



### TAAM\_Web3\_OSS –

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**Financial regulatory guidelines for the project are provided at the end of the paper in Section 16.**  
Scroll to the bottom of the paper for European Union (EU) Guidelines on MiCA, UK Companies House on CIC, UK FCA on Marketing Cryptocurrencies, and Bank of England IF and SCF regulatory guidelines for TAAM-WEB3 OSS.

TAAM (Toolkit for Advanced Automation Management) is an Open-Source Software project which aims to make significant and independent advancements in artificial intelligence and neuromorphic computing both fundamental and applied. The initial areas of applied research are set to Self-Driving, LLMs (Large Language Models), Cybersecurity and Robotics.

TAAM's work is independent of universities and closed source research like OpenAI, Perplexity, Microsoft, and Google – yet aims to be coordinated and work in partnership with universities and private organizations in a mutually beneficial way. TAAM's project scope in applied research is geared to benefit industrial applications and non-profits.

TAAM means taste or perception in Ancient Hebrew, and Classical Arabic signifying perception abilities of the human mind. TAAM is also often interpreted as discernment in biblical Hebrew. Medieval Jewish philosophy has popularized the study of TAAMEI haamitzvot, or the reasons for the commandments. Tamam in Arabic means "perfect" or "complete". TAAM in its derived form is also mentioned in the Qur'an over 40 times. *تَعْلِمُ مِنْ أَنْفُسِكُمْ* (In Verse (107:3:4) it encourages feeding of the poor and orphans– and commands humans to be altruistic in nature.

TAAM's project ethos is derived from best practices of open source development similar to Linux and the Apache Foundation in line with its nomenclature of being open, transparent, altruistic and for the benefit of society as a whole. Developers joining the project will be expected to show independent thinking and "discernment" in their ability to collate, synthesise, amalgamate and create ideas to push the envelope of state of the art open source artificial intelligence development while abiding by the stringent regulatory framework set out in the white paper and additional information provided by the TAAM foundation.

TAAM's financial architecture is in line with best practices for non profit, charities, CIC and IF sustainable corporation architectures shunning practices of unnatural gains and abnormal profit seeking at the expense of the wider community. TAAM aims to be a sustainable project without making unnatural gains above a 10% profit margin however is not shy of paying contributors for their hard work.

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## 1. EXECUTIVE SUMMARY

TAAM's Open-Source work focuses on delivering fundamental advances in (AI) Artificial Intelligence and Neuromorphic computing. We will look to advance both AI research and development, delivering applications into industries such as automotive, defence, medical and robotics.

TAAM will take a biology inspired approach to advancing AI, looking at the human brain as well as other animal species in advancing the next generation of AI research. Biology PhD students are therefore especially encouraged to join. Initial research work is geared towards advancing self-driving technology by taking an alternative approach to LiDAR and Ultrasonic sensors – using Infrared Heat Signatures to improve near field object detection and is inspired by Spiders and Bats.

TAAM aims to create code in line with the philosophies of the open-source movement. However some sensitive code will be kept securely and distributed to companies who buy into the project, or on a pro-bono basis to charities. The proportion of this closed code is not expected to exceed 15% of the codebase for mainstream applications developed by the TAAM foundation, however if there is a significant investment made into hardware, TAAM maintains the right not to open source the entirety of the code base to the point it can break even it's return on investment with a profit margin not exceeding 10% accounting for inflation benchmarked to the UK government's inflation index and up to that point only. Any profit seeking beyond that is strictly prohibited by the TAAM foundation explicitly and from the outset. Once this threshold is met, management is bound by the TAAM foundation's explicit charter as set out in this paper and the CIC incorporation charter of the TAAM foundation on companies house in the UK to open source all of the code.

