

# Lamas Finance

## WHITEPAPER

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# 1. INTRODUCTION

Over two million daily unique wallets were registered during just one month of August 2021. On a daily basis, more than 800,000 distinct gaming wallets interact with a smart contract. These data demonstrate the enormous market potential for gaming Dapps.

GameFi, the intersection of decentralized finance and the gaming industry, has garnered widespread public interest. The year 2021 has already witnessed the launch of numerous GameFi projects. These games share several similar characteristics, including the use of NFT to represent in-game items or crypto as an in-game currency. However, the majority of them still require a private server to execute the logic as well as to archive records and calculations generated throughout the gaming process. This has prevented them from becoming truly decentralized. Consequently, the beneficial properties of blockchain, such as decentralization, transparency and security, remain underutilized. Additionally, the total cost of each transaction is significantly raised because of the extremely high gas fee of the Ethereum blockchain, which is the platform of many of these Dapps.

Accordingly, the core mission of Lamas Finance is to provide users with a real blockchain gaming experience and the opportunity to make a profit from many DeFi's key functions. Developed on Solana - one of the fastest and cheapest platforms in the cryptocurrency space, each of the Lamas Finance games is a genuine Dapp: all computations are performed on the blockchain via smart contracts. With its massive liquidity and variety of features, Lamas Finance is expected to be capable of accommodating a large number of user requests as well as providing the users with an enjoyable experience.

Our platform offers a number of functions, including games, NFT collections, and yield farming. LMF, the native utility token of Lamas, is utilized for a multitude of reasons, including game participation, NFT exchange, staking, and yield farming.

Currently, Lamas Finance provides its players four games: Price Prediction, Up or Down, Jackpot Lottery, and Lucky Spinner. The first two are guessing games involving the price of an asset, with payouts proportionate to the players' forecasting accuracy. While Price Prediction requires players to provide an exact figure, Up or Down enables users to wager on market movements in one of the two directions. The other two games are dependent on luck. In Jackpot Lottery, users have a daily chance to win a jackpot if their tickets match the randomly drawn numbers. In Lucky Spinner, users can win multiples of their stake through

random spins at any time of their choosing. More information on the games is provided in Section 2.

Along with LMF tokens, participants in the games may acquire NFT pieces. Fantastic prizes are awarded to users for completing the NFT collections. In order to accelerate their progress, users may trade NFT on the Lamas Marketplace. More information on the NFT is provided in Section 3.

LMF token holders can participate in staking on the Lamas Finance platform with a high APY. In doing so, users can earn interest and avoid paying up to 50% of gaming taxes with the addition of being granted governance rights. Furthermore, they can make additional revenue through yield farming. More information on yield is provided in Section 4.

This document is currently in active development. Additional information will be provided when it becomes available.



## 2. GAMES

### 2.1. Price Prediction

#### Description

Price Prediction is a game in which players make guesses about the future value of a digital asset. A mathematical model is used to determine the accuracy of a prediction, which influences the size of the reward. In general, the closer the forecast is to the actual outcome, the greater the benefits.

Price Prediction happens on a weekly basis. At the beginning of every week, the initial price of an asset is registered. Until the end of Thursday, the users can make guesses of a specific number or a percentage change in this price. At the end of the week, the system will register the closing price in order to compute the scoring and the final rewards. A detailed timeline will be given below.

In this game, participants will bet in USDC, with the minimum amount being 5 USDC and no maximum. Players can make multiple bets with different predictions. Each bet will be recorded as one separate entry.

Price Prediction uses real-time data from Chainlink Oracle.

#### Lamas price prediction game

Price Prediction, a type of prediction markets, allows players to make guesses about the changes in cryptocurrency prices in the future. Playing the game, participants make predictions to earn rewards. A mathematical model is applied to determine the accuracy of a prediction: the more accurate the forecast, the bigger the rewards.

#### How to play

Step 1: Choose crypto & enter a forecasted price

Step 2: Input an amount of USDC

Step 3: Submit the prediction and await the result

Step 4: Check the result and claim the reward

## Timeline


Every week, there are 04 important milestones:

1. Betting begins (00:01 UTC on Monday): The system registers the opening price. Participants may begin submitting their wagers and forecasts.
2. Betting ends (23:59 UTC on Thursday): The system stops accepting predictions. Participants await the outcome.
3. Score calculation (23:30 UTC on Sunday): The system registers the closing price and computes the scoring and the final reward.
4. Reward: The reward will be accessible after the score computation, often concurrently with the start of a new betting round. Within 30 days, all participants should verify and claim their awards.

## Interface

The system will display two values: the initial price of the asset (Price on Monday) and the real-time price (Present price).

For each crypto of their choosing, the user needs to input the anticipated price change either in the form of a precise value or of a percentage change (Your prediction). Concurrently, the user also needs to input the bet amount (Your bet). When everything is finalized, the user can hit the Submit button for submission.



The screenshot displays a betting interface with a dark theme. At the top, there's a 'Choose Crypto' section with two buttons: 'BTC' (highlighted in purple) and 'SOL' (black). Below this, a table shows the 'Price on Monday' as \$48,486,326 and the 'Present price' as \$49,126,479. The 'Present price' is highlighted in green. Below the table is a 'Place your bet' section. It contains three input fields: 'Your prediction' with a value of '\$ 0.00', 'Your bet' with a value of '0.00 %', and 'Your bet' with a value of '0.00'. To the right of the 'Your bet' field is a 'Minimum bet: \$5' label and a 'USDC' label. A green 'Submit' button is located to the right of the 'Your bet' field.

