

Glasspaper

Sustainability is Traceability



White Paper

Not the final version. Please, check www.glasspaper.io for the most up-to-date version

EXECUTIVE SUMMARY

The Glasspaper network is a blockchain-based ecosystem for supply chains, ensuring the product's origin, compliance, and ethical trade by tracing its journey.

Glasspaper's primary focus is on improving supply chains for the textile and fashion industry, specifically sustainable fashion. **Why?** Because the textile and fashion industry is a primary contributor to the planet's carbon footprint. **Sustainability is traceability.** A product can be proved sustainable only by tracing its manufacturing process to recycling, and Glasspaper provides decentralized technology.

By using distributed ledgers, smart contracts, Non fungible tokens, and fungible tokens, the Glasspaper network can integrate across supply chain flows and enable transparency at every point. These new capabilities allow buyers and other participants in the supply chain to ensure that the standards of the Sustainability assurance are met. Glasspaper also enables the transmission of additional information between supply chain parties.

Glasspaper uses a Non fungible token mechanism called Zencoin to provide these functions in a decentralized manner. The Zencoin is attached with every product recorded in the Glasspaper network; this helps identify the product across the supply chain without a centralized network. Glasspaper is the first-ever project to attach a token to a textile product like a tshirt which can be traded across the ecosystem by interested parties.

Glasspaper offers a tradeable ERC 20 token Glasscoin, backed by a well-planned and organized tokenomics ecosystem that balances the inward and outward supply. The Glasscoin can be used to make payments to use the Glasspaper network also can be earned as rewards and to make vendor payments in the Glasspaper marketplace.

Glasspaper provides a decentralized textile & Fashion B2b marketplace with KYC verified vendor registration and payment protection, connects the brand and the manufacturer hassle-free.

This whitepaper provides an overview of the Glasspaper platform, its architecture, and case studies. We have also created other guides that may be of interest to those learning about Glasspaper Network which can be viewed at www.glasspaper.io

THE PROBLEM

TEXTILE POLLUTION

The textile industry is one of the most pollutants releasing industries in the world. When we say textile pollution its just not in the land but in Air, Fresh water, Sea and the Ground water. Pollutants released by the global textile industry are continuously doing unimaginable harm to the environment.

LAND



Surveys show that nearly five percent of all landfill space is consumed by textile waste. It pollutes land and makes them useless and barren in the long run. Surveys show that cotton consumes the highest amount of harmful pesticides and fertilizers. The majority of them fall on land while they are sprinkled on the crop. Similarly, textile manufacturing units release hazardous waste into the nearby ground, which toxins the groundwater.

AIR



Boilers, Thermo packs, and diesel generators produce pollutants that are released into the air. The pollutants generated include Suspended Particulate Matter (SPM), sulfur dioxide gas, oxide of nitrogen gas, etc. The nearby areas with human populations get affected adversely due to toxic gas release into the atmosphere.

WATER



Besides, 20 percent of all freshwater pollution is caused by textile treatment and dyeing. Worse yet and more troubling news than the physical size and quantity of the wasted clothing is the microfibers from the clothes breaking down, polluting our seas, and drinking water. All sorts of strange items end up in our seas and rivers and eventually wash back up on our beaches.