## 2. STRUCTURE AND PARTICIPATION

TAAM operates on a bounty driven development model, encouraging and incentivising members to deliver working open source code based on bounties set by the TAAM R&D council. As such TAAM will be structured with 3 distinct groups of individuals within the organisation. Councillors, Members and Prospective members (or PMs). Members are allocated ranks from Journeyman to GuildMaster based on section 18 of the white paper. Renumeration is not tied to rank in the Guild but based on the mechanism provided in section 7 of the white paper.

Council membership is by invitation only and currently determined by the founders. This process of selection will evolve over time. Typically council membership will consist of distinguished academics, technology thought leaders, champions of industry and representatives of corporations who are

vested in TAAM and its goals. Bounties will be defined and set by the council in accordance with the coin allocation structure outlined below.

At the time of writing It is expected that membership will comprise of those with a PhD, or who are working towards a PhD, in fundamental sciences limited to Aeronautic Engineering, Artificial Intelligence, Biochemistry, Biology, Biophysics, Biotechnology, Cognitive or Decision Sciences, Computer Science, Cybersecurity, Defence Systems, Electrical Engineering, Linguistics ,Mathematics, Mechanical Engineering, Neuroscience, Physics and Psychology or related disciplines.

MSc/BSc graduates in Aviation Biology, Computer Science, Cybersecurity, Defence, Engineering, Physics or Neuroscience who work in Technology are also invited to become members

Students from other disciplines or applicants with significant industry knowledge are invited to apply for prospective membership. Applications will be assessed on a case-by-case basis after showing exceptional project work. Students past year - 8 who believe they have made a significant invention are requested to apply for internships - The TAAM Foundation will create outreach program for STEM participation for students from time to time at management's discretion.

A management group ("Management") will exist outside of the working structure of TAAM and will be responsible for governance.

### **3. TAAM's FINANCIAL STRUCTURE AND ICO**

TAAM's financial structure is based on a coin supply of 900 Billion Coins. The Coin Supply is set and will not be changed at any point now or in the future of the project. The Initial TAAM coins released to the market for liquidity will be 30 Percent and investors are given a prospective initial price of 0.01 USD per TAAM Coin. However, it is to note from a legal standpoint, each coin, similar to Bitcoin, Ethereum and other tokens on inception have zero valuation. Based on Bank of England's consultation on IF and SCF - Money has no intrinsic valuation. This initial tranche of coins will be released to the market in tranches upon receiving the equivalent of 0.01 USD per TAAM Token in Ethereum, Solana or other tokens or more or at the discretion of management and founders based on liquidity, market metrics and analytics conducted by the TAAM foundation keeping in mind the financial viability of the project. The rest of the coins will be apportioned to Developers in the form of bounties, sold to investors privately, and added to the liquidity pool upon receiving a price higher than 0.01 USD per TAAM token or at a variable price depending on market demands.

The TAAM project, as outlined, aims to create a sustainable open-source platform focusing on artificial intelligence, robotics, and cybersecurity, with a unique compensation model based on TAAM coins. To ensure the project's longevity and adaptability to market conditions, a dynamic coin allocation and distribution mechanism is proposed, which is crucial for maintaining the project's viability over an indefinite period. TAAM's financial structure is set up and envisioned by the founders to be a "perpetual machine" or a "self fulfilling project" where the financial mechanisms and software work hand in hand to drive the project forward. This approach involves adjusting coin allocations based on price fluctuations and liquidity conditions, ensuring developers are rewarded for their contributions, and managing the project's funding in a way that supports its goals and community engagement over time.

### **4. INITIAL COIN ALLOCATION**

#### **Dynamic Coin Allocation Algorithm**

#### **Initial Tranche Allotment (See Coins as Tradeable Currency for Allocation Switches).**

To address the requirement for the project to run perpetually and adapt to market conditions, the following rules for coin allocation and distribution is set:

Liquidity Pool – 30% of All Coins (Initial Coin Sale Tranche, coins released to maximize price per coin, immutable)

Industry Partnership Pool – 15% of All Coins (Switchable - Assets sold same as Liquidity Pool on a private sales basis to large corporations, coin allocation depends on market liquidity, can be reapportioned to the Liquidity Pool based on Management discretion)

Management Pool – 14% of All Coins (Switchable - Can be reapportioned to liquidity pool at Management discretion depending on asset price).

