CryptoChefs

White Pepper

v1.7.0

Content

Introduction

Welcome to the flavorful world of CryptoChefs. CryptoChefs is a play-to-earn NFT game that offers fun trading competitions to its players. At CryptoChefs, seasoned traders create so-called "crypto recipes" representing a crypto strategy and compete against other players' recipes for daily, weekly, and monthly rewards. The aggregated real-world performance of each token within a recipe determines the overall performance and the ranking of the recipe, and hence the share of the reward pools.

In this white paper, the different player roles, game mechanics and tokenomics are introduced in more detail. In order to better understand the subsequent chapters, the following table provides insight into the terms used herein.

Term	Definition
Chef(s)	Refers to the player(s) of the game that creates recipes
Foodie(s)	Refers to the player(s) of the game that stake AROMA on recipes that are not their own
CHEF	NFT token that is required to participate in our game as a chef
AROMA	ERC20 token that is used for buying a CHEF NFT, creating recipes, and recipe name change on the Polygon network
Pouch	Every CHEF NFT is equipped with three pouches. Each pouch can hold one recipe
Recipe	Metadata of the CHEF that consists of a list of ingredients, which represent a data pair of tokens and their percentages for a specific recipe, e.g. [BTC, ETH, SOL][50%, 25%, 25%]
Market	Place where you can swap AROMA and buy a CHEF NFT
Kitchen	This is where you create your unique recipes to compete against the world
Buffet	It contains every recipe in the game and their performance data

Table 1: Glossary

Mise en Place

As befits any proper kitchen, *the mise en place* plays a vital role. In this chapter, the player roles are introduced, our NFT token is explained in detail and last but not least, the utilities of the fine-tasting AROMA token are described.

Player Roles

At CryptoChefs, it's upon you to decide how you want to dive into the rewarding adventures of the game. Do you want to take matters into your own hands and create the most delicious recipes as a chef? Or would you rather go hunting for the best recipes as a foodie?

Chefs

Surprise the world with your knowledge in the field of cryptocurrencies and secure further AROMA staking from the foodies with your profitable recipes. As a seasoned chef, you have tons of different ingredients at your disposal, from which you can use three to twenty for your own unique recipe. You set the composition yourself and determine how large the proportions of each individual ingredient should be. Once you have created your unique combination, you need to decide how much AROMA you want to add to your recipe. You crown your glorious recipe with a unique name and are then finally ready to enter the competition.

Foodies

Foodies love trying out new recipes and enjoy nothing more than having a taste of the magical mix of ingredients that our chefs come up with. Foodies are players who do not own a CHEF NFT but still want to participate in the game. Foodies can stake AROMA tokens on any recipe in the buffet that they feel could perform well. When foodies stake in a recipe, they share the profit of their stake with the chef who created the recipe.

CHEF NFT

CHEF is our NFT token that is based on the ERC721 standard and issued on the Polygon & Ethereum blockchain. The CHEF tokens represent the players and serve as a basis to play our game. Our NFTs have the following functions:

- Three pouches of which each can hold a recipe
- Holding AROMA stakes on each recipe
- Voting rights for the development of the game

We love the art of our CHEFs and programmatically ensure that every CHEF of the 5'555 that is ever going to be minted is unique. Each CHEF is created using a random avatar generator. Upon choosing a base chef, the generator iterates through each trait, randomly choosing one, and comparing the completed output to the already existing CHEF NFTs. The CHEF images are then deployed on the InterPlanetary File System (IPFS) and ready for the reveal. The following illustration shows the base traits that make up our NFTs.
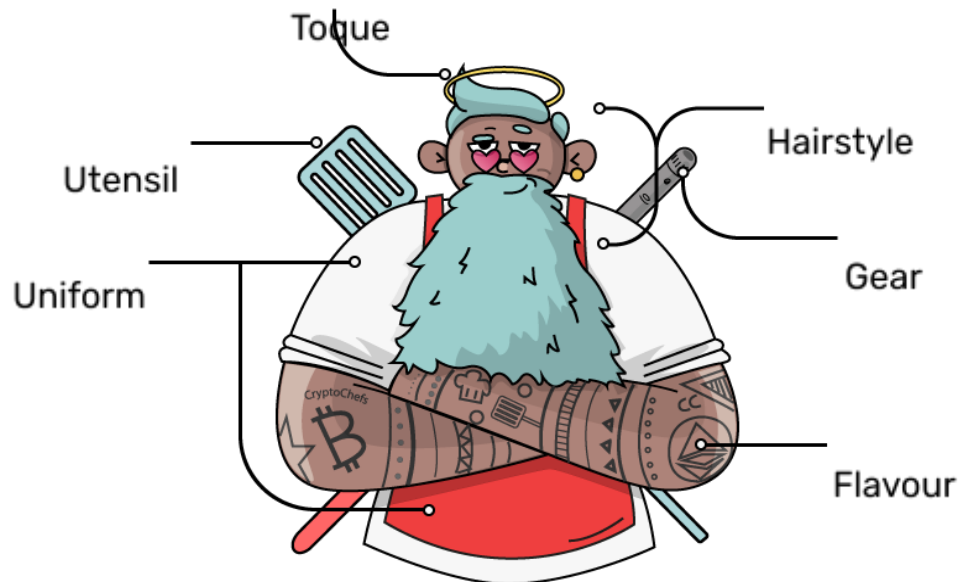

