

# **White paper drafted under the European Markets in Crypto- Assets Regulation (EU) 2023/1114 for FFG KK12JMBTX**

## Preamble

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## **01. Date of notification**

This white paper was notified at 2026-01-13.

## **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**

As defined in Article 3(9) of Regulation (EU) 2023/1114 of the European Parliament and of the Council of 31 May 2023 on Markets in Crypto-Assets – amending Regulations (EU) No 1093/2010 and (EU) No 1095/2010 and Directives 2013/36/EU and (EU) 2019/1937 – a utility token is “a type of crypto-asset that is only intended to provide access to a good or a service supplied by its issuer”. This crypto-asset does not qualify as a utility token, as its intended use goes beyond providing access to a good or service supplied solely by the issuer.

## **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 crypto-asset Toncoin (TON) referred to in this white paper is a crypto-asset other than EMTs and ARTs and is issued on the TON network as of 2026-01-12, in accordance with the DTI FFG classification shown in Section F.14. The TON crypto-asset has an initial supply of 5,000,000,000 units. However, the supply is not static and is subject to both inflationary and deflationary mechanisms controlled by the network protocol. The first recorded activity on the TON blockchain occurred on 2019-11-15 (block root hash: 8GYhhrigd8CwZGrRT59iulLDcgiTYuvOAzFJxugc0Ts=, source <https://tonscan.info/block/-1:8000000000000000:1>, accessed 2026-01-12).

The Open Network (TON) is a scalable, multi-blockchain platform designed to process a high volume of transactions through a Proof-of-Stake consensus mechanism with Byzantine Fault Tolerance characteristics. Toncoin is the native crypto-asset of the TON network and is used to pay transaction execution fees, storage and network-related fees, and to participate in staking for network validation. Toncoin is also used within the ecosystem to access protocol-level services and to facilitate value transfers between participants on the network.

The crypto-asset does not grant any legally enforceable or contractual rights or obligations to its holders or purchasers. Any functionalities accessible through the underlying technology are purely technical or operational in nature and do not confer rights comparable to ownership, profit participation, governance, or similar entitlements known from traditional financial instruments.

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

As defined in Article 3(9) of Regulation (EU) 2023/1114 of the European Parliament and of the Council of 31 May 2023 on Markets in Crypto-Assets – amending Regulations (EU) No 1093/2010 and (EU) No 1095/2010 and Directives 2013/36/EU and (EU) 2019/1937 – a utility token is “a type of crypto-asset that is only intended to provide access to a good or a service supplied by its issuer”. This crypto-asset does not qualify as a utility token, as its intended use goes beyond providing access to a good or service supplied solely by the issuer.

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

Crypto Risk Metrics GmbH is seeking admission to trading on Payward Global Solutions LTD ("Kraken") platform in the European Union in accordance with 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 admission to trading is not accompanied by a public offer of the crypto-asset.

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

### **A.1 Name**

Crypto Risk Metrics GmbH is the person seeking admission to trading.

## **A.2 Legal form**

The legal form of Crypto Risk Metrics GmbH is 2HBR, which corresponds to "Gesellschaft mit beschränkter Haftung".

## **A.3 Registered address**

The registered address of Crypto Risk Metrics GmbH is Lange Reihe 73, 20099 Hamburg, Germany,  
federal state Hamburg.

## **A.4 Head office**

Crypto Risk Metrics GmbH has no head office.

## **A.5 Registration date**

Crypto Risk Metrics GmbH was registered on 2018-12-03.

## **A.6 Legal entity identifier**

The Legal Entity Identifier (LEI) of Crypto Risk Metrics GmbH is 39120077M9TG001FE242.

## **A.7 Another identifier required pursuant to applicable national law**

The national identifier of Crypto Risk Metrics GmbH is HRB 154488.

## **A.8 Contact telephone number**

+4915144974120

## **A.9 E-mail address**

info@crypto-risk-metrics.com

## **A.10 Response time (Days)**

Crypto Risk Metrics GmbH will respond to investor enquiries within 30 calendar days.

## **A.11 Parent company**

Crypto Risk Metrics GmbH has no parent company.

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

Identity	Function	Business Address
Tim Zölit	Chairman	Lange Reihe 73, 20099 Hamburg, Germany

## **A.13 Business activity**

Crypto Risk Metrics GmbH is a technical service provider, which supports regulated entities in the fulfilment of their regulatory requirements. In this regard, Crypto Risk Metrics GmbH, among other services, acts as a data-provider for ESG data according to article 66 (5). Due to the regulations laid out in article 4 (7), 5 (4) and 66 (3) of the 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, Crypto Risk Metrics GmbH aims to provide central services for crypto-asset white papers.

#### **A.14 Parent company business activity**

Crypto Risk Metrics GmbH does not have a parent company. Accordingly, no business activity of a parent company is to be reported in this section.

#### **A.15 Newly established**

Crypto Risk Metrics GmbH has been established since 2018-12-03 and is therefore not newly established (i. e. more than three years).

#### **A.16 Financial condition for the past three years**

Crypto Risk Metrics GmbH, founded in 2018 and based in Hamburg (HRB 154488), has undergone several strategic shifts in its business focus since incorporation. Due to these changes in business model and operational direction over time, the financial figures from earlier years are only comparable to a limited extent with the company's current commercial activities. The present business model – centred around regulatory technology and risk analytics in the context of the MiCAR framework – has been established progressively and can be realistically considered fully operational since approximately 2024.

The company's financial trajectory over the past three years reflects the transition from exploratory development toward market-ready product delivery. The profit and loss after tax for the last three financial years is as follows:

2024 (unaudited): negative EUR 50.891,81

2023 (unaudited): negative EUR 27.665,32

2022: EUR 104.283,00.

The profit in 2022 resulted primarily from legacy consulting activities, which were discontinued in the course of the company's repositioning.

The losses in 2023 and 2024 result from strategic investments in the development of proprietary software infrastructure, regulatory frameworks, and compliance technology for the MiCAR ecosystem. During those periods, no substantial commercial revenues were expected, as resources were directed toward preparing the platform for regulated market entry.

A fundamental repositioning of the company occurred in 2023 and especially in 2024, when the focus shifted toward providing risk management, regulatory reporting, and supervisory compliance solutions for financial institutions and crypto-asset service providers. This marked a material shift in business operations and monetisation strategy.

Based on the current business development in Q4 2025, revenues exceeding EUR 550,000 are expected for the fiscal year 2025, with an anticipated net profit of approximately EUR 100,000.

These figures are neither audited nor based on a finalized annual financial statement; they are derived from the company's current pipeline, client development, and active commercial engagements. Accordingly, they are subject to future risks and market fluctuations.

