

Scallop White Paper 1.9.3





Scallop Team

September 2021



Scallop

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# 1. Disclaimer

Scallop whitepaper is strictly intended for informational purposes only, it is neither an offer document nor investment suggestions nor an invitation to invest in the Scallop project or mentioned projects or any of their products.

This whitepaper will update in real time without notifications, all of the rules and explanations might still change, make sure you've saved the link of Scallop whitepaper (<https://doc.scallop.io/whitepaper.pdf>) to have the latest version.

## 2. Preface

Smart Contract and DeFi technology have been growing really fast since 2014 when Ethereum was borned. In 2020, many DeFi projects were announced and it affected the financial concept of all humans.

Meanwhile on-chain collectibles and NFTs walk into people's lives too, they can be used to represent items such as photos, videos, audio, and other types of digital files. There are huge potentials in the usages of on-chain collectibles in many aspects.

In 2021, people only see numbers on most of Defi projects, it's hard to make app stickiness, make us want to make a product which users will usually visit, we think we can build a no-loss lottery plus on-chain collectibles gaming project, because there are only a few no-loss lottery projects on blockchain.

We are going to create tokens and NFTs to be unique collectibles, make them like Pokemon Cards or Yugioh Cards, it can also increase application stickiness like people will usually check his collection cabinet, and sometimes our collectibles will also interact with our application.

The fading reason for no-loss lottery projects is that users always win nothing before they win something, and it still costs gas fee, so we chose Solana because it cost almost 0 gas fee which is a perfect match with no-loss lottery projects, and there's almost no no-loss lottery project we can use right now on Solana. We also designed some tasks for users to make them have some extra chance to win something while they are having bad luck.

Besides super low gas fee, Solana is a super fast, high security, composability and decentralized blockchain and Scallop team think Solana will be a world computer and be a part of all humans life, just like we are all the witness of how internet entered our world, and it had changed everything.

### 3. What is Scallop?

Scallop is a DeFi game on Solana, users can stake their tokens in Scallop Pools to grow scallops in Scallop Tank, while they stake tokens, they can get the same worth of Scallop Token (SCA).

At the end of each week, one or a few winner(s) chosen by program randomly will share out some SCA as the staking reward. During the game users can win tokens and Scallop Decorations by carrying out some tasks ✨!

The screenshot displays the Scallop DeFi game interface. At the top, the navigation bar includes the Scallop logo, links to Tank, Stake, Winners, Decorations, and About, along with a 'Connect Wallet' button and a 'US' flag. The main dashboard features several key metrics: 'Total Value Locked' at \$123,645.39, 'Have Sent Out' at 22,573.56 SCA, and 'SCA Price' at \$1.25. A 'Next Harvesting' timer shows 5d 17h 3m 29s. The central 'Scallop Tank' is an underwater scene with a 'Next Harvesting' timer (13:03:29) and a message 'You staked 100 RAY'. On the right, the 'Staking' and 'Lending' sections are visible. The 'Staking' section lists three pools: 100 SCA staking pool (67.20% APY, 658/1000), 100 RAY staking pool (28.29% APY, 256/1000), and 10 SOL staking pool (7.91% APY, 235/1000). Each pool has a 'Deposit' button. The 'Lending' section is currently empty. At the bottom, there are links to the Blog, Telegram, Twitter, and Discord.

Pool	APY	Now Staking	Winners
100 SCA staking pool	67.20%	65,829 SCA	1
100 RAY staking pool	28.29%	25,600 RAY	1
10 SOL staking pool	7.91%	2,659.69 SOL	1