Figure 1: CHEF Anatomy

CHEF NFTs are offered in seasons and come in many different distinctive background lores. In the first season, the **hipster, zombie, ninja, vampire and cyborg** CHEFs beheld the light of the blockchain world.

AROMA Token

AROMA is an ERC20 token considered CryptoChefs' bread & butter. It is used across the whole CryptoChefs ecosystem. The following table gives an overview of the current utility, which we will keep expanding in the future.

Utility	Definition
Purchases	Minting new CHEFs in our market
Cooking recipes	Participating in competitions requires staking AROMA tokens in recipes. Once cooked, you automatically participate in every competition
Staking	Chefs and foodies use AROMA to stake them on existing recipes that they trust.
Name changes	Every recipe name in the game is unique - for a small AROMA fee, the name can be changed
DAO	Reserved for future DAO functionalities.

AROMA tokens are issued on the Polygon blockchain under the following smart contract address: **0x444DBcb15Ea0d706C04DaB615374a11759E07A25**
Currently, chefs can swap MATIC for AROMA on QuickSwap. In the future, we might add more pools for more convenience. The details about tokenomics are covered in the last chapter of the White Pepper.

Main Course

The main course covers the major game parts that make up our application. But before we head into these hot plates, it is important to briefly summarize what the goal of the game is for the players. In short, the goal for each chef is to create a recipe that performs better than the recipes created by competing chefs. In addition to recipe performance, successful chefs strive to secure as many staked AROMA for their recipes as possible. For foodies, on the other hand, the goal is to find the best-performing recipes and decide how much to stake in them. It's also important for them to keep an eye out for new / better-performing recipes and to make changes accordingly.

