

WHAT IS ARABLE?

**A PROTOCOL
WHERE...**

**FARMERS CAN FARM
SYNTHETIC ASSETS**

**MINTERS CAN ISSUE
SYNTHETIC ASSETS**



ARABLE
PROTOCOL

INTRODUCING ARABLE: A FARMABLE SYNTHS PROTOCOL

Arable is a **synthetic asset insurance protocol** that is dedicated to helping yield farmers to access multiple blockchains' (such as Ethereum, Avalanche, Solana, or Polygon) assets and yields on a single chain.

Since summer 2020, **yield farming** has been a tremendous engine for the growth of decentralized finance protocols. In essence, token holders who have excess liquidity can provide their assets and stake them or place them in liquidity pools. This helps ecosystems foster deep liquidity, which is a prerequisite for the smooth operation of lending platforms or for traders to trade on decentralized exchanges for example. In exchange, liquidity providers receive native tokens as rewards for their participation in the ecosystem.

Many different blockchains are now supporting liquidity mining pools and providing incentive mechanisms, but **the transfer of the assets between different chains takes time and fees** and requires **chain and bridge specific knowledge**. This is leading users to feel confusing which chain to stick on for yield farming.

Synthetic assets are essentially tokenized derivatives to support people to buy or sell specific assets on native assets' price. For example, since the asset issuance format is different between Ethereum and Solana, assets cannot be cross-leveraged. Synthetic assets (or synths) solve this problem by **replicating the assets** on the target blockchain in the desired format.






ARABLE's goal is to provide an environment where yield farmers can **access all the crypto farming assets on a single chain**, where the users receive the **same rewards as they would on native-chains**. The environment is supported by incentivized collateral providers (aka. stakers or minters) for synthetic assets.

As yield farmers ourselves, we are acutely aware of the issues faced by the community for chain difference: security risks, the technological difference between chains, liquidity fragmentation, fees... We strongly feel that **farmable synthetic assets** would provide a breakthrough in the field of yield farming and enable new ways to **create, collateralize and use any asset in productive ways**.

WHY DO WE THINK ARABLE IS CRUCIAL IN TODAY'S DEFI ECOSYSTEM?

1. Market fragmentation

For DeFi (decentralized finance) users, it is increasingly difficult to make sense of the **multi-chain universe** that is unfolding. For example, yield farmers can choose from the following chains today, among many others:

				
Ethereum	Cosmos	Avalanche	Polygon	Solana

Although the abundance of choice is a **positive** for yield farmers, it also **creates the following issues**:

- **Technical complications** unique to each platform
- **Learning curve** in order to leverage the technologies available
- Increased **risk of technical failure** due to the multiple tools used

Giving access to all the cross-chain assets on a single chain **streamline the workflow of DeFi users**.

2. Strategy optimization

As popular projects such as yearn.finance have demonstrated, **consolidating** yield farming activities on a single platform creates many benefits, such as cost savings (gas), economies of scale, and also can allow the capture of a higher portion of rewards. ARABLE allows yield framers to create synthetic assets of any existing asset, and yield farmers can gain efficiency on a single chain.

3. ARABLE's unique value proposition

There are today number of platforms that allow yield farmers to aggregate yield chain by chain. However, there is no platform that allows such aggregation for **all cross-chain assets**.

The key components of the ARABLE platform will be:

- a **dashboard** where yield farmers have an overview of their yield generating stakes, liquidity pools, or synths
- **synthetic assets**, such as arETH, arCRV, which mirror existing assets and are unique to ARABLE
- most importantly, all the assets available on the platform can be used to farm and generate yield

Synthetix has proven that **synths** are secure enough to exist and be used for trading. Therefore the minting of synthetic assets is not a foreign concept to most yield farmers.

However, the challenge is to build a system that would guarantee farming rewards for the assets minted. In other words, an incentive system that allows the creation of sustainable **farmable synths**.

The core logic is to create **synthetic assets** on a network that exists on an alternative chain:

- **Synths minters** are responsible for the collateralization of the minted assets and for the rewards to be given to yield farmers.
- For example, if the asset arSOL (a synth for SOL on ARABLE) is minted on the Avalanche network, minters should be responsible for backing the arSOL staking rewards, which are automatically given to farmers, as the minters' debt is automatically increased. The protocol needs to make use of an oracle service for the assets' price, and yield amount.

TECHNICAL IMPLEMENTATION

1. What are synthetic assets?

First, it may be useful to clarify what are **synthetic assets**.

Synthetic assets are assets that replicate other assets in a specific environment. In our case, "**synths**" (short for synthetic assets) are assets that may represent real world assets or assets that were originally created on another blockchain. For example, ETH is the native token of the Ethereum network, and it will be minted as **arETH** on the ARABLE protocol.

