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# Introduction

## When deflationary farming meets exponential growth ...

Decentralized finance is one of the most remarkable elements in the blockchain. Indeed, a user can now carry out a contract in an independent and direct way which will allow him to earn rewards or make his investments grow. Many applications have appeared in DeFi. One of the concepts that has taken on the most importance in this area is farming (or yield farming). Farming protocols arose in early summer 2020, anyone can now put their assets to work independently and directly by adding them to liquidity protocols. This helps generate passive income. Farming became huge with the entry of Compound, which made it possible to carry out loans and borrowings while benefiting from interest for the added liquidity.

Since then, farming (or liquidity mining) has been one of the most popular ways to attract investors. Many platforms have emerged with various functions, including Sushi or Yearn.Finance. In just a few months, the total value locked in farming protocols increased by 1 000%, totalling \$ 10 billion.

However, most platforms do not deliver long-term value and often have no added value. We have seen that with a famous project launched on Uniswap, which raised \$ 500 million and whose token lost 95% of its value two weeks after its launch. We can also observe that most of these platforms are not scalable, which means that they cannot connect other liquidity features together and are often just copies of others. In fact, the evolution of farming seems to be slowing down. The projects become repetitive and present no significant difference.

It is therefore in this perspective that we wanted to create SWISS, a sustainable, strong and original farming protocol, supported by a powerful ecosystem and implementing the very first arbitrage options in its own liquidity system. It also offers new features to be connected together, so that long-term development can take place.

## Background

The project «SWISS» already has a historical context. It is a protocol invented by the founder of DeCash. It is therefore already linked to a powerful ecosystem (DeCash), which has proven itself in DeFi.

Since the introduction of DeCash in Uniswap, the price has climbed 17 000% in three months, reaching \$ 3 million in capitalization. DeCash was one of the first precursors of farming, notably by inventing the first liquidity contracts. Unfortunately, the means were not yet sufficient to automate these contracts. Now that the infrastructure is developing and that many partners and developers are working on the project, we can finally fulfill our vision with SWISS while adding originality, which has always been at the center of DeCash.

As SWISS is an application of DeCash and therefore is indirectly linked to it, it also benefits from a certain guarantee of sustainability. Indeed, DeCash owns Investigo, an investment fund created to support its intrinsic value. It is therefore easier for SWISS to obtain financing for its development. SWISS is therefore created by the same team that created DeCash and is also supported by major partners such as White Rock Casino, an online casino integrating the blockchain which is benefiting from substantial investments.

As for the experience, Investigo was created in november 2019, by the founder of DeCash. DeCash itself was created in June 2020 by Thiago Burgunder and Knut Robillard. This allowed the team to gain extensive experience in the industry knowing how to propel projects and promote them.

## SWISS token

SWISS is an ERC20 token, fully developed by the team. His contract is therefore unique. SWISS is a farming protocol implementing liquidity and price arbitrage features in its own ecosystem thanks to new concepts such as Proof of Volume. SWISS allows users to farm while the protocol arbitrates in price and liquidity for the ecosystem to grow making it not only a deflationary farming platform but also delivering an exponential growth to the ecosystem.

It is therefore a farming token which also benefits from its own farming platform, whose contract has also been fully developed. The ecosystem supports the basic concepts of farming as well as new ideas, in particular the implementation of proof of volume and contracts in certain wallets for an automatic purchase when the SWISS price falls below the convergence price.

### Liquidity arbitrage

In microeconomic theory, we say that an agent is in a situation of arbitrage when he must make a choice, for example between several investment projects or between several baskets of goods, to maximize his profit or his utility.

Our protocol will rely on this definition when buying SWISS. If the price is undervalued, the protocol will make purchases, thus performing an arbitrage. The undervaluation of a price is considered correct by the protocol when the current SWISS price is below than the average SWISS price. This average price is based on the volume carried out by SWISS and the average price over a certain period (see the section "Proof of Volume" to know more).

### Liquidity mining (farming)

Liquidity mining is the main feature at SWISS. A user can automatically receive rewards in the form of SWISS if he adds liquidity to the ecosystem. Adding liquidity involves lending one's assets to a certain exchange pool, which represents a certain pair (eg USDT – ETH), so that more people can buy or sell smoothly. The more liquid an exchange pool, the more stable the price will be. Loaned assets can be withdrawn at any time.

