

White paper drafted under the European Markets in Crypto-Assets Regulation (EU) 2023/1114 Tor FFG 13JBPT88T



# Preamble

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# 01. Date of notification

2025-06-02

# 02. Statement in accordance 2023/1114

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

/itl

ticle 6(3) of Regulation (EU)

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

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

# 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 token has multiple functions (hybrid token), these are already conceptually not utility tokens within the meaning of the MiCAR within the definition of Article 3 (1), due to the necessity of the "exclusivity".

# 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 97/0/EC on 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. Wahing in Accordance with Article 6(7), second subparatraph of Regulation (EU) 2023/1114

Warning. This submary should be read as an introduction to the crypto-asset white pape. The cospective 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 along. 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**

Pudgy Penguins tokens this white paper refers to are crypto-assets other than EMTs and ARTs, which are currently available on the Solana blockchain (at the time of writing this white paper (2025-05-28) and according to DTI FFG shown in F.14).

The initial production of the 88,888,888,888 tokens (the so-called "mint") took place on November 29, 2024 23:15:04 +UTC (see transaction hash: 5mSLwwmFe7rmREBvhp4YR8B5hveTHQ6NhRkJrcY5ZUVmXeMC8rdsHRRkxj8s4EG6NGYJ 1PTYL2ssRuQ28V2gsBKo).

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

Since the token has multiple functions (hybrid toke), there are already conceptually not utility tokens within the meaning of the N CAP within the definition of Article 3 (1), due to the necessity of the "exclusivity".

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

seeking admission to trading on any Crypto Asset Service Crypto Risk N rics ( bΗ. Provider plater by European Union in accordance to Article 5 of REGULATION (EU) E EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 2023 on 2023 14 OF to-assets, and amending Regulations (EU) No 1093/2010 and (EU) No ts in man 1095/2 10 and Directives 2013/36/EU and (EU) 2019/1937. In accordance to Article 5(4) is crypto-asset white paper may be used by entities admitting the token to trading after Crypto Risk Metrics GmbH as the person responsible for drawing up such white paper has given its consent to its use in writing to the repective Crypto Asset Service Provider. If a CASP wishes to use this white paper, inquiries can be made under info@crypto-risk-metrics.com.

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

#### A.1 Name

Crypto Risk Metrics GmbH

#### A.2 Legal form

2HBR

#### A.3 Registered address

DE, Lange Reihe 73, 20099 Hamburg, Germany



# A.4 Head office

Not applicable.

#### A.5 Registration date

2018-12-03

#### A.6 Legal entity identifier

39120077M9TG001FE242

# A.7 Another identifier reactive ired ursu int to applicable national law

Crypto Risk Metrics 5mbH in registered with the commercial register in the the city of Hamburg, Germany, under number HRB 154488.

## A.8 Contact tele one number

+491-1449.0420 **A.9 E-ruail address** info@crypto-risk-metrics.com

# A.10 Response time (Days)

030

## A.11 Parent company

Not applicable.

#### A.12 Members of the management body

Name	Position	Address
Tim Zölitz	Chairman	Lange Reihe 73, 20099 Hamburg, Germany

#### A.13 Business activity

Crypto Risk Metrics GmbH is a technical service provider, who supports regulated entities in the fulfillment of their regulatory requirements. In this regard, Crypto Risk



Metrics GmbH acts as a data-provider for ESG-data according to article 66 (5). Due to the regulations laid out in article 5 (4) of the KEGULATION (EU) 2023/1114 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL or 31 May 2023 on markets in crypto-assets, and amending Regulations (EU) No 1002/2010 and (EU) No 1095/2010 and Directives 2013/36/EU and (EU) 2019/1917, Cripto Risk Metrics GmbH aims at providing central services for crypto-asset lance prices in order to minimize market confusion due to conflicting white papers for the time asset.

#### A.14 Parent company sines a fi

Not applicable.

A.15 Newly esta lished

Crypto Risk Marries GmbH has been etablished since 2018 and is therefore not newly

#### A.16 Finncial condition for the past three years

First Metrics GmbH's profit after tax for the last three financial years are as follows:

2024 (unaudited): negative 50.891,81 EUR

2023 (unaudited): negative 27.665,32 EUR

2022: 104.283,00 EUR.

As 2023 and 2024 were the years building Software for the MiCAR-Regulation which was not yet in place, revenue streams from these investments are expeted to be generated in 2025.