## Rewards

### *Estimating the accuracy of a prediction*

Suppose that a player makes a Bitcoin (BTC) price prediction with an initial price at the start of the week for 1 BTC is 100,000 USD. We will consider a hypothetical pool containing 1 BTC and 100,000 USD. The total value of the pool is 200,000 USD, with 50% of the value in BTC and 50% in USD. We define the

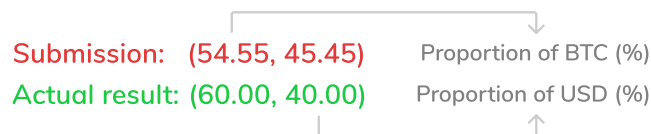
state of the pool as a vector whose components represent the percentage of the value of the assets in the pool. In this example, the initial state of the (BTC, USD) pool is (50.00, 50.00).

Suppose that the closing price at the end of the week for 1 BTC is 150,000 USD. Here, although the pool remains fixed with 1 BTC and 100,000 USD, the state has changed. The total value of the pool has increased to 250,000 USD. Accordingly, BTC takes up 60% ( $= 150,000 / 250,000$ ) of the pool's value while it is 40% ( $= 100,000 / 250,000$ ) for USD. Consequently, the closing state of the pool is (60.00, 40.00).

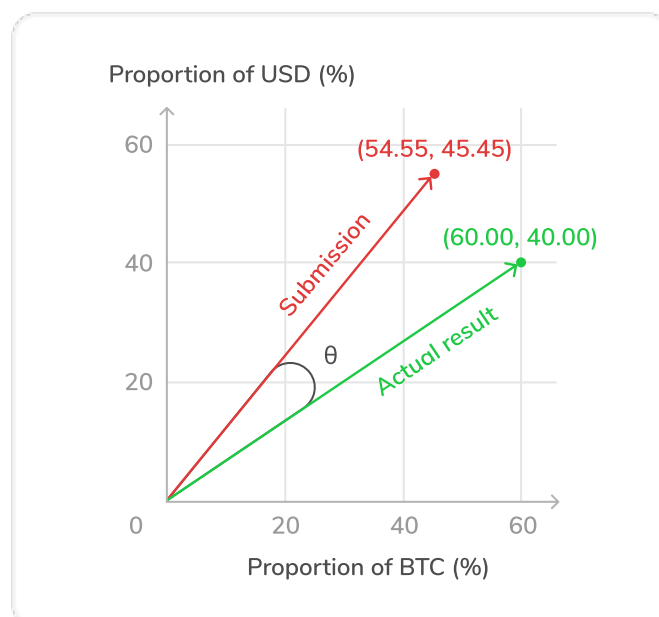
Forecasting Bitcoin price is equivalent to predicting the closing state of this pool. For instance, a player wants to predict that BTC will increase by 20%, bringing the value of 1 BTC to 120,000 USD. Following the same calculation as above:

- The total value of the pool is 220,000 USD
- BTC takes up  $120,000 / 220,000 = 54.45\%$  value of the pool
- USD takes up  $100,000 / 220,000 = 45.45\%$  value of the pool

Hence, the submission of this user is represented as (54.55, 45.45). In summary, the two vectors for the submission and the actual result are as follows.



These two vectors are visualized in the following graph.



To determine the accuracy of a prediction, we choose a scoring formula based on the angle  $\theta$  between these two vectors. The angle can be easily calculated as:

$$\theta = \arccos\left(\frac{\vec{S} \cdot \vec{A}}{|\vec{S}| \cdot |\vec{A}|}\right)$$

Then, the raw score is determined by:

$$\text{Score} = \begin{cases} \pi / \theta & \text{if } \theta > \pi / 1000 \\ 1000 & \text{if } \theta \leq \pi / 1000 \end{cases}$$

The closer the two vectors are, the smaller the angle and the higher the score. The raw score will be assigned on a range of 0–1000 points, with 0 being the lowest and 1000 being the greatest.

### ***Bonus points***

Players also receive bonus points for making early predictions. Forecasting the price of Sunday-BTC on Monday is far more difficult than forecasting it on Thursday. Thus, bonus points help to ensure that participants are treated fairly when they make predictions on different days of the week.

Initially, we offer the following bonus levels:

- 100 points on Monday,
- 60 points on Tuesday,
- 30 points on Wednesday, and
- 0 points on Thursday.

Therefore, the maximum score a player can achieve is 1100 points.

To establish this scoring scale, a simulated scenario involving 100 players was used to estimate the expected score that a player would get if they always made the prediction on Monday. The average score after five weeks of implementation is 202 points.

One quarter after the official mainnet event, this scale will be adjusted by players who have the governance right (see more in Section 5).



### *The reward for the prediction*

Price Prediction is a zero-sum game and without external incentivization. If the final score is above average, there will be some profit. On the other hand, if the score is below average, there will be a certain degree of loss. Concretely, the reward will be calculated through the score and the staked amount (bet) by the formula below.

$$\text{Reward} = \frac{\text{score} \times \text{staked amount}}{\sum (\text{score} \times \text{staked amount})_i} \times \sum (\text{staked amount})_i$$

In addition, all players will have a chance to receive an NFT piece. The rarity of the piece will depend on their bet and rank. More details about the NFT collection are available in Section 3.

### **Fee & tax**

Participants must pay a negligible gas fee for the Solana network to participate in this game. For each transaction, this fee is 0.000005 SOL (approximately \$0.001).

Additionally, the winner is required to pay a small tax to the Lamas Finance system (in USDC), equal to **2% of the profit** (receipt minus stake). This tax will be split into two parts: 50% goes to Lamas Treasury and the remaining 50% is burned.

In the future, the ratio of tax to be burned and tax to be given to the treasury will be modified by governance voting. Additionally, users participating in staking on Lamas Finance will receive a reduction of this tax. This will be described in further detail in Section 5.