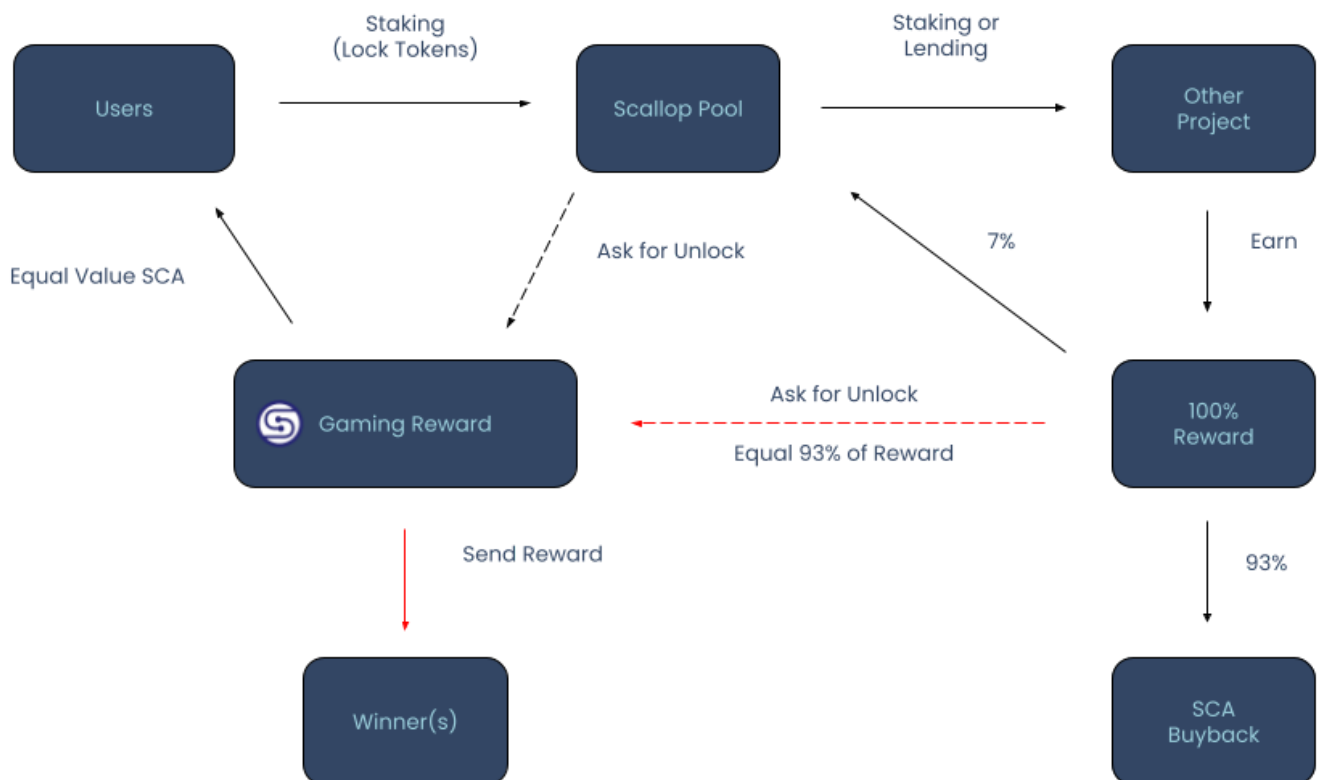
## 4. Rules

### 4.1. Rules

Users can stake their tokens into Scallop Pools to grow scallops in Scallop Tank, while they stake tokens, they can get the same worth of Scallop Token (SCA) as the token they staked.

**Every Friday 20:00 (GMT+8) will be the harvest time**, users will have the qualification of harvesting after staking over 7 days.

After harvesting, one or a few winner(s) chosen by **Switchboard VRF** (Verified Random Functions) will share out the reward SCA (With the same value of 93% staking reward), 7% of staking reward will be kept in the staking pool and other will be SCA buyback.



There will be different tiers of pools with the different address limits, different SPL tokens to let users stake tokens, ex:

- 10 SCA/1000 address
- 100 RAY/1000 address
- 10 SOL/1000 address
- 100 USDC/ $\infty$  address

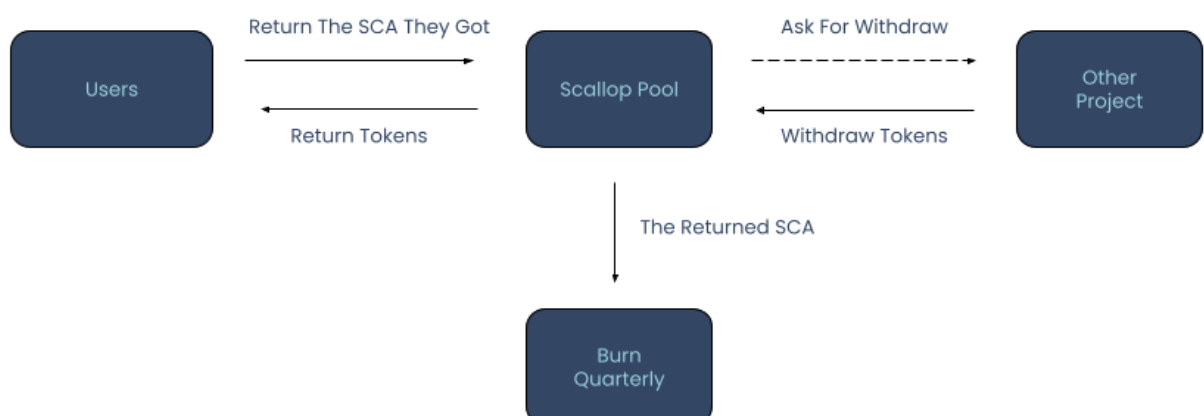
You can see where the funds will go, our program will use them to earn rewards by:

- Stake SOL on Solana Validator or other SOL staking projects.
- Stake the SPL tokens which have their own staking program.
- Lend to some lending projects.
- Join some liquidity mining pool.

**Notice** 🔍:

- If users keep staking, they can harvest every week.
- Users can get back the token they staked while they return SCA.

For example, if a user stakes 100 USDC, he will get \$100 worth of SCA, and he can't take back 100 USDC without returning the SCA he got while he joined the pool.





## 4.2. Tasks 🏆

During the game users can carry out some tasks to win some prizes because we won't let users join us for a month with win nothing, and this will also make app stickiness also make users love to stake their tokens at Scallop.

Users can carry out some tasks like:

- Stake at some staking pools for over a month.
- Stake more than 10K SCA over two weeks.
- Offer \$100 values to SCA/USDC Liquidity pools for a month.

To win:

- Scallop Decorations
- Extra SPL tokens
- SCA
- NFTs

There will be 2 ~ 3 tasks that will be parallel at the same time.

Extra SPL token rewards will be the token minted by partnership projects, most of them might be meme tokens, these are projects we wants to have partnership for the extra SPL token rewards:

- **CATO**
- **Shoebill coin**
- **Samoyedcoin**
- **Moonlana**

We will use SCA or Scallop Decorations to trade their tokens or NFTs.

## 5. Earn

There will be slide bars to let users choose which pool they can join and earn rewards, we will have 3 ways to use the funds to earn rewards.

### 5.1. Staking

At the beginning, our project will choose staking SOL to earn rewards, because SOL is the native token on Solana, to be more decentralized, we will not keep using the same Solana validator, we are also planning to set up our own Solana Validator in the future.

We might use these SOL staking projects:

- **Marinade (Priority)**
- **Socean**
- **Scallop Staking Program**

We will also let users to stake some SPL tokens which their mother project have staking program for their native token to earn rewards, like the projects listed below:

- **Raydium**
- **ORCA**

### 5.2. Lending

We will also use lending projects to earn rewards, these are some great lending projects, we might choose tokens like USDC(srm) or wETH for lending because they have more users:

- **Solend**
- **Mango Markets**
- **Jet Protocol**
- **SolFarm**

## 5.3. Liquidity Mining

We will also join liquidity pools to earn rewards, but there will be impermanent loss during liquidity mining, so we put them thirdly.