THE SOLUTION

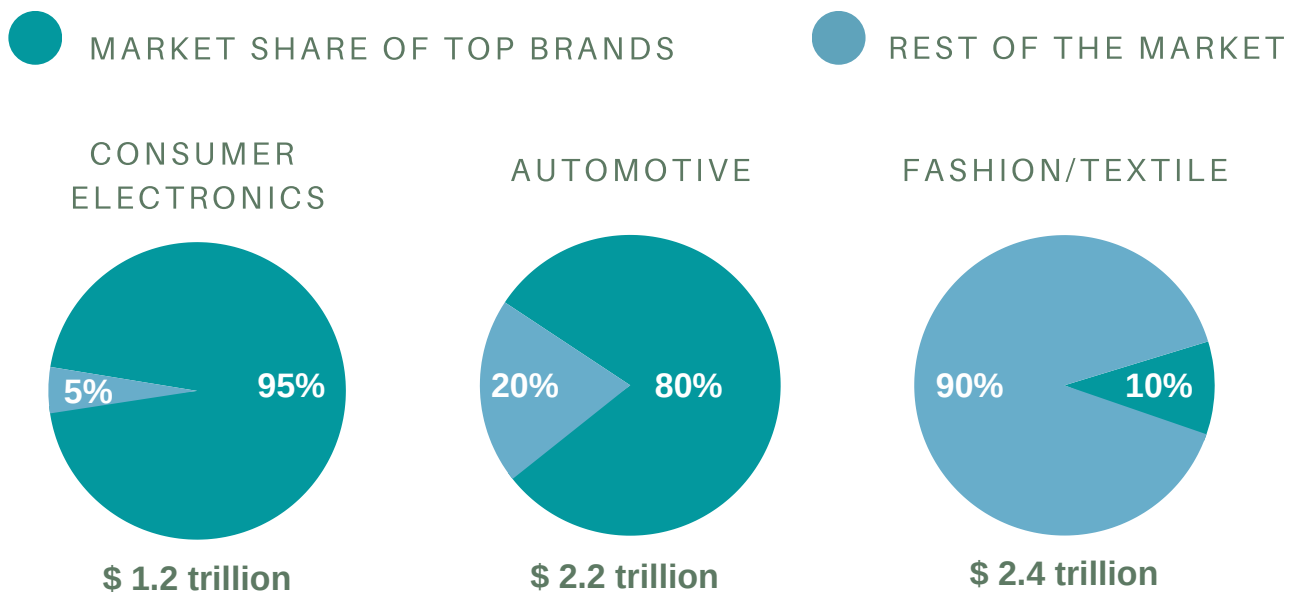
SUSTAINABLE FASHION

Sustainable fashion will be the consumer's contribution to saving the earth.

Sustainable fashion is the usage of biodegradable fabrics which have little to no adverse effects on the environment. So these fabrics can eventually return to the ecosystem once you are done wearing them. If the textile goes back to the earth and does not end up in landfills and Sea, it will create lesser wastage.

MARKET SHARE OF TOP 10 BRANDS

GLOBAL MARKET SHARE - TOP 10 BRANDS VS REST OF THE MARKET



CONCLUSION:

The textile/fashion industry is one of the most fragmented sectors. The higher the fragmentation more the supply chain is opaque. That's how transparency and traceability become the biggest challenge in the textile and fashion industry.

WHY TRACEABILITY IS REQUIRED?

The Product can be proved sustainable only when traceable from the manufacturing stage to the Recycling stage.

GLASSPAPER

THE SUPER HERO

Glasspaper is a consciously manifested project. It is the captain planet of Sustainable fashion; its powerful technology is designed to bring textile pollution down to zero.

The project is built by the world's leading experts and pioneers in sustainable fashion, Supply chain, Blockchain, Smart contracts, Tokenomics, and dApps.

MISSION

Our team's mission is to create a powerful technology to empower the Sustainable fashion supply chain to enhance our clothes' quality, integrity, and transparency and zero down the textile pollution.

We believe this mission can be best achieved through decentralized, self-governed, quality-focused networks to track products across the supply chain. These ecosystems would be based on an open platform backed by blockchain technology with no centralized authority.

TECHNOLOGY EXECUTIVE SUMMARY

Glasspaper is built on Ethereum Blockchain, supporting supply chain traceability. To demonstrate how this works, we have developed a functioning prototype that showcases the ability to collect information and record it on the immutable decentralized database.

A Non fungible token is attached with every product hash created by the smart contract, which helps trace the flow of the Product along with the token.

An ERC 20 token is provided as a loyalty token which can be used to make inward and outward payments within the ecosystem.

Our development pipeline includes a complete decentralized marketplace with KYC verified vendors and platform trusted ERC 20 payments.

GLASSPAPER FUNCTIONALITY

Glasspaper is a Supply chain traceability platform backed by blockchain technology, exclusively designed for sustainable fashion.

The four primary functions of Glasspaper are

- 1.Traceability,
- 2.NFT,
- 3.ERC 20,
- 4.Market place.



TRACEABILITY

Records the product's life cycle and information. The brand and the end customer can trace the product journey to confirm the sustainable processes and confirm ethical fashion.



NON FUNGIBLE TOKEN

Every textile product is attached with a Non fungible token at the manufacturing stage to prove the exact quantity of the product produced.



TRADEABLE TOKEN

Industry leaders in tokenomics design the glasspaper eco-system, providing a balanced and forecasted inward and outward supply of the tokens.