## 2.2. Up or Down

### Description

Participants in this game will wager on whether the SOL/USDT exchange rate will rise or fall during a certain period. A correct guess will earn the player a part of the prize pool.

The game is played in rounds. Each round is divided into two stages: prediction and live. In the prediction stage, participants wager on the price's upward or downward trend. The price is registered at the end of each of the stages. A correct Up forecast occurs when the exchange rate of SOL/USDT at the end of the live stage is higher than at the end of the prediction stage. Similarly, a correct Down prediction occurs when it is lower.

The total bet money constitutes the prize pool, which will be awarded proportionately to each participant who makes an accurate prediction.

In this game, participants will bet in LMF, with the minimum amount being 5 LMF and no maximum.

Up or Down uses real-time data from Chainlink Oracle.

### How to play

Step 1: Predict the trend of the asset's price (up or down)

Step 2: Enter the bet amount

Step 3: Wait on the live stage

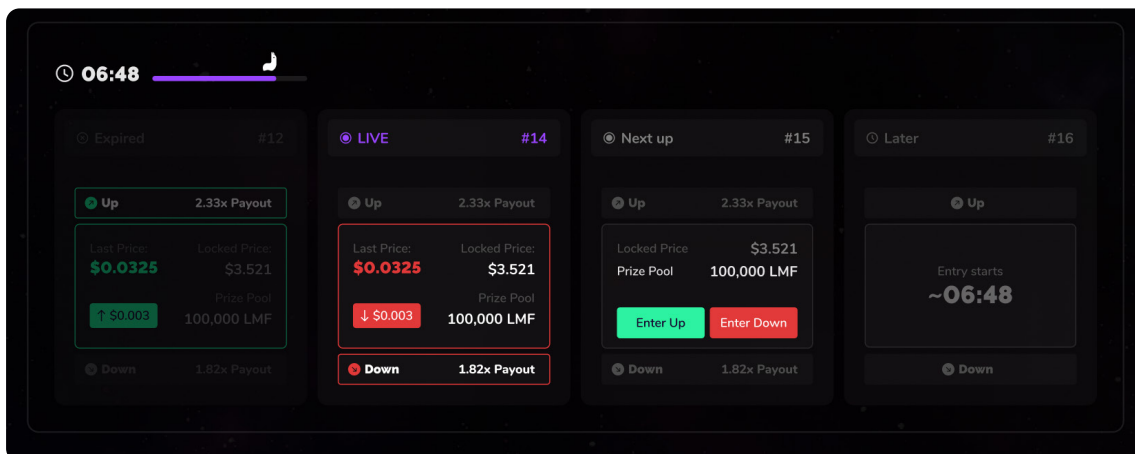
Step 4: Check the result and claim the reward

### Timeline

Each play takes a total of 30 minutes. There are two stages: prediction and live, each lasts for 15 minutes.

### Interface

At any point in time, the system will show two rounds occurring in parallel. The "LIVE" indicates the live stage of the current round, while the "Next up" indicates the prediction stage of the next round. These rounds are arranged in the manner seen below.



## Reward

The multiplier will be adjusted in accordance with the change in the betting ratio between UP and DOWN. Players with the correct choice will obtain the rewards shared from the prize pool with the corresponding multiplier.

The following formulas provide a clear explanation of Payout Ratio and Payout Amount:

- ✦ **Payout Ratio for UP Pool** = Total Value of Both Pools ÷ Value of UP Pool
- Payout Ratio for DOWN Pool** = Total Value of Both Pools ÷ Value of DOWN Pool

For example, if there's 15 SOL on the DOWN side & 135 SOL on the UP side, the overall prize pool is 150 SOL. Thus, the payout ratio for DOWN will be:  $(150/15) = 10x$ , for UP will be:  $(150/135) = 1.11x$

- ✦ **Payout Amount** = **Payout Ratio** × **Stake Amount**

If the round concluded in a DOWN position and you invested 20 LMF to it, you would get a payment of  $20 \times 10 = 200$  LMF. Your profit (before taxes) would be  $200 - 20 = 180$  LMF.

In addition, all players will have a chance to receive an NFT piece. The rarity of the piece will depend on the result and the bet. More details about the NFT collection are available in Section 3.

## Fee & tax

Participants must pay a negligible gas fee for the Solana network to participate in this game. For each transaction, this fee is 0.000005 SOL (approximately \$0.001).

Additionally, the winner is required to pay a small tax to the Lamas Finance system (in LMF), equal to 2% of the profit (receipt minus stake). This tax will be split into two parts: 50% goes to Lamas Treasury and the remaining 50% is burned.

In the future, the ratio of tax to be burned and tax to be given to the treasury will be modified by governance voting. Additionally, users participating in staking on Lamas Finance will receive a reduction of this tax. This will be described in further detail in Section 5.

## 2.3. Jackpot Lottery

### Description

Jackpot Lottery is a chance-based game in which participants have the opportunity to win massive LMF rewards by buying lottery tickets. It is straightforward and equitable, and participants have no constraint to participate except being able to pay for the tickets.

The game happens on a daily basis. Every day, users can purchase lottery tickets at a scheduled period. Each ticket costs 5 LMF and is valid for that day only. There is no limit on the number of tickets that a user may buy. Each ticket sold adds to the size of the prize pool.

Each ticket allows the user to choose a set of 4 different numbers between 1 and 36. The more numbers matched, the larger the reward. The remainder of the prize pool of a day will be added up to the next day's.

Jackpot Lottery uses Chainlink's VRF to ensure true and secure randomness.

