

Pudgy Penguins (PENGU)
White paper

In accordance with Title II of Regulation (EU) 2023/1114 (MiCA)

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N	Field	Content
0	Table of content	<p>Table of content 2</p> <p>Date of notification 6</p> <p>Statement in accordance with Article 6(3) of Regulation (EU) 2023/1114 6</p> <p>Compliance statement in accordance with Article 6(6) of Regulation (EU) 2023/1114 7</p> <p>Statement in accordance with Article 6(5), points (a), (b), (c) of Regulation (EU) 2023/1114 7</p> <p>Statement in accordance with Article 6(5), point (d) of Regulation (EU) 2023/1114 7</p> <p>Statement in accordance with Article 6(5), points (e) and (f) of Regulation (EU) 2023/1114 7</p> <p>Summary 7</p> <p>Warning in accordance with Article 6(7), second subparagraph of Regulation (EU) 2023/1114 7</p> <p>Characteristics of the crypto-asset 8</p> <p>Information about the quality and quantity of goods or services to which the utility tokens give access and restrictions on the transferability 8</p> <p>Key information about the offer to the public or admission to trading 8</p> <p>Part I – Information on risks 9</p> <p>Offer-Related Risks 9</p> <p>Issuer-Related Risks 9</p> <p>Crypto-Assets-related Risks 10</p> <p>Project Implementation-Related Risks 11</p> <p>Technology-Related Risks 11</p> <p>Mitigation measures 11</p> <p>Part A - Information about the offeror or the person seeking admission to trading 12</p> <p>Name 12</p> <p>Legal form 12</p> <p>Registered address 12</p> <p>Head office 12</p> <p>Registration Date 12</p> <p>Legal entity identifier 12</p> <p>Another identifier required pursuant to applicable national law 12</p> <p>Contact telephone number 12</p> <p>E-mail address 12</p> <p>Response Time (Days) 12</p> <p>Parent Company 12</p> <p>Members of the Management body 13</p>

	Business Activity	13
	Parent Company Business Activity	13
	Newly Established	13
	Financial condition for the past three years	13
	Financial condition since registration	13
	Part B - Information about the issuer, if different from the offeror or person seeking admission to trading	13
	Issuer different from offeror or person seeking admission to trading	13
	Name	13
	Legal form	13
	Registered address	13
	Head office	14
	Registration Date	14
	Legal entity identifier	14
	Another identifier required pursuant to applicable national law	14
	Parent Company	14
	Members of the Management body	14
	Business Activity	14
	Parent Company Business Activity	14
	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	14
	Name	14
	Legal form	14
	Registered address	14
	Head office	15
	Registration Date	15
	11-07-2023	15
	Legal entity identifier of the operator of the trading platform	15
	Another identifier required pursuant to applicable national law	15
	Parent Company	15
	Reason for Crypto-Asset White Paper Preparation	15
	Members of the Management body	15
	Operator Business Activity	15
	Parent Company Business Activity	16
	Other persons drawing up the crypto-asset white paper according to Article 6(1), second subparagraph, of Regulation (EU) 2023/1114	16
	Reason for drawing the white paper by persons referred to in Article 6(1), second subparagraph, of Regulation (EU) 2023/1114	16
	Part D- Information about the crypto-asset project	16

