# White Paper V2.0

## September 08, 2018

*"Contents of the white paper are subject to changes and improvements"*

# Abstract

Sunflower token is a unique crypto investment service which seeks to capitalize on the growth and market adoption of crypto currencies and Electronic Payment.

The Sunflower Development team is building Sunflowertoken, a next generation decentralized investment ecosystem, based on the Ethereum blockchain.

We will use blockchain technology to revolutionize and democratize the investing and capital raising processes. We will achieve this by eliminating market intermediaries, such as investment bankers, brokers, fund managers, underwriters, and different types of big centralized financial institutions. By doing so, we will place the power and control over investment decisions entirely in the hands of the investors themselves.

As with other highly successful network models like Visa, our infrastructure is fully accessible and entirely governed by its community members. We use a token based, stake-weighted, liquid democracy system to provide both an early adopter incentive and input into long-term decision making. This is augmented by a reputational system which helps streamline

capital deployment and allow a fusion of human and artificial intelligence.

Sunflowertoken is backed by an amalgamation of professionals from private equity, venture capital, funds management and technology development.

Our platform is transparent, agile and above all - focused on crystallizing ongoing dividends and capital growth for token holders.

We look forward to generating growth and success for our token holders through our platform.

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**SUTO Token Type:** ERC-20 standard-based Ethereum Token.

1.1B[1]SUTO tokens will be offered for a 5-Months discount period starting on August 13, 2018 PST until November 12, 2018 PST. There will be a pre-sale of 30% of SUTO tokens for accredited investors starting on August 13, 2018 and ending on October 30, 2018.

| | |
|---|---|
| Token Name | Sunflower token[2] |
| Token Symbol | SUTO |
| Decimals | 18 |
| Smart Contract | 0x6428ba7100d775c19a63569f9a8c9afc97adf20a |
| Total Supply | 9B |
| Token Sale | 6B |
| Team | 1B |
| Partners and Advisors | 500M |
| Airdrop, Bonus, Bounty Program and Marketing | 1B |

## Token Sale Schedule and Bonus Programs:

Exchange rate of Pre-sale: 1ETH = 30M SUTO

SUTO (accredited investors only)

Exchange rate of Tokens Sale: 1ETH = 26M SUTO

# TEAM

Awesome Team Members

**Daniel Josh**
Founder

**Donald Spencer**
CTO

**Toby Nick**
Lead Web Developer

**Matt Johnson**
Adviser

**Mark John**
Adviser

# Currently Crypto Token Holders

The investment landscape for crypto coin holders is largely limited in choice to either a selection of established crypto currencies, e.g. Bitcoin, Ether, Ripple and more, or a selection of more recently issued tokens, e.g. altcoins. As much as the overall crypto assets developments are extremely positive, both asset categories have significant challenges associated with them from an investment perspective.

*For Bitcoin and Ether, volatility is a major factor. Holding a signifcant portfolio of Bitcoin and Ether implies that the net assets value fluctuates by a significant percentage on a monthly basis. As an investment, this could be desired, but for the purpose of predictable preservation of value, it is highly undesirable.*

*For investment in altcoins, the challenges are primarily related to the evaluation of assets prior to investment, and lack of liquidity, post investment. It is also difficult for many investors to clearly understand the market dynamics of the coins.*

*Although the two million transactions every week and growing between people, businesses, and charities suggest a significant value exchange, the grand question of the intrinsic value of Bitcoin and its crypto peers remain.*

Meanwhile, tokens that store digital value are breaking into the mainstream investment landscape as a new asset class in which to allocate investment capital. This is largely driven by an increasing awareness of the excess returns generated by the early investors in this category. But for the mainstream investor this new asset class presents challenges, namely the workflow basics of navigating the trading and asset security.

# What Makes Sunflowertoken Function

Sunflower token is powered using a combination of digital currencies, multi-signature escrow, and smart-contracts with distributed data storage, that all allow access to a globally compatible worldwide network. Blockchain technology is foundational to Sunflower token and allows us to redefine and create new types of financial products and services targeted to both banked and unbanked consumers, merchants, converters and partner providers. With blockchain powered digital currencies and a simple computing device, value and data can be exchanged with minimal fees and without any centralized authority. Value can be safely moved without pre-existing trust or middlemen. Digital currencies offer low cost cross border payments, remittances, online payments, business to business payments and much more. They allow for microfinance and loans to people, by the people, and for the people. Credit scores can be assigned, even in areas where millions of people live without passports or other forms of identity documentation. New models of finance are being built from the ground up that will render many of the existing models obsolete.

# Network Democracy as Liquid Democracy

Network democracy is a stake-weighted delegated voting system (liquid democracy) which also provides options for enhanced stake and programmable liquidity.

Stake-weighted means that voting power is directly proportional to the amount of stake you have in a project. In the block-chain world, this is typically called your "tokens" or "coins." In the world of stock, this would be called your "stock" or "shares."

Liquid democracy involves "delegated voting" and implies that someone can delegate their vote to another party at any point, for as long of a period as they desire. This allows them to maintain a degree of control without having to participate in minute decision making.