Liquidity mining projects:

- **Orca**
- **Serum**
- **Raydium**
- **Saber**

And we will also keep an eye on some special liquidity pools like:

- USDT/USDC at **ORCA**
- mSOL/SOL at **Marinade, Saber**

If they are suitable with our program, we will also use them to earn rewards in the future.

## 6. Scallop Decorations

### 6.1. Overview

In Scallop, if your address has some tokens, no matter these are Fungible Tokens or Non-Fungible Tokens (NFTs) which we listed, you can call them Scallop Decorations, it will be shown at Scallop tank and Interact with our game, which means you can call Scallop a **small on-chain collectibles ecosystem**.

The goal of Scallop Decorations will be **On-chain collectibles**, we want users to love collecting them like collecting Pokemon Cards or Yugioh Cards, it can also increase application stickiness like people will usually check his collection cabinet, and sometimes our collectibles will also interact with our application., and holding some kinds of Scallop Decorations will have some benefit in Scallop app.

#### How do users get them:

- Carry out tasks in Scallop.
- We will give them away in some events in our community.
- Users might get them in events which are hosted by our friendship projects.
- Buy them on **Serum** DEX UI.
- There will be a **Decorations Market**.

Users can check the details of all Scallop Decorations on Solana Explorer and some kinds of Scallop Decorations are unlimited but we won't mint it without any announcement, unlimited Scallop Decorations might be limited in the future.

## 6.2. Scallop Decorations

### 6.2.1. Seagrass 🌱

Seagrass can reach heights of 200 feet (60m), which is as tall as a 20-story building 🏢.

Address : SeawdHf3NHG6gxCrezQxr5oJAHTLJd6JsQxxd144yaz

Symbol : Seagrass

Name : Scallop Seagrass Decorations

Decimals : 0

Max Supply : 10000 (Tentative)

Rarity : ★☆☆☆☆



We gave them to the addresses which voted us over 2 USDC at Solana Hackathon Asia 2021.

## 6.2.2. Scallop Fossil 🗿

There were archaeologists found Scallop fossils on Mount Everest 🏔️!

Serum Market ID (Fossil/USDC):

NF5PoXovc9wpWMPMrGeCQSmJRAEEUFCR3UZGVHTonf9

Address : FossilLkXJZ1rePN8jWBqHDZZ3F7ET8p1dRGhYKHbQcZR

Symbol : Fossil

Name : Scallop Fossil Decorations

Decimals : 0

Max Supply : 400 (Fixed)

Rarity : ★★★★★



We gave them to the addresses which are the first batch of Seagrass holders at Q3 2021.

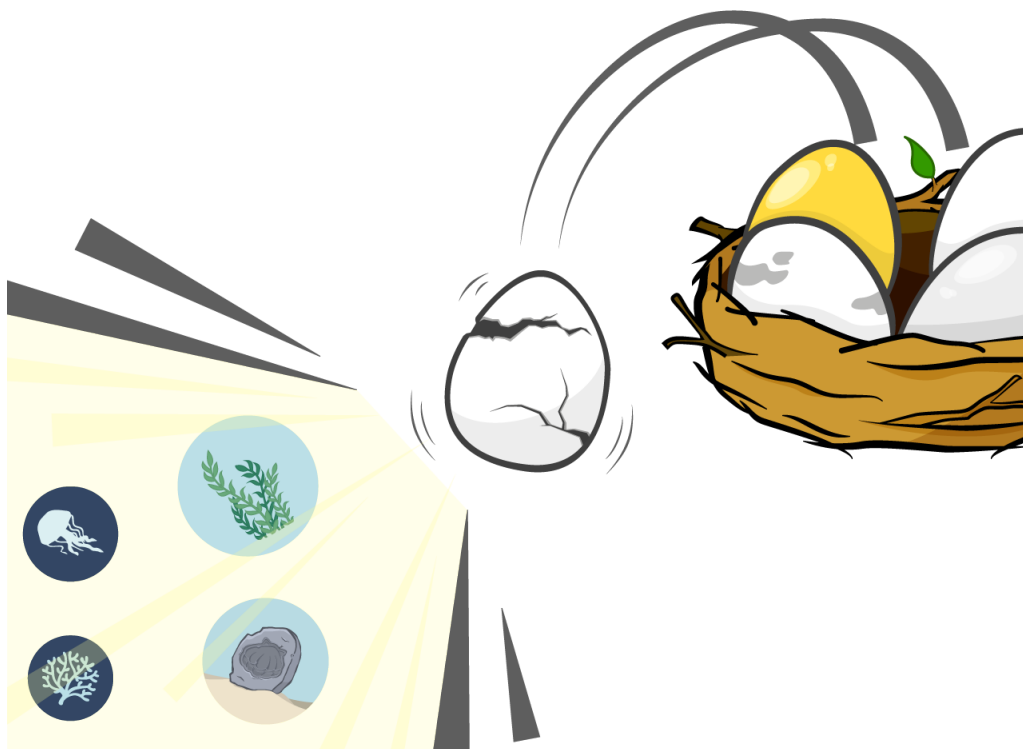
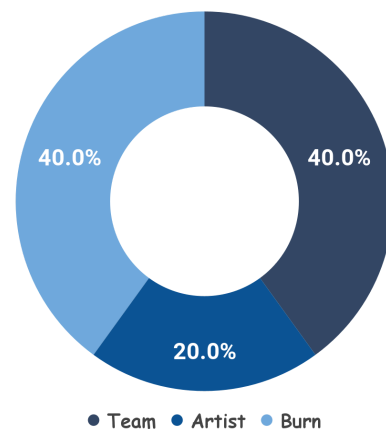
## 6.3. NFTs Decorations

We will mint NFTs (Non-Fungible Tokens) Decorations by using **Metaplex** with Solana NFT Metadata Standard, each NFTs Decorations will have many different attributes which means each of them will be one and only, total supply will be limited too.