#### A.17 Financial condition since registration

This point would only be applicable if the company were newly established and the financial conditions for the past three years had not been provided in the bulletpoint before.



# 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 dmission to trading

Yes

#### B.2 Name

On the project's official website wittps://www.pudgypenguins.com/pengu", accessed on 2025-05-28 ), "LSLTT WOLL, NC2 INVES named as the entity responsible for the crypto asset. This company as a wide we lated IP-rights.

# B.3 Legal form

ngist

B4

8N21, Limiter Liabin Company

ed a

dress

16192 Toastal Highway, Lewes, DE 19958. Based on information from the website, when sy the information cannot be verified independently.

#### **B.5 Head office**

16192 Coastal Highway, Lewes, DE 19958. Based on information from the website, whereby the information cannot be verified independently.

#### **B.6 Registration date**

Could not be found while drafting this white paper (2025-05-28).

#### **B.7 Legal entity identifier**

Could not be found while drafting this white paper (2025-05-28).

## B.8 Another identifier required pursuant to applicable national law

Not applicable.

#### **B.9 Parent company**

Due to no entries in public registers, this information cannot be verified independently.



#### **B.10** Members of the management body

Due to no entries in public registers, this information cannot be verified independently.

#### **B.11 Business activity**

According to the trademark register "Justia", 2SLI H HOLDINGS INC." holds various trademarks.

#### B.12 Parent company business

Due to no entries in public regimers, his information cannot be verified independently.

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

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



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

Not applicable.

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

Not applicable.

# Part D – Information about the crypto-asset project

## D.1 Crypto-asset project name

Long Name: "Pudgy Penguins", Short Name: "PENGU" according to the Digital Token Identifier Foundation (www.dtif.org, DTI see F.13, FFG DTI see F.14 as of 2025-05-27).

## D.2 Crypto-assets name

See F.13.

FFG: 13JBPT88T - 2025-06-02



#### **D.3 Abbreviation**

See F.13.

## D.4 Crypto-asset project description

Pengu is a meme-inspired crypto assertion and December 2024 on the Solana blockchain. It is tied to the popular PFT an ection Pudgy Penguins, a widely recognized digital brand known for its cartoon per un avatars and expansive online community.

The token was introduced as part of a broader effort by LSLTTT Holdings Inc., the company that owns an operationale Pudgy Penguins intellectual property. While the project carries an element of meme culture, it also aims to provide community incentives, ecosystem engagement, and potential integration with physical merchandise like Pudgy Toy.

Unite many mome coins, Pengu is supported by a formal corporate entity and includes elements of structured tokenomics.

Not cheless, the project is set up as a pure "meme" project and does not grant any substantial rights to investors.

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

Name	Role
Intro	The following persons or references for persons involved are published on the official website of the project (https://www.pudgypenguins.com/about-us) at the time of writing the white paper (2025-05-28). It cannot be confirmed that there are real people behind these references, nor whether they are actually involved and whether other people are





o out o roken assineation

The top an does not classify as a utility token.

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

Not applicable.

## D.8 Plans for the token

At the time of writing this white paper (2025-05-28), no future plans for the crypto-asset were to be found.

#### **D.9 Resource allocation**

The issuer's official website (https://www.pudgypenguins.com/pengu) provides information on the planned use of the funds. The investor faces risks due to the uncertainty of the distribution of the tokens.

Likewise, the investor must be aware that a planned distribution of funds is not technically binding – it is only a planned use and not a technically fixed distribution. The following entities are involved in the token distribution: "Current & Future Team" (17,8%), "Liquidity" (12,35%), "Public Good" (4%), "Proliferation" (4%), "FTT Holders"

(0,35%), "Company" (11,48%), "Pudgy community" (25,9%), "Other communities" (24,12%).

The actual distribution of tokens be traced on-chain: can https://solscan.io/token/2zMMhcVQEXDtdF -ES7 D50 odf|HE8vd1gnBouauv#holder s. The investor must be aware that a pullic a The stannot necessarily be assigned to a e ecu single person or other entity why justification and thus possible future actions cannot be determine

## D.10 Planne use of collected ands or crypto-Assets

See D.9.