	Crypto-asset project name	16
	Crypto-assets name	17
	Abbreviation	17
	Crypto-asset project description	17
	Details of all natural or legal persons involved in the implementation of the crypto-asset project	17
	Utility Token Classification	17
	Key Features of Goods/Services for Utility Token Projects	17
	Plans for the token	17
	Resource Allocation	17
	Planned Use of Collected Funds or Crypto-Assets	18
	Part E - Information about the offer to the public of crypto-assets or their admission to trading	18
	Public Offering or Admission to trading	18
	Reasons for Public Offer or Admission to trading	18
	Fundraising Target	18
	Minimum Subscription Goals	18
	Maximum Subscription Goal	18
	Oversubscription Acceptance	18
	Oversubscription Allocation	18
	Issue Price	18
	Official currency or other crypto-assets determining the issue price	19
	Subscription fee	19
	Offer Price Determination Method	19
	Total Number of Offered/Traded crypto-assets	19
	Targeted Holders	19
	Holder restrictions	19
	Reimbursement Notice	19
	Refund Mechanism	19
	Refund Timeline	19
	Offer Phases	19
	Early Purchase Discount	19
	time-limited offer	20
	Subscription period beginning	20
	Subscription period end	20
	Safeguarding Arrangements for Offered Funds/crypto-assets	20
	Payment Methods for crypto-asset Purchase	20
	Value Transfer Methods for Reimbursement	20
	Right of Withdrawal	20
	Transfer of Purchased crypto-assets	20

	Transfer Time Schedule	20
	Purchaser's Technical Requirements	20
	crypto-asset service provider (CASP) name	21
	CASP identifier	21
	Placement form	21
	Trading Platforms name	21
	Trading Platforms Market Identifier Code (MIC)	21
	Trading Platforms Access	21
	Involved costs	21
	Offer Expenses	21
	Conflicts of Interest	21
	Applicable law	21
	Competent court	21
	Part F - Information about the crypto-assets	22
	Crypto-Asset Type	22
	Crypto-Asset Functionality	22
	Planned Application of Functionalities	22
	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	22
	Type of white paper	22
	The type of submission	22
	Crypto-Asset Characteristics	22
	Commercial name or trading name	22
	Website of the issuer	22
	Starting date of offer to the public or admission to trading	22
	Publication date	23
	Any other services provided by the issuer	23
	Identifier of operator of the trading platform	23
	Language or languages of the white paper	23
	Digital Token Identifier	23
	Functionally Fungible Group Digital Token Identifier	23
	Voluntary data flag	23
	Personal data flag	23
	LEI eligibility	23
	Home Member State	23
	Host Member States	23
	Part G - Information on the rights and obligations attached to the crypto-assets	24
	Purchaser Rights and Obligations	24

	Exercise of Rights and obligations	24
	Conditions for modifications of rights and obligations	24
	Future Public Offers	24
	Issuer Retained Crypto-Assets	24
	Utility Token Classification	24
	Key Features of Goods/Services of Utility Tokens	24
	Utility Tokens Redemption	25
	Non-Trading request	25
	Crypto-Assets purchase or sale modalities	25
	Crypto-Assets Transfer Restrictions	25
	Supply Adjustment Protocols	25
	Supply Adjustment Mechanisms	25
	Token Value Protection Schemes	25
	Token Value Protection Schemes Description	25
	Compensation Schemes	25
	Compensation Schemes Description	25
	Applicable law	26
	Competent court	26
	Part H – information on the underlying technology	26
	Distributed ledger technology	26
	Protocols and technical standards	26
	Technology Used	26
	Consensus Mechanism	26
	Incentive Mechanisms and Applicable Fees	26
	Use of Distributed Ledger Technology	26
	DLT Functionality Description	26
	Audit	27
	Audit outcome	27
	Part J - Information on the suitability indicators in relation to adverse impact on	27
	the climate and other environment-related adverse impacts	27
	Name	27
	Relevant legal entity identifier	27
	Name of the crypto-asset	27
	Consensus Mechanism	27
	Incentive Mechanisms and Applicable Fees	28
	Beginning of the period to which the disclosure relates	30
	End of the period to which the disclosure relates	30
	Energy consumption	30