You can mint NFT decorations using SCA to buy a **NFT Decorations Egg**, it's a kind of **NFTs candy machine**, the price will be a fixed amount of SCA.

The income will be divided to 3 parts:

- Team (40%)
- Burn SCA (40%)
- Artist (20%)



## 6.4. Usage

- You can stake it, check [7.4.3 Staking](#).
- Make your Scallop tank more beautiful and colorful.
- Holding some kinds of Scallop Decorations might let you get more extra tokens in events or staking pools.

We will note some trivia next to Scallop Decorations.



## 7. Scallop Token (SCA)

### 7.1. Overview

Address : ScaLopYHz9eKtDdKs4yLswwq2RSUtNMZVdPynMcYcc9

Symbol : SCA

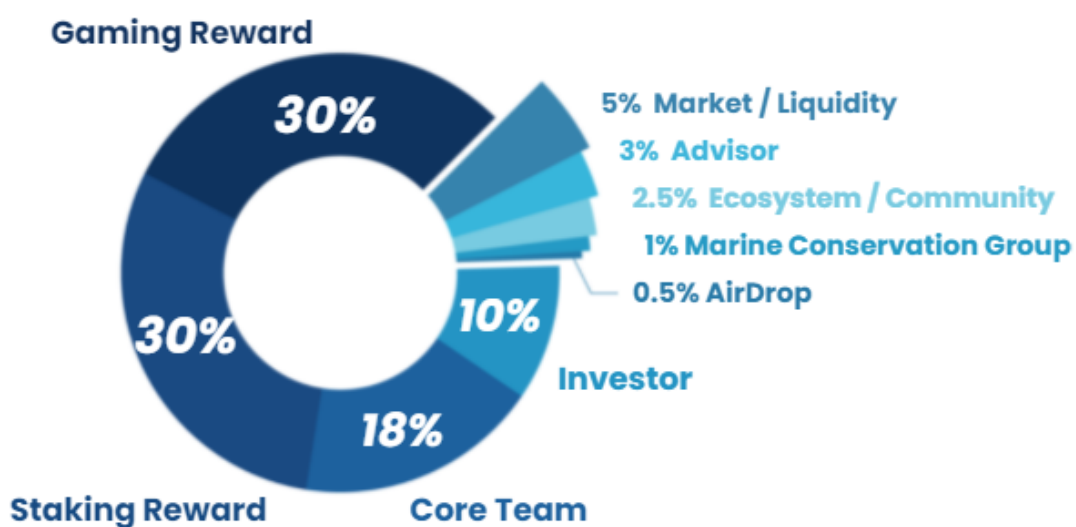
Name : Scallop

Decimals : 6

We will mint all of the SCA token at the beginning when it is launched, it will be a fixed supply token and burned quarterly which also means SCA is a deflationary SPL token on Solana.

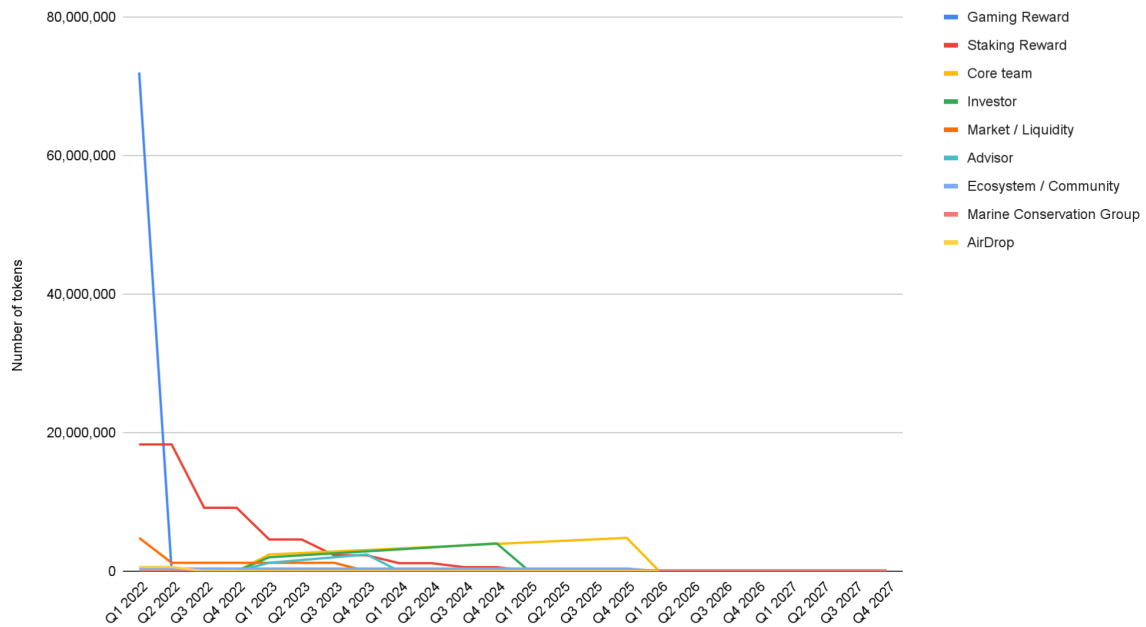
We will divide all of SCA token to 9 parts:

- Gaming Reward
- Staking Reward
- Investors
- Core Team
- Market / Liquidity
- Adviser
- Marine Conservatio Group
- Ecosystem / Community
- Airdrop