Foundation Pool – 1% of All Coins (Switchable - Can be reapportioned to liquidity pool at Management discretion depending on asset price).

Developer Pool – 30% of All Coins (Immutable)

Founder Pool – 10% of All Coins (Immutable)

Coins Raised in Ethereum/Solana or Other assets raised through the Liquidity Pools and market exchanges belong to the Open Source Foundation. The Open Source Foundation will hold those assets as trusts and allocate them to developers, market makers, marketing and admin teams to further the development work of the project as well as actively seek joint enterprises with large corporates where developers are paid through these assets to work within companies or with companies on Joint Ventures, Knowledge Share or Deployment Partnerships.

## 5. VOTING RIGHTS AND DAO

Voting Rights are in proportion to coin allocation in the DAO (Decentralised Autonomous Organization). The Initial Management is with the founders who are automatically allocated all rights for the foundation, until coin supply is distributed according to the above. The coin assets until distribution are held by Ibrahim Mukherjee as the private holder of the coins who conducted the ICO. Management will hold regular meetings with coin holders to decide on the direction of the open-source project. Large Corporations are encouraged to buy a substantial portion of the coins as liquid assets to be able to vote on the DAO.

Management must abide by the voting rights of the DAO which are allocated as follows: -

1. Developers 1 Coin = 1 Vote.
2. Management 1 Coin = 1 Vote.
3. Founders 1 Coin = 1 Votes.
4. Investors 1 Coin = 1 Vote.

The Founders have the option to pass on their founding voting rights to another party with a signed release form and so do the developers to represent them at DAO meetings. This may include corporate entities who buy those rights. The management may create separate governance and voting tokens as they see fit.

Any updates to the project can only be agreed at DAO meetings. No updates to the project scope can be made without a DAO meeting.

Additional voting rights may be apportioned to companies contributing to or working with the TAAM Foundation similar to the Linux Foundation based on cash monetary sums given to the foundation at set prices through either cash injection into the foundation or through buying governance tokens.

## 6. LIQUIDITY AND TRANCHE SALES

## **Market-Driven Coin Release Algorithm – Liquidity Pool Adjustment of Supply (Subject to Updates by Management)**

To design an algorithm that decides how many TAAM coins will be released into the market based on market price and liquidity fluctuations, while ensuring the coins are infinitely divisible, the founders considered several factors including the initial coin supply, the percentage of coins to be released initially, and how subsequent releases are triggered by market conditions. The algorithm must dynamically adjust the quantity of coins released to maintain a balance between supply and demand, ensuring the project's sustainability perpetually.

**Initialization:** The algorithm initializes with the total supply of TAAM coins, the percentage of coins to be released initially, thresholds for price increase and liquidity that trigger additional releases, and the initial market price.

**Initial Release:** A fixed percentage of the total supply is released into the market initially, as per the project's plan.

**Dynamic Adjustment Based on Price:** The algorithm monitors the market price of the coin. If the price increases by a certain threshold (e.g., 10%), a small percentage of the remaining supply is released. This mechanism aims to stabilize the price by increasing supply in response to demand.

**Dynamic Adjustment Based on Liquidity:** The algorithm also adjusts the release based on liquidity. If liquidity reaches a certain threshold, indicating high demand and active trading, an additional percentage of the remaining supply is released to ensure the market remains liquid.

**Update Market Conditions:** This function allows the algorithm to be updated with the latest market price and liquidity information, which it uses to decide on further releases.