There are two pairs in the SWISS ecosystem :

#### SWISS – ETH pool (3% fee for entry and exit)

This pool will be the first to be launched at SWISS. It will start with 3 500 SWISS and ETH for a value of 100 000 \$. People will be able to add their assets to this pair through Uniswap, the platform in which SWISS will be trading.

#### SWISS – DESH pool (3% fee for entry and exit)

This pool will open when it is judged that the SWISS ecosystem has developed well. We will announce it a week in advance. This allows interoperability between DeCash and SWISS, since they are interconnected. With this pair, we hope to strengthen this connection in an intense way, this pool will also attract many high net worth investors, present at DeCash, which will strengthen the development of both platforms. We will launch this pair to improve the global ecosystem but also to allow large DeCash investors to support SWISS by paying a tax on their liquidity provided. Interoperability is the motivation for this pair.

### Reward system for farmers

We wanted to implement the best farming rewards system. For this we have seen the qualities and defaults of each known project and we have made what we think is the ideal farming system. The rewards are distributed in such a way that we can deliver growth because of the limited supply and the arbitrage features, which will increase the scarcity of SWISS.

## Reward quantity

A total of 4 000 SWISS will be distributed to liquidity providers, in proportion to the quantity provided by the user in the pool and defined by the time an user has staked his liquidity tokens. The greater your contribution to the larger liquidity pool is, the greater your share of the reward that is allocated to each pair per time period will be.

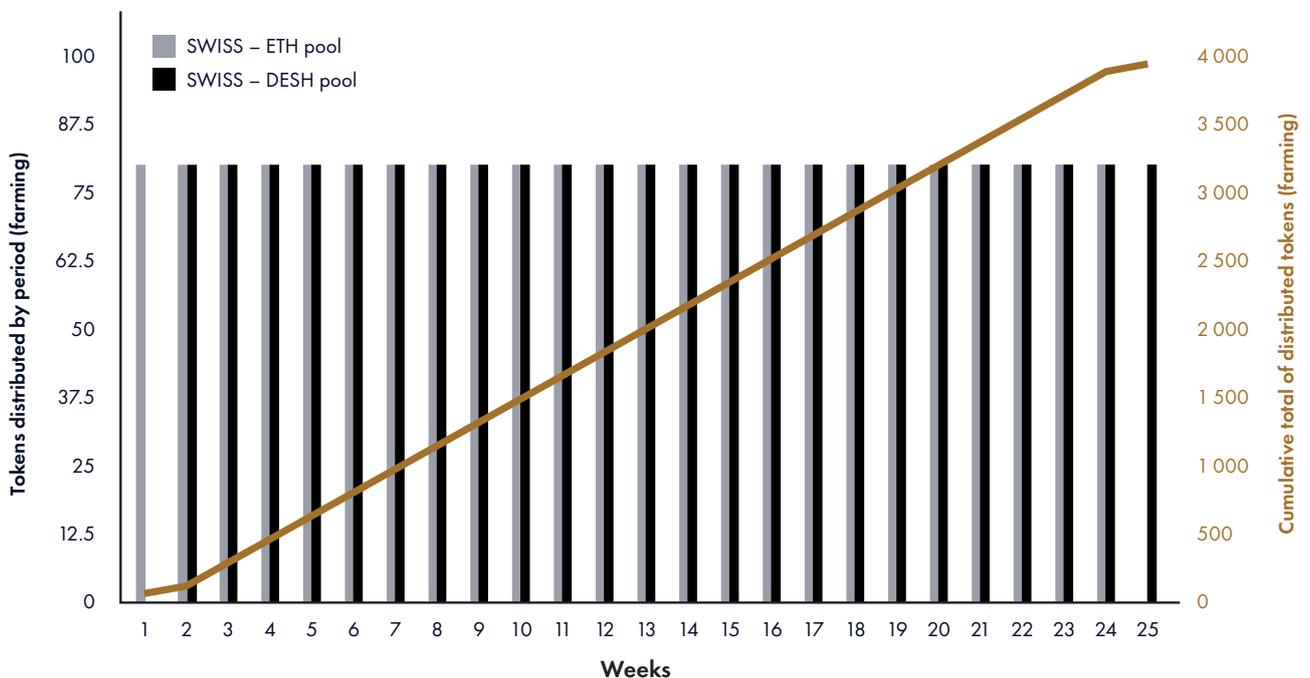
The APY (annual percentage yield) will vary according to the number of SWISS tokens put into circulation thanks to the rewards of farming and especially according to the number of SWISS locked in liquidity.