This is in some ways similar to the decision an investor makes when they give someone capital for a project, the key distinction being that in a liquid democracy the investor retains control of the capital.

Stake-weighted liquid democracy is a highly flexible governance model which accommodates anything from one-member vote to traditional corporate arrangements to novel forms of collectives. It

also appropriately incentivizes the many different types of possible contributions to a network (code, community contributions, funding) and allows for both decision making capability and rewards. It also integrates with other automated decision making structures such as autarchy.

Sunflowertoken employs an **enhanced voting stake** process. The enhanced voting stake makes use of a locking period and is a proposed addition to the stake-weighted liquid democracy that does not allow tokens to be traded for a certain period. This can also allow a person to have a proportionally higher voting weight if they have a provable long-term stake in the network.

### Traditional model:

Voting weight (vw) and network stake (s) are equivalent.
$$=$$

### Enhanced model:

$$= + ( \quad * \quad )$$

In this case, voting weight is no longer simply network stake s but stake plus an additional amount of weight depending on both the length of the time lock and the additional parameter n.

For example, with tl denominated in months and an n of .2, a five-month time lock would effectively double the voting weight.

### Programmable liquidity

Indicates that the stake can be gradually introduced to the network for trad-ability. It is complementary to a locking period, in the sense that you can accommodate both long-term stake and liquidity with incentives on both ends.

$$= (( - )/ )$$

In this case, liquid stake sl is the total stake owned by the participant multiplied by the remaining time of the time lock as a percentage. This drip liquidity allows people to gradually realize their returns without any major disruption to the network state.

The Sunflower token Platform provides several clear enhancements over traditional models, including incentives for early adoption, compatible short and long-term incentives, flexible liquidity

models accommodating multiple organizational types, and accountability and automation via reputational systems.

Sunflower token makes use of autarchy for automation purposes. Futarchy allows automation of decision making via prediction markets.

Network democracy accommodates vote delegation to an automated prediction market.

The Sunflower token Platform, by virtue of nested smart contracts which pass proceeds up to the maintainer of the platform is able to fully self-fund. This is an evolution in the funding of public goods as neither donations nor taxes are needed in this model.

A funding pool is an organization governed by network democracy that distributes funds.

It can be structured similar to an investment fund, in which case it seeks opportunities or some other.

Funds that go into any funding pool can be allocated by a higher level network democracy or received independently.
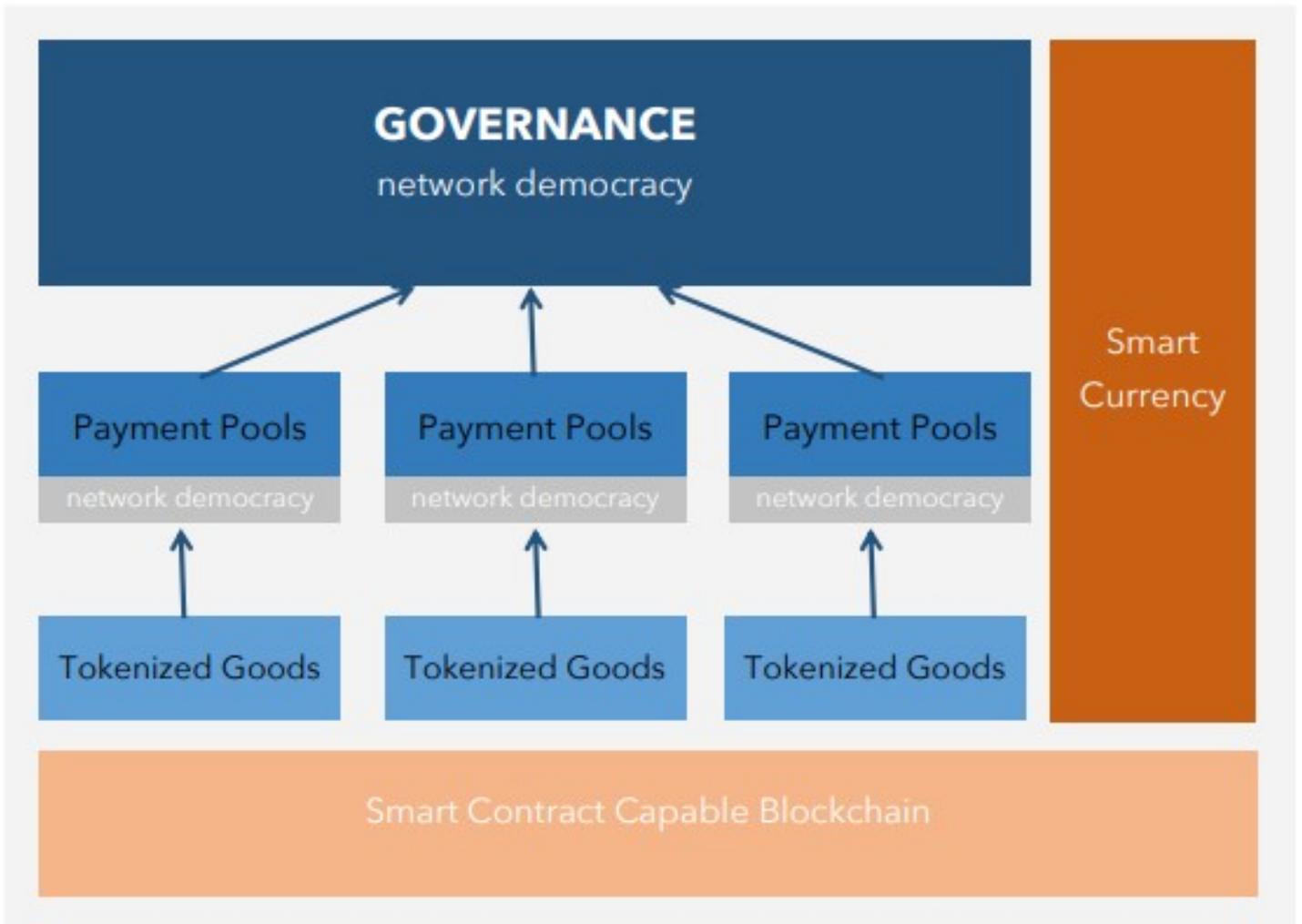
# Trust Network