# Par E Information about the offer to the public of crypto-assets or their admission to trading

## ablic offering or admission to trading

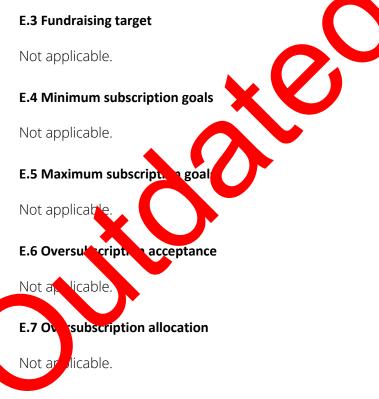
The white paper concerns the admission to trading (i. e. ATTR) on any Crypto Asset Service Providers platform that has obtained the written consent of Crypto Risk Metrics GmbH as the person drafting this white paper.

## E.2 Reasons for public offer or admission to trading

As already stated in A.13, Crypto Risk Metrics GmbH aims to provide central services to draw up crypto-asset white papers in accordance to COMMISSION IMPLEMENTING REGULATION (EU) 2024/2984. These services are offered in order to minimize market confusion due to conflicting white papers for the same asset drawn up from different Crypto Asset Service Providers. As of now, such a scenario seems highly likely as a Crypto Asset Service Provider who drew up a crypto-asset white paper and admitted the respective token in the Union has no incentive to give his written consent to another Crypto Asset Service Provider according to Article 5 (4 b) of the REGULATION (EU) 2023/1114 to use the white paper for his regulatory obligations, as this would 1.



strenghthen the market-positioning of the other Crypto Asset Service Provider (who is most likely a competitor) and 2. also entail liability



#### E.8 Issue price

Not applicable.

#### 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

Asstatedonthewebsite:https://solscan.io/tx/5mSLwwmFe7rmREBvhp4YFr85hve1HQ6NhRkJrcY5ZUVmXeMC8rdsHRRkxj8s4EG6NGYJ1PTYL2ssRuQ28V2gsBKe\_atal of 88,888,888,888,888 tokens wereminted.

#### E.13 Targeted holders

ALL

#### E.14 Holder restriction

The Holder Norictice's are ubject 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 imbu sement notice

Not applicable.

## E.16 Refund mechanism

Not applicable.

#### E.17 Refund timeline

Not applicable.

#### E.18 Offer phases

Not applicable.

#### E.19 Early purchase discount

Not applicable.

#### E.20 Time-limited offer

Not applicable.

#### E.21 Subscription period beginning

Not applicable.



#### E.22 Subscription period end

Not applicable.

#### E.23 Safeguarding arrangements for offered funds rypto-

Not applicable.

#### E.24 Payment methods for crypto-a

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

t pui

#### E.25 Value transfer ethods reimbursement

Not applicable.

#### E.26 R ht of with drawal

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

#### **L-21** 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 cryptoassets 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

The trading on all MiCAR-corporation reading platforms is sought.

E.34 Trading platforms weeket i entitier code (MIC)

Not applicat

E.35 Trading platforms access

This depends on the trading platform listing the asset.

## E.36 In plved costs

This copends on the trading platform listing the asset. 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 whitepaper is adressing, 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 ublic" and in this white-paper, the admission to trading is sought.

# Part F – Information about the cryston asset

#### F.1 Crypto-asset type

The crypto-asset deteribed in the write paper is classified as a crypto-asset under the Markets in Crypto-Asset. Regulation (MiCAR) but does not qualify as an electronic money token (EMT or an adot-referenced token (ART). It is a digital representation of value that caused store and transferred using distributed ledger technology (DLT) or similar technology, version embodying or conferring any rights to its holder.

Increase cloes 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 marketdriver 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

Pengu is a meme-based utility token within the Pudgy Penguins ecosystem. It may be used for community participation, access to exclusive content, and potential rewards. While it reflects the playful spirit of the brand, it offers no guarantees of value, utility, or future benefits.

Since the token has multiple functions (hybrid token), these are already conceptually not utility tokens within the meaning of the MiCAR with the definition of Article 3 (1), due to the necessity of the "exclusivity".

#### F.3 Planned application of functionalities

All functionalities referred to 52 var already been applied. There were no statements to be found to further functionances for the token while drafting this white paper (2025-05-28).