With the regulatory environment now taking shape and the platform commercially validated, it is assumed that the effects of the strategic developments will continue to materialize in 2026. The company foresees further scalability of its technology and growing market demand for regulatory compliance tools in the European crypto-asset sector.

No public subsidies or governmental grants have been received to date; all operations have been financed through shareholder contributions and internally generated resources. Crypto Risk Metrics has never accepted any payments via Tokens from projects it has worked for and – due to the internal Conflicts of Interest Policy – never will.

### **A.17 Financial condition since registration**

Not applicable. The company has been established for more than three years and its financial condition over the past three years is provided in Part A.16 above.

## **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, the issuer is different from the person seeking admission to trading.

#### **B.2 Name**

At the time of drafting, no natural or legal person can be definitively identified as the issuer of the crypto-asset. The project does not publicly disclose a formal legal entity responsible for the issuance, governance, or legal obligations related to the TON crypto-asset. As a result, the attribution of issuer responsibility remains uncertain. This absence of a verifiable issuer entity creates an inherent risk regarding the anonymity of the individuals or groups associated with the project and limits the ability to assess accountability under applicable law.

#### **B.3 Legal form**

Not applicable.

#### **B.4. Registered address**

Not applicable.

Not applicable.

Not applicable.

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

Not applicable.

Not applicable.

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**

Identity	Function	Business Address
Not applicable	Not applicable	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 since Crypto Risk Metrics GmbH is not a trading platform.

#### **C.2 Legal form**

Not applicable since Crypto Risk Metrics GmbH is not a trading platform.

#### **C.3 Registered address**

Not applicable since Crypto Risk Metrics GmbH is not a trading platform.

#### **C.4 Head office**

Not applicable since Crypto Risk Metrics GmbH is not a trading platform.

**C.5 Registration date**

Not applicable since Crypto Risk Metrics GmbH is not a trading platform.

**C.6 Legal entity identifier**

Not applicable since Crypto Risk Metrics GmbH is not a trading platform.

**C.7 Another identifier required pursuant to applicable national law**

Not applicable since Crypto Risk Metrics GmbH is not a trading platform.

**C.8 Parent company**

Not applicable since Crypto Risk Metrics GmbH is not a trading platform.

**C.9 Reason for crypto-Asset white paper Preparation**

Not applicable since Crypto Risk Metrics GmbH is not a trading platform.

**C.10 Members of the Management body**

Not applicable since Crypto Risk Metrics GmbH is not a trading platform.

**C.11 Operator business activity**

Not applicable since Crypto Risk Metrics GmbH is not a trading platform.

**C.12 Parent company business activity**

Not applicable since Crypto Risk Metrics GmbH is not a trading platform.

**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 since Crypto Risk Metrics GmbH is not a trading platform.

**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 since Crypto Risk Metrics GmbH is not a trading platform.

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

Long Name: "Toncoin", Short Name: "TON" according to the Digital Token Identifier Foundation (www.dtif.org, DTI see F.13, FFG DTI see F.14 as of 2026-01-12).

**D.2 Crypto-assets name**

Long Name: "Toncoin" according to the Digital Token Identifier Foundation (www.dtif.org, DTI see F.13, FFG DTI see F.14 as of 2026-01-12).

**D.3 Abbreviation**

Short Name: "TON" according to the Digital Token Identifier Foundation (www.dtif.org, DTI see F.13, FFG DTI see F.14 as of 2026-01-12).

## D.4 Crypto-asset project description

According to public information (source: <https://docs.ton.org/>, accessed 2026-01-12), the TON project is a crypto-asset initiative concerned with the development and operation of The Open Network (TON), a public, open-source Layer-1 distributed-ledger system designed to support large-scale decentralised applications, digital services, and on-chain transactions. The network is implemented as a collection of interoperating blockchains ("workchains" and "shardchains") that together form a single logical execution environment, sometimes described as a distributed "superserver", intended to process very high transaction volumes in parallel. TON operates under a Byzantine Fault Tolerant Proof-of-Stake consensus mechanism known as Catchain, which is designed to provide fast block production and near-real-time finality, typically on the order of seconds. The protocol was originally conceived in 2018 by the Telegram development team led by Pavel and Nikolai Durov and was subsequently continued by an open-source community following Telegram's withdrawal from the project.

Within this broader technical framework, Toncoin is the native crypto-asset of the TON network and functions as the primary accounting and coordination unit of the system. It is required for the payment of transaction fees, smart-contract execution costs, and on-chain storage fees, and it is also used to allocate and price computational and bandwidth resources consumed by users and applications operating on TON. Toncoin further plays a central role in the network-security and governance mechanisms. Participants seeking to operate as validators must lock Toncoin as stake in order to participate in block production and consensus, and they may receive block rewards and fee income in return for correctly performing these functions. The protocol incorporates an inflationary issuance model, with newly created units used to incentivise validators, while portions of confiscated validator penalties may be destroyed ("burned"), creating a counterbalancing supply-reduction mechanism.

The project does not involve the granting of ownership, profit-participation rights, or legal claims against the project entity or its contributors. Instead, it centres on the creation of a technical environment in which the TON crypto-asset may serve as a governance and utility input for certain protocol processes. The long-term evolution of the TON system, including the scope of available features, the decentralisation roadmap, validator-selection mechanisms, and the operational continuity of the infrastructure, may vary based on technical, economic, and regulatory considerations. All future developments remain subject to change.

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

Type of person	Name of person	Business address of person	Domicile of company
Other person involved in implementation	The Open Network Stiftung (The Open Network Foundation)	c/o Sielva Management SA, Gubelstrasse 11, 6300 Zug, Switzerland	Switzerland
Other person involved in implementation	Barbara Ursula Schüpbach	Feusisberg, Switzerland	Switzerland

Type of person	Name of person	Business address of person	Domicile of company
Other person involved in implementation	Seo Ro Yun	Dubai, United Arab Emirates	United Arab Emirates
Other person involved in implementation	Maximilian Crown	Dubai, United Arab Emirates	United Arab Emirates
Other person involved in implementation	Ton Venture Studio Ltd (Ton Labs)	Ground Floor, Coastal Building Wickhams Cay II, Road Town, P.O. Box 2136, Carrot Bay VG 1130, British Virgin Islands	British Virgin Islands
Other person involved in implementation	Toncoin.Fund	Can not be found	Can not be found
Other person involved in implementation	Nikolai Durov	Can not be found	Can not be found

## D.6 Utility Token Classification

As defined in Article 3(9) of Regulation (EU) 2023/1114 of the European Parliament and of the Council of 31 May 2023 on Markets in Crypto-Assets – amending Regulations (EU) No 1093/2010 and (EU) No 1095/2010 and Directives 2013/36/EU and (EU) 2019/1937 – a utility token is “a type of crypto-asset that is only intended to provide access to a good or a service supplied by its issuer”. This crypto-asset does not qualify as a utility token, as its intended use goes beyond providing access to a good or service supplied solely by the issuer.