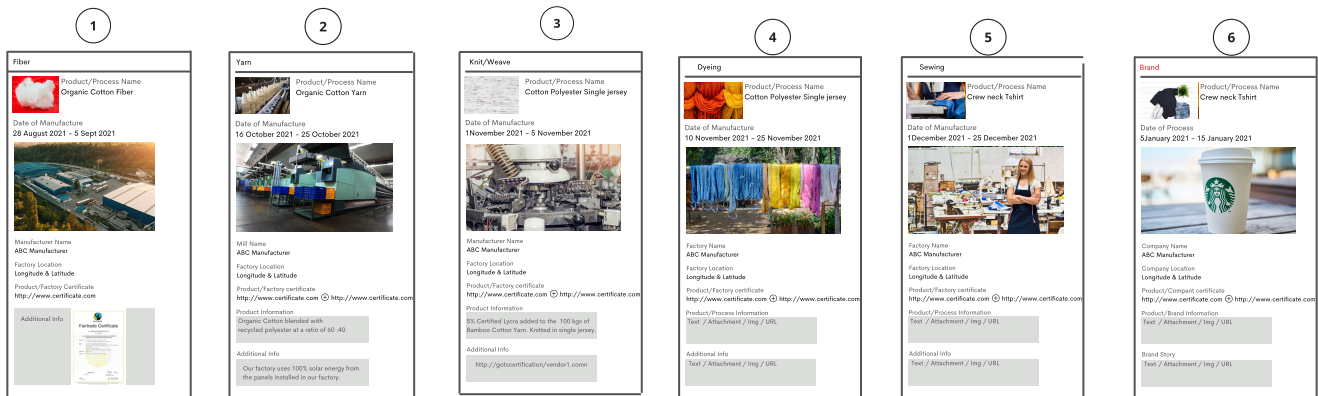
MARKET PLACE

Decentralized textile & Fashion B2b marketplace with KYC verified vendor registration and payment protection, connects the brand and the manufacturer hassle-free & trusted protected.

COMPONENTS OF GLASSPAPER

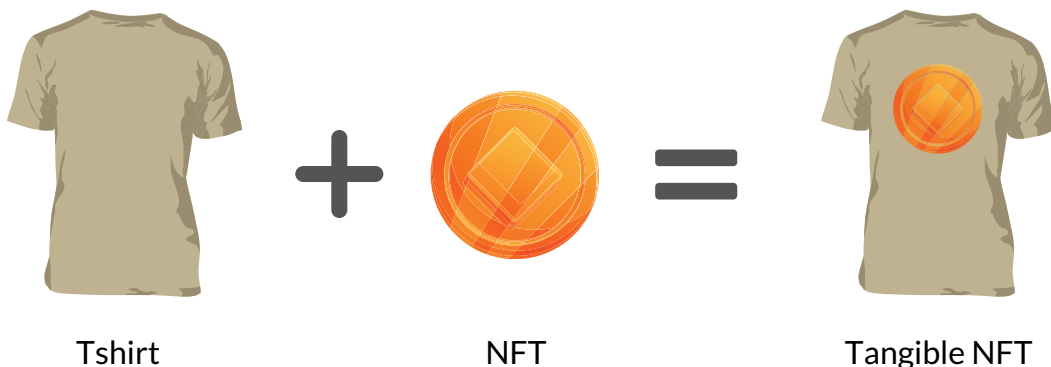
Application Layer

The top layer of Glasspaper consists of a React Component library. It provides the UI components to fetch the information from the blockchain. This layer can be accessed by any web browser and connects to the decentralized network.



Non fungible token

A Non fungible token is attached with every product hash created by the smart contract, which helps trace the flow of the Product along with the token. We have connected a physical t-shirt to the blockchain; this could come in handy regarding authenticity and provenance. At some point, the owner of a t-shirt could trace the shirt's origins back to a trusted vendor, and the token can operate the same way an old-fashioned certificate of authenticity works, only far more detailed and secure.



ERC 20 Token

Associate Name
Interact with Token

Hey, Sathya Prakash!

INTERACTING WITH: GLASSCOIN(GSC)

The contract address
0x2047021395a5b9e8d7cf5d3ec3bd98ba9cf63ce8

YOUR BALANCE

Tokens: 100000000

Buy Tokens

No. of tokens

Max: 10000 tokens

Buy

Transfer Tokens

To Address

Amount

Transfer

A completely planned ecosystem is build using the ERC 20 tokens; it's called Glasscoin. The Glasscoin can be mint, traded, and exchanged in the in-house platform.

Smart Contarct

Three layers of smart contracts are used at the initial stage of development, one for supply chain product management and the other two is for the NFT and ERC20 tokens.

Block Chain

Using