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

#### cryp-asset white paper

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

## re type of submission

pe

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 Solana blockchain. The tokens are fungible (up to 6 digits after the decimal point), and a total of 88,888,888,888 have already been issued. 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.pudgypenguins.com/pengu



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

2025-06-30

#### F.10 Publication date

2025-06-30

#### F.11 Any other services provided by

The issuer of the token is 2005-used easy and due to the lack of publicly available information and resources while drawing up this white paper (2025-05-28) it is not possible to exclude a possibility mat the issuer of the token provides or will provide other services pot covered by Regulation (EU) 2023/1114 (i.e. MiCAR).

n issu

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

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

XNT9ZM8KB

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

13JBPT88T

#### 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

Germany



#### F.19 Host Member States

Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech, poublic, Denmark, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Lavia, Estonia, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, pyenic Spain, Sweden

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

#### G.1 Purchaser rights any bligations

No legally binding real or contractual obligations are linked to the crypto-asset. The technically possible generalize participations and functionalities described in F.2 cannot be incopend only verified and it cannot be guaranteed that these promises have legal bioling for othat an investor can enforce.

#### G.2 Exercise of rights and obligations

As the token grants no legal binding rights nor obligations, there are no procedures and conditions for the exercise of these rights applicable.

The promise of governance participation is based on technical circumstances and relies on smart contract functionalities and voting platforms. It is not certain whether this infrastructure will be available for use of these governance functions on a permanent basis.

#### G.3 Conditions for modifications of rights and obligations

As the token grants no legal binding rights nor obligations, there are no procedures and conditions for the exercise of these rights 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**

Information on the future offers to the public of crysto-assets were not available at the time of writing this white paper (2025-05-28).

#### G.5 Issuer retained crypto-assets

dgypenguins.com/pengu) provides The issuer's official website //ttp. www.r information on the planned use of e funds. The investor faces risks due to the uncertainty of the distribution of okens.

are that a planned distribution of funds is not Likewise, the invest st technically beding it is on planned use and not a technically fixed distribution. The following entities are involved in the token distribution: "Current & Future Team" Vity" (+2,35%), "Public Good" (4%), "Proliferation" (4%), "FTT Holders" (17,8%), "Liqu 5%), Comr any" (11,48%), "Pudgy community" (25,9%), "Other communities" (24,12

The actual distribution of tokens be on-chain: can traced https://solscan.io/token/2zMMhcVQEXDtdE6vsFS7S7D5oUodf|HE8vd1gnBouauv#holder s. The investor must be aware that a public address cannot necessarily be assigned to a single person or other entity why the economic justification and thus possible future actions cannot be determined.

#### 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 the admission to trading of the to ons is sought.

#### 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 Scope Recaders can impose their own restrictions in agreements they enter with their conts. The Crypto Asset Service Providers may impose restrictions to buyer and scores in accordance with applicable laws and internal policies and terms.

## G.12 Supply light protocols

No, there are no need protocols that can increase or decrease the supply implemented as of 2025-05-22. Nevertheless, it is possible that the owner of the smart-contract has the bility a increase or decrease the token-supply in response to changes in demand. Also, it is possible to decrease the circulating supply, by transferring crypto-assets to so called "burn-adresses", which are adresses that render the crypto-asset "nontransferable" after sent to those adresses.

#### G.13 Supply adjustment mechanisms

The mint authority (the entity who can create new tokens of that crypto-asset), as stated in the data account, has the potential right to change the supply of the crypto-assets. However, since the mint authority was revoked, it should not be possible to increase the token supply, however the whole data account could be updated which then in turn could lead to a situation that total suppy could be altered again.

#### 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

The token is not subject to any predetermined ourt jurisdiction. Competent court likely depends on the location of any predicus party and/or the location of any particular transaction with the token.

#### G.19 Competent coul

The token is not subject to any predetermined court jurisdiction. Competent court likely depends on the location of any particular party and/or the location of any particular transaction with the token.

# rmation on the underlying technology

H.1 Distibuted ledger technology (DTL)

see F.13.

#### H.2 Protocols and technical standards

The tokens were created with Solana's Token Program, a smart contract that is part of the Solana Program Library (SPL). Such tokens are commonly referred to as SPL-token. The token itself is not an additional smart contract, but what is called a data account on Solana. As the name suggests data accounts store data on the blockchain. However, unlike smart contracts, they cannot be executed and cannot perform any operations. Since one cannot interact with data accounts directly, any interaction with an SPL-token is done via Solana's Token Program. The source code of this smart contract can be found here https://github.com/solana-program/token.

The Token Program is developed in Rust, a memory-safe, high-performance programming language designed for secure and efficient development. On Solana, Rust is said to be the primary language used for developing on-chain programs (smart contracts), intended to ensure safety and reliability in decentralized applications (dApps).