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

As defined in Article 3(9) of Regulation (EU) 2023/1114 of the European Parliament and of the Council of 31 May 2023 on Markets in Crypto-Assets – amending Regulations (EU) No 1093/2010 and (EU) No 1095/2010 and Directives 2013/36/EU and (EU) 2019/1937 – a utility token is “a type of crypto-asset that is only intended to provide access to a good or a service supplied by its issuer”. This crypto-asset does not qualify as a utility token, as its intended use goes beyond providing access to a good or service supplied solely by the issuer.

## D.8 Plans for the token

This section provides an overview of the historical developments related to the Toncoin (TON) crypto-asset and a description of planned or anticipated project milestones as publicly communicated. All forward-looking elements are subject to significant uncertainty. They do not constitute commitments, assurances, or guarantees, and may be modified, delayed, or discontinued



at any time. The implementation of past milestones cannot be assumed to continue in the future, and future changes may have adverse effects for token holders.

There is a formally published roadmap for the Toncoin (TON) crypto-asset and the TON protocol. Based on the official roadmap and publicly communicated technical planning materials (sources: <https://ton.org/en/roadmap> and <https://docs.ton.org/>; accessed as of 2026-01-12), several protocol upgrades, ecosystem initiatives, and crypto-asset-related developments have been communicated that affect the evolution of the TON protocol and the role of the Toncoin crypto-asset.

#### Past milestones:

- Genesis Design Phase (2018–2019): The initial design of a Layer 1 blockchain intended to support large-scale user adoption was initiated by the Telegram team, including the conceptualisation of the Catchain Byzantine Fault Tolerant Proof-of-Stake consensus mechanism.
- Catchain Consensus Specification (February 2020): The Catchain consensus protocol, forming the basis of the network's Proof-of-Stake validation model, was formally outlined, defining validator coordination and block finality mechanisms.
- Community Transition and Development Resumption (May 2020–2021): Following Telegram's withdrawal from the project, open-source contributors (NewTON) resumed development using existing documentation, leading to the continuation of protocol development under community stewardship.
- Mainnet Renaming and TON Foundation Formation (May 2021): The stable "Testnet2" network was officially renamed to Mainnet, and development activities were reorganised under the TON Foundation.
- Implementation of Deflationary Mechanisms (Q2 2023): Changes to protocol rules affecting transaction fee handling introduced deflationary dynamics to the Toncoin supply.
- Telegram Advertising Revenue Sharing Integration (February 2024): Telegram (popular chat application) announced and launched a platform-wide advertising and monetization model that integrates the TON blockchain as the exclusive settlement layer for advertising payments and creator revenue distribution.
- Introduction of TOLK Programming Language (2024): A new high-level programming language, derived from FunC, was introduced to support smart-contract development on the TON protocol.
- xStocks Launch on TON (December 18, 2025): Real-world tokenized U.S. stocks and ETFs became available on-chain via TON Wallet.

#### Future milestones:

- Cross-Chain BTC Teleport Deployment (2026 onwards): Functionality enabling the transfer of Bitcoin into the TON ecosystem was released, expanding cross-chain interaction capabilities.

- Extended Sidechain Research and Deployment (Post-2026): Further research and potential deployment of sidechains are anticipated to support additional scalability and specialised execution environments.

## **D.9 Resource allocation**

Not applicable – no specific project-level resources beyond the issuer's general operations as described under D.4 have been identified or disclosed. This limits investors' ability to assess the funding and staffing dedicated specifically to this project.

## **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**

Crypto Risk Metrics GmbH is the person seeking admission to trading.

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

The purpose of seeking admission to trading is to enable the crypto-asset to be listed on a regulated platform in accordance with the applicable provisions of Regulation (EU) 2023/1114 and Commission Implementing Regulation (EU) 2024/2984. The white paper has been drawn up to comply with the transparency requirements applicable to trading venues.

## **E.3 Fundraising target**

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

## **E.4 Minimum subscription goals**

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

## **E.5 Maximum subscription goals**

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

## **E.6 Oversubscription acceptance**

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

## **E.7 Oversubscription allocation**

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

## **E.8 Issue price**

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

## **E.10 Subscription fee**

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

## **E.11 Offer price determination method**

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

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

The TON crypto-asset has an initial supply of 5,000,000,000 units. However, the supply is not static and is subject to both inflationary and deflationary mechanisms controlled by the network protocol. The current circulation supply can be traced here: <https://tonscan.com/statistics>

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**

The admission of the crypto-asset to trading is open to all types of investors.

## **E.14 Holder restrictions**

Holder restrictions are subject to the rules applicable to the crypto-asset service provider, as well as to any additional restrictions such provider may impose.

## **E.15 Reimbursement notice**

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

### **E.16 Refund mechanism**

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

### **E.17 Refund timeline**

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

### **E.18 Offer phases**

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

### **E.19 Early purchase discount**

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

### **E.20 Time-limited offer**

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

### **E.21 Subscription period beginning**

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

### **E.22 Subscription period end**

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

### **E.24 Payment methods for crypto-asset purchase**

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

### **E.25 Value transfer methods for reimbursement**

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

### **E.26 Right of withdrawal**

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

### **E.27 Transfer of purchased crypto-assets**

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

### **E.28 Transfer time schedule**

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

### **E.29 Purchaser's technical requirements**

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

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

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

### **E.31 CASP identifier**

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

### **E.32 Placement form**

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

### **E.33 Trading platforms name**

The admission to trading is sought on Payward Global Solutions LTD ("Kraken").

### **E.34 Trading platforms Market identifier code (MIC)**

The Market Identifier Code (MIC) of Payward Global Solutions LTD ("Kraken") is PGSL.

### **E.35 Trading platforms access**

The token is intended to be listed on the trading platform operated by Payward Global Solutions LTD ("Kraken"). Access to this platform depends on regional availability and user eligibility under Kraken's terms and conditions. Investors should consult Kraken's official documentation to determine whether they meet the requirements for account creation and token trading.

### **E.36 Involved costs**

The costs involved in accessing the trading platform depend on the specific fee structure and terms of the respective crypto-asset service provider. These may include trading fees, deposit or withdrawal charges, and network-related gas fees. Investors are advised to consult the applicable fee schedule of the chosen platform before engaging in trading activities.

### **E.37 Offer expenses**

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

### **E.38 Conflicts of interest**

MiCAR-compliant crypto-asset service providers shall have strong measures 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.

Crypto Risk Metrics GmbH has established, implemented, and documented comprehensive internal policies and procedures for the identification, prevention, management, and documentation of conflicts of interest in accordance with applicable regulatory requirements. These internal measures are actively applied within the organisation. For the purposes of this specific assessment and the crypto-asset covered by this white paper, a token-specific review has been conducted by Crypto Risk Metrics GmbH. Based on this individual review, no conflicts of interest relevant to this crypto-asset have been identified at the time of preparation of this white paper.