		Energy consumption sources and methodologies	30
01	Date of notification	2025-06-12	
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 operator of the trading platform 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 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 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	false	
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. The crypto-asset referred to in this white paper is not covered by 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	<p>Warning</p> <p>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 admission to trading 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 (36) or any other offer document pursuant to Union or national law.</p>																		
08	Characteristics of the crypto-asset	<p>PENGU is a fungible token deployed on the Solana blockchain. Holders may use PENGU to purchase goods from the official Pudgy Penguins store as well as thousands of other Shopify stores.</p> <p>The maximum fixed supply of PENGU is 88 888 888 888 tokens, all minted at the Token Generation Event. This supply was allocated as follows at launch:</p> <table><tr><th>Category</th><th>Allocation (approximate)</th></tr><tr><td>Pudgy community</td><td>25,9%</td></tr><tr><td>Other communities</td><td>24,12%</td></tr><tr><td>Current & future team</td><td>17,8%</td></tr><tr><td>Liquidity</td><td>12,35%</td></tr><tr><td>Company</td><td>11,48%</td></tr><tr><td>Public goods</td><td>4%</td></tr><tr><td>Proliferation</td><td>4%</td></tr><tr><td>FTT holders</td><td>0,35%</td></tr></table> <p>PENGU tokens are freely transferable, in whole or in part, to third parties, and all associated usage rights and obligations follow the token upon transfer.</p>	Category	Allocation (approximate)	Pudgy community	25,9%	Other communities	24,12%	Current & future team	17,8%	Liquidity	12,35%	Company	11,48%	Public goods	4%	Proliferation	4%	FTT holders	0,35%
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FTT holders	0,35%																			

09	Information about the quality and quantity of goods or services to which the utility tokens give access and restrictions on the transferability	N/A
10	Key information about the offer to the public or admission to trading	Kraken seeks admission to trading of the PENGU token so as to be compliant with MiCA and in keeping with its mission to make available for trading to its clients a wide range of assets.
Part I – Information on risks		
I.1	Offer-Related Risks	<p>General Risk Factors Associated with Crypto-Asset Offerings The admission to trading of crypto-assets, including PENGU, is subject to general risks inherent to the broader cryptocurrency market.</p> <p>Market Volatility The value of PENGU may experience substantial fluctuations driven by investor sentiment, macroeconomic developments, and market conditions.</p> <p>Regulatory Risks Changes in legislation, applicable laws, compliance requirements or the implementation of new regulatory frameworks could affect the availability, trading, or use of such assets.</p> <p>Security Risks The risk of exploitation, hacking or security vulnerabilities of the underlying protocol and/or contracts of the token leading to a loss.</p> <p>Reputational Risks The potential for damage to an organization's credibility or public trust, which can negatively impact stakeholder confidence and overall business viability.</p>
I.2	Issuer-Related Risks	<p>Key Personnel and Management Risk The Pudgy Penguins project (including the PENGU token) is led and managed by a small team under the issuer, LSLTTT Holdings, Inc. The success of the project depends heavily on a few key individuals. If one or more of these key</p>

		<p>persons were to leave the project, lose the ability to contribute, or if there were internal disagreements within the team, the project's direction and execution could be adversely affected. The transition or replacement of key leadership could prove difficult and might slow down development or alter the project's vision for PENGU.</p> <p>Operational & Continuity Risk LSLTTT Holdings, Inc. is a relatively young company operating in a fast-changing and competitive environment. The company has a limited operating history in the Web3 domain, which makes it difficult to predict its long-term stability and capability to continuously support the PENGU ecosystem. There is a risk that the issuer may encounter business or financial challenges (for example, an inability to generate revenue from its products such as NFTs or merchandise, or unexpected increases in operational costs) that could impair its ability to maintain and promote the Pudgy Penguins platform. If the issuer were to downsize, pivot its business model, or in the worst case cease operations, support for PENGU (including further development of its use cases or ecosystem) could be reduced or eliminated.</p>
I.3	Crypto-Assets-related Risks	<p>Market Volatility The crypto-asset market is subject to significant price volatility, which may affect the value of PENGU. Prices can fluctuate rapidly and unpredictably due to various factors, including market sentiment, economic indicators, technological developments, regulatory news, and macroeconomic trends. This high level of volatility may lead to sudden gains or losses and can impact the liquidity and tradability of the crypto-asset.</p> <p>Liquidity Liquidity refers to the ability to buy or sell a crypto-asset without causing significant price impact. PENGU may experience periods of low liquidity, meaning that it could be difficult to enter or exit positions at desired prices or volumes. Reduced liquidity may result from limited market participation, exchange restrictions, or broader market conditions. This can lead to increased price volatility, slippage, and difficulty in executing transactions.</p> <p>Cybersecurity & Technology Risks Risks arising from vulnerabilities in the blockchain technology used by the project or platforms. Example risks include smart contract exploits, compromise of platforms, forking scenarios, compromise of cryptographic algorithms.</p> <p>Adoption Risks The risk associated with the project not achieving its goals leading to lower than expected adoption and use within the ecosystem, the impact leading to a reduced utility and value proposition.</p>