Core functions of the Token Program: initialize\_mint()  $\rightarrow$  Create a new type of token, called mint mint\_to()  $\rightarrow$  Mints new tokens of a specific type t account a specit burn()  $\rightarrow$  Burns tokens from a specified , reducing total supply .cour transfer() → Transfers tokens betweet acco pend tokens on behalf of the owner approve()  $\rightarrow$  Approves a de gate (mint, freeze, or transfer authority) set authority()  $\rightarrow$  Up utł ce ba c operations like transfers, and minting/burning can be These function cen. performed within e Solana ecosystem. In adu on to the Token Program, another smart contract, the Metaplex Token

Meta ta No<sub>8</sub>ram is commonly used to store name, symbol, and URI information for better cosystem compatibility. This additional metadata has no effect on the token's functionality.

#### H.3 Technology used

1. Solana-Compatible Wallets: The tokens are supported by all wallets compatible with Solana's Token Program

2. Decentralized Ledger: The Solana 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.

3. SPL Token Program: The SPL (Solana Program Library) Token Program is an inherent Solana smart contract built to create and manage new types of tokens (so called mints). This is significantly different from ERC-20 on Ethereum, because a single smart contract that is part of Solana's core functionality and as such is open source, is responsible for all the tokens. This ensures a high uniformity across tokens at the cost of flexibility.

4. Blockchain Scalability: With its intended capacity for processing a lot of transactions per second and in most cases low fees, Solana wintended to enable efficient token transactions, maintaining high performance even winner beak network usage.

Security Protocols for Asset Custody and Transactions:

1. Private Key Management: Tot afogut of their oken holdings, users must securely store their wallet's private keys and recovery phrases.

2. Cryptographic Integrity: plan, employs elliptic curve cryptography to validate and execute transactions of mely, sterned to ensure the integrity of all transfers.

#### H.4 Consense mechanic

concerns of the mechanism are intended to work as follows:

- Core Concepts
- 1. Proof of History (PoH):

Time-Stamped Transactions: PoH is a cryptographic technique that timestamps transactions, intended to creating a historical record that proves that an event has occurred at a specific moment in time.

Verifiable Delay Function: PoH uses a Verifiable Delay Function (VDF) to generate a unique hash that includes the transaction and the time it was processed. This sequence of hashes provides a verifiable order of events, intended to enabling the network to efficiently agree on the sequence of transactions.

#### 2. Proof of Stake (PoS):

Validator Selection: Validators are chosen to produce new blocks based on the number of SOL tokens they have staked. The more tokens staked, the higher the chance of being selected to validate transactions and produce new blocks.

Delegation: Token holders can delegate their SOL tokens to validators, earning rewards proportional to their stake while intended to enhancing the network's security.

Consensus Process

1. Transaction Validation:

Transactions are broadcasted to the extword and collected by validators. Each transaction is validated to ensure it means the network's criteria, such as having correct signatures and sufficient functs.

2. PoH Sequence Granera

A validator gradientest, sequence of hashes using PoH, each containing a timestamp and the provious with. This process creates a historical record of transactions, establishing a

crypto caphic clock for the network.

3. Block Production:

The network uses PoS to select a leader validator based on their stake. The leader is responsible for bundling the validated transactions into a block. The leader validator uses the PoH sequence to order transactions within the block, ensuring that all transactions are processed in the correct order.

4. Consensus and Finalization:

Other validators verify the block produced by the leader validator. They check the correctness of the PoH sequence and validate the transactions within the block. Once the block is verified, it is added to the blockchain. Validators sign off on the block, and it is considered finalized.

Security and Economic Incentives

1. Incentives for Validators:

Block Rewards: Validators earn rewards for producing and validating blocks. These rewards are distributed in SOL tokens and are proportional to the validator's stake and performance.

Transaction Fees: Validators also earn transaction was from the transactions included in the blocks they produce. These fees provide arreadditional incentive for validators to process transactions efficiently.

2. Security:

Staking: Validators music take value okens to participate in the consensus process. This staking acts as colligeral, inclusivizing validators to act honestly. If a validator behaves maliciously of a validator behaves to proceed the risk losing their staked tokens.

Delegated Staturg: Token holders can delegate their SOL tokens to validators, intended to than net ork security and decentralization. Delegators share in the rewards and are intentivized to choose reliable validators.

3 Franomic Penalties:

Slashing: Validators can be penalized for malicious behavior, such as double-signing or producing invalid blocks. This penalty, known as slashing, results in the loss of a portion of the staked tokens, discouraging dishonest actions.