The trust network is made up of many independent trust endorsements (i.e. vectors) which create accountability and allow automation.

## Trust Equation

$$\sum^{\infty} \rightarrow =$$

The trust is the sum of all trusted parties and their recommendations from the standpoint of an individual (here represented as vectors, which can be positive or negative). In this case, we record all of these endorsements and allow multiple levels of ascription and derivation.

Trust currency is made up by individual immutable trust vectors. Each trust vector i t is an endorsement. A endorses B for X. This has a timestamp and an optional weight represented as a number from [-1 .. 0 ..1]. The ability to provide a negative filter as well as a positive one is important for separating signal from noise (an example of a similar problem being Facebook fake news). As with

other open networks, it has an open-access policy and the nature

of the endorsements is pseudonymous.
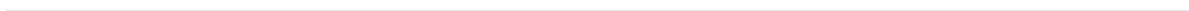
# Process Language

## Introduction

Problem statement. Each goods type or industry class demands specialized management and reporting procedures that need to be implemented by a smart contract.

Commonly, this is done by providing a functional specification using natural language and in some cases a picture of a flow chart for clarification purposes. Then, one proceeds to implement this into a smart contract. This code is subsequently reviewed and promoted into the Sunflower token smart contract by a liquid democratic vote.

## Basic System Structure

The statebox process language is built to be entirely compositional. You can think of it as being constructed from "boxes" and "wires". The "atoms" in the systems are 'typed datums' and the types are the message boundaries upon which a process network is built.

## Data and Types

All data shapes are described by a (programming language agnostic) compostable finite-type declaration language inspired by polynomial Functors / Cartesian monoidal categories without exponentials (functions) (http://typedefs.com). This is similar to protocol buffers except that the type defines language has a minimal number of features and exhibits various existing mathematical structures. This facilitates correctness proofs and embedding in typed programming languages (such as purescript or idris).

There is a well-defined binary serialization and deserialization format, for both types and terms. Similarly, there is a codec for JSON + JSON Schema. A type definition has a globally unique identifier (hash of the serialized type).

Example of such type declarations:

bool : type

bool = true:1 + false:1


char : type

char = bool^8


utf32 : type

utf32 = char^*


list : a -> type

list a = cons:(a × list a) + empty:1


person : type

person = name:utf32 × age:uint8 × gender:bool

# Exchange Platforms

## ForkDelta

ForkDelta Decentralized Ethereum Exchange

## IDEX

IDEX Decentralized Ethereum Exchange

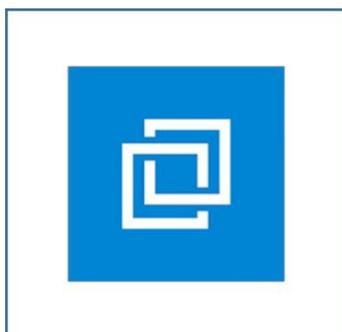## EtherDelta
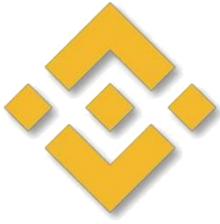
EtherDelta Decentralized Ethereum Exchange

## CEX.IO

The Platform Where You Can Easily Buy CryptocurrSUTOy

## Bittrex

The Global Leader In The Blockchain Revolution

**Binance**

Exchange The World

**HitBTC**

HitBTC Is The Most
Advanced

**Bitfinex**

The World's Largest
And Most Advanced

## CONCLUSION

Sunflower token is built to achieve mass adoption and usability right from the get go. In this paper we have explained the technical and business solutions that give end-users and other parties previously impossible opportunities, and pave the way for rapid adoption of digital currencies and blockchain technologies.

Given a systemically, technologically, economically and socially sound foundational layer, users, converters and other entities can come together to access or provide services on a global scale. The unique mechanisms proposed for bounty distribution of the native fuel, and the business model itself are all parts of a larger movement that will bring un-banking to the world.

Let the true mission begin.