		<p>Custody & Ownership Risk The risk related to the inadequate safekeeping and control of crypto-assets e.g. loss of private keys, custodian insolvency leading to a loss.</p> <p>Concentration and Unlock Risk A substantial portion of PENGU's total supply is allocated to team members and the company. When these locked tokens are released, large holders could sell their tokens, which might flood the market and put downward pressure on the price. Even the anticipation of such unlock events can increase volatility.</p> <p>Market Perception and Competition PENGU's association with the Pudgy Penguins brand means its success is partly tied to the reputation and popularity of that brand. Negative developments in the Pudgy Penguins project could adversely affect perception of PENGU.</p>
I.4	Project Implementation-Related Risks	<p>Development and Roadmap Risk The Pudgy Penguins team has plans to expand the PENGU token's functionality and reach. There is a risk that some of these planned developments may be delayed, scaled back, or not achieved at all.</p>
I.5	Technology-Related Risks	<p>Smart contract risks PENGU uses smart contracts to facilitate automated transactions and processes. While these contracts enhance efficiency and decentralization, they also introduce specific technical risks. Vulnerabilities such as coding errors, design flaws, or security loopholes within the smart contract code may be exploited by malicious actors. Such exploits could result in the loss of assets, unauthorized access to sensitive information, or unintended and irreversible execution of transactions.</p> <p>Blockchain Network Risks PENGU operates on a public blockchain infrastructure, which is maintained by a decentralized network of participants. The functionality and reliability of the crypto-asset are dependent on the performance and security of the underlying blockchain. Risks may include network congestion, high transaction fees, delayed processing times, or, in extreme cases, outages and disruptions. Additionally, vulnerabilities or failures in the consensus mechanism, attacks on the network (e.g., 51% attacks), or protocol-level bugs could impact the operation and availability of PENGU.</p> <p>Risk of Cryptographic Vulnerabilities Technological advancements, such as quantum computing, could pose potential risks to cryptocurrencies.</p>

		Privacy Transactions involving PENGU are recorded on a public blockchain, where transaction data is transparent and permanently accessible. While public addresses do not directly reveal personal identities, transaction histories can be analyzed and, in some cases, linked to individuals through data aggregation or external information sources. This transparency may pose privacy concerns for users seeking confidentiality in their financial activity. Participants should be aware that transaction data on public blockchains is not inherently private and could be subject to scrutiny by third parties, including regulators, analytics firms, or malicious actors.
I.6	Mitigation measures	Use of Established Standard PENGU is implemented using a well-tested token standard (SPL on Solana) which has been widely used and vetted. By adhering to a standard protocol and not using unproven custom code where unnecessary, the project reduces the likelihood of unknown bugs.
Part A - Information about the offeror or the person seeking admission to trading		
A.1	Name	N/A
A.2	Legal form	N/A
A.3	Registered address	N/A
A.4	Head office	N/A
A.5	Registration Date	N/A
A.6	Legal entity identifier	N/A
A.7	Another identifier required pursuant to applicable national law	N/A