#### H.5 Incentive mechanisms and applicable fees

Solana uses a combination of Proof of History (PoH) and Proof of Stake (PoS) to secure its network and validate transactions. Here's a detailed explanation of the incentive mechanisms and applicable fees:

Incentive Mechanisms

1. Validators:

Staking Rewards: Validators are chosen based on the number of SOL tokens they have staked. They earn rewards for producing and validating blocks, which are distributed in SOL. The more tokens staked, the higher the chances of being selected to validate transactions and produce new blocks.

Transaction Fees: Validators earn a portion of the transaction fees paid by users for the transactions they include in the blocks. This provide an additional financial incentive for validators to process transactions efficiently and raints, the network's integrity.

2. Delegators:

Delegated Staking: Token holders who owner wise to run a validator node can delegate their SOL tokens to a validator. In return, delegators share in the rewards earned by the validators. This encourager wide bread participation in securing the network and ensures decentralizate.

### 3. Ecoromic Strurity:

Slashing: Volidator can be penalized for malicious behavior, such as producing invalid blocks or being frequently offline. This penalty, known as slashing, involves the loss of a powen on their staked tokens. Slashing deters dishonest actions and ensures that validators act in the best interest of the network.

Oper tunity Cost: By staking SOL tokens, validators and delegators lock up their tokens, which could otherwise be used or sold. This opportunity cost incentivizes participants to act honestly to earn rewards and avoid penalties.

Fees Applicable on the Solana Blockchain

### 1. Transaction Fees:

Low and Predictable Fees: Solana is designed to handle a high throughput of transactions, which helps keep fees low and predictable. The average transaction fee on Solana is significantly lower compared to other blockchains like Ethereum.

Fee Structure: Fees are paid in SOL and are used to compensate validators for the resources they expend to process transactions. This includes computational power and network bandwidth.

### 2. Rent Fees:

State Storage: Solana charges rent fees for storing data on the blockchain. These fees are designed to discourage inefficient use of state storage and encourage developers to

clean up unused state. Rent fees help maintain the efficiency and performance of the network.

### 3. Smart Contract Fees:

Execution Costs: Similar to transaction dees, des the deploying and interacting with smart contracts on Solana are leased on the computational resources required. This ensures that users are charged proportionally for the resources they consume.

### H.6 Use of distribute dge ech

No, DLT is neither or crace by successiver nor a third party acting on the issuer's behalf.

ok

H.7 DLT functionality a serie for

Not applicab

H.o. vdit

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

2. Operational and Technical

Blockchain Dependency: The token is entrely opencent on the blockchain the cryptoasset is issued upon. Any issues way, as downtime, congestion, or security vulnerabilities within the blockchain, could adversely affect the token's functionality.

Smart Contract Rises: Smart contracts governing the token may contain hidden vulnerabilities or buger a could dir upt the token offering or distribution processes.

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

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

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 tunnestablished and/or enforced.

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

5. Liquidity

Liquidity of the token in value especially when trading activity is limited. This could result in high slippage when unding a token.

6. Failure cone comore Counterparties

Anothe risk steps from the internal operational processes of the counterparties used. As there is expecific oversight other than the typical due diligence check, it cannot be guaranceed that all counterparties adhere to the best market standards.

the clients assets hold at that counterparty.

### I.2 Issuer-related risks

### 1. Insolvency

As with every other commercial endeavor, the risk of insolvency of the issuer 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, the issuer has most likely engaged in different business relationships with one or more third parties on which it strongly depends on. Loss or changes in the leadership or key partners of the issuer 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 technologicare subject to evolving regulatory landscapes worldwide. Regulations vary acrossipurisdicions and may be subject to ult ir significant changes. Non-compliance can gations, enforcement actions, penalties, fines, sanctions, or the prohibitory the trading of the crypto-asset impacting its viability and market acceptanc his cu so result in the issuer to be subject to private litigation. The before ioneo uld most likely also lead to changes with respect to trading on hat may negatively impact the value, legality, or he cipto assi functionality of the SP /pt

4. Operationa

Failure to develop or maintain effective internal control, or any difficulties encountered in the molementation of such controls, or their improvement could harm the issuer's busines, causing disruptions, financial losses, or reputational damage.

5. Industry

The issuer is and will be subject to all of the risks and uncertainties associated with a memecoin-project, where the token issued has zero intrinsic value. History has shown that most of this projects resulted in financial losses for the investors and were only setup to enrich a few insiders with the money from retail investors.