The total of 4 000 SWISS will be divided equally between the two pairs available for farming :

**SWISS – ETH** : total of 2 000 SWISS distributed in 6 months

**SWISS – DESH** : total of 2 000 SWISS distributed in 6 months

This 6-month period was chosen because farming is only the first step in the usefulness of the SWISS token. The advantages of owning SWISS in the future will be important such as : participation in the governance of the ecosystem, benefiting from the transaction fees and thus recovering passive interests, etc.



# Proof of Volume (PoV)

Proof of volume is a unique and new concept in the world of DeFi, implemented for the first time in SWISS. It implements arbitrage functions in the SWISS protocol, therefore constantly increasing its value.

Each time a user buys or sell SWISS, 3% is withdrawn in the form of SWISS and put back into two wallets (2% and 1%) that arbitrages automatically thanks to a code. These funds help to support the SWISS ecosystem in particular through the addition of liquidity as explained below. Several steps are present in the process:

## 1. Accumulation

2% of buy and sell transactions (in SWISS) go to a wallet operating automatically through a code. It will automatically sell the accumulated SWISS against ETH when it has collected at least 5 SWISS.

The wallet is as follows : `0x991AC37b1cBD28131560A8e9ddb4D51F4dBcb8c9`

It operates automatically, there is no need to control it manually.

## 2. Expansion

This wallet is used to accumulate purchasing power by using a formula to calculate when would be the ideal time to perform the action: buy bellow the convergence price. This formula is based on the historical price of the token as well as its volume on Uniswap. This allows for increased liquidity at SWISS and a certain intrinsic value.

When the price is below the convergence price, half of the funds collected by the portfolio are used to buy SWISS and then puts it automatically in liquidity with the other half of the remaining ETH in the wallet. This allows the price and liquidity to grow sustainably.

The expansion starts by buying SWISS if the current price is below the convergence price and if the wallet holds at least 3 ETH. The test that must satisfy these two conditions is performed automatically every 4 hours. If both conditions are not satisfied, the purchase of SWISS is not triggered and the accumulation continues until the next test 4 hours later.

## Interaction with the DeCash – DESH ecosystem

The DeCash ecosystem also benefits from 1% of SWISS' buying and selling transactions. The process for this wallet is the same as that explained in the two chapters above. As with SWISS, half of the funds raised by this portfolio is used to buy DESH when the current price is below the convergence price and then automatically puts it into liquidity with the other half of ETH remaining in the wallet. This allows the price and liquidity to grow sustainably.

The wallet is as follows : `0xF033789a125545738D1ECCf0237083E62Ff21499`

## Convergence price

The convergence price is a weighted average price between the average daily price and the tied volume. If a spike in the daily price occurred with a large volume, this will matter more in the weighted average than a daily price which has experienced little volume. The formula to calculate the convergence price is as follows:

$$C_p = \frac{\sum_{i=0}^n P_i \cdot V_i}{\sum_{i=0}^n V_i}$$

With :  $C_p$  = Convergence price [\$]  
 $P_i$  = Price every 4 hours [\$]  
 $V_i$  = Volume every 4 hours [\$]

## **Governance**

Governance is one of the most important aspects when talking about decentralization. You cannot have a completely decentralized project if people cannot vote democratically on the developments and the changes to be made. Therefore SWISS also serve as a governance token for its ecosystem. SWISS holders are able to vote on new contract changes. No one can change the contract if the majority has not approved it. So governance is 100% decentralized.

### **How does governance work ?**

Anyone who owns at least 100 SWISS can propose a vote to change the original SWISS contract. This will be done directly on the [swissfarming.finance](https://swissfarming.finance) platform where the person will be able to choose whether they wish to change the fee percentage for SWISS or Decash and then make a proposal for a new percentage. The vote is then published and lasts 3 days.