## 7.2. Model

SCA Tokenomic



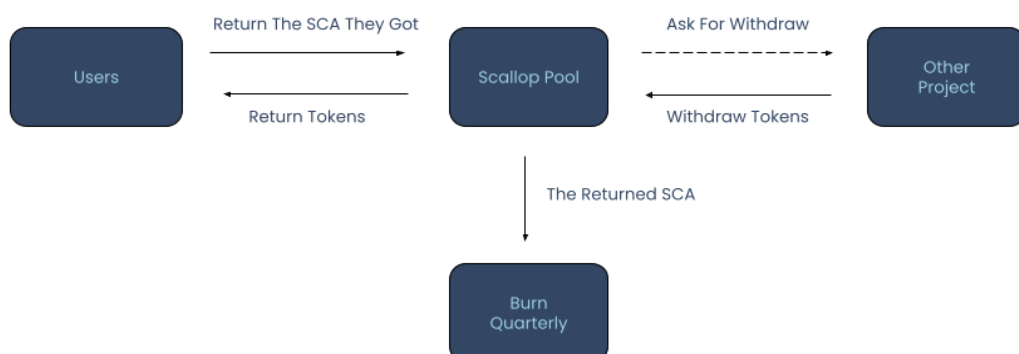
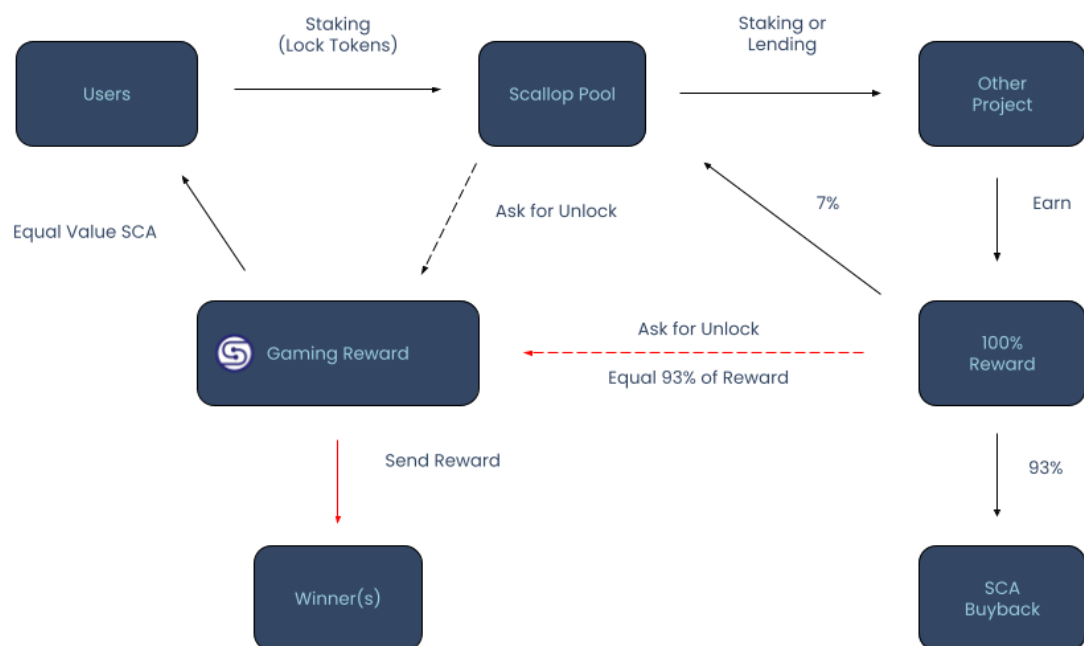
Allocation	Percentage	Number of Tokens
Gaming Reward	30.00%	72,000,000
Staking Reward	30.00%	72,000,000
Core Team	18.00%	43,200,000
Investor	10.00%	24,000,000
Market / Liquidity	5.00%	12,000,000
Advisor	3.00%	7,200,000
Ecosystem / Community	2.50%	6,000,000
Marine Conservation Group	1.00%	2,400,000
AirDrop	0.50%	1,200,000
<b>Total</b>	<b>100.00%</b>	<b>240,000,000</b>

## 7.2.1. Gaming Reward

### 7.2.1.1. Unlock for Swap

This part will be locked on- chain in our Scallop Pools program and unlocked while users staking or harvesting. If users return SCA and get back the token they staked, the return SCA will be burned.

We will lock some SCA in the pools for swapping their tokens in each pool. The amount of locked SCA in each pool will be 2~5 times worth of maximum pool token locked value, to avoid the locked SCA is not enough, and at the end of this pool, the SCA can take out and reuse.

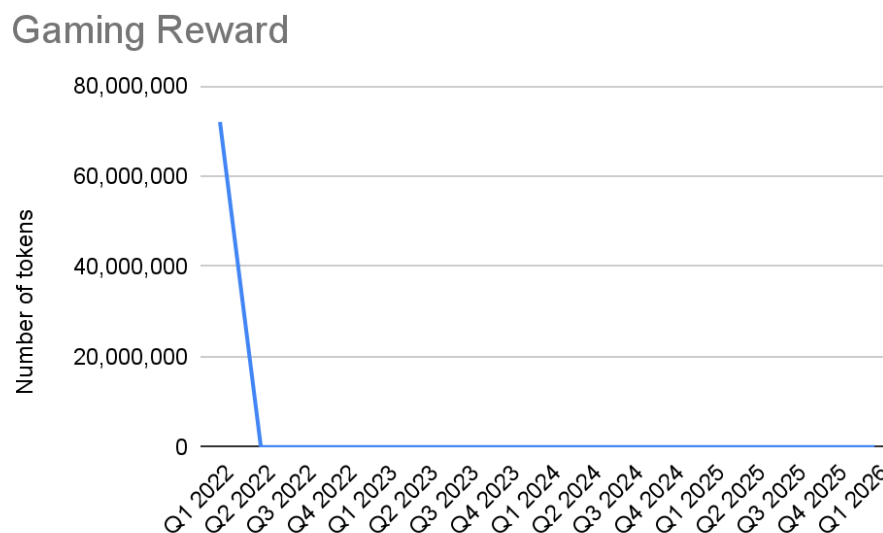


### 7.2.1.2. Extra SCA reward

We will let the address which is in Scallop Pools can share out a small joining reward, it will feel like a low APR staking program, might be less than 5%.