### 6. Reputational

The issuer faces the risk of negative publicity, whether due to, without limitation, operational failures, security breaches, or association with illicit activities, which can damage the issuer reputation 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 material as unanticipated variations or combinations of the risks discussed.

### I.3 Crypto-assets-related risks

1. Valuation

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

2. Market Vola.

Cryp cass conces are highly susceptible to dramatic fluctuations influence 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 as block than infrastructure, as well as the pseudonymous nature of blocksbain bacasystems, attracts scammers. Therefore, investors in crypto-assets must proceed with a nigh degree of caution when investing in if they invest 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 giveaward/airdrens, identity theft, among others.

6. Blockchain D. ende

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

### 7. Small Contract Vulnerabilities

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 pseudonoymous, 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 set a security or other financial instrument under their applicable law, which in rn would have drastic consequences for the crypto-asset, including the potential so of the invested capital in the asset. Furthermore, this could lead to the eller ond its affiliates, directors, and officers being obliged to pay fines, including federal vil and criminal penalties, or make the cryptoasset illegal or impersible δuς, v, or sell in certain jurisdictions. On top of that, he issuer as well as the trading platforms if the the regulators could take on against regulators view the token an unregistered offering of securities or the operations otherwise as olatic xisting law. Any of these outcomes would negatively affect or functionality of the crypot-asset and/or could cause a complete loss of the value and funds the invested money in the crypto-asset for the investor.

### 10. Conterparty risk

Engrang 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 Solana'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 coding sedvity is based on the intended market value is heavily dependent on is community and the popularity of the memecoin narrative. Declining interestor negative sentiment could significantly impact the token's value.

14. Interest Rate Char

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

### 15. Taxation

asset

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 cryptoasset 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 cryptoassets with a low market capitalization and few trading renues, and potential investors should be aware that this could lead to a total loss of the long invested in the cryptoasset.

18. Timeline and Milestones

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

### 1.4 Project in lemen ation-reped 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.

### 15 Tonnology-related risks

As this white paper relates to the "Admission to trading" of the crypto-asset, the technology-related risks mainly lie in the settling on the Solana-Network.

### 1. Blockchain Dependency Risks

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

Scalability Challenges: Despite Solana's comparatively high throughput design, unexpected demand or technical issues might compromise its performance.

### 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 a tess to their tokens, which includes Trading-Venues, who are a prominent target for dialcased hacks.

Compatibility Issues: The tokens require Colana 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 Sole ablocabair may face threats such as denial-of-service (DoS) attacks or exploit targeting its consensus mechanism, which could compromise network integra

Centralization concerns: Although claiming to be decentralized, Solana's relatively sincler hombe of validators/concentration of stakes within the network compared to other cockchains and the influence of the Solana Foundation (as of 2025-03-09) might pose contralization risks, potentially affecting network resilience.

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

### 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

Crypto Risk Metrics GmbH



#### S.2 Relevant legal entity identifier

39120077M9TG001FE242

#### S.3 Name of the cryptoasset

**Pudgy Penguins** 

#### S.4 Consensus Mechanism

Solana uses a combination of Proce of H. Jory (PoH) and Proof of Stake (PoS). The core concepts of the mechanism are interpred to work as follows:

Core Concepts

1. Proof of Histo, (PoH).

Time-comped consactions: PoH is a cryptographic technique that timestamps transaction incended to creating a historical record that proves that an event has occurred at a specific moment in time.

unique hash that includes the transaction and the time it was processed. This sequence of hashes provides a verifiable order of events, intended to enabling the network to efficiently agree on the sequence of transactions.

2. Proof of Stake (PoS):

Validator Selection: Validators are chosen to produce new blocks based on the number of SOL tokens they have staked. The more tokens staked, the higher the chance of being

selected to validate transactions and produce new blocks.

Delegation: Token holders can delegate their SOL tokens to validators, earning rewards proportional to their stake while intended to enhancing the network's security.

Consensus Process

1. Transaction Validation:

Transactions are broadcasted to the network and collected by validators. Each transaction is validated to ensure it meets the network's criteria, such as having correct signatures and sufficient funds.

2. PoH Sequence Generation:

A validator generates a sequence of harbos using PoH, each containing a timestamp and the previous hash. This process creates a historical record of transactions, establishing a

cryptographic clock for net

3. Block Proceeding

The network uses a Sto select a leader validator based on their stake. The leader is responsible for conding the validated transactions into a block. The leader validator uses the sequence to order transactions within the block, ensuring that all transactions are processed in the correct order.

onsensus and Finalization:

Other validators verify the block produced by the leader validator. They check the correctness of the PoH sequence and validate the transactions within the block. Once the block is verified, it is added to the blockchain. Validators sign off on the block, and it is considered finalized.