Market

For a professional chef, access to a market is just as important as the freshness of the ingredients used in the recipes. In CryptoChefs, our market is the ideal place to swap your MATIC for some fresh AROMA tokens, which you can use to get your hands on your unique CHEF NFT.
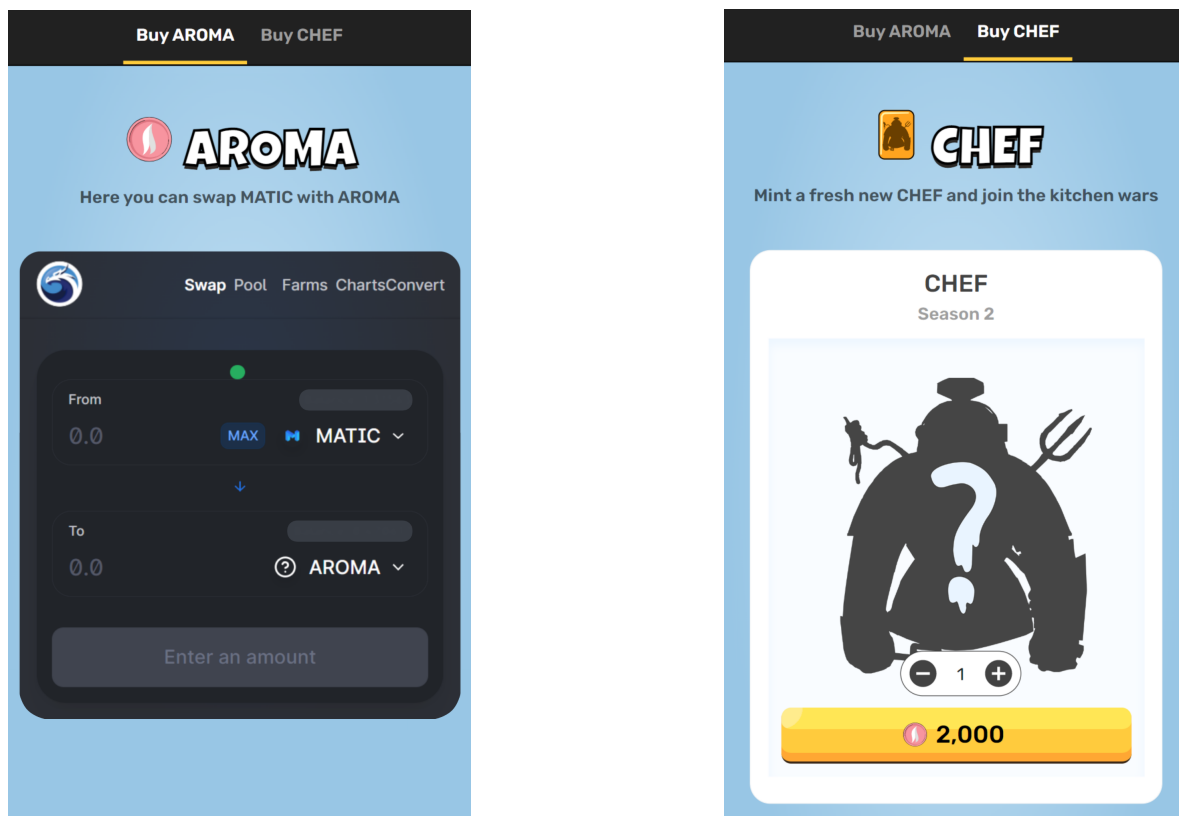

Figure 2: CryptoChefs market overview

After successfully minting your CHEF, it is time to sit back, relax and wait for the official NFT reveal. Every day at 20:00 GMT, all NFTs that were sold during the day will be revealed.

Kitchen

The kitchen is our magical place where the best chefs meet to create unique and profitable recipes and share their secrets with the community. Our kitchen is accessible to chefs and foodies alike to throw together their dream recipes and check out its historical performance. The following subchapter dives into the details of our recipes.

Recipes

Just as every cook is famous for their signature recipe, our crypto recipes are the main part of the game and the signature of every chef. The success of these recipes and thus the key to victory in this game are the know-how of the chef, the current market situation, as well as the precise evaluation of current and future world events impacting the crypto space. The tastiest recipes consist of a minimum of three and up to a maximum of 20 cryptocurrencies in 5% steps. Every recipe is unique and no other chef is allowed to use the exact same recipe to play the game. Hence, the chefs also need to bring creativity to the crypto kitchen to come up with innovative recipes and dominate the leaderboards. If your dream recipe is already taken, you can still offer your support as a foodie and stake AROMA on it.

The images below illustrate what such game-defining recipes could look like:
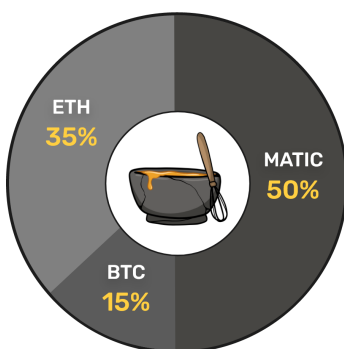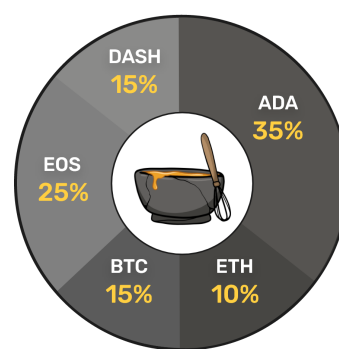

Figure 3: Recipe example A

Figure 4: Recipe example B

Chefs enjoy their own food as proof that they love it. CryptoChefs follows the same principle, except that we stake AROMA tokens on the recipes we love. In this sense, before we can move on to the final step of creating a recipe, every chef has to stake a minimum of 200 AROMA tokens on the recipe. There is no upper staking maximum for the chefs and foodies. The staked AROMA is used as an additional indicator to calculate your share from the reward pools which is explained further below. When creating a recipe, 1% of the staked AROMA goes to the CryptoChefs treasury and 99% into the recipe. To finally complete a recipe, chefs must give their signature recipes a fitting name for even more recognition in the game.

