Layer 2 infrastructure built on top of Ethereum. It employs rollup technology to process transactions off-chain before submitting aggregated data back to Ethereum for settlement. Consensus is achieved through a Proof-of-Stake mechanism that coordinates sequencers and verifiers. Incentives are provided in the form of transaction fees and staking rewards.

While the network is designed to improve scalability, reduce transaction costs, and maintain interoperability with Ethereum, its long-term functionality and resilience depend on ongoing technical development and external conditions. No assurance can be given that the system will operate as intended at all times.

H.8 Audit

As we are understanding the question relating to "technology" to be interpreted in a broad sense, the answer to whether an audit of "the technology used" was conducted is "no, we cannot guarantee that all parts of the technology used have been audited". This is due to the fact this report focusses on risk, and we cannot guarantee that each part of the technology used was audited.

H.9 Audit outcome

Not applicable.

Part I – Information on risks

I.1 Offer-related risks

1. Regulatory and Compliance

This white paper has been prepared with utmost caution; however, uncertainties in the regulatory requirements and future changes in regulatory frameworks could potentially impact the token's legal status and its tradability. There is also a high probability that other laws will come into force, changing the rules for the trading of the token. Therefore, such developments shall be monitored and acted upon accordingly.

2. Operational and Technical

Blockchain Dependency: The token is entirely dependent on the blockchain the crypto-asset is issued upon. Any issues, such as downtime, congestion, or security vulnerabilities within the blockchain, could adversely affect the token's functionality.

Smart Contract Risks: Smart contracts governing the token may contain hidden vulnerabilities or bugs that could disrupt the token offering or distribution processes.

Connection Dependency: As the trading of the token also involves other trading venues, technical risks such as downtime of the connection or faulty code are also possible.

Human errors: Due to the irrevocability of blockchain-transactions, approving wrong transactions or using incorrect networks/addresses will most likely result in funds not being accessibly anymore.

Custodial risk: When admitting the token to trading, the risk of losing clients assets due to hacks or other malicious acts is given. This is due to the fact the token is hold in custodial wallets for the customers.

3. Market and Liquidity

Volatility: The token will most likely be subject to high volatility and market speculation. Price fluctuations could be significant, posing a risk of substantial losses to holders.

Liquidity Risk: Liquidity is contingent upon trading activity levels on decentralized exchanges (DEXs) and potentially on centralized exchanges (CEXs), should they be involved. Low trading volumes may restrict the buying and selling capabilities of the tokens.

4. Counterparty

As the admission to trading involves the connection to other trading venues, counterparty risks arise. These include, but are not limited to, the following risks:

General Trading Platform Risk: The risk of trading platforms not operating to the highest standards is given. Examples like FTX show that especially in nascent industries, compliance and oversight-frameworks might not be fully established and/or enforced.

Listing or Delisting Risks: The listing or delisting of the token is subject to the trading partners internal processes. Delisting of the token at the connected trading partners could harm or completely halt the ability to trade the token.

5. Liquidity

Liquidity of the token can vary, especially when trading activity is limited. This could result in high slippage when trading a token.

6. Failure of one or more Counterparties

Another risk stems from the internal operational processes of the counterparties used. As there is no specific oversight other than the typical due diligence check, it cannot be guaranteed that all counterparties adhere to the best market standards.

Bankruptcy Risk: Counterparties could go bankrupt, possibly resulting in a total loss for the clients assets hold at that counterparty.

7. Information asymmetry

Different groups of participants may not have the same access to technical details or governance information, leading to uneven decision-making and potential disadvantages for less informed investors.

1.2 Issuer-related risks

1. Insolvency

As with every other commercial endeavor, the risk of insolvency of entities involved in the project is given. This could be caused by but is not limited to lack of interest from the public, lack of funding, incapacitation of key developers and project members, force majeure (including pandemics and wars) or lack of commercial success or prospects.

2. Counterparty

In order to operate, entities involved in the project have most likely engaged in different business relationships with one or more third parties on which they and the network strongly depend. Loss or changes in the leadership or key partners of entities involved in the project and/or the respective counterparties can lead to disruptions, loss of trust, or

project failure. This could result in a total loss of economic value for the crypto-asset holders.

3. Legal and Regulatory Compliance

Cryptocurrencies and blockchain-based technologies are subject to evolving regulatory landscapes worldwide. Regulations vary across jurisdictions and may be subject to significant changes. Non-compliance can result in investigations, enforcement actions, penalties, fines, sanctions, or the prohibition of the trading of the crypto-asset impacting its viability and market acceptance. This could also result in entities involved in the project to be subject to private litigation. The aforementioned would most likely also lead to changes with respect to trading of the crypto-asset that may negatively impact the value, legality, or functionality of the crypto-asset.