### 7.2.1.3. Tasks Reward

There will be an amount of SCA to be the Tasks Reward Irregularly, the tasks will be like if an address stakes some tokens over a month in Scallop, they can share out an amount of SCA.



## 7.2.2. Staking Reward

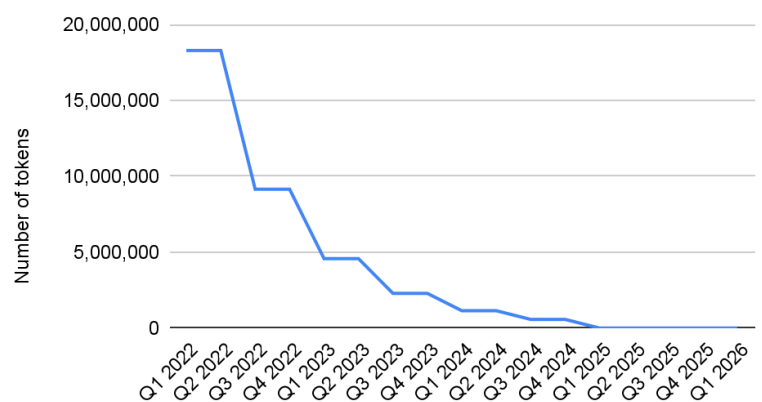
There will be two parts, SCA token Staking Program & Scallop Decorations Staking program, emissions will last for 3 years, with halving every six months.

Staking Reward will be released each hour, all the staking addresses will share out the Staking Reward SCA.

	Month	Emission (SCA)
32x	1-6	36,571,428
16x	7-12	18,285,714
8x	13-18	9,142,857
4x	19-24	4,571,428
2x	25-30	2,285,714
x	31-36	1,142,857
63x	3 years	≈72,000,000

$$x = 72000000/63 \approx 1,142,857 \text{ SCA}$$

Staking Reward



### 7.2.2.1. SCA token Staking

75% of Staking Reward will be according to staking weighting and different locked day limits.

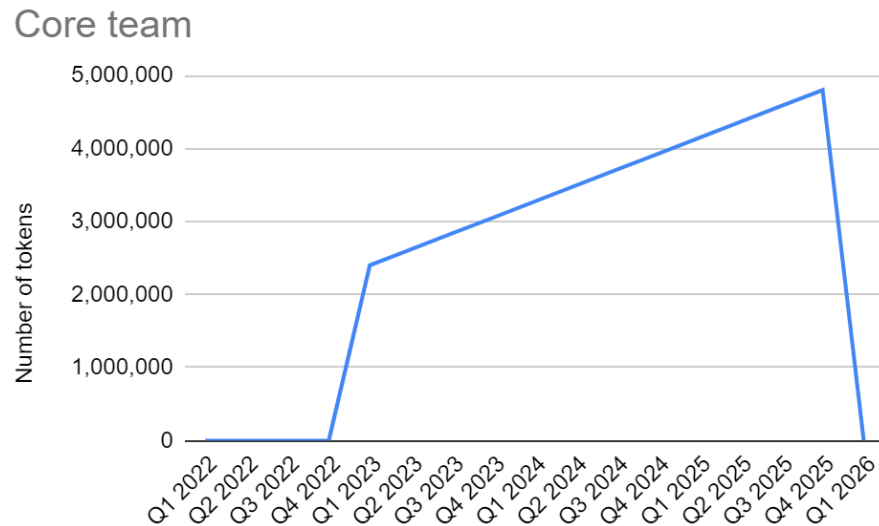
- No limit - 0% bonus
- 15 days - 3% bonus
- 30 days - 5% bonus
- 60 days - 10% bonus

The amount of SCA staking reward will be a fixed supply SCA according to the time and token model, all of the staking address will share out the staking supply each 8 hours, which means the proportion will be:

$$1(\text{no limit}) : 1.03(15 \text{ days}) : 1.05(30 \text{ days}) : 1.1(60 \text{ days})$$

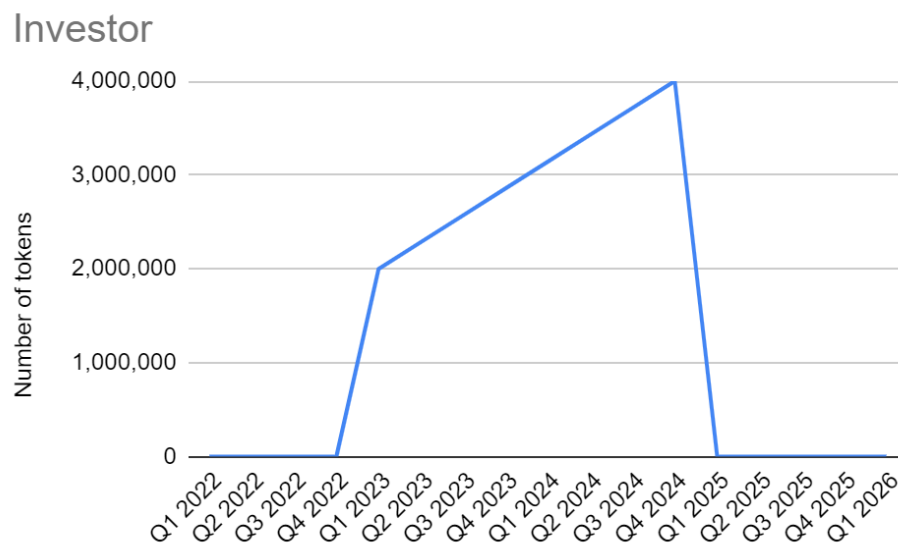
### 7.2.3. Core Team

Locked on-chain with a cliff of a year and 3 years of linear unlocking.