A.8	Contact telephone number	N/A
A.9	E-mail address	N/A
A.10	Response Time (Days)	N/A
A.11	Parent Company	N/A
A.12	Members of the Management body	N/A
A.13	Business Activity	N/A
A.14	Parent Company Business Activity	N/A
A.15	Newly Established	N/A
A.16	Financial condition for the past three years	N/A
A.17	Financial condition since registration	N/A
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	true
B.2	Name	LSLTTT Holdings, Inc.
B.3	Legal form	Corporation
B.4	Registered address	16192 Coastal Highway, Lewes, Delaware 19958, USA
B.5	Head office	N/A
B.6	Registration Date	Unknown
B.7	Legal entity identifier	Unknown
B.8	Another identifier required pursuant to applicable national law	N/A
B.9	Parent Company	Igloo, Inc.
B.10	Members of the Management body	Unknown
B.11	Business Activity	Unknown
B.12	Parent Company Business Activity	Unknown

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	Payward Global Solutions LTD		
C.2	Legal form	N/A		
C.3	Registered address	N/A		
C.4	Head office	N/A		
C.5	Registration Date	11-07-2023		
C.6	Legal entity identifier of the operator of the trading platform	9845003D98SCC2851458		
C.7	Another identifier required pursuant to applicable national law	N/A		
C.8	Parent Company	N/A		
C.9	Reason for Crypto-Asset White Paper Preparation	Kraken seeks admission to trading of the PENGU token so as to be compliant with MiCA and in keeping with its mission to make available for trading to its clients a wide range of assets.		
C.10	Members of the Management body			
		Full Name	Business Address	Function
		Shannon Kurtas	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member

		Andrew Mulvenny	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member
		Shane O'Brien	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member
		Laura Walsh	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member
		Michael Walsh	70 Sir John Rogerson's Quay, Dublin 2, Ireland	Board Member
C.11	Operator Business Activity	PGSL is the operator of a Trading Platform for Crypto Assets, in accordance with Article 3(1)(18) of Regulation (EU) 2023/1114 (MiCA).		
C.12	Parent Company Business Activity	<p>Payward, Inc., a Delaware, USA corporation, is the parent company of a worldwide group of subsidiaries (the following paragraphs use the term "Payward" or "Payward Group" to refer to the group) collectively doing business as "Kraken." Payward's primary business is the operation of an online virtual asset platform that enables clients to buy and sell virtual assets on a spot basis, including the transfer of crypto-assets to and from external wallets.</p> <p>Payward, through its various affiliates, offers a number of other services and products, including:</p> <ul style="list-style-type: none"> * A trading platform for futures contracts on virtual assets ("Kraken Derivatives"); * A platform for buying and selling NFTs; * An over-the-counter ("OTC") desk; * Extensions of margin to support spot trading of virtual assets; * A benchmark administrator; and * Staking services. 		
C.13	Other persons drawing up the crypto-asset white paper according to Article 6(1), second subparagraph, of Regulation (EU) 2023/1114	N/A		

C.14	Reason for drawing the white paper by persons referred to in Article 6(1), second subparagraph, of Regulation (EU) 2023/1114	N/A
Part D- Information about the crypto-asset project		
D.1	Crypto-asset project name	Pudgy Penguins
D.2	Crypto-assets name	Pudgy Penguins
D.3	Abbreviation	PENGU
D.4	Crypto-asset project description	Pudgy Penguins is a global entertainment and consumer-products brand that began as an 8 888-piece Ethereum NFT collection in 2021 and has since expanded into toys, apparel and mass-market licensing. In December 2024 the brand launched PENGU on Solana as its ecosystem token to open a new on-chain chapter for the IP. The token was initially distributed via an 88-day airdrop to NFT holders and selected partner communities.
D.5	Details of all natural or legal persons involved in the implementation of the crypto-asset project	<p>Issuer / Offeror: LSLTTT Holdings Inc. (d/b/a “Pudgy Penguins”) with address 16192 Coastal Highway, Lewes, Delaware 19958, USA</p> <p>Core team:</p> <ul style="list-style-type: none"> - Luca Schnetzler (aka Luca Netz): CEO - Lorenzo Melendez: President & Chief Technology Officer. - Peter Lobanov: CCO (Chief Creative Officer) - Jennifer McGlone: CLO
D.6	Utility Token Classification	false