4. Operational

Failure to develop or maintain effective internal control, or any difficulties encountered in the implementation of such controls, or their improvement could harm the business, causing disruptions, financial losses, or reputational damage of entities involved in the project.

5. Industry

The network and all entities involved in the project are and will be subject to all of the risks and uncertainties associated with a crypto-project, where the token issued has zero intrinsic value. Many projects in the sector have resulted in financial losses for the investors, with gains only for a few insiders with money from retail investors.

6. Reputational

The network and all entities involved in the project face the risk of negative publicity, whether due to, without limitation, operational failures, security breaches, or association with illicit activities, which can damage the reputation of the network and all entities involved in the project and, by extension, the value and acceptance of the crypto-asset.

7. Competition

There are numerous other crypto-asset projects in the same realm, which could have an effect on the crypto-asset in question.

8. Unanticipated Risk

In addition to the risks included in this section, there might be other risks that cannot be foreseen. Additional risks may also materialize as unanticipated variations or combinations of the risks discussed.

I.3 Crypto-assets-related risks

1. Valuation

As the crypto-asset does not have any intrinsic value, and grants neither rights nor obligations, the only mechanism to determine the price is supply and demand. Historically, most crypto-assets have dramatically lost value and were not a beneficial investment for the investors. Therefore, investing in these crypto-assets poses a high risk, and the loss of funds can occur.

2. Market Volatility

Crypto-asset prices are highly susceptible to dramatic fluctuations influenced by various factors, including market sentiment, regulatory changes, technological advancements, and macroeconomic conditions. These fluctuations can result in significant financial losses within short periods, making the market highly unpredictable and challenging for investors. This is especially true for crypto-assets without any intrinsic value, and investors should be prepared to lose the complete amount of money invested in the respective crypto-assets.

3. Liquidity Challenges

Some crypto-assets suffer from limited liquidity, which can present difficulties when executing large trades without significantly impacting market prices. This lack of liquidity can lead to substantial financial losses, particularly during periods of rapid market movements, when selling assets may become challenging or require accepting unfavorable prices.

4. Asset Security

Crypto-assets face unique security threats, including the risk of theft from exchanges or digital wallets, loss of private keys, and potential failures of custodial services. Since crypto transactions are generally irreversible, a security breach or mismanagement can result in

the permanent loss of assets, emphasizing the importance of strong security measures and practices.

5. Scams

The irrevocability of transactions executed using blockchain infrastructure, as well as the pseudonymous nature of blockchain ecosystems, attracts scammers. Therefore, investors in crypto-assets must proceed with a high degree of caution when investing in crypto-assets. Typical scams include – but are not limited to – the creation of fake crypto-assets with the same name, phishing on social networks or by email, fake giveaways/airdrops, identity theft, among others.

6. Blockchain Dependency

Any issues with the blockchain used, such as network downtime, congestion, or security vulnerabilities, could disrupt the transfer, trading, or functionality of the crypto-asset.

7. Smart Contract Vulnerabilities

The smart contract used to issue the crypto-asset could include bugs, coding errors, or vulnerabilities which could be exploited by malicious actors, potentially leading to asset loss, unauthorized data access, or unintended operational consequences.

8. Privacy Concerns

All transactions on the blockchain are permanently recorded and publicly accessible, which can potentially expose user activities. Although addresses are pseudonymous, the transparent and immutable nature of blockchain allows for advanced forensic analysis and intelligence gathering. This level of transparency can make it possible to link blockchain addresses to real-world identities over time, compromising user privacy.

9. Regulatory Uncertainty

The regulatory environment surrounding crypto-assets is constantly evolving, which can directly impact their usage, valuation, and legal status. Changes in regulatory frameworks may introduce new requirements related to consumer protection, taxation, and anti-money laundering compliance, creating uncertainty and potential challenges for investors and businesses operating in the crypto space. Although the crypto-asset do not create or confer any contractual or other obligations on any party, certain regulators may

nevertheless qualify the crypto-asset as a security or other financial instrument under their applicable law, which in turn would have drastic consequences for the crypto-asset, including the potential loss of the invested capital in the asset. Furthermore, this could lead to the sellers and its affiliates, directors, and officers being obliged to pay fines, including federal civil and criminal penalties, or make the crypto-asset illegal or impossible to use, buy, or sell in certain jurisdictions. On top of that, regulators could take action against the network and all entities involved in the project as well as the trading platforms if the regulators view the token as an unregistered offering of securities or the operations otherwise as a violation of existing law. Any of these outcomes would negatively affect the value and/or functionality of the crypto-asset and/or could cause a complete loss of funds of the invested money in the crypto-asset for the investor.