In a nutshell, the following figure summarizes the process of cooking a recipe:
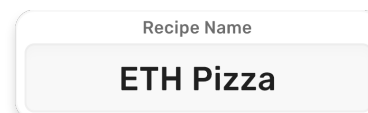
1. Choose your ingredients

   (Min. 3 - max. 20, 5% steps)
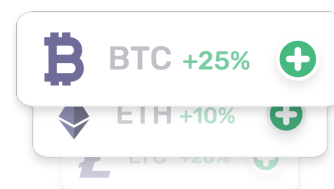
2. Stake your AROMA

   (Minimum 200)

3. Name your recipe

Once you are happy with your recipe and decide to go for it, it will automatically join every upcoming competition.

On the other plate, the staking minimum for foodies is 1 AROMA and they can choose the staking duration individually. Be it a week, a month, or six years is up to the foodies to decide. There is also no limit on how many recipes they can stake their delicious AROMA on.

Sometimes chefs need to get the most out of existing recipes with strong performance. Therefore, chefs can use the upstake function and increase their

own stake in existing recipes. When upstaking, 1% of the stake goes to the CryptoChefs treasury and 99% to the recipe.

IMPORTANT NOTE: When cooking a recipe, the cryptocurrencies used are not being bought literally. Rather we use them as metadata to measure the recipe performance.

Burning a Recipe

To remain successful, the menu of a chef needs to be adapted sometimes. Thus, every chef can burn their recipes to make room for something new. Burning a recipe is especially handy for recipes that do not perform as well as initially thought. When burning a recipe, the foodies receive all of their stake back while the chef receives 80% of his own stake. The remaining 10% goes to the CryptoChefs treasury and the final 10% will be burned. Burning a recipe incentivizes chefs to act in good faith and create the best possible recipes, and prevents players from spamming recipes. Burning a recipe leads to the unstaking of all the foodies' AROMA tokens (i.e. the chef loses the foodies on that recipe). Burning a recipe puts the pouch on a 30-day cooldown before a new recipe can be created.

Buffet

Regardless of where in the world the chefs come from, our buffet unites all active recipes in one place. Every recipe that's created in our kitchen will be listed in the buffet. Here begins the second phase of the game. In the buffet, the performance of all recipes is measured and the rewards are distributed accordingly. The buffet is also considered the main playground for the foodies. Foodies can look through the active recipes and decide which recipes they would like to stake AROMA on. The following subsections describe the available reward pools and explain how the ranking and reward system works.

Reward Pools

The largest share (60%) of all AROMA tokens is allocated to the game treasury. 90'000'000 AROMA tokens are divided into four sub-pools, namely: daily, weekly, monthly and ad-hoc reward pools. The reward pool grows with the number of recipes created.

Pool	Allocated Amount (AROMA)			Monthly Depreciation
Daily	>1'000 recipes	>3'000 recipes	>7'000 recipes	0.5%
	1'000 AROMA	x2 AROMA	x3 AROMA	
Weekly	>1'000 recipes	>3'000 recipes	>7'000 recipes	0.5%
	10'000 AROMA	x2 AROMA	x3 AROMA	
Monthly	>1'000 recipes	>3'000 recipes	>7'000 recipes	0.5%
	40'000 AROMA	x2 AROMA	x3 AROMA	
Event-Based	Depending on the event			None

Table 2: Overview of reward pools

It is our goal that the game can theoretically be played forever. For this purpose, the reward pools depreciate every month by 0.5%. However, the depreciation only goes into effect, once beta testing is done. We are also constantly working on introducing event-based reward pools for current events. These can be additional games for Christmas or New Year or other occasions that are celebrated around the world. For these pools, the duration of the game, the amount of the rewards and, if applicable, the rules of the game are announced before the event.

Ranking and Rewards

The following table gives an overview of the competitions, the times of performance measurement and eligibility.