D.7	Key Features of Goods/Services for Utility Token Projects	N/A
D.8	Plans for the token	<p>Past milestones:</p> <ul style="list-style-type: none"> - 17 Dec 2024: token generation and Solana main-net launch. <p>For further milestones, please consult the issuer's website and social channels.</p>
D.9	Resource Allocation	<p>Token allocation:</p> <ul style="list-style-type: none"> - 12.35 % – Liquidity pools - 4.00 % – Public good - 4.00 % – Proliferation <p>In addition to the token allocation, the project raised \$9M in 2023 and \$11M in 2024.</p>
D.10	Planned Use of Collected Funds or Crypto-Assets	Where applicable, planned use of any funds or other crypto-assets collected
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	ATTR
E.2	Reasons for Public Offer or Admission to trading	Making secondary trading available to the consumers on the Kraken Trading platform in compliance with the MiCA regulatory framework
E.3	Fundraising Target	N/A
E.4	Minimum Subscription Goals	N/A

E.5	Maximum Subscription Goal	N/A
E.6	Oversubscription Acceptance	N/A
E.7	Oversubscription Allocation	N/A
E.8	Issue Price	N/A
E.9	Official currency or other crypto-assets determining the issue price	N/A
E.10	Subscription fee	N/A
E.11	Offer Price Determination Method	N/A
E.12	Total Number of Offered/Traded crypto-assets	88 888 888 888 maximum supply
E.13	Targeted Holders	ALL
E.14	Holder restrictions	N/A
E.15	Reimbursement Notice	N/A

E.16	Refund Mechanism	N/A
E.17	Refund Timeline	N/A
E.18	Offer Phases	N/A
E.19	Early Purchase Discount	N/A
E.20	time-limited offer	N/A
E.21	Subscription period beginning	N/A
E.22	Subscription period end	N/A
E.23	Safeguarding Arrangements for Offered Funds/crypto-assets	N/A
E.24	Payment Methods for crypto-asset Purchase	N/A
E.25	Value Transfer Methods for Reimbursement	N/A
E.26	Right of Withdrawal	N/A

E.27	Transfer of Purchased crypto-assets	N/A
E.28	Transfer Time Schedule	N/A
E.29	Purchaser's Technical Requirements	N/A
E.30	crypto-asset service provider (CASP) name	N/A
E.31	CASP identifier	N/A
E.32	Placement form	NTAV
E.33	Trading Platforms name	N/A
E.34	Trading Platforms Market Identifier Code (MIC)	N/A
E.35	Trading Platforms Access	N/A
E.36	Involved costs	N/A
E.37	Offer Expenses	N/A

E.38	Conflicts of Interest	All listings decisions made by Payward Global Solution Ltd are made independently by staff of the entity in line with internal policies. PGSL publishes a conflicts of interest disclosure on its website advising of potential conflicts that may arise.
E.39	Applicable law	Any dispute relating to this white paper shall be governed by and construed and enforced in accordance with the laws of Ireland without regard to conflict of law rules or principles (whether of Ireland or any other jurisdiction) that would cause the application of the laws of any other jurisdiction, irrespective of whether PENGU tokens qualify as right or property under the applicable law.
E.40	Competent court	Any disputes or claims arising out of this white paper will be subject to the exclusive jurisdiction of the Irish courts.

Part F - Information about the crypto-assets

F.1	Crypto-Asset Type	PENGU is classified as a crypto-asset other than an asset referenced token or e-money token under MiCA, (EU) 2023/1114.
F.2	Crypto-Asset Functionality	PENGU's primary function is to act as a community and payment token for the Pudgy Penguins shop.
F.3	Planned Application of Functionalities	Please refer to the project's official channels for any planned application of functionalities.

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 white paper	OTHR
F.5	The type of submission	NEWT
F.6	Crypto-Asset Characteristics	PENGU's primary function is to act as a community and payment token for the Pudgy Penguins shop, and allows holders to transfer their tokens freely.