### How to play

Step 1: Buy a ticket

Step 2: Choose the numbers

Step 3: Wait for the draw

Step 4: Check the result and claim the prize

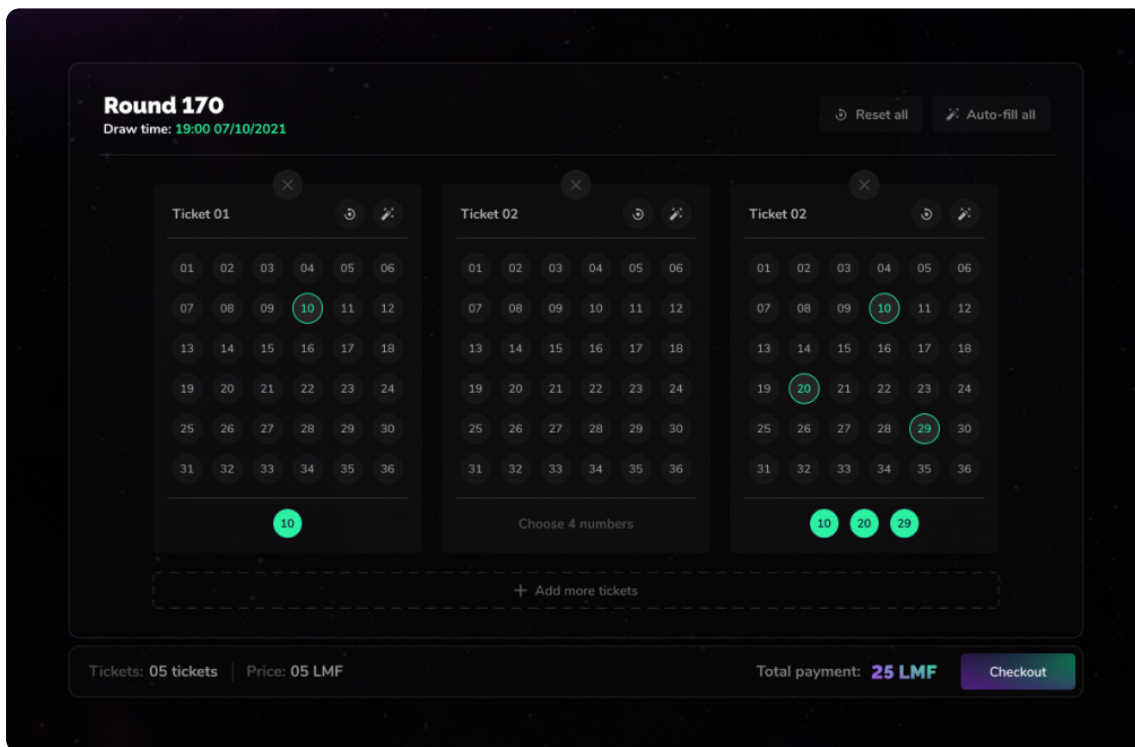
### Timeline

Every day, players may begin purchasing tickets at 11:00 UTC for a period of 30 minutes. Immediately after, the draw will take place.

### Interface

For each ticket purchased, the player can pick a set of 4 numbers between 1 and 36. Players can select by themselves or let the system choose randomly.





## Reward

The jackpot is won when all four of the player's numbers match the jackpot number. If only two or three numbers are matched, the player will receive smaller rewards. The following ratios will be used to award the prizes:

- ❖ *50% pool will be distributed equally to players who have 4 lucky numbers*
- ❖ *20% pool will be distributed equally to players who have 3 lucky numbers*
- ❖ *10% pool will be distributed equally to players who have 2 lucky numbers*

As a result, the overall payoff for the owners of winning tickets (with two, three, or four matched numbers) accounts for 80% of the prize pool, with the remaining 20% reserved for the subsequent round. In the event that there are no winners on a given day, the remainder of the prize pool will also be added up to the next day's.

Initially, there will be 30,000 LMF available in the prize pool before the first round of Jackpot Lottery. This amount of tokens is extracted from the Ecosystem pool (See Token Allocation in Section 5 for more detail).

In addition, players with at least 1 number matched will have a chance to receive an NFT piece. The rarity of the piece will depend on the number of numbers matched. More details about the NFT collection are available in Section 3.

## Fee & tax

Participants must pay a negligible gas fee for the Solana network to participate in this game. For each transaction, this fee is 0.000005 SOL (approximately \$0.001).

Additionally, the winner is required to pay a small tax to the Lamas Finance system (in LMF), equal to 5% of the reward. This tax will be split into two parts: 50% goes to Lamas Treasury and the remaining 50% is burned.

In the future, the ratio of tax to be burned and tax to be given to the treasury will be modified by governance voting. Additionally, users participating in staking on Lamas Finance will receive a reduction of this tax. This will be described in further detail in Section 5

## 2.4. Lucky Spinner

### Description

Lucky Spinner is a chance-based game in which participants have the opportunity to multiply their bet by spinning a wheel.

The user may choose a bet amount from a range of options, such as 2 LMF, 10 LMF, 50 LMF, 100 LMF, or 500 LMF. The slots of the wheel feature numerous multiplier values, ranging from x0 to x35. The payoff is calculated by multiplying the bet amount by the outcome multiplier, and so there is the possibility of both gain and loss.

The Ecosystem pool will act as an intermediary during the game, collecting bets and distributing rewards.

Lucky Spinner uses Chainlink's VRF to ensure true and secure randomness.