Competition	Time of measurement	Eligibility
Daily	Daily at 09:00 CET	Recipe active for 24h
Weekly	Every Sunday at 09:00 CET	Recipe active for 7 days
Monthly	Last day of the month at 09:00 CET	Recipe active for the whole month
Event-Based	Specified at time of event	Specified at time of the event

Table 3: Time table and eligibility

To rank the performance of the chefs, the smart contract uses a point system. The performance of each cryptocurrency used in a recipe forms the base for the average recipe performance. The average performance is then multiplied by the amount of staked AROMA to determine every chef's share of the reward pool. Naturally, it is also possible that for a certain recipe, the price of all tokens used decreased in the given timeframe. In such situations, the chef receives no points at all and hence, ranks lowest. In this sense, the player with the highest score ranks in the first place and the others accordingly.

For the daily rewards, the points will be reset every day. In the weekly and monthly competitions, the points are aggregated over the respective time period. This means that a player that ranked in the lower ranks two days in a row still has the chance at the weekly and monthly competition.

The more AROMA tokens a chef locks in the recipe, the higher the share of the reward pools that can be collected. For example, if two chefs achieved the same amount of points, chef A who locked 50% more AROMA tokens in their recipe than chef B will receive a bigger share of the rewards. This mechanic adds to the complexity of the game and motivates the chefs to come up with the best strategies and increase the amount of locked AROMA.