F.7	Commercial name or trading name	N/A
F.8	Website of the issuer	https://pudgypenguins.com/
F.9	Starting date of offer to the public or admission to trading	2024-12-17
F.10	Publication date	2025-07-10
F.11	Any other services provided by the issuer	N/A
F.12	Identifier of operator of the trading platform	PGSL
F.13	Language or languages of the white paper	English
F.14	Digital Token Identifier	13JBPT88T
F.15	Functionally Fungible Group Digital Token Identifier	N/A
F.16	Voluntary data flag	Mandatory

F.17	Personal data flag	true						
F.18	LEI eligibility	N/A						
F.19	Home Member State	Ireland						
F.20	Host Member States	Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden						
Part G - Information on the rights and obligations attached to the crypto-assets								
G.1	Purchaser Rights and Obligations	Transferability and Trading: Holders have the ability to transfer their PENGU tokens to others (on-chain) or to trade them on available markets at will. Obligations of Holders: There are no mandatory obligations imposed on PENGU purchasers.						
G.2	Exercise of Rights and obligations	The primary right associated with PENGU, the ability to transfer or trade the token, is exercised through standard blockchain transactions.						
G.3	Conditions for modifications of rights and obligations	The rights and obligations attached to PENGU as described in this white paper reflect information available at the time of issuance. This white paper is issued by Kraken and does not constitute a commitment or guarantee by Pudgy Penguins or any other party regarding future modifications. No promises, warranties, or assurances are made herein regarding future token functionality, and this section is provided solely for informational purposes.						
G.4	Future Public Offers	The Pudgy Penguins project has not planned any future public offerings of the PENGU token.						
G.5	Issuer Retained Crypto-Assets	<table><tr><th>Category</th><th>Allocation (approximate)</th></tr><tr><td>Current & future team</td><td>17,8%</td></tr><tr><td>Company</td><td>11,48%</td></tr></table>	Category	Allocation (approximate)	Current & future team	17,8%	Company	11,48%
Category	Allocation (approximate)							
Current & future team	17,8%							
Company	11,48%							

G.6	Utility Token Classification	false
G.7	Key Features of Goods/Services of Utility Tokens	false
G.8	Utility Tokens Redemption	N/A
G.9	Non-Trading request	This white paper reflects a request to admit the token to trading.
G.10	Crypto-Assets purchase or sale modalities	N/A
G.11	Crypto-Assets Transfer Restrictions	Kraken may, in accordance with applicable laws and internal policies and terms, impose restrictions on buyers and sellers of these tokens.
G.12	Supply Adjustment Protocols	false
G.13	Supply Adjustment Mechanisms	N/A
G.14	Token Value Protection Schemes	false
G.15	Token Value Protection Schemes Description	N/A

G.16	Compensation Schemes	false
G.17	Compensation Schemes Description	N/A
G.18	Applicable law	Any dispute relating to this white paper shall be governed by and construed and enforced in accordance with the laws of Ireland without regard to conflict of law rules or principles (whether of Ireland or any other jurisdiction) that would cause the application of the laws of any other jurisdiction, irrespective of whether PENGU tokens qualify as right or property under the applicable law.
G.19	Competent court	Any disputes or claims arising out of this white paper will be subject to the exclusive jurisdiction of the Irish courts.

Part H – information on the underlying technology

H.1	Distributed ledger technology	N/A
H.2	Protocols and technical standards	The PENGU token is based on the Solana network, which utilizes decentralized Distributed-Ledger Technology. This protocol provides the foundation for secure transactions and smart contracts. SPL Token Standard: The SPL standard is a technical protocol for issuing and managing tokens, ensuring that the PENGU token is compatible with most wallets, exchanges, and decentralized applications (DApps).
H.3	Technology Used	The PENGU token uses the existing SPL token standard on Solana.
H.4	Consensus Mechanism	Solana uses Proof-of-Stake with Tower BFT and Proof-of-History, where leaders are pre-selected by stake and transactions, including PENGU transfers, receive sub-second confirmation and high throughput.
H.5	Incentive Mechanisms and Applicable Fees	PENGU relies on the existing incentive mechanisms and fee structures of the Solana blockchain.