### How to play

Step 1: Choose the amount of bet

Step 2: Spin the wheel

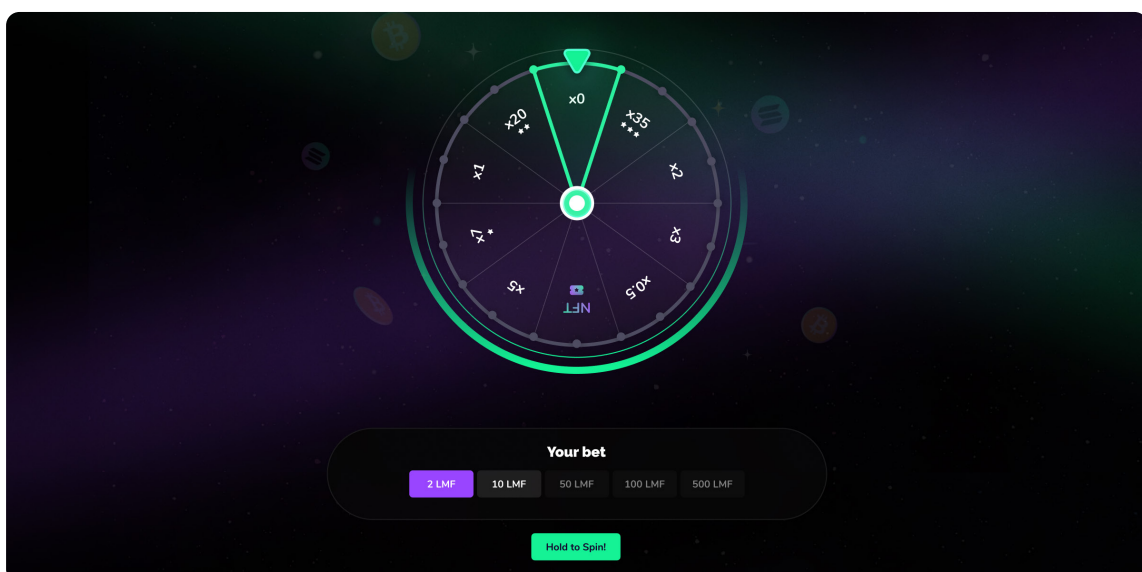
Step 3: Check the result and claim the reward

### Timeline

Users can play at any time of their choosing.

### Interface

The user can choose the amount of bet before spinning the wheel.



## Reward

With luck, users spinning the wheel on the x2 box (or better) will earn a prize proportionate to their bet.

The following outcomes are available: x0 (complete loss), x0.5 (50% loss), x1 (break-even), x2 (double), x3 (triple), x7 (multiply 7), x20 (multiply 20), x35 (multiply 35) and NFT (x1 + 1 NFT card). The table indicates the likelihood of each outcome.

Accordingly, the expected value of winning is 0.973 ( = 0 x 30% + 0.5 x 30% + ... 35 x 0.15% + 1 x 1%), approximately 1.

In addition, players who spin on the NFT box will receive an NFT piece. The rarity of the piece will depend on the amount of bet. More details about the NFT collection are available in Section 3.

## Fee & tax

Participants must pay a negligible gas fee for the Solana network to participate in this game. For each transaction, this fee is 0.000005 SOL (approximately \$0.001).

Additionally, the winner is required to pay a small tax to the Lamas Finance system (in LMF), equal to **1% of the profit** (payout minus stake). This tax will be split into two parts: 50% goes to Lamas Treasury and the remaining 50% is burned.

In the future, the ratio of tax to be burned and tax to be given to the treasury will be modified by governance voting. Additionally, users participating in staking on Lamas Finance will receive a reduction of this tax. This will be described in further detail in Section 5.

ROI	PROPORTION
x0	30%
x0.5	30%
x1	24.85%
x2	6.00%
x3	4.40%
x5	2.20%
x7	1.00%
x20	0.40%
x35	0.15%
x1 bonus NFT	1.00%
<b>SUM</b>	<b>100%</b>

## 3. NFT

### 3.1. NFT Collections

There are 4 NFT collections, one for each game. Each collection is represented by a single picture that has been divided into 6 different pieces. Each piece is available in 3 different versions corresponding to rarity ratings of 1, 2, or 3 stars (an NFT piece with 3 stars is uncommon). Currently, there are a total of 72 different NFT pieces: 4 (games) x 6 (pieces/game) x 3 (versions/piece).

To complete an NFT collection, players have to collect all six different pieces of that collection and of the same rarity.

### 3.2. Collecting

Participants may earn NFT by taking part in Lamas's games. Each game awards players with a piece in its corresponding collection.

#### *Price Prediction*

Every participant will have a chance to receive a random NFT piece:

SCORE LEVEL	% WIN A NFT
In the top 10 highest scores	100%
Outside the top 10 but achieve a total score of 800 and above	30%
The others	1%

The rarity of NFT is proportional to the amount staked on each forecast. The higher the amount, the higher the probability of getting a 3-star card. Appropriate measures are employed while constructing the probability to avoid NFT devaluation.

#### *Up or Down*

The players who guess correctly will have a 1% chance of getting a random NFT from the Up or Down's collection, compared to a 0.5% chance for those who get it wrong.

The rarity of NFT is proportional to the amount staked on each forecast.



The higher the amount, the higher the probability of getting a 3-star card. Appropriate measures are employed while constructing the probability to avoid NFT devaluation.

### ***Jackpot Lottery***

Every participant will have a chance to receive a random NFT piece:

NUMBER OF MATCHED NUMBERS	% WIN 1-STAR NFT	% WIN 2-STAR NFT	% WIN 3-STAR NFT
One number matched	20%	5%	-
Two number matched	30%	20%	5%
Three number matched	30%	40%	20%
Jackpot (4 numbers)	-	-	100%

### ***Lucky spinner***

In Lucky Spinner, players will have some chance of hitting the NFT slot. When they do, they will receive an NFT card from the Lucky Spinner's collection. The rarity of the randomly rewarded NFT card will depend on the amount of bet on that play.