Dessert

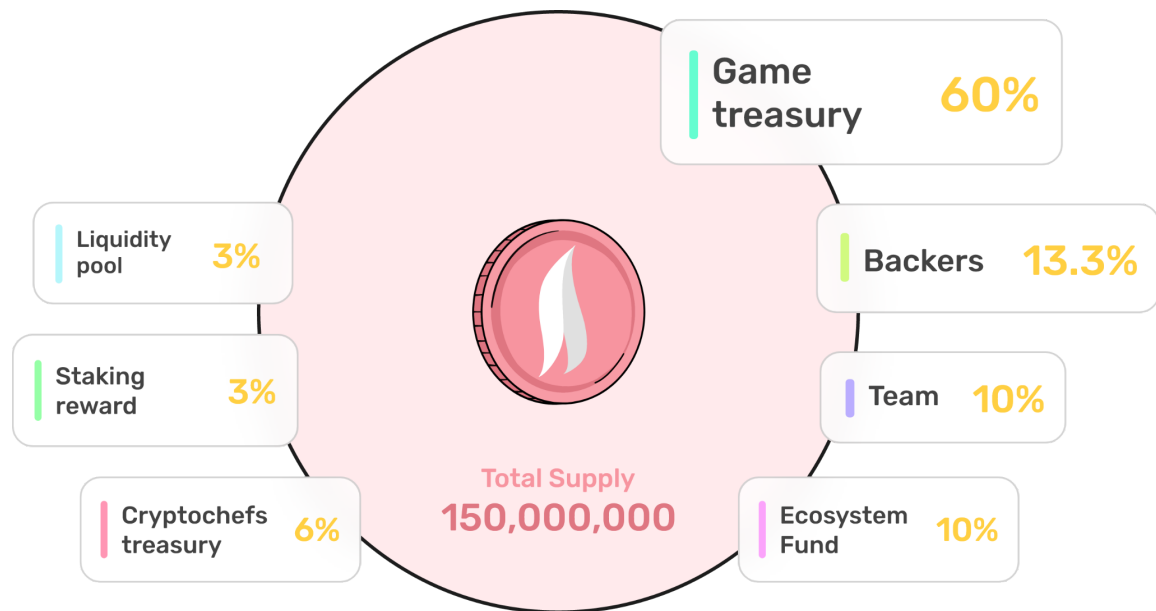## Tokenomics

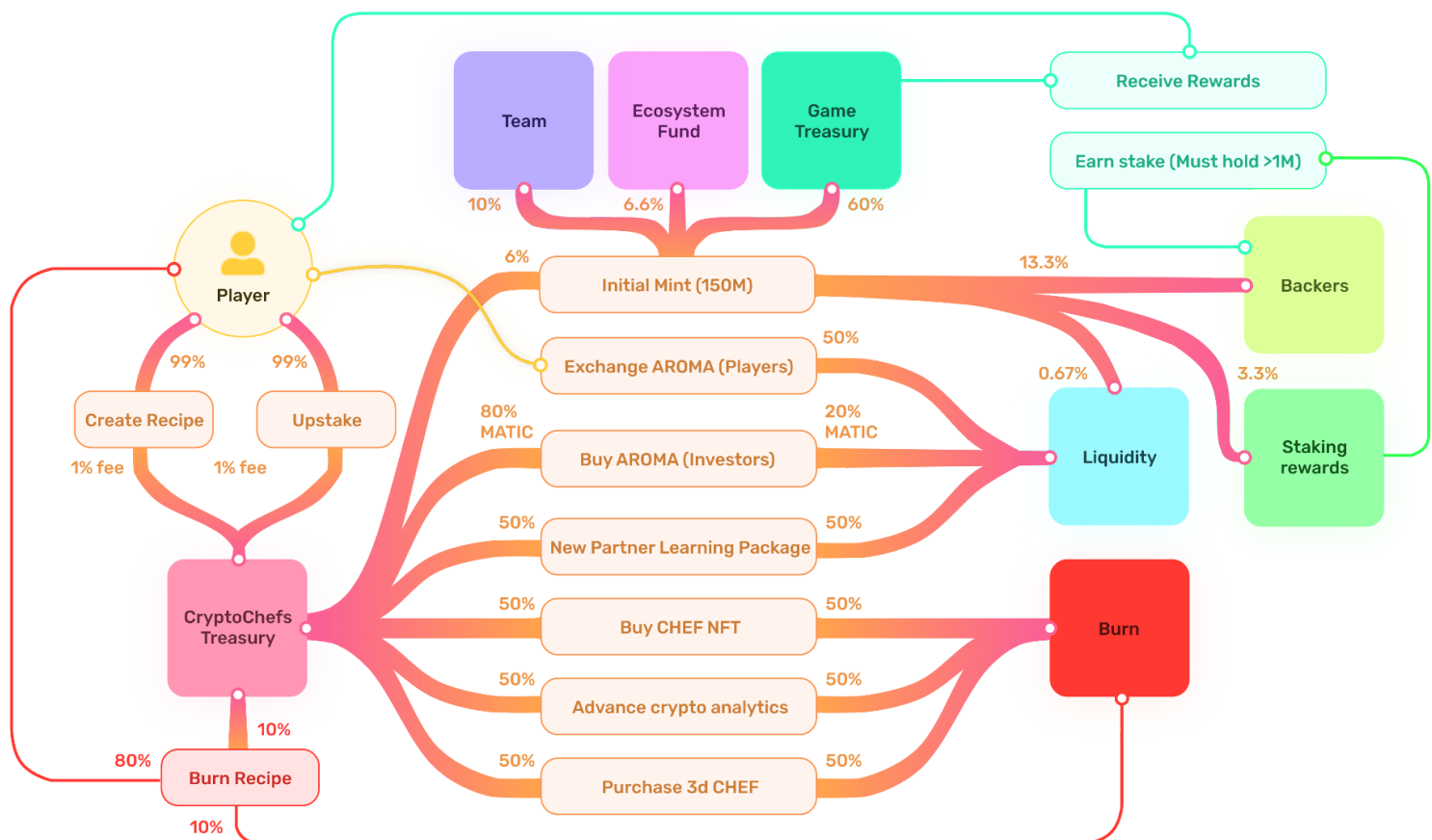The AROMA tokens are distributed as follows:

Figure 4: Token distribution

Usage	Amount	Details
Supply	150'000'000	The total supply of AROMA tokens
Game Treasury	90'000'000	The Game treasury is divided into several pools: • Daily rewards pool (20M) • Weekly rewards pool (20M) • Monthly rewards pool (20M) • Ad-hoc rewards pool (for future mini-games and special events) (30M)
Backers	20'000'000	Reserved for backers who believe in the long-term value of the project
Team Fund	15'000'000	6 months lock, 5% monthly release after the locking period is over. Release depending on current pool size.
Ecosystem Fund	10'000'000	Used for incubation programs with external vendors to grow the project.

	CryptoChefs Treasury	9'000'000	Developing and maintaining day-to-day operations of the project and supporting the growth of the whole ecosystem.
	Staking Rewards	5'000'000	Any backer who holds more than 1'000'000 AROMA will receive staking rewards from this pool
	Liquidity (Exchanges)	1'000'000	Reserved for liquidity pools (e.g. QuickSwap)