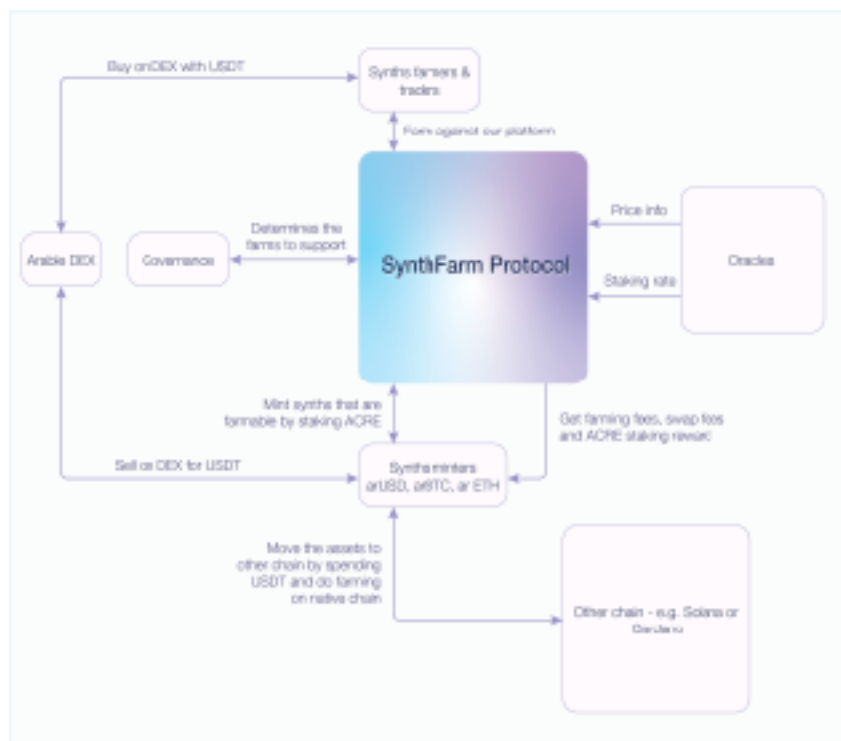
Synthetic and derivatives assets are a **multi-trillion market in traditional finance**, which has barely been tapped in the blockchain space.

We believe facilitating the minting of such assets would unlock **a new era of yield farming** and be a material contribution to the growth of the blockchain ecosystem.

Comparison with other solutions

Technical Solution	Examples	Comments	Arable
Bridges	Avalanche, Polygon...	Allowing the transfer of assets from one chain to the other is useful, and allowing them to be farmed in the next logical step	Arable allows the farming of all cross-chain assets, which creates new possibilities for their usage
Wallets	C98...	Multi-chain wallets are useful but offer limited capabilities for farmers	Arable not only allows to consolidate assets, but also provides many additional features
Synthetic assets	SNX	Existing platforms allow the trading of synths, but not their farming	Allowing the use of synths for yield farming unlocks new possibilities for liquidity providers

2. Synthetic asset minting process



The minting process relies on the following components of the platform:

- **Synths minting application** including secure oracle integration
- A **zero slippage DEX platform** that supports arable synths
- A **generalized farming interface**
- A **governance system**

App wireframe

Arable farms

Token	Rewards	APR	Native Network	Usability (Synth/Native network)	Historical rewards	Buy	Sell
arCGMG	arCGMG	>40%	Cardano	\$10M/\$100M		Buy	Sell
arDOL-arFAV	arFAV	15%	Solana	\$10M/\$1500M		Buy	Sell
arAKT-arCGMG	arCGMG	15%	Cardano	\$1M/\$10M		Buy	Sell

Stake ACRE

Token	APR	Usability	Historical price	Buy	Stake	Unstake
ACRE	80%	\$10M		Buy	Stake	Unstake

Arable synths

Token	Source APR	Fee Charge	Native Network	Usability (Synth/Native network)	Historical rewards	Buy	Sum
arAKT	arAKT	0.05%	Algorand	\$1M/\$10M		Buy	Sum
arDSMT	arDSMT	0.05%	Cardano	\$1M/\$10M		Buy	Sum

KEY TERMS

ACRE:	Protocol native token. It is also the traditional unit of account for crop lands.
ARABLE:	Name of the protocol. Traditionally, arable is said about land that can be farmed
arBTC:	Synthetic BTC, as bridged onto the Arable protocol and platform
arETH:	Synthetic ETH, as bridged onto the Arable protocol and platform
Farm:	Is the action of providing assets or liquidity to a system, and receiving native notions as incentive
Mint:	The minting is the issuance process of new synthetic assets on ARABLE
Synths:	Short for synthetic assets, an assets that is a derivative or a replica of another existing asset

LINKS

Website:	https://arablefi.com/
E-mail:	contact@arablefi.com
Twitter:	@ArableProtocol
Telegram:	@ArableProtocol
Discord:	https://discord.gg/sFjnsMPZ5F