### **E.39 Applicable law**

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

### **E.40 Competent court**

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

## **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 (MiCA) but is neither classified 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 governed by a stabilisation mechanism. It is neither pegged to any fiat currency nor backed by any external assets, thereby clearly distinguishing it from EMTs and ARTs.

Furthermore, the crypto-asset is not categorised 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

According to public information available on the official website (<https://docs.ton.org/>) the TON crypto-asset is the native crypto-asset of the TON protocol and is intended to function as the primary on-chain economic and coordination mechanism within the TON protocol.

Within the TON environment, Toncoin is required to pay transaction fees, smart-contract execution ("gas"), and persistent on-chain storage, reflecting the protocol's resource-based accounting model in which every account operates as a smart contract under an actor-based architecture. Toncoin further plays a role in the network's Proof-of-Stake consensus system, where validators are required to lock substantial amounts of TON to participate in block production and network security, and may receive rewards in the form of newly issued TON and a share of transaction and storage fees. In addition, Toncoin serves as the medium of exchange for protocol-level services such as TON DNS, TON Storage, and TON Proxy, which rely on TON payments for domain registration, decentralised data hosting, and anonymised network traffic. Beyond the base protocol, Toncoin is also integrated into Telegram's advertising and monetisation infrastructure, where it is used for ad payments, revenue sharing with channel operators, and peer-to-peer transfers within the Telegram application, subject to the availability and correct functioning of the TON network and its associated software systems.

The TON crypto-asset does not confer ownership, profit participation, governance rights over the issuer or any related entity, or any form of economic entitlement. All functionalities are technical in nature and relate exclusively to interactions within the TON protocol environment. The actual usability of TON depends on factors such as system stability, smart-contract execution, development progress, governance decisions, and the operational conditions of the TON blockchain, which are outside the control of token holders.

## F.3 Planned application of functionalities

Future milestones:

- Cross-Chain BTC Teleport Deployment (2026 onwards): Functionality enabling the transfer of Bitcoin into the TON ecosystem was released, expanding cross-chain interaction capabilities.
- Extended Sidechain Research and Deployment (Post-2026): Further research and potential deployment of sidechains are anticipated to support additional scalability and specialised execution environments.

**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 type of submission is NEWT (New white paper).

## **F.6 Crypto-asset characteristics**

The crypto-asset referred to herein is a crypto-asset other than EMTs and ARTs, and is available on the TON network. The crypto-asset is fungible up to 9 digits after the decimal point. The crypto-asset constitutes a digital representation recorded on distributed-ledger technology and does not confer ownership, governance, profit participation, or any other legally enforceable rights. Any functionalities associated with the token are limited to potential technical features within the relevant platform environment. These functionalities do not represent contractual entitlements and may depend on future development decisions, technical design choices, and operational conditions. The crypto-asset does not embody intrinsic economic value; instead, its value, if any, is determined exclusively by market dynamics such as supply, demand, and liquidity in secondary markets.

## **F.7 Commercial name or trading name**

Long Name: "Toncoin" according to the Digital Token Identifier Foundation ([www.dtif.org](http://www.dtif.org), DTI see F.13, FFG DTI see F.14 as of 2026-01-12).

## **F.8 Website of the issuer**

Not applicable.

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

2026-02-11

## **F.10 Publication date**

2026-02-11

## **F.11 Any other services provided by the issuer**

No such services are currently known to be provided by the issuer. However, it cannot be excluded that additional services exist or may be offered in the future outside the scope of Regulation (EU) 2023/1114.

## **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**

QBZLT5MT1

## **F.14 Functionally fungible group digital token identifier**

KK12JMBTX

## **F.15 Voluntary data flag**

This white paper has been submitted as mandatory under Regulation (EU) 2023/1114.



### **F.16 Personal data flag**

Yes, this white paper contains personal data as defined in Regulation (EU) 2016/679 (GDPR).

### **F.17 LEI eligibility**

The issuer should be eligible for a Legal Entity Identifier (LEI).

### **F.18 Home Member State**

Germany

### **F.19 Host Member States**

Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherlands, Norway, 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**

The crypto-asset does not grant any legally enforceable or contractual rights or obligations to its holders or purchasers.

Any functionalities accessible through the underlying technology are of a purely technical or operational nature and do not constitute rights comparable to ownership, profit participation, governance, or similar entitlements known from traditional financial instruments.

Accordingly, holders do not acquire any claim capable of legal enforcement against the issuer or any third party.

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

As the crypto-asset does not establish any legally enforceable rights or obligations, there are no applicable procedures or conditions for their exercise.

Any interaction or functionality that may be available within the technical infrastructure of the project – such as participation mechanisms or protocol-level features – serves operational purposes only and does not create or constitute evidence of any contractual or statutory entitlement.

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

As the crypto-asset does not confer any legally enforceable rights or obligations, there are no conditions or mechanisms under which such rights could be modified.

Adjustments to the technical protocol, smart contract logic, or related systems may occur in the ordinary course of development or maintenance.

Such changes do not alter the legal position of holders, as no contractual or regulatory rights exist. Holders should not interpret technical updates or governance-related changes as amendments to legally binding entitlements.

#### **G.4 Future public offers**

Information on the future offers to the public of crypto-assets were not available at the time of writing this white paper (2026-01-12).

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

Not applicable.

#### **G.6 Utility token classification**

No – the crypto-asset project does not concern utility tokens as defined in Article 3(9) of Regulation (EU) 2023/1114.

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

Not applicable, as the crypto-asset described herein is not a utility token.

#### **G.8 Utility tokens redemption**

Not applicable, as the crypto-asset described herein is not a utility token.

#### **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 seek admission to trading, not for the initial offer to the public.

#### **G.11 Crypto-assets transfer restrictions**

The crypto-assets themselves are not subject to any technical or contractual transfer restrictions and are generally freely transferable. However, crypto-asset service providers may impose restrictions on buyers or sellers in accordance with applicable laws, internal policies or contractual terms agreed with their clients.

#### **G.12 Supply adjustment protocols**

No – there are no fixed protocols that can increase or decrease the supply of the crypto-asset in response to changes in demand as of 2026-01-12.

However, TON is designed with protocol issuance: Toncoin was created with an initial supply of 5,000,000,000 units (5 billion, also referred to as 5 Gigatons). This supply is not fixed and may increase over time through protocol-defined validator rewards granted to participants that produce and validate blocks on the TON masterchain and shardchains. These rewards are calibrated to provide validators with approximately 20% of their staked amount per year, reflecting the

operational and security costs of running validator infrastructure. The TON protocol includes supply-reducing mechanisms: validators that violate consensus rules may be subject to slashing, under which part of their staked Toncoin is confiscated and permanently burned.