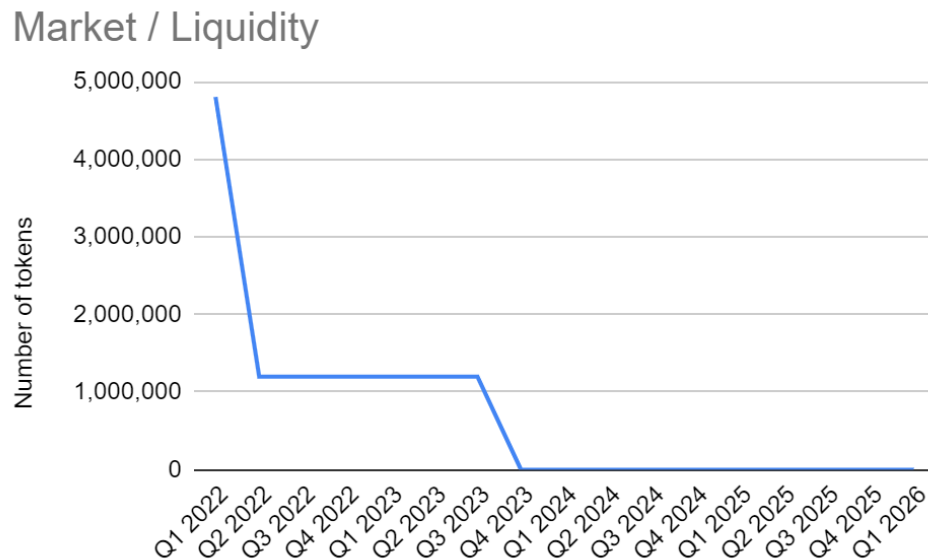
### 7.2.4. Investors

locked on-chain with a cliff of a year and 2 years of linear unlocking.



## 7.2.5. Market / Liquidity

40% of Market / Liquidity will be unlocked at the beginning, 10% will be unlocked and join the market quarterly for one and a half years.

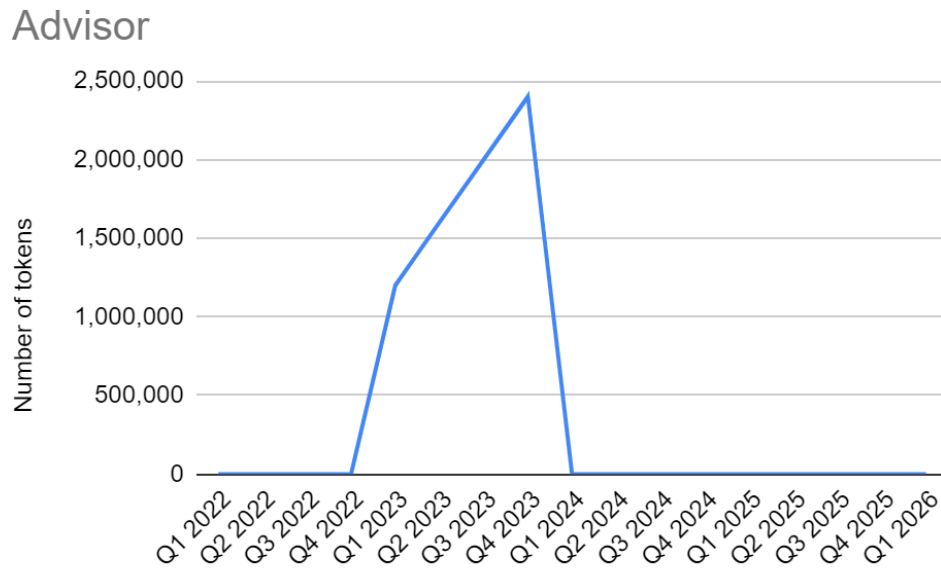


Solana IDO platform we might use:

- **Raydium@**
- **Solster**
- **SolPAD**
- **Solanium@**
- **BocaChica@**
- **Solcubator**
- **StarLaunch@**

## 7.2.6. Advisor

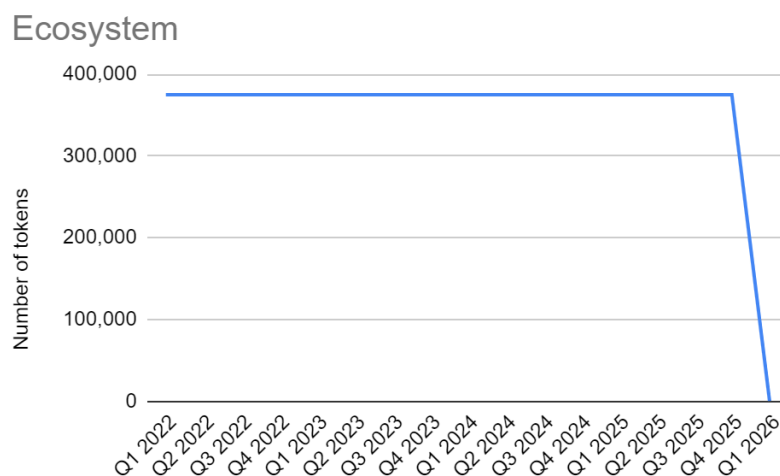
Locked on-chain with a cliff of a year and 1 year of linear unlocking.