**Release Coins:** This function combines the price-based and liquidity-based adjustments to decide the total number of coins to be released at any given time.

$$\text{Release Amount} = \text{Price based Release} + \text{Liquidity based Release}$$

The price-based release is determined by the price increase threshold and the current market price:

$$\text{Price based Release} = \begin{cases} \text{remaining supply} \times 0.01 & \text{if current market price} \geq \text{last} \\ 0 & \text{otherwise} \end{cases}$$

The liquidity-based release is determined by the liquidity threshold and the current liquidity:

$$\text{Liquidity based Release} = \begin{cases} \text{remaining supply} \times 0.02 & \text{if current liquidity} \geq \text{liqui} \\ 0 & \text{otherwise} \end{cases}$$

The final release amount is the sum of the price-based release and the liquidity-based release.

This mathematical formula represents the core logic of the TAAMCoinReleaseAlgorithm, which determines the amount of coins to be released based on the current market conditions.

This algorithm aims to balance supply and demand dynamically, ensuring the long-term sustainability of the TAAM project by adjusting the release of coins based on market. The algorithm is subject to change by Management.

```
| class TAAM_Coin_Release_Algorithm:  
|     """  
|         A class representing the algorithm for releasing TAAMCoin  
|         based on market conditions.  
|     """  
  
|     TOTAL_SUPPLY = 900000000 # Total supply of the  
|     cryptocurrency  
|     INITIAL_RELEASE_PERCENTAGE = 20 # Percentage of the total  
|     supply to be released initially  
|     PRICE_INCREASE_THRESHOLD = 0.0001 # Threshold for price  
|     increase  
|     LIQUIDITY_THRESHOLD = 0 # Threshold for liquidity  
  
|     def __init__(self, initial_market_price):  
|         """  
|             Initialise the TAAM_Coin_Release_Algorithm object.  
|             :param initial_market_price: The initial market price  
|             of the cryptocurrency.  
|         """  
|         self.total_supply =  
|         TAAM_Coin_Release_Algorithm.TOTAL_SUPPLY  
|         self.remaining_supply = self.total_supply  
|         self.initial_release_percentage =  
|         TAAM_Coin_Release_Algorithm.INITIAL_RELEASE_PERCENTAGE  
|         self.price_increase_threshold =  
|         TAAM_Coin_Release_Algorithm.PRICE_INCREASE_THRESHOLD  
|         self.liquidity_threshold =  
|         TAAM_Coin_Release_Algorithm.LIQUIDITY_THRESHOLD  
|         self.current_market_price = initial_market_price  
|         self.last_market_price = initial_market_price  
|         self.current_liquidity = 0  
|         self.coins_in_market = 0  
  
|     def initial_release(self):  
|         """  
|             Release the initial supply of TAAMCoin based on the  
|             initial release percentage.  
|         """  
|         initial_release_amount = self.total_supply *  
(self.initial_release_percentage / 100)  
|         self.remaining_supply -= initial_release_amount  
|         self.coins_in_market += initial_release_amount  
|         return initial_release_amount  
  
|     def adjust_release_based_on_price(self):
```

```

"""
    Adjust the release based on the current market price.
"""

if self.current_market_price >= self.last_market_price
* (1 + self.price_increase_threshold):
    release_amount = self.remaining_supply * 0.01  #
Release an additional 1% of the remaining supply
    self.remaining_supply -= release_amount
    self.coins_in_market += release_amount
    self.last_market_price = self.current_market_price
    return release_amount
return 0

def adjust_release_based_on_liquidity(self):
"""
    Adjust the release based on the current liquidity.
"""

if self.current_liquidity >= self.liquidity_threshold:
    release_amount = self.remaining_supply * 0.02  #
Release an additional 2% of the remaining supply
    self.remaining_supply -= release_amount
    self.coins_in_market += release_amount
    self.current_liquidity = 0  # Reset liquidity
measurement
    return release_amount
return 0

def update_market_conditions(self, new_market_price,
new_liquidity):
"""
    Update the current market conditions.
"""

self.current_market_price = new_market_price
self.current_liquidity += new_liquidity

def release_coins(self):
"""
    Release TAAMCoin based on the current market
conditions.
"""

price_based_release =
self.adjust_release_based_on_price()
liquidity_based_release =
self.adjust_release_based_on_liquidity()
    return float(price_based_release +
liquidity_based_release)