Security and Economic Incentives

1. Incentives for Validators:

Block Rewards: Validators earn rewards for producing and validating blocks. These rewards are distributed in SOL tokens and are proportional to the validator's stake and performance.

Transaction Fees: Validators also earn transaction fees from the transactions included in the blocks they produce. These fees provide an additional incentive for validators to process transactions efficiently.

2. Security:

FFG: 13JBPT88T - 2025-06-02

Staking: Validators must stake SOL tokens to participate in the consensus process. This staking acts as collateral, incentivizing validators to act honestly. If a validator behaves maliciously or fails to perform, they risk losing the starvel tokens.

Delegated Staking: Token holders can delegate the SOL tokens to validators, intended to enhance network security and decentralized on Delegators share in the rewards and are incentivized to choose reliable acidato.

3. Economic Penalties:

Slashing: Validators can be peoplized for malicious behavior, such as double-signing or producing invalid blocks. This penalty, known as slashing, results in the loss of a portion of the staked couples, on paraging dishonest actions.

### S.5 Incentive Mechanisms and Applicable Fees

1. Variation Staking Rewards: Validators are chosen based on the number of SOL tokens they have used. They earn rewards for producing and validating blocks, which are distributed in SOL. The more tokens staked, the higher the chances of being selected to validate

transactions and produce new blocks.

Transaction Fees: Validators earn a portion of the transaction fees paid by users for the transactions they include in the blocks. This is intended to provide an additional financial incentive for validators to process transactions efficiently and maintain the network's integrity.

### 2. Delegators:

Delegated Staking: Token holders who do not wish to run a validator node can delegate their SOL tokens to a validator. In return, delegators share the rewards earned by the validators. This is intended to encourage widespread participation in securing the network and ensures decentralization.

3. Economic Security:

Slashing: Validators can be penalized for malicious behavior, such as producing invalid blocks or being frequently offline. This penalty, known as slashing, involves the loss of a portion of their staked tokens. Slashing is interace in deter dishonest actions and ensures that validators act in the best interest of the network.

Opportunity Cost: By staking SOL tokens validation and delegators lock up their tokens, which could otherwise be used or and. The performance of unity cost is intended to incentivize participants to act honestly to can be used be and avoid penalties.

Fees Applicable on the plana Locke lain

1. Transaction Fees

Solana is designed to handle a high throughput of transactions, which is intended to keep the fees have and predictable.

Fee structure rees are paid in SOL and are used to compensate validators for the resources they expend to process transactions. This includes computational power and network bandwidth.

### 2. Rent Fees:

State Storage: Solana charges so called ""rent fees"" for storing data on the blockchain. These fees are designed to discourage inefficient use of state storage and encourage developers to clean up unused state. Rent fees are intended to help maintain the efficiency and performance of the network.

3. Smart Contract Fees:

Execution Costs: Similar to transaction fees, fees for deploying and interacting with smart contracts on Solana are based on the computational resources required. This is intended to ensure that users are charged proportionally for the resources they consume.

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

2024-05-28



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

2025-05-28

S.8 Energy consumption

944.50729 kWh/a

#### S.9 Energy consumption sources an

mis set suggregated across multiple components: To The energy consumption of determine the energy consumption of the network r the energy consumption of the token, a fraction of the Solana is calculated first. of the network is attributed to the token, which is determined otion energy consu based on the active of the crypto-asset within the network. When calculating the energe consumption, the Functionally Fungible Group Digital Token Identifier (FFG DTI) is ble - to determine all implementations of the asset in scope. The USe mappings are updated regularly, based on data of the Digital Token Identifier Found tion. 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.

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### S.10 Renewable energy consumption

27.0081797971 %

### S.11 Energy intensity

0.00000 kWh

### S.12 Scope 1 DLT GHG emissions – Controlled

0.00000 tCO2e/a

### S.13 Scope 2 DLT GHG emissions – Purchased

0.32006 tCO2e/a



### S.14 GHG intensity

0.00000 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 non-matter sites open-source crawlers and crawlers developed in-house. If no information available on the geographic distribution of the nodes, reference petwork 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 margine onergy costs wrt. one more transaction.

Ember (2025), Energy Institute - Statistical Review of World Energy (2024) – with major procession by Cur 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]. Netreved 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