AMOUNT OF BET	% WIN 1-STAR NFT	% WIN 2-STAR NFT	% WIN 3-STAR NFT
2 LMF	90%	10%	-
10 LMF	47%	50%	3%
50 LMF	25%	60%	15%
100 LMF	10%	60%	30%
500 LMF	-	-	100%

### 3.3. Redeeming

Each week, we will choose a “theme-of-the-week collection” (theme) at random. Players who own a full collection (6 different NFT pieces of the same collection and of the same rarity) of the theme will have the choice to redeem it for a valuable reward (burning the NFT collection in the process). The awards are estimated to be worth the following:

- ◇ *1-star collection: 100 LMF - 500 LMF*
- ◇ *2-star collection: 500 LMF - 2000 LMF*
- ◇ *3-star collection: 2000 LMF - 10000 LMF*

### 3.4. Burning

Users may burn several low-rarity cards to generate a new random card with a rarity equal to or greater than the highest rarity of the cards burned. Furthermore, when burning cards in bulk, players increase their chances of obtaining cards with a higher rarity rating.

### 3.5. Trading

The Lamas Marketplace is a platform for users to exchange NFT pieces. Users may search the market for NFT pieces of their needs using different filters, such as for the type of collection, type of card, and/or rarity.

Sellers are responsible for paying tax for each transaction, which is 5% of the value of the NFT. This tax will be split into two parts: 50% goes to Lamas Treasury and the remaining 50% is burned.

## 4. YIELD

### 4.1. Swapping and Adding Liquidity

Currently, Lamas Finance allows users to swap and add liquidity (via Raydium pool) for two trading pairs: LMF/USDC and LMF/SOL.

### 4.2. Staking

Users may stake LMF in order to obtain LMF with a reasonably high APY. Rewards are from Lamas Treasury. Additionally, users have the following advantages from engaging in LMF staking:

#### *Tax reduction*

Gaming and NFT trading will be taxed at a lower rate.

- ◆  $\hat{J}d\ddot{u}djAwA\text{b}qqAl|A\acute{s}\acute{Z}i\acute{d}AZ\grave{i}nt\grave{i}sAlAwqqq \rightarrow Awq\theta A\ddot{o}d\check{c}t\check{a}d\check{c}$
- ◆  $\hat{J}d\ddot{u}djA\text{b}AwqqqAl|A\acute{s}\acute{Z}i\acute{d}AZ\grave{i}nt\grave{i}sAlApqqq \rightarrow A\text{b}\eta\theta A\ddot{o}d\check{c}t\check{a}d\check{c}$
- ◆  $\hat{J}d\ddot{u}djApA\acute{s}\acute{Z}i\acute{d}AZ\grave{i}nt\grave{i}sAlApqqq \rightarrow A\eta q\theta A\ddot{o}d\check{c}t\check{a}d\check{c}$

#### *Governance rights*

Initially, the Protocol's parameters are established and implemented by the Lamas Finance foundation team. LMF token holders who have staked LMF for 30 days or more are granted certain governance rights, including:

- ◆  $Dd\grave{a}h\check{c}d'A\acute{g}d'A\grave{n}l\check{r}\check{A}n\ddot{o}d'Al\theta\ddot{o}h\check{a}d'\theta\ddot{o}d\check{c}h\check{a}shn\grave{i}^3$
- ◆  $Dd\grave{a}h\check{c}d'A\grave{n}A\ddot{o}d'An\ddot{o}d'A\ddot{o}w\acute{o}sn\grave{A}Z\check{h}\ddot{o}r\grave{A}nA\ddot{o}d\check{c}h\check{a}s'Al\theta\ddot{o}h\check{a}d'\theta\ddot{o}d\check{c}h\check{a}shn\grave{i},Z\grave{i}\check{c}F\acute{o}A\ddot{o}Dn\ddot{u}l^3$
- ◆  $Dd\grave{a}h\check{c}d'A\acute{g}d'A\acute{Z}l\check{e}d'A\grave{e}A\grave{l}\check{l}\check{a}d\ddot{o}r\grave{A}lAZ\grave{i}r\acute{o}n\acute{s}\hat{A}n\acute{s}s\check{d}\ddot{o}w$
- ◆  $Dd\grave{a}h\check{c}d'A\acute{g}d'A\ddot{u}Z\check{o}\check{c}h\check{r}\acute{s}\check{o}h\acute{a}t\check{a}shn\grave{i},Z\check{h}sh\grave{n}\grave{e}\grave{n}\ddot{o}A\acute{g}d'Al\ddot{u}dj\check{r}\check{A}\acute{e}\theta\ddot{o}h\check{y}d'AlAZ\grave{i}r\acute{o}n\acute{s}\hat{A}n\acute{s}s\check{d}\ddot{o}w$
- ◆  $Dd\grave{a}h\check{c}d'A\acute{g}d'A\acute{Z}shn\grave{A}\acute{e}\acute{g}d'AZ\check{v}\acute{a}t\ddot{o}l\check{c}\grave{A}n\acute{A}g\check{d}AZ\check{v}\acute{A}g\check{Z}\acute{s}\check{A}h\check{J}j\acute{A}d\check{A}d\check{h}\acute{s}\acute{s}d\check{c}\grave{A}n\acute{A}g\check{d}A\ddot{o}d\check{Z}\check{r}\check{t}\ddot{o}w$
- ◆  $R\check{t}\check{e}\check{q}d\check{r}\acute{s}A\ddot{u}\check{A}\check{e}d\check{Z}\acute{s}\check{t}\ddot{o}d\check{r}^3$

From users' feedback, appropriate administrative functions may be introduced. Additionally, to encourage people to engage in this process, there may be some benefit for those that vote.

### 4.3. Farming

Lamas Finance's farming process is as follows: users add liquidity to get LP tokens, then stake the LP tokens to earn interest with an extremely high APY.