H.6	Use of Distributed Ledger Technology	false
H.7	DLT Functionality Description	N/A
H.8	Audit	false
H.9	Audit outcome	N/A
Part J - Information on the suitability indicators in relation to adverse impact on the climate and other environment-related adverse impacts		
S.1	Name	Payward Global Solutions Limited
S.2	Relevant legal entity identifier	9845003D98SCC2851458
S.3	Name of the crypto-asset	Pudgy Penguins
S.4	Consensus Mechanism	<p>Solana uses a unique combination of Proof of History (PoH) and Proof of Stake (PoS) to achieve high throughput, low latency, and robust security.</p> <p>Core Concepts:</p> <ol style="list-style-type: none"> 1. Proof of History (PoH): <ul style="list-style-type: none"> - Time-Stamped Transactions: PoH is a cryptographic technique that timestamps transactions, 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, enabling the network to efficiently agree on the sequence of transactions. 2. Proof of Stake (PoS): <ul style="list-style-type: none"> - 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.

		<ul style="list-style-type: none"> - Delegation: Token holders can delegate their SOL tokens to validators, earning rewards proportional to their stake while enhancing the network's security. <p>Consensus Process:</p> <ol style="list-style-type: none"> 1. Transaction Validation: <ul style="list-style-type: none"> Transactions are broadcast 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: <ul style="list-style-type: none"> A validator generates a sequence of hashes using PoH, each containing a timestamp and the previous hash. This process creates a historical record of transactions, establishing a cryptographic clock for the network. 3. Block Production: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <p>Security and Economic Incentives:</p> <ol style="list-style-type: none"> 1. Incentives for Validators: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - 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 their staked tokens. - Delegated Staking: Token holders can delegate their SOL tokens to validators, enhancing network security and decentralization. Delegators share in the rewards and are incentivized to choose reliable validators. 3. Economic Penalties:
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		<p>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.</p>
S.5	Incentive Mechanisms and Applicable Fees	<p>Solana uses a combination of Proof of History (PoH) and Proof of Stake (PoS) to secure its network and validate transactions.</p> <p>Incentive Mechanisms:</p> <ol style="list-style-type: none"> Validators: <ul style="list-style-type: none"> 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 provides an additional financial incentive for validators to process transactions efficiently and maintain the network's integrity. Delegators: <ul style="list-style-type: none"> 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 in the rewards earned by the validators. This encourages widespread participation in securing the network and ensures decentralization. Economic Security: <ul style="list-style-type: none"> 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 deters dishonest actions and ensures that validators act in the best interest of the network. Opportunity 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 <p>Transaction Fees:</p> <ol style="list-style-type: none"> Low and Predictable Fees: <p>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.</p> Fee Structure:

		<p>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.</p> <p>3. 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.</p> <p>4. 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 ensures that users are charged proportionally for the resources they consume.</p>
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 and methodologies	<p>The energy consumption of this asset is aggregated across multiple components:</p> <p>To determine the energy consumption of a token, the energy consumption of the network(s) solana is calculated first. For the energy consumption of the token, a fraction of the energy consumption of the network is attributed to the token, which is determined based on the activity of the crypto-asset within the network. When calculating the energy consumption, the Functionally Fungible Group Digital Token Identifier (FFG DTI) is used - if available - to determine all implementations of the asset in scope. The mappings are updated regularly, based on data of the Digital Token Identifier Foundation. The information regarding the hardware used and the number of participants in the network is based on assumptions that are verified with best effort using empirical data. In general, participants are assumed to be largely economically rational. As a precautionary principle, we make assumptions on the conservative side when in doubt, i.e. making higher estimates for the adverse impacts.</p>