It is possible to decrease the circulating supply by transferring crypto-assets to so-called “burn addresses”. These are addresses from which the tokens are no longer intended to be transferred or accessed, effectively removing them from circulation.

### **G.13 Supply adjustment mechanisms**

The TON crypto-asset is designed as an inflationary crypto-asset with no maximum supply. Investors should note that changes in the supply of the crypto-asset can have a negative impact.

### **G.14 Token value protection schemes**

No – the crypto-asset does not have any mechanisms or schemes in place that aim to stabilise or protect its market value. Its value is determined solely by market supply and demand, and may be subject to significant volatility.

### **G.15 Token value protection schemes description**

Not applicable, as the crypto-asset in scope does not have any value protection scheme in place.

### **G.16 Compensation schemes**

No – the crypto-asset does not have any compensation scheme.

### **G.17 Compensation schemes description**

Not applicable, as the crypto-asset in scope does not have any compensation scheme in place.

### **G.18 Applicable law**

This white paper is submitted in the context of an application for admission to trading on a trading platform established in the European Union. Accordingly, this white paper shall be governed by the laws of the Federal Republic of Germany.

### **G.19 Competent court**

Any disputes arising in relation to this white paper or the admission to trading may fall under the jurisdiction of the competent courts in Hamburg, Germany.

## **Part H – information on the underlying technology**

### **H.1 Distributed ledger technology (DTL)**

The crypto-asset in scope is implemented on the TON network following the standards described below.

### **H.2 Protocols and technical standards**

The crypto-asset in scope is implemented on the TON network following the standards described below.

The following applies to TON protocol:

The TON network is described as being governed by the Catchain Consensus Protocol, a Byzantine Fault Tolerant (BFT) mechanism used for secure block generation and validation. It operates within a protocol stack where the Block Consensus Protocol (BCP) manages validator sessions, while the Abstract Datagram Network Layer (ADNL) provides the underlying peer-to-peer communication layer.

Formal protocol rules, data layouts, and binary representations are defined using TL-B (Type Language Binary), which is described as the canonical specification language for transactions, blocks, and messages. The network is also described as following a formal improvement process through TON Enhancement Proposals (TEPs), including TEP-64 (metadata) and TEP-74 (fungible tokens), which standardize ecosystem-wide implementations.

From a cryptographic and data-integrity standpoint, TON is described as using:

- SHA-256 for hashing
- Ed25519 for asymmetric digital signatures
- Merkle trees and Patricia trees for integrity verification and the generation of "Merkle proofs" for light-client verification of specific state elements

For networking and propagation, TON is described as using:

- A Kademlia-like DHT for peer discovery, with nodes identified by 256-bit abstract addresses
- Overlay networks and gossip protocols for message propagation (optimizing for low latency / high throughput)
- IETF RFC 6330 (RaptorQ) for efficient "streaming broadcasts" of block candidates between validators

### **H.3 Technology used**

The crypto-asset in scope is implemented on the TON network following the standards described below.

The following applies to TON protocol:

TON is described as an account-based ledger implementing an Actor model, where each entity (including user wallets) is an individual smart contract that maintains its own state and communicates via messages.

### 1. Ledger architecture and scalability structure:

TON is described as a multi-chain system structured as a masterchain plus multiple workchains:

- Masterchain: described as handling network configuration
- Workchains: described as handling smart-contract execution

To scale, TON is described as using an Infinite Sharding Paradigm, where workchains can be dynamically partitioned into shardchains that split or merge automatically based on transaction volume. A “vertical blockchain” mechanism is also described as enabling the network to correct invalid shardchain blocks without a traditional hard fork.

### 2. Execution environment and transaction processing:

Smart contracts execute in the TON Virtual Machine (TVM), described as a stack-based VM designed for deterministic processing. Smart contracts are described as being written in high-level languages such as Tolk or FunC, compiled into TVM bitcode.

Transactions are described as being constructed through:

- Internal messages (sent between contracts)
- External messages (sent from outside the network)

Execution is described as proceeding through distinct phases:

- storage
- credit
- compute
- action

### 3. Data representation and storage model:

Data is described as being represented via the “Bag of Cells” model: a directed acyclic graph (DAG) of immutable cells, each limited to 1023 bits and four references to other cells.

#### 4. Off-chain / additional components

The ecosystem is described as integrating additional components, including:

- TON Storage (decentralized file hosting)
- TON Proxy (network anonymization)

### **H.4 Consensus mechanism**

The crypto-asset in scope is implemented on the TON network following the standards described below.

The following applies to TON protocol:

Toncoin utilizes a Proof of Stake (PoS) model with the Catchain consensus algorithm to provide a secure, scalable, and efficient multi-chain environment.

Core Components of Toncoin's Consensus:

#### 1. Proof of Stake (PoS) with Validators:

- Validator Role: Validators are required to stake Toncoin to participate in consensus. They validate transactions and secure the network by processing blocks and maintaining network integrity.

#### 2. Catchain Consensus Algorithm:

- High Scalability and Speed: The Catchain consensus protocol is specifically designed for Toncoin's multi-chain architecture, optimizing for fast and scalable operations across multiple shards.
- Multi-Chain Compatibility: Catchain supports a sharded environment, allowing different chains (or shards) to reach consensus efficiently. This approach enhances the network's ability to process a high volume of transactions in parallel.

#### 3. Byzantine Fault Tolerance (BFT):

- Fault Tolerance: The Catchain protocol is Byzantine Fault Tolerant (BFT), meaning it can tolerate some level of malicious or faulty behavior among validators. This BFT compliance ensures that the network remains secure and functional even when a minority of validators act maliciously.

#### 4. Validator Rotation and Slashing:

- Regular Rotation: Validators are rotated regularly to enhance decentralization and security. This system prevents any single validator or group from maintaining control over consensus indefinitely.
- Slashing for Malicious Behavior: Validators who act maliciously or fail to perform their duties may be penalized through slashing, losing a portion of their staked Toncoin. This discourages dishonest behavior and promotes reliable network participation.

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

The crypto-asset in scope is implemented on the TON network following the standards described below.

The following applies to TON protocol:

Toncoin incentivizes network security, participation, and efficiency through staking rewards, transaction fees, and slashing penalties.

Incentive Mechanisms:

### **1. Staking Rewards for Validators:**

- Rewards for Securing the Network: Validators earn staking rewards for actively participating in the network's consensus process and ensuring its security. These rewards are provided in Toncoin and are proportional to each validator's staked amount, encouraging validators to maintain their roles responsibly.

### **2. Transaction Fees:**

- Ongoing Income for Validators: Validators also receive a share of transaction fees from the blocks they validate, providing a consistent reward that grows with network usage. This additional income incentivizes validators to process transactions accurately and efficiently.