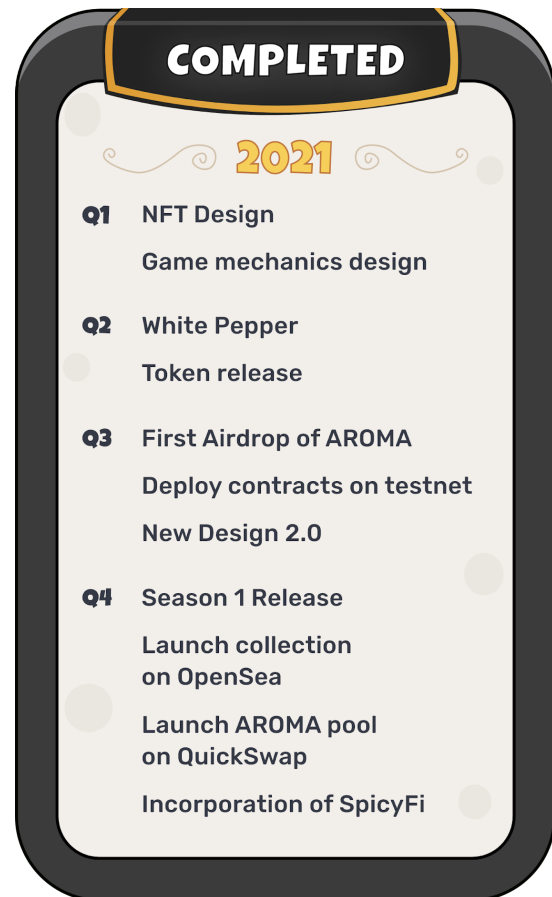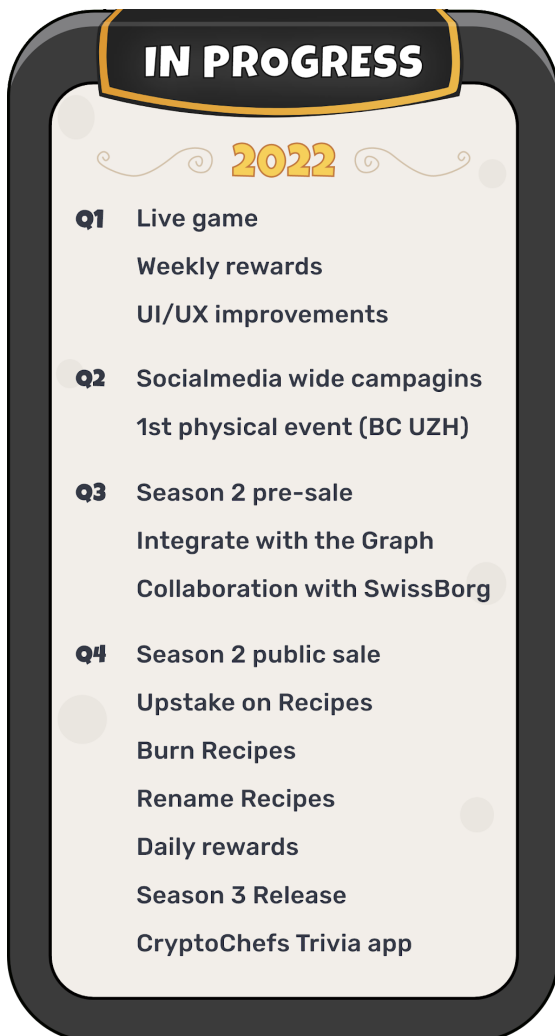Table 4: Overview of the token supply

Actions & Transactions

The figure below summarizes the whole CryptoChefs ecosystem and the flow of actions and transactions.

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Roadmap

COMPLETED

2020

Q4   Concept and ideation

IN PROGRESS

2022

Q1   Live game
Weekly rewards
UI/UX improvements

Q2   Socialmedia wide campagins
1st physical event (BC UZH)

Q3   Season 2 pre-sale
Integrate with the Graph
Collaboration with SwissBorg

Q4   Season 2 public sale
Upstake on Recipes
Burn Recipes
Rename Recipes
Daily rewards
Season 3 Release
CryptoChefs Trivia app

COMPLETED

2021

Q1   NFT Design
Game mechanics design

Q2   White Pepper
Token release

Q3   First Airdrop of AROMA
Deploy contracts on testnet
New Design 2.0

Q4   Season 1 Release
Launch collection
on OpenSea
Launch AROMA pool
on QuickSwap
Incorporation of SpicyFi

PLANNED

2023

Q1   Monthly rewards
Wallet support
Foodies Stake

Q2   Rent your CHEF
Support 100 tokens
PvP mode (Kitchen wars)
Merch in store

Q3   CHEF's traders market

CryptoChefs

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