In order to choose an option (yes : I accept the change, no : I refuse the change), the person must block his available tokens (i.e. not already blocked in the liquidity) until the end of the vote. He can cancel his vote and unblock his tokens at any time. No token will be lost in the process. The weight of each vote is proportional to the number of SWISS tokens blocked by the voter.

At the end of the vote, the option with the highest number of blocked tokens will win. If the « yes » option is chosen the change is made automatically in the contract and if the proposal is rejected, everything continues as before the vote.

After the vote, the tokens will be released and returned to all those who voted. No tokens will be lost during the process.



# Tokenomics

**Team and organization**

2 500 SWISS – 25% \*

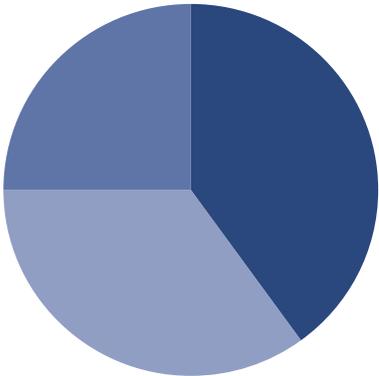
\*Initially blocked, gradually unblocked

**Farming rewards**

4 000 SWISS – 40%

**Public sale**

3 500 SWISS – 35%



Initial circulation supply : 3 500 SWISS

Total supply : 10 000 SWISS

# Roadmap

## Q4 2020

- Launch of SWISS on uniswap
- Early stage marketing development
- Technical development and improvements
- Launch of new concepts such as Social farming
- Launch farming SWISS – ETH
- Launch farming SWISS – DESH

## Q1 2021

- Enhanced interoperability with DeCash
- First applications of governance
- Development of the decentralized **SWISS swap** platform
- Marketing plan developed: influential people in the cryptosphere

## Q2 2021

- Implementations of new features
- Focus on decentralization
- Listing on well-known platforms such as Binance
- Partnerships with influential companies
- Partnerships with external investment funds

## Q3 2021

- Creation of the new roadmap

# Team

## Organisation team



**Thiago Burgunder**

Inventor & creator of SWISS  
University in economics  
Switzerland



**Knut Robillard**

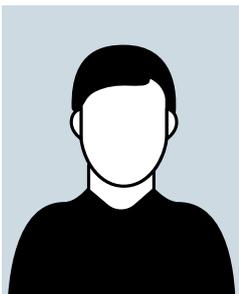
Creator of SWISS  
Head of business  
Entrepreneur  
Switzerland



**Adrien Blatter**

Designer  
Communication  
Switzerland

## Technical team



**Antoine Martel**

Developer  
France



**Michael Louiset**

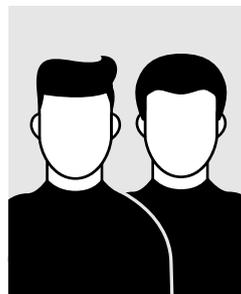
Blockchain consultant  
France

## Partners



**Christopher Albrecht**

Business relationships  
Switzerland



**Investors**

Dubai

## **Objectives and future developments**

SWISS is an ecosystem that will be able to link various financial applications together. This is why new developments are planned and will be announced, and new ideas specific to SWISS will also emerge. Here are just a few :

### **NFT farming**

NFT (Non-Fungible Token) farming is a way to bring in liquidity that has become popular in recent times. Users block or lend some of their assets and are assigned cards or collectables depending on the duration borrowed. These collectables can then be sold in an open market. We think this is a good idea to democratize the digital art through blockchain. Art is a powerful market across the world that interests many individuals and institutions. The art of digital is actually booming. It is therefore a very big advantage to have an NFT platform.

### **Social farming**

We cannot reveal much about this aspect, which we hope to be implemented in SWISS soon. This is a feature that has never been used anywhere else and was therefore invented by the SWISS team. This option will help to attract a very large audience to SWISS and develop a loyal and committed community.

### **Liquidity loan**

This concept is not yet developed and is only in its initial stages. It is also entirely invented by the SWISS team. This would allow users to borrow liquidity from SWISS while allowing users to suffer possible losses, unlike flash loans. To do this, users would have to risk some of their assets, which would decrease on the amount of block transactions made. This may allow DeFi to experience the first leverage effects in liquidity.