### **3. Decentralization through Validator Rotation:**

- Fair and Balanced Participation: The frequent rotation of validators ensures that new participants can join the validator set, promoting decentralization and preventing monopolization of the network by a small group of validators.

### **4. Slashing Mechanism:**

- Penalties for Dishonest Behavior: To maintain security, Toncoin enforces a slashing mechanism that penalizes validators who act maliciously or fail to fulfill their duties. This risk of losing staked Toncoin encourages validators to behave honestly and fulfill their responsibilities.

## 5. Applicable Fees:

- Transaction Fees: Transaction fees on the TON blockchain are paid in Toncoin. These fees vary based on transaction complexity and network demand, ensuring that validators are compensated for their work and that resources are efficiently utilized.

## H.6 Use of distributed ledger technology

No – DLT is not operated by the issuer, the offeror, the person seeking admission to trading, or any third-party acting on their behalf.

## H.7 DLT functionality description

Not applicable, as the DLT is not operated by the issuer, the offeror, the person seeking admission to trading, or any third-party acting on their behalf.

## H.8 Audit

As the term “technology” encompasses a broad range of components, it cannot be confirmed that all elements or aspects of the technology employed have undergone a comprehensive and systematic technical examination. Accordingly, the answer to whether an audit of the technology used has been conducted must be no. This white paper focuses primarily on risk-related aspects and therefore does not imply, nor should it be interpreted as implying, that a full assessment or audit of all technological elements has been conducted.

## H.9 Audit outcome

Not applicable, as no comprehensive audit of the technology used has been conducted or can be confirmed.

# Part I – Information on risks

## I.1 Offer-related risks

### 1. Regulatory and Compliance

Regulatory frameworks applicable to crypto-asset services in the European Union and in third countries are evolving. Supervisory authorities may introduce, interpret, or enforce rules that affect (i) the eligibility of this crypto-asset for admission to trading, (ii) the conditions under which a crypto-asset service provider may offer trading, custody, or transfer services for it, or (iii) the persons or jurisdictions to which such services may be provided. As a result, the crypto-asset service provider admitting this crypto-asset to trading may be required to suspend, restrict, or terminate trading or withdrawals for regulatory reasons, even if the crypto-asset itself continues to function on its underlying network.

### 2. Trading venue and connection risk



Trading in the crypto-asset depends on the uninterrupted operation of the trading platform admitting it and, where applicable, on its technical connections to external liquidity sources or venues. Interruptions such as system downtime, maintenance, faulty integrations, API changes, or failures at an external venue can temporarily prevent order placement, execution, deposits, or withdrawals, even when the underlying blockchain is functioning. In addition, trading platforms in emerging markets may operate under differing governance, compliance, and oversight standards, which can increase the risk of operational failures or disorderly market conditions.

### 3. Market formation and liquidity conditions

The price and tradability of the crypto-asset depend on actual trading activity on the venues to which the service provider is connected, whether centralized exchanges (CEXs) or decentralized exchanges (DEXs). Trading volumes may at times be low, order books thin, or liquidity concentrated on a single venue. In such conditions, buy or sell orders may not be executed in full or may be executed only at a less favorable price, resulting in slippage.

**Volatility:** The market price of the crypto-asset may fluctuate significantly over short periods, including for reasons that are not linked to changes in the underlying project or protocol. Periods of limited liquidity, shifts in overall market sentiment, or trading on only a small number of CEXs or DEXs can amplify these movements and lead to higher slippage when orders are executed. As a result, investors may be unable to sell the crypto-asset at or close to a previously observed price, even though no negative project-specific event has occurred.

### 4. Counterparty and service-provider dependence

The admission of the crypto-asset to trading may rely on several external parties, such as connected centralized or decentralized trading venues, liquidity providers, brokers, custodians, or technical integrators. If any of these counterparties fail to perform, suspend their services, or apply internal restrictions, the trading, deposit, or withdrawal of the crypto-asset on the admitting service provider can be interrupted or halted.

**Quality of counterparties:** Trading venues and service providers in certain jurisdictions may operate under regulatory or supervisory standards that are lower or differently enforced than those applicable in the European Union. In such environments, deficiencies in governance, risk management, or compliance may remain undetected, which increases the probability of abrupt service interruptions, investigations, or forced wind-downs.

**Delisting and service suspension:** The crypto-asset's availability may depend on the internal listing decisions of these counterparties. A delisting or suspension on a key connected venue can materially reduce liquidity or make trading temporarily impossible on the admitting service provider, even if the underlying crypto-asset continues to function.

**Insolvency of counterparties:** If a counterparty involved in holding, routing, or settling the crypto-asset becomes insolvent, enters restructuring, or is otherwise subject to resolution-type measures, assets held or processed by that counterparty may be frozen, become temporarily unavailable, or be recoverable only in part or not at all, which can result in losses for clients whose positions were

maintained through that counterparty. This risk applies in particular where client assets are held on an omnibus basis or where segregation is not fully recognized in the counterparty's jurisdiction.

#### 5. Operational and information risks

Due to the irrevocability of blockchain transactions, incorrect approvals or the use of wrong networks or addresses will typically make the transferred funds irrecoverable. Because trading may also rely on technical connections to other venues or service providers, downtime or faulty code in these connections can temporarily block trading, deposits, or withdrawals even when the underlying blockchain is functioning. In addition, different groups of market participants may have unequal access to technical, governance, or project-related information, which can lead to information asymmetry and place less informed investors at a disadvantage when making trading decisions.

#### 6. Market access and liquidity concentration risk

If the crypto-asset is only available on a limited number of trading platforms or through a single market-making entity, this may result in reduced liquidity, greater price volatility, or periods of inaccessibility for retail holders.

### **I.2 Issuer-related risks**

#### 1. Insolvency of the issuer

As with any commercial entity, the issuer may face insolvency risks. These may result from insufficient funding, low market interest, mismanagement, or external shocks (e.g. pandemics, wars). In such a case, ongoing development, support, and governance of the project may cease, potentially affecting the viability and tradability of the crypto-asset.

#### 2. Legal and regulatory risks

The issuer operates in a dynamic and evolving regulatory environment. Failure to comply with applicable laws or regulations in relevant jurisdictions may result in enforcement actions, penalties, or restrictions on the project's operations. These may negatively impact the crypto-asset's availability, market acceptance, or legal status.

#### 3. Operational risks

The issuer may fail to implement adequate internal controls, risk management, or governance processes. This can result in operational disruptions, financial losses, delays in updating the white paper, or reputational damage.