10. Counterparty risk

Engaging in agreements or storing crypto-assets on exchanges introduces counterparty risks, including the failure of the other party to fulfill their obligations. Investors may face potential losses due to factors such as insolvency, regulatory non-compliance, or fraudulent activities by counterparties, highlighting the need for careful due diligence when engaging with third parties.

11. Reputational concerns

Crypto-assets are often subject to reputational risks stemming from associations with illegal activities, high-profile security breaches, and technological failures. Such incidents can undermine trust in the broader ecosystem, negatively affecting investor confidence and market value, thereby hindering widespread adoption and acceptance.

12. Technological Innovation

New technologies or platforms could render the network's design less competitive or even break fundamental parts (i.e., quantum computing might break cryptographic algorithms used to secure the network), impacting adoption and value. Participants should approach the crypto-asset with a clear understanding of its speculative and volatile nature and be prepared to accept these risks and bear potential losses, which could include the complete loss of the asset's value.

13. Community and Narrative

As the crypto-asset has no intrinsic value, all trading activity is based on the intended market value is heavily dependent on its community.

14. Interest Rate Change

Historically, changes in interest, foreign exchange rates, and increases in volatility have increased credit and market risks and may also affect the value of the crypto-asset. Although historic data does not predict the future, potential investors should be aware that general movements in local and other factors may affect the market, and this could also affect market sentiment and, therefore most likely also the price of the crypto-asset.

15. Taxation

The taxation regime that applies to the trading of the crypto-asset by individual holders or legal entities will depend on the holder's jurisdiction. It is the holder's sole responsibility to comply with all applicable tax laws, including, but not limited to, the reporting and payment of income tax, wealth tax, or similar taxes arising in connection with the appreciation and depreciation of the crypto-asset.

16. Anti-Money Laundering/Counter-Terrorism Financing

It cannot be ruled out that crypto-asset wallet addresses interacting with the crypto-asset have been, or will be used for money laundering or terrorist financing purposes, or are identified with a person known to have committed such offenses.

17. Market Abuse

It is noteworthy that crypto-assets are potentially prone to increased market abuse risks, as the underlying infrastructure could be used to exploit arbitrage opportunities through schemes such as front-running, spoofing, pump-and-dump, and fraud across different systems, platforms, or geographic locations. This is especially true for crypto-assets with a low market capitalization and few trading venues, and potential investors should be aware that this could lead to a total loss of the funds invested in the crypto-asset.

18. Timeline and Milestones

Critical project milestones could be delayed by technical, operational, or market challenges.

19. Legal ownership

Depending on jurisdiction, token holders may not have enforceable legal rights over their holdings, limiting avenues for recourse in disputes or cases of fraud.

20. Jurisdictional blocking

Access to exchanges, wallets, or interfaces may be restricted based on user location or regulatory measures, even if the token remains transferable on-chain.

21. Token concentration

A large proportion of tokens held by a few actors could allow price manipulation, governance dominance, or sudden sell-offs impacting market stability.

22. Ecosystem incentive misalignment

If validator, developer, or user rewards become unattractive or distorted, network security and participation could decline.

23. Governance deadlock

Poorly structured or fragmented governance processes may prevent timely decisions, creating delays or strategic paralysis.

24. Compliance misalignment

Features or delivery mechanisms may unintentionally conflict with evolving regulations, particularly regarding consumer protection or data privacy.

I.4 Project implementation-related risks

As this white paper relates to the "Admission to trading" of the crypto-asset, the implementation risk is referring to the risks on the Crypto Asset Service Providers side. These can be, but are not limited to, typical project management risks, such as key-personal-risks, timeline-risks, and technical implementation-risks.

I.5 Technology-related risks

As this white paper relates to the "Admission to trading" of the crypto-asset, the technology-related risks mainly involve the DLT networks in which the crypto asset is issued.

1. Blockchain Dependency Risks

Network Downtime: Potential outages or congestion on the involved blockchains could interrupt on-chain token transfers, trading, and other functions.

2. Smart Contract Risks

Vulnerabilities: The smart contract governing the token could contain bugs or vulnerabilities that may be exploited, affecting token distribution or vesting schedules.

3. Wallet and Storage Risks

Private Key Management: Token holders must securely manage their private keys and recovery phrases to prevent permanent loss of access to their tokens, which includes Trading-Venues, who are a prominent target for dedicated hacks.