Farming profits are from Lamas Treasury.

In the initial stage, there are two farming pairs provided on Lamas Finance: LMF/USDC, LMF/SOL.

## 5. TOKENOMICS

### 5.1. LMF

LMF, the native utility token of the Lamas Finance platform, is used for rewarding users and is utilized in all of the system's features. LMF token holders will enjoy many benefits such as rewards from staking and farming programs, reducing taxes when playing games, and participating in project management.

#### *Key metrics*

- ◇ Token Name: Lamas Finance
- ◇ Ticker: LMF
- ◇ Blockchain: Solana
- ◇ Token Standard: Solana
- ◇ Total Supply: 10,000,000 LMF

### 5.2. Lamas Treasury

Lamas Treasury is a reward pool designed to reward users for playing games, collecting NFTs, and most notably partaking in Lamas Finance's DeFi functions like staking and farming. It is sustainably structured and efficient to guarantee a consistent supply of LMF tokens (zero inflationary) while also maintaining a high level of incentive for LMF holders and users partaking in Lamas Finance services.

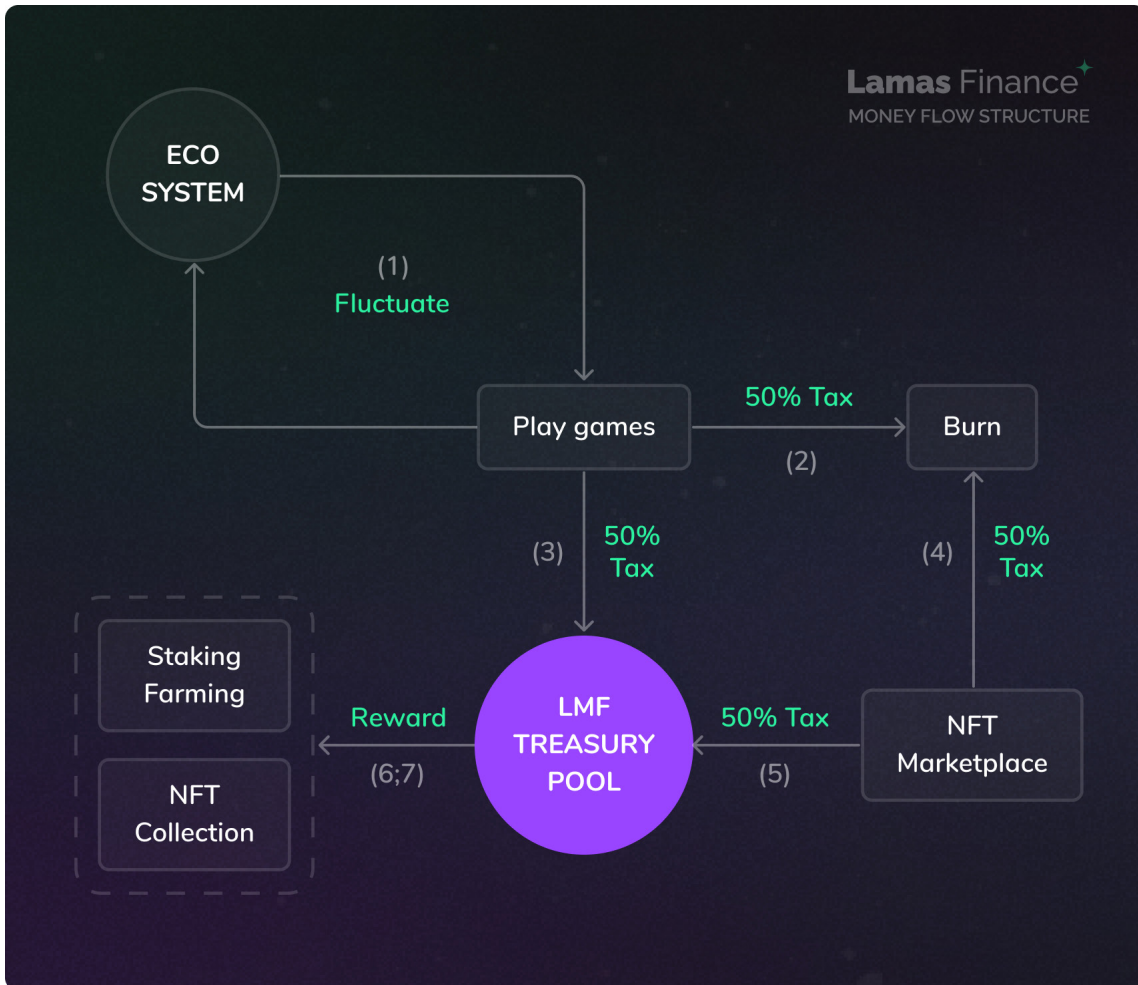
Lamas Treasury will be initialized with 25% of the total LMF token supply (for more details on token allocation, see Token Allocation). After that, the treasury will be maintained by the following sources of the avenue:

- ◇ *Taxes collected from games, and*
- ◇ *Taxes on NFT transactions on Lamas market.*

The Lamas Foundation Team will adjust the rewards for NFT redemption, staking, and farming such that no more than 10% of the Lamas Treasury is used to award users each month. The monthly revenue will compensate for this expense.