#### 4. Governance and decision-making

The issuer's management body is responsible for key strategic, operational, and disclosure decisions. Ineffective governance, delays in decision-making, or lack of resources may compromise

the stability of the project and its compliance with MiCA requirements. High concentration of decision-making authority or changes in ownership/control can amplify these risks.

#### 5. Reputational risks

The issuer's reputation may be harmed by internal failures, external accusations, or association with illicit activity. Negative publicity can reduce trust in the issuer and impact the perceived legitimacy or value of the crypto-asset.

#### 6. Counterparty dependence

The issuer may depend on third-party providers for certain core functions, such as technology development, marketing, legal advice, or infrastructure. If these partners discontinue their services, change ownership, or underperform, the issuer's ability to operate the project or maintain investor communication may be impaired. This could disrupt project continuity or undermine market confidence, ultimately affecting the crypto-asset's value.

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

#### 1. Valuation risk

The crypto-asset does not represent a claim, nor is it backed by physical assets or legal entitlements. Its market value is driven solely by supply and demand dynamics and may fluctuate significantly. In the absence of fundamental value anchors, such assets can lose their entire market value within a very short time. Historical market behaviour has shown that some types of crypto-assets – such as meme coins or purely speculative tokens – have become worthless. Investors should be aware that this crypto-asset may lose all of its value.

#### 2. Market volatility risk

Crypto-asset prices can fluctuate sharply due to changes in market sentiment, macroeconomic conditions, regulatory developments, or technology trends. Such volatility may result in rapid and significant losses. Holders should be prepared for the possibility of losing the full amount invested.

#### 3. Liquidity and price-determination risk

Low trading volumes, fragmented trading across venues, or the absence of active market makers can restrict the ability to buy or sell the crypto-asset. In such situations, it is not guaranteed that an observable market price will exist at all times. Spreads may widen materially, and orders may only be executable under unfavourable conditions, which can make liquidation costly or temporarily impossible.

#### 4. Asset security risk

Loss or theft of private keys, unauthorised access to wallets, or failures of custodial or exchange service providers can result in the irreversible loss of assets. Because blockchain transactions are final, recovery of funds after a compromise is generally impossible.

#### 5. Fraud and scam risk

The pseudonymous and irreversible nature of blockchain transactions can attract fraudulent schemes. Typical forms include fake or unauthorised crypto-assets imitating established ones, phishing attempts, deceptive airdrops, or social-engineering attacks. Investors should exercise caution and verify the authenticity of counterparties and information sources.

#### 6. Legal and regulatory reclassification risk

Legislative or regulatory changes in the European Union or in the Member State where the crypto-asset is admitted to trading may alter its legal classification, permitted uses, or tradability. In third countries, the crypto-asset may be treated as a financial instrument or security, which can restrict its offering, trading, or custody.

#### 7. Absence of investor protection

The crypto-asset is not covered by investor-compensation or deposit-guarantee schemes. In the event of loss, fraud, or insolvency of a service provider, holders may have no access to recourse mechanisms typically available in regulated financial markets.

#### 8. Counterparty risk

Reliance on third-party exchanges, custodians, or intermediaries exposes holders to operational failures, insolvency, or fraud of these parties. Investors should conduct due diligence on service providers, as their failure may lead to the partial or total loss of held assets.

#### 9. Reputational risk

Negative publicity related to security incidents, misuse of blockchain technology, or associations with illicit activity can damage public confidence and reduce the crypto-asset's market value.

#### 10. Community and sentiment risk

Because the crypto-asset's perceived relevance and expected future use depend largely on community engagement and the prevailing sentiment, a loss of public interest, negative coverage or reduced activity of key contributors can materially reduce market demand.

#### 11. Macroeconomic and interest-rate risk

Fluctuations in interest rates, exchange rates, general market conditions, or overall market volatility can influence investor sentiment towards digital assets and affect the crypto-asset's market value.

#### 12. Taxation risk

Tax treatment varies across jurisdictions. Holders are individually responsible for complying with all applicable tax laws, including the reporting and payment of taxes arising from the acquisition, holding, or disposal of the crypto-asset.

#### 13. Anti-money-laundering and counter-terrorist-financing risk

Wallet addresses or transactions connected to the crypto-asset may be linked to sanctioned or illicit activity. Regulatory responses to such findings may include transfer restrictions, report obligations, or the freezing of assets on certain venues.

#### 14. Market-abuse risk

Due to limited oversight and transparency, crypto-assets may be vulnerable to market-abuse practices such as spoofing, pump-and-dump schemes, or insider trading. Such activities can distort prices and expose holders to sudden losses.

#### 15. Legal ownership and jurisdictional risk

Depending on the applicable law, holders of the crypto-asset may not have enforceable ownership rights or effective legal remedies in cases of disputes, fraud, or service failure. In certain jurisdictions, access to exchanges or interfaces may be restricted by regulatory measures, even if on-chain transfer remains technically possible.

#### 16. Concentration risk

A large proportion of the total supply may be held by a small number of holders. This can enable market manipulation, governance dominance, or sudden large-scale liquidations that adversely affect market stability, price levels, and investor confidence.

### **I.4 Project implementation-related risks**

As this white paper relates to the admission to trading of the crypto-asset, the following risk description reflects general implementation risks on the crypto-asset service provider's side typically associated with crypto-asset projects. The party admitting the asset to trading is not involved in the project's implementation and does not assume responsibility for its governance, funding, or execution.

Delays, failures, or changes in the implementation of the project as outlined in its public roadmap or technical documentation may negatively impact the perceived credibility or usability of the crypto-

asset. This includes risks related to project governance, resource allocation, technical delivery, and team continuity.

**Key-person risk:** The project may rely on a limited number of individuals for development, maintenance, or strategic direction. The departure, incapacity, or misalignment of these individuals may delay or derail the implementation.

**Timeline and milestone risk:** Project milestones may not be met as announced. Delays in feature releases, protocol upgrades, or external integrations can undermine market confidence and affect the adoption, use, or value of the crypto-asset.

**Delivery risk:** Even if implemented on time, certain functionalities or integrations may not perform as intended or may be scaled back during execution, limiting the token's practical utility.

## **I.5 Technology-related risks**

As this white paper relates to the admission to trading of the crypto-asset, the following risks concern the underlying distributed ledger technology (DLT), its supporting infrastructure, and related technical dependencies. Failures or vulnerabilities in these systems may affect the availability, integrity, or transferability of the crypto-asset.

### **1. Blockchain dependency risk**

The functionality of the crypto-asset depends on the continuous and stable operation of the blockchain(s) on which it is issued. Network congestion, outages, or protocol errors may temporarily or permanently disrupt on-chain transactions. Extended downtime or degradation in network performance can affect trading, settlement, or usability of the crypto-asset.