```

## 7. DEVELOPER COIN ALLOCATION

## **Developer Allocation of Coins (Proportional Allocation will go down as market price goes up – to be decided by Management).**

Coin allocation is benchmarked to developer per hour price at 1.1 times the Market Rate for Top Rated Developers and Academics. What this means is Management will design the coin allocation for the price of work to be roughly 1.1 times what top rated companies in technology pay for cutting edge work, however this entirely at the Management's discretion keeping in mind the financial profitability of the project. Critical code which makes the foundation competitive to closed source companies may be benchmarked at 10 times the market price if it promises a substantial breakthrough for the Artificial Intelligence community.

The mathematical formula for deciding how many coins will be released on the market can be derived from the dynamic coin allocation mechanism described. The formula incorporates factors such as importance to the project, urgency of work required, novelty in terms of academic achievement, and the current price of coins.

$$C = (w_1 \cdot I + w_2 \cdot U + w_3 \cdot N) \cdot P$$

Where:

- $C$  represents the number of coins to be allocated.
- $w_1$ ,  $w_2$ , and  $w_3$  are the weights assigned to each factor, reflecting their relative importance to the project.
- $I$  stands for the importance of the contribution to the project.
- $U$  represents the urgency of the work required.
- $N$  denotes the novelty of the contribution in terms of academic achievement.
- $P$  is the current price of the coin, adjusted to market conditions <sup>1</sup>.

This formula is designed to dynamically allocate coins based on the contribution's value to the project and the current market price of the coins. The weights  $w_1$ ,  $w_2$ , and  $w_3$  can be adjusted periodically to reflect the changing priorities of the project, ensuring that the coin allocation remains aligned with the project's goals and the market's dynamics.

**W1 between 0 and 1.**

**W2 between 0 and 1.**

**W3 between 0 and 1.**

**I between 1 and 1000**

**U between 1 and 1000**

**N between 1 and 1000**

**Coin Allocation will be benchmarked to market prices for developers and subject to Management updates.**

**Coin allocation applies to Four Areas: -**

1. Original Research pre-print publication similar to ArXiv.
2. Implementing Existing papers which are relevant to the work of the foundation and can be applied in industry. Both these conditions must be met for coin releases.

3. Writing Original Code which Management sees in line with the project's guidelines.
4. Writing and Committing code for Bounties put by Management for the project.

All coin allocation will be done after code is tested using automated and transparent testing algorithms developed and approved by Management and published on the project page. Developers are encouraged to self-test their code before submitting to the project. Management maintains the right to refuse code commits not in line with the project scope – however, cannot reject code which is tested and passed using automated algorithms which are in line with the project scope even if they consider it irrelevant. If Management deems the code not relevant to the current work of the project yet in line with the existing project scope, coin allocation can be significantly reduced at Management discretion. Developers can ask Management for indicative coin allocation before developing and spending significant time on the project which Management is then bound by. Management retains the right not to respond to such requests.

The fundamental axiom that Management and developers are bound by is that the work must be related to the field of fundamental artificial intelligence research or applied artificial intelligence research and must not previously exist in the public domain in its current form.

## **8. MANAGEMENT COIN ALLOCATION**

Management Coin Allocation is done for managing Social Media Assets and Communication Channels, Marketing, Managing Developers, Project Management and Marketing Work.

Management coin allocation is on the same basis as developer coin allocation using the same formula. Management is rewarded for efficient allocation of coins to important projects and developers– the higher the urgency and importance of the project, the more coins they will be allocated.

Management coin allocation will be 10% of coins allocated to developers on each project.

## **9. LIQUIDITY POOL SALES FUNDS RAISED AND COMPANY FORMATION**

Founders and managers are at the discretion of using money generated from Coin Sales in the liquidity pool to apportion to Managers and Developers are required as well as managing social media, writing code and other administrative duties of the project.