### 5.3. Money Flow Structure

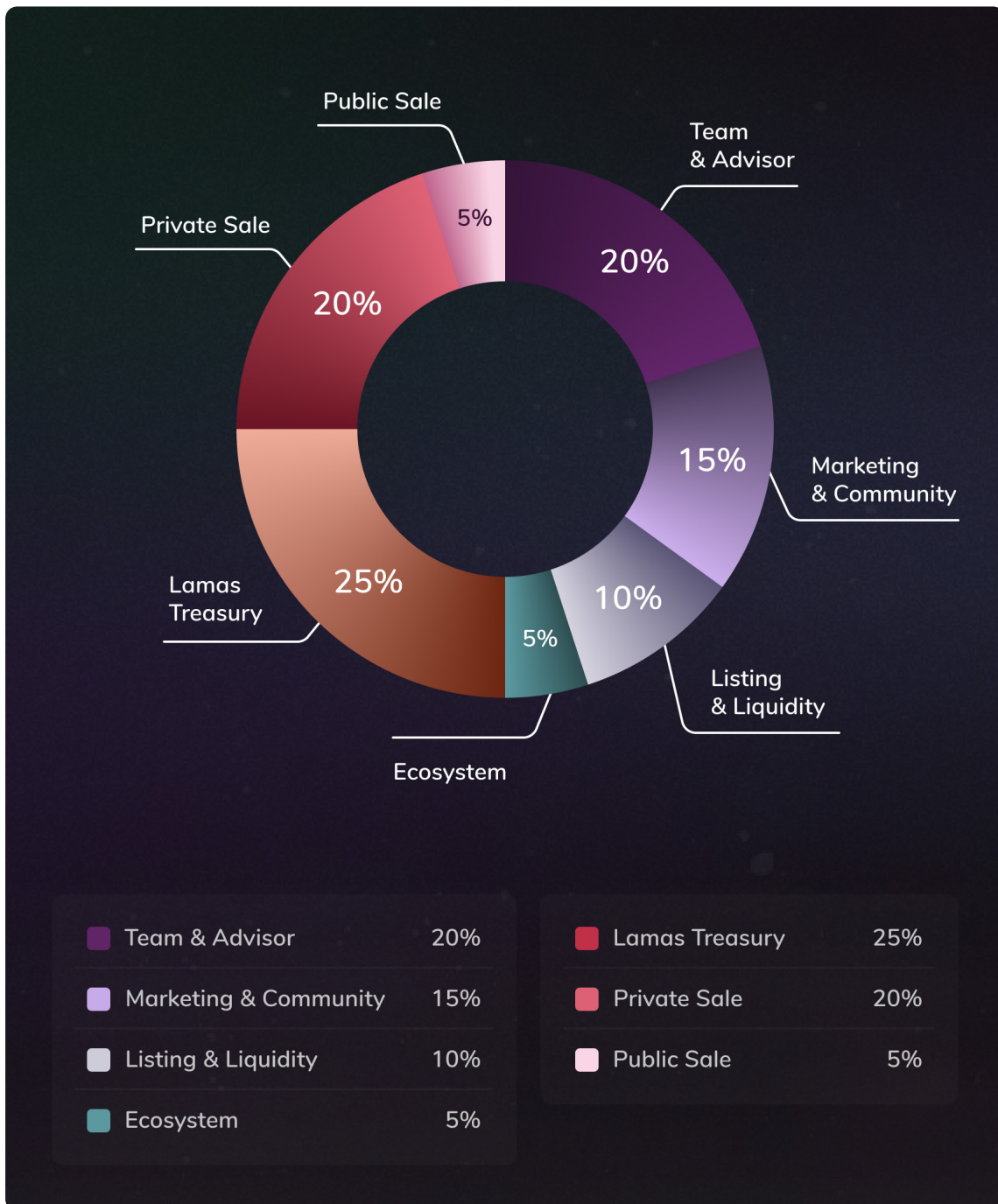


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## 5.4. Token Allocation



## 5.5. LMF Vesting Plan

- ◇ Team & Advisor: 6-month cliff, linear vest within the next 12 months
- ◇ Marketing & Community: 20% distributed in the first 1 month, the rest 80% will be distributed in the upcoming events within 12 months (from TGE)
- ◇ Listing & Liquidity: 30% at TGE for DEX listing, 70% for CEX listing
- ◇ Ecosystem: used for the game (fluctuating)
- ◇ Lamas Treasury: used for yield & incentives
- ◇ Private Sale: 10% at TGE, linear vest within the next 12 months
- ◇ Public Sale: 40% at TGE, 60% linear vest within the next 2 months



## 5.6. Sale Detail

### ◆ Private Sale

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Allocation: 20%

Token for sale: 2,000,000 LMF

Price: \$0.1 - \$0.2

### ◆ Public Sale

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Allocation: 5%

Token for sale: 500,000 LMF

Price: \$0.3 - \$0.4

### ◆ Dex Listing (Raydium Liquidity)

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Circulating supply: 400,000 LMF

(1% liquidity + 1% private + 2% public = 4%)

Price: \$0.4

Initial market cap: \$160,000

Fully diluted market cap: \$4,000,000

## 6. ROADMAP

### *The third quarter of 2023*

- ◇ Complete whitepaper & documents
- ◇ Launch official website
- ◇ Launch community & media
- ◇ Private sale
- ◇ Testnet for 2/4 games

### *The fourth quarter of 2023*

- ◇ Whitelist and public sale
- ◇ Presale NFT
- ◇ Mainnet for 2/4 games
- ◇ TGE & DEX listing
- ◇ CEX listing
- ◇ Swap & add liquidity

### *The first quarter of 2024*

- ◇ Testnet for 4/4 games
- ◇ Launch Farming & Staking
- ◇ Launch “Play to Earn NFT”
- ◇ Mainnet for 4/4 games

### *The second quarter of 2024*

- ◇ Launch NFT Marketplace
- ◇ Launch “Burn NFT”
- ◇ Launch “NFT Reward”
- ◇ Governance function

### *2024...*

- ◇ Lending protocol
- ◇ Multi-chain support for all games
- ◇ Release new Dapp games