### **2. Smart contract vulnerability risk**

The smart contract that defines the crypto-asset's parameters or governs its transfers may contain coding errors or security vulnerabilities. Exploitation of such weaknesses can result in unintended token minting, permanent loss of funds, or disruption of token functionality. Even after external audits, undetected vulnerabilities may persist due to the immutable nature of deployed code.

### **3. Wallet and key-management risk**

The custody of crypto-assets relies on secure private key management. Loss, theft, or compromise of private keys results in irreversible loss of access. Custodians, trading venues, or wallet providers may be targeted by cyberattacks. Compatibility issues between wallet software and changes to the blockchain protocol (e.g. network upgrades) can further limit user access or the ability to transfer the crypto-asset.

Outdated or vulnerable wallet software:

Users relying on outdated, unaudited, or unsupported wallet software may face compatibility issues, security vulnerabilities, or failures when interacting with the blockchain. Failure to update wallet software in line with protocol developments can result in transaction errors, loss of access, or exposure to known exploits.

#### 4. Network security risks

**Attack Risks:** Blockchains may be subject to denial-of-service (DoS) attacks, 51% attacks, or other exploits targeting the consensus mechanism. These can delay transactions, compromise finality, or disrupt the accurate recording of transfers.

**Centralization Concerns:** Despite claims of decentralisation, a relatively small number of validators or a high concentration of stake may increase the risk of collusion, censorship, or coordinated network downtime, which can affect the resilience and operational reliability of the crypto-asset.

#### 5. Bridge and interoperability risk

Where tokens can be bridged or wrapped across multiple blockchains, vulnerabilities in bridge protocols, validator sets, or locking mechanisms may result in loss, duplication, or misrepresentation of assets. Exploits or technical failures in these systems can instantly impact circulating supply, ownership claims, or token fungibility across chains.

#### 6. Forking and protocol-upgrade risk

Network upgrades or disagreements among node operators or validators can result in blockchain “forks”, where the blockchain splits into two or more incompatible versions that continue separately from a shared past. This may lead to duplicate token representations or incompatibilities between exchanges and wallets. Until consensus stabilises, trading or transfers may be disrupted or misaligned. Such situations may be difficult for retail holders to navigate, particularly when trading platforms or wallets display inconsistent token information.

#### 7. Economic-layer and abstraction risk

Mechanisms such as gas relayers, wrapped tokens, or synthetic representations may alter the transaction economics of the underlying token. Changes in transaction costs, token demand, or utility may reduce its usage and weaken both its economic function and perceived value within its ecosystem.

#### 8. Spam and network-efficiency risk

High volumes of low-value (“dust”) or automated transactions may congest the network, slow validation times, inflate ledger size, and raise transaction costs. This can impair performance, reduce throughput, and expose address patterns to analysis, thereby reducing network efficiency and privacy.

## 9. Front-end and access-interface risk

If users rely on centralised web interfaces or hosted wallets to interact with the blockchain, service outages, malicious compromises, or domain expiries affecting these interfaces may block access to the crypto-asset, even while the blockchain itself remains fully functional. Dependence on single web portals introduces a critical point of failure outside the DLT layer.

## 10. Decentralisation claim risk

While the technical infrastructure may appear distributed, the actual governance or economic control of the project may lie with a small set of actors. This disconnect between marketing claims and structural reality can lead to regulatory scrutiny, reputational damage, or legal uncertainty – especially if the project is presented as ‘community-governed’ without substantiation.

### 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**

Toncoin

#### **S.4 Consensus Mechanism**

Toncoin utilizes a Proof of Stake (PoS) model with the Catchain consensus algorithm to provide a secure, scalable, and efficient multi-chain environment.

Core Components of Toncoin's Consensus:

#### 1. Proof of Stake (PoS) with Validators:

- Validator Role: Validators are required to stake Toncoin to participate in consensus. They validate transactions and secure the network by processing blocks and maintaining network integrity.

#### 2. Catchain Consensus Algorithm:



- High Scalability and Speed: The Catchain consensus protocol is specifically designed for Toncoin's multi-chain architecture, optimizing for fast and scalable operations across multiple shards.

- Multi-Chain Compatibility: Catchain supports a sharded environment, allowing different chains (or shards) to reach consensus efficiently. This approach enhances the network's ability to process a high volume of transactions in parallel.

### 3. Byzantine Fault Tolerance (BFT):

- Fault Tolerance: The Catchain protocol is Byzantine Fault Tolerant (BFT), meaning it can tolerate some level of malicious or faulty behavior among validators. This BFT compliance ensures that the network remains secure and functional even when a minority of validators act maliciously.

### 4. Validator Rotation and Slashing:

- Regular Rotation: Validators are rotated regularly to enhance decentralization and security. This system prevents any single validator or group from maintaining control over consensus indefinitely.

- Slashing for Malicious Behavior: Validators who act maliciously or fail to perform their duties may be penalized through slashing, losing a portion of their staked Toncoin. This discourages dishonest behavior and promotes reliable network participation.

## **S.5 Incentive Mechanisms and Applicable Fees**

Toncoin incentivizes network security, participation, and efficiency through staking rewards, transaction fees, and slashing penalties.

Incentive Mechanisms:

#### 1. Staking Rewards for Validators:

- Rewards for Securing the Network: Validators earn staking rewards for actively participating in the network's consensus process and ensuring its security. These rewards are provided in Toncoin and are proportional to each validator's staked amount, encouraging validators to maintain their roles responsibly.

#### 2. Transaction Fees:

- Ongoing Income for Validators: Validators also receive a share of transaction fees from the blocks they validate, providing a consistent reward that grows with network usage. This additional income incentivizes validators to process transactions accurately and efficiently.

#### 3. Decentralization through Validator Rotation:

- Fair and Balanced Participation: The frequent rotation of validators ensures that new participants can join the validator set, promoting decentralization and preventing monopolization of the network by a small group of validators.

#### 4. Slashing Mechanism:

- Penalties for Dishonest Behavior: To maintain security, Toncoin enforces a slashing mechanism that penalizes validators who act maliciously or fail to fulfill their duties. This risk of losing staked Toncoin encourages validators to behave honestly and fulfill their responsibilities.

#### 5. Applicable Fees:

- Transaction Fees: Transaction fees on the TON blockchain are paid in Toncoin. These fees vary based on transaction complexity and network demand, ensuring that validators are compensated for their work and that resources are efficiently utilized.

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

2025-01-12

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

2026-01-12

### **S.8 Energy consumption**

1419120.00000 kWh/a

### **S.9 Energy consumption sources and methodologies**

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. 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.

### **S.10 Renewable energy consumption**

37.9124101186 %

### **S.11 Energy intensity**

0.00003 kWh

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

0.00000 tCO<sub>2</sub>e/a

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

472.30168 tCO<sub>2</sub>e/a

### **S.14 GHG intensity**

0.00001 kgCO<sub>2</sub>e

### **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.