## 7.2.7. Ecosystem / Community

Locked on-chain with 4 years of smooth unlocking quarterly.

1/5 supply of "Ecosystem / Community 2.5%" will be given away to Scallop Moderators.

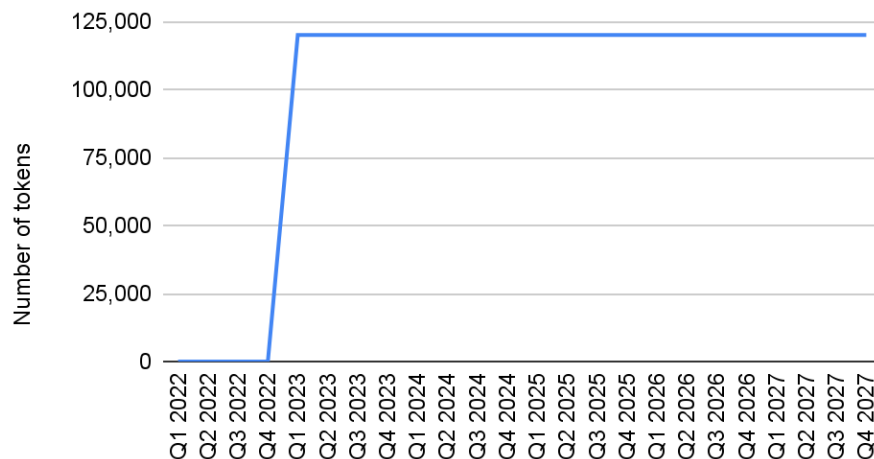




## 7.2.8. Marine Conservation Group

Locked on-chain with a cliff of a year and 5 years of smooth unlocking, we will find a Marine Conservation group and have partnership with them.

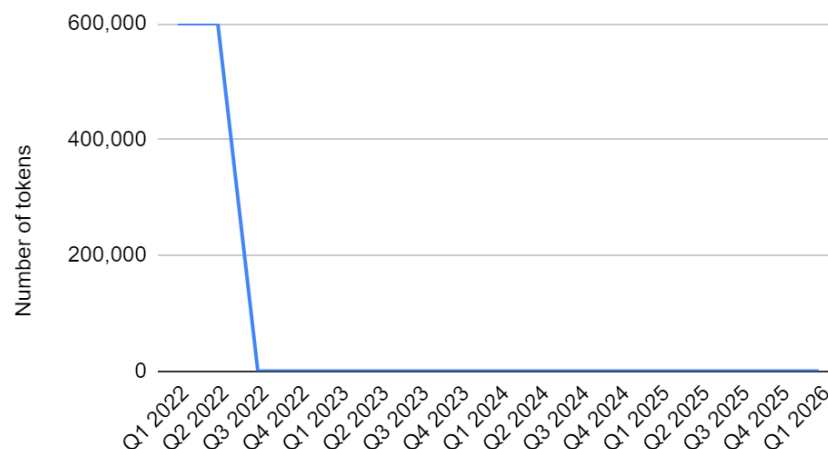
Marine Conservation Group



## 7.2.9. Airdrop

0.5% or SCA token supply (1200000 SCA) are for airdrop to users, we planned to have 2 times airdrop.

AirDrop



### 7.2.9.1. First Airdrop

First SCA airdrop will be at Q1 2022 (Share out 600,000 SCA).

The airdrop targets will be every address which stakes more than a value at our program, the address which also has Scallop Fossil Decorations can get 50% bonus.

### 7.2.9.2. Second Airdrop

Second SCA airdrop at Q2 2022 (Share out 600,000 SCA).

The airdrop targets will be every address holding Scallop NFTs Decorations and Scallop Fossil Decorations, the address which also has Scallop Fossil Decorations can get 50% bonus.

## 7.3. Buyback & Burn

SCA is a deflationary token, these are where will we buyback SCA:

- 93% of staking reward at Scallop pool.
- Part of income of Scallop Decorations Eggs.
- Scallop Pool in/out fee

If users return SCA and get back the token they staked, some of the returned SCA will be burned too. The burning will be quarterly.

## 7.4. Token Utility

### 7.4.1 Voting

SCA token is designed to shift towards governance, we are focusing on some interesting voting projects on Solana, once ready, we will shift governance to token holders.

This will allow holders to vote on some subject like :

- Treasury Usage
- Scallop Improvements
- Set up new SPL token tank

### 7.4.2 Liquidity Mining

Offer liquidity to SCA/USDC, SCA/SOL liquidity pools setted by these project:

- **Orca**
- **Serum**
- **Raydium**
- **Saber**

### 7.4.3 Staking

Please jump to [7.2.2. Staking Reward](#).

### 7.4.4 Shopping

Users can buy some kinds of Scallop Decorations and Scallop NFTs Decorations with SCA token.


## 8. Road Map

### 8.1. Q2 2021

Scallop Born 

Solana Season Hackathon  (**16th Place at Solana Hackathon Asia 2021.**)


- Solana Season Hackathon Global
- Solana Season Hackathon Asia Division

First Scallop Decorations (Seagrass )

### 8.2. Q3 2021

Scallop Fossil 

Ignition

- Ignition  | Solana Hackathon
- Ignition | Solana Hackathon Asia Division

### 8.3. Q4 2021

Scallop on Dev-net

## 8.4. 2022

SCA Launch

Scallop on Main-net 

SCA Airdrop 

SCA Liquidity Pools

SCA Staking

Decorations Market

Scallop Nautilus (Bidding)

- By using **Metaplex**.

Scallop NFTs Decorations

- By using **Metaplex**.

SCA Airdrop 2 

Vote with SCA

Decorations Illustrated Book

Scallop Decorations Eggs 

- We will Invoke **Switchboard VRF**.