Managers are then able to apportion the coins allocated to the Management Pool to the Liquidity Pool.

This will depend on the asset price, and the Management Pool will maximize financial value to the TAAM Project.

## **10. SOFTWARE LICENSE - THE TAAM LICENSE (TRANSPARENT AND ACCESSIBLE AMALGAMATION LICENSE).**

### **The TAAM License (Transparent and Accessible Amalgamation License)**

The TAAM License is designed to provide a balanced approach to open-source and closed-source software distribution, allowing for a combination of both while maintaining transparency and accessibility for the open-source components.

#### **Key Features of the TAAM License:**

1. **\*\*Open-Source and Closed-Source Combination\*\*:** The TAAM License permits the inclusion of both open-source and closed-source code within the same project.

2. **\*\*Transparent Open-Source Code\*\*:** Any code released under the TAAM License must be made available in source code form, allowing for transparency and community collaboration.
3. **\*\*Closed-Source Distribution Restrictions\*\*:** While closed-source components are allowed, they cannot be distributed separately from the project. The closed-source code cannot be distributed without prior authorisation of the TAAM Foundation.
4. **\*\*Modification Disclosure\*\*:** Any modifications made to the open-source components must be disclosed and contributed back to the project, ensuring ongoing development and improvement.
5. **\*\*Licensing and Attribution\*\*:** The TAAM License and appropriate attribution must be included with any distribution of the open-source components.

## License Terms

1. **\*\*Definitions\*\*:**
  - "Covered Software" refers to the source code form of the software project licensed under the TAAM License.
  - "Executable Form" refers to any form of the software project other than the Covered Software, including closed-source components.
2. **\*\*License Grants and Conditions\*\*:**
  - You may reproduce, create modifications, and distribute the Covered Software, as long as you comply with the terms of this license.
  - You may distribute the Executable Form of the software project, but it must include the Covered Software and cannot be distributed separately without prior authorisation from the TAAM Foundation.
  - Any modifications made to the Covered Software must be disclosed and contributed back to the project.
3. **\*\*Distribution Requirements\*\*:**
  - When distributing the Covered Software, you must provide a copy of the TAAM License and appropriate attribution.
  - When distributing the Executable Form, you must include the Covered Software and the TAAM License.
4. **\*\*Patent Grant\*\*:** Each contributor grants you a non-exclusive, worldwide, royalty-free patent license to use their contributions to the Covered Software.
5. **\*\*Closed-Source Distribution Authorisation\*\*:** The distribution of the Executable Form (closed-source components) must be authorised by the TAAM Foundation prior to distribution. The TAAM Foundation reserves the right to review and approve the closed-source components to ensure they do not infringe on any open-source licenses or intellectual property.

By using the TAAM License, you can create projects that combine open-source and closed-source components while maintaining transparency and accessibility for the open-source portions. This license aims to strike a balance between the principles of open-source development and the needs of commercial software projects, while also providing a level of control and oversight for the closed-source components.

## 11. OPEN-SOURCE FOUNDATION AND CIC COMPANY

The company structure will initially be set up as a CIC in the UK. The Open Source Foundation is closely benchmarked to the Linux Foundation, and the governance DAO closely benchmarked to Ethereum while adhering to the principles and rules laid out in this white paper. Where there is a conflict between the rules, TAAM Foundation rules as set up in this white paper apply and supersede other considerations and guidelines.

## **12. COINS AS TRADEABLE CURRENCY**

The Coins are deemed as tradeable currency and are allocated to users to be able to trade as currency. The initial coin supply is on the Stellar Network, but equivalent coins will be burned and minted on ERC20 (Ethereum) primarily however Management may decide to mint equivalent burnt coins on Solana or other networks which are popular at the time. The Coin supply will always remain at 900 billion Coins. The currency was created as deflationary currency by the founders however a mechanism for perpetual viability has been provided in section 13.