Compatibility Issues: The tokens require compatible wallets for storage and transfer. Any incompatibility or technical issues with these wallets could impact token accessibility.

4. Network Security Risks

Attack Risks: The blockchains may face threats such as denial-of-service (DoS) attacks or exploits targeting its consensus mechanism, which could compromise network integrity.

Centralization Concerns: Although claiming to be decentralized, the relatively smaller number of validators/concentration of stakes within the networks compared to other blockchains might pose centralization risks, potentially affecting network resilience.

5. Evolving Technology Risks

Technological Obsolescence: The fast pace of innovation in blockchain technology may make the used token standard appear less competitive or become outdated, potentially impacting the usability or adoption of the token.

6. Bridges

The dependency on multiple ecosystems can negatively impact investors. This asset bridge creates corresponding risks for investors, as this lock-in mechanism may not function properly for technical reasons or may be subject to attack. In that case, the supply may change immediately or the ownership rights to tokens may be changed.

7. Forking risk

Network upgrades may split the blockchain into separate versions, potentially creating duplicate tokens or incompatibility between different versions of the protocol.

8. Economic abstraction

Mechanisms such as gas relayers or wrapped tokens may allow users to bypass the native asset, reducing its direct demand and weakening its economic role.

9. Dust and spam attacks

Low-value transactions may flood the network, increasing ledger size, reducing efficiency, and exposing user addresses to tracking.

10. Frontend dependency

If users rely on centralised web interfaces or wallets, service outages or compromises could block access even if the blockchain itself continues to operate.

I.6 Mitigation measures

None.

Part J – Information on the sustainability indicators in relation to adverse impact on the climate and other environment-related adverse impacts

J.1 Adverse impacts on climate and other environment-related adverse impacts

S.1 Name

Metis Token

S.2 Relevant legal entity identifier

Not applicable.

S.3 Name of the cryptoasset

Metis Token

S.4 Consensus Mechanism

The crypto asset that is the subject of this white paper is available on multiple DLT networks. These include: Metis Andromeda and Ethereum. In general, when evaluating crypto assets, the total number of tokens issued across different networks must always be taken into account, as spillover effects can be adverse for investors.

The following applies to Metis Andromeda:

Metis Andromeda leverages the security and finality of Ethereum Layer 1, inheriting its Proof-of-Stake consensus mechanism. On Layer 2, transactions operate similar to an optimistic rollup but additionally running another PoS consensus based on Metis token to remove centralization risk with regard to sequencers. Assumptions of validity are enforced by other node types called Verifiers.

Metis aims to further reduce the risk of centralization by establishing a decentralized sequencer pool, where multiple operators validate and order transactions.

The following applies to Ethereum:

The crypto-asset's Proof-of-Stake (PoS) consensus mechanism, introduced with The Merge in 2022, replaces mining with validator staking. Validators must stake at least 32 ETH; every block, a validator is randomly chosen to propose the next block. Once proposed the other validators verify the block's integrity. The network operates on a slot and epoch system, where a new block is proposed every 12 seconds, and finalization occurs after two epochs (~12.8 minutes) using Casper-FFG. The Beacon Chain coordinates validators, while the fork-choice rule (LMD-GHOST) ensures the chain follows the heaviest accumulated validator votes. Validators earn rewards for proposing and verifying blocks, but face slashing for malicious behavior or inactivity. PoS aims to improve energy efficiency, security, and scalability, with future upgrades like Proto-Danksharding enhancing transaction efficiency.

S.5 Incentive Mechanisms and Applicable Fees

The crypto asset that is the subject of this white paper is available on multiple DLT networks. These include: Metis Andromeda and Ethereum. In general, when evaluating

crypto assets, the total number of tokens issued across different networks must always be taken into account, as spillover effects can be adverse for investors.

The following applies to Metis Andromeda:

Transactions on Metis Andromeda incur gas fees paid in Metis tokens. Metis Andromeda's own PoS also runs on Metis token, so sequencers have to stake a minimum amount to participate in the consensus algorithm.

In addition to transaction-based incentives, Metis runs ecosystem programs such as Builder Mining Rewards, which encourage developers and projects to deploy on Andromeda by providing retroactive rewards based on usage and activity. This mechanism fosters long-term ecosystem growth and adoption.

The following applies to Ethereum:

The crypto-asset's PoS system secures transactions through validator incentives and economic penalties. Validators stake at least 32 ETH and earn rewards for proposing blocks, attesting to valid ones, and participating in sync committees. Rewards are paid in newly issued ETH and transaction fees. Under EIP-1559, transaction fees consist of a base fee, which is burned to reduce supply, and an optional priority fee (tip) paid to validators. Validators face slashing if they act maliciously and incur penalties for inactivity. This system aims to increase security by aligning incentives while making the crypto-asset's fee structure more predictable and deflationary during high network activity.

S.6 Beginning of the period to which the disclosure relates

2024-09-26

S.7 End of the period to which the disclosure relates

2025-09-26

S.8 Energy consumption

21188.31397 kWh/a

S.9 Energy consumption sources and methodologies

The energy consumption of this asset is aggregated across multiple components: For the calculation of energy consumptions, the so called 'bottom-up' approach is being used. The nodes are considered to be the central factor for the energy consumption of the network. These assumptions are made on the basis of empirical findings through the use of public information sites, open-source crawlers and crawlers developed in-house. The main determinants for estimating the hardware used within the network are the requirements for operating the client software. The energy consumption of the hardware devices was measured in certified test laboratories. Due to the structure of this network, it is not only the mainnet that is responsible for energy consumption. In order to calculate the structure adequately, a proportion of the energy consumption of the connected network, ethereum, must also be taken into account, because the connected network is also responsible for security. This proportion is determined on the basis of gas consumption. When calculating the energy consumption, we used - if available - the Functionally Fungible Group Digital Token Identifier (FFG DTI) to determine all implementations of the asset of question in scope and we update the mappings regularly, based on data of the Digital Token Identifier Foundation. The information regarding the hardware used and the number of participants in the network is based on assumptions that are verified with best effort using empirical data. In general, participants are assumed to be largely economically rational. As a precautionary principle, we make assumptions on the conservative side when in doubt, i.e. making higher estimates for the adverse impacts.

To determine the energy consumption of a token, the energy consumption of the network Ethereum is calculated first. For the energy consumption of the token, a fraction of the energy consumption of the network is attributed to the token, which is determined based on the activity of the crypto-asset within the network. When calculating the energy consumption, the Functionally Fungible Group Digital Token Identifier (FFG DTI) is used - if available - to determine all implementations of the asset in scope. The mappings are updated regularly, based on data of the Digital Token Identifier Foundation. The information regarding the hardware used and the number of participants in the network is based on assumptions that are verified with best effort using empirical data. In general, participants are assumed to be largely economically rational. As a precautionary principle,

we make assumptions on the conservative side when in doubt, i.e. making higher estimates for the adverse impacts.

S.10 Renewable energy consumption

32.7956468965%

S.11 Energy intensity

0.00006 kWh

S.12 Scope 1 DLT GHG emissions – Controlled

0.00000 tCO₂e/a

S.13 Scope 2 DLT GHG emissions – Purchased

7.05174 tCO₂e/a

S.14 GHG intensity

0.00002 kgCO₂e

S.15 Key energy sources and methodologies

To determine the proportion of renewable energy usage, the locations of the nodes are to be determined using public information sites, open-source crawlers and crawlers developed in-house. If no information is available on the geographic distribution of the nodes, reference networks are used which are comparable in terms of their incentivization structure and consensus mechanism. This geo-information is merged with public information from Our World in Data, see citation. The intensity is calculated as the marginal energy cost wrt. one more transaction. Ember (2025); Energy Institute - Statistical Review of World Energy (2024) - with major processing by Our World in Data. "Share of electricity generated by renewables - Ember and Energy Institute" [dataset]. Ember, "Yearly Electricity Data Europe"; Ember, "Yearly Electricity Data"; Energy Institute, "Statistical Review of World Energy" [original data]. Retrieved from <https://ourworldindata.org/grapher/share-electricity-renewables>.

S.16 Key GHG sources and methodologies

To determine the GHG Emissions, the locations of the nodes are to be determined using public information sites, open-source crawlers and crawlers developed in-house. If no

information is available on the geographic distribution of the nodes, reference networks are used which are comparable in terms of their incentivization structure and consensus mechanism. This geo-information is merged with public information from Our World in Data, see citation. The intensity is calculated as the marginal emission wrt. one more transaction. Ember (2025); Energy Institute - Statistical Review of World Energy (2024) - with major processing by Our World in Data. "Carbon intensity of electricity generation - Ember and Energy Institute" [dataset]. Ember, "Yearly Electricity Data Europe"; Ember, "Yearly Electricity Data"; Energy Institute, "Statistical Review of World Energy" [original data]. Retrieved from <https://ourworldindata.org/grapher/carbon-intensity-electricity> Licenced under CC BY 4.0.