## **13. 10% SWITCH**

To maintain perpetual viability of the project, Management can mint no more than 10% of the ICO offering of 900 billion coins every 20 years if and only if coins run out in paying developers in the initial tranches after sustained outstanding growth. This is simply done to maintain perpetual viability of the project and the 10% limit every 20 years cannot be breached. However, the Management should manage coin allocation that this switch is never required and adjust the algorithms based on supply and market demand constraints to reduce coin allocation to developers and in the liquidity tranche, so the 10% SWITCH is never required. Any new coins minted using the 10% SWITCH have the same allocation mechanism as the initial ICO.

Each time the 10% switch is exercised, coins are released to the initial founders – Ibrahim Mukherjee and Anthony Poole or to people who they have signed off on as designated founders or corporate entities in full or part for the next tranche for the switch option to be exercised.

## **14. DIVISIBILITY**

The coins are divisible, which means the new allocation of coins can always be reduced as market prices go up and the 10% SWITCH in theory should never be or rarely required.

## **15. WHITE PAPER FINALITY AND DAO MEETINGS**

### **PICTURE - THE TAAM FOUNDATION LOGO AND COIN BELOW**

The first white paper secures the rights of founders, investors, developers, market makers, marketing, and admin staff associated with this project. The White Paper cannot be updated to change either the financial allocation or rights of founders, developers, investors, the mechanism of coins being apportioned, or the project scope. Any updates are strictly administrative and will be added as notes to the Project Database however, not as a white paper. Any updates can only be agreed within a DAO meeting on a voting mechanism as per the “Voting Rights and DAO section.” The white paper is in its first and final version and is immutable. No updates to the project can be made without a DAO meeting.

## **16. LEGAL AND REGULATORY FRAMEWORK AND GUIDELINES.**

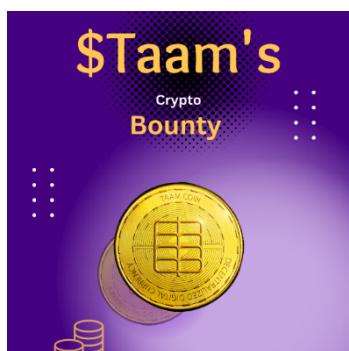
The project follows the guidelines as laid out in the white paper and voluntarily adheres to the regulatory framework of MiCA framework as set out by the EU, FCA regulations on marketing of cryptocurrencies in the UK and the charter as set out in the CIC formation in the UK. Additionally, TAAM will aim to be in line with regulations and guidelines set out by the Bank of England in consultation notes and directives on Islamic Finance and Sharia Compliant Finance in not seeking

“usury”, abnormal or unsustainable returns on investment. Staking returns are therefore strictly regulated and only provided for proofing transactions and benchmarked to a 10% return on investment for providing the service and not designed as returning more money in exchange for money or as a “loan service” but rather as a “proofing service” where payment is made and intended in return for providing a service only.

## 17. GUILD AND EDUCATION

The TAAM Foundation will work with universities and other non profit and for profit organizations to continue education in Artificial Intelligence and computing in line with best practices. A guild will be set up and offer “apprenticeships” through the TAAM foundation both at the foundation and industry partners on the basis of project work and certification exams for contributors.

All Guild certificates will come with the seal of the TAAM Foundation with the TAAM Logo and provide a combination of project work and examinations.



## 18. DEVELOPER ALLOCATION FROM JOURNEY MAN TO GUILD-MASTER

Scientists and Developers are designated to one of three categories once becoming Members from PM - JourneyMan, Apprentice and Guild-Master based on the following criteria :-

1. Showing Initiative.
2. Ability for Independent Thought and Logical Deduction.
3. Existing Knowledge Base relevant to TAAM’s objectives.
4. Innovation in Fundamental Sciences, Software Development, Law and Finance.

The criteria and questions will be kept hidden not to allow rigging of the allocation process and updated annually. The criteria may be expanded to include finance, accountants, law, actuaries and other relevant professionals based on the objectives of the TAAM foundation.

Guild masters will become candidates for membership into the R&D council however places will be regulated by management and founders.

## 19. OUTREACH PROGRAMS - FINANCIAL INCLUSIVITY, INFRASTRUCTURE DEVELOPMENT AND STEM EDUCATION

The TAAM foundation may from time to time create programs for financial inclusion in infrastructure poor areas such as Ukraine using it's token for charitable causes or paying developers. Similarly, the TAAM foundation may also create outreach programs for STEM education working with educational and government institutions as well as participate in infrastructure development projects such as building water wells in infrastructure poor areas such as Africa.

## APPENDIX

### 20. TECHNICAL WORK DONE FOR SELF DRIVING

Autonomous vehicles rely on a combination of sensors, including radar, laser light/LIDAR, GPS, and computer vision, to detect and respond to their environment.

Infrared sensors are being used in self-driving cars to enhance their perception capabilities, especially in low-light or poor visibility conditions. Infrared cameras can detect heat signatures and provide additional data for the vehicle's AI systems to process.

Machine learning algorithms, such as Convolutional Neural Networks (CNNs) and Recurrent Neural Networks (RNNs), are being used to analyse the sensor data and enable the vehicle to make autonomous decisions.

Researchers are exploring ways to make the AI systems in self-driving cars more robust and secure, such as through the use of federated learning, which allows the vehicles to learn and update their models without relying on a centralised server.

### 21. TECHNICAL WORK DONE FOR CYBERSECURITY.

Cybersecurity is a critical concern for autonomous vehicles, as they are vulnerable to various cyber threats, such as remote hacking and malware attacks.

Machine learning and AI are being employed to enhance cybersecurity measures in autonomous systems. Techniques like anomaly detection, behaviour analysis, and intrusion detection are being used to identify and mitigate cyber threats in real-time.

Researchers are exploring ways to secure the communication channels and data exchange between the various components of autonomous vehicles, as well as between the vehicles and external infrastructure.

Efforts are being made to develop secure and privacy-preserving AI algorithms that can operate in a decentralised manner, reducing the risk of data breaches and centralised points of failure.

The TAAM foundation will also work to use Smart Contracts to get IoT data from cars for diagnostics and predictive maintenance using Artificial Intelligence, as well as making sure unauthorised firmware updates cannot be pushed to cars to hack them maliciously.

### 22. TECHNICAL WORK DONE IN ACCELERATING AGI

The integration of AI and cybersecurity is seen as a crucial step in ensuring the safe and reliable operation of autonomous systems, which could have broader implications for the development of more advanced AI systems.

Researchers are exploring techniques like federated learning and decentralised AI architectures to address the challenges of data privacy and security, which could contribute to the development of more advanced and trustworthy AI systems.

### 23. TAAM FOUNDATION'S PHILOSOPHY FOR BLOCKCHAIN AND SECURITY MEASURES

The TAAM foundation is blockchain agnostic which means the initial ICO was done on the Stellar Blockchain which has trust lines to make it secure. This is done as an added security layer and acts as the "reserve" base for the the coin - equivalent coins are burnt and minted on the Polygon Chain, Ethereum or Solana or other chains as the management and founders see fit. What this does is protect against hacking. If for any reason coins are lost, equivalent coins can be issued on a new

chain to protect users against fraud and the reserve base currency acts as a mechanism to keep track of the total number of coins on chain.

#### **24. TAAM FOUNDATION'S PHILOSOPHY FOR ROBUST INDUSTRY INNOVATION**

Taam may strategically use blackpapers to highlight regulatory or technical gaps in the industry where innovation is required. The use of blackpapers are not common however they are necessary to highlight issues with the state of the art and where innovation is required. TAAM's first technical black paper is on the lack of testing standards for models and security signatures in the industry to drive forward safer adoption of AI and ML models as well as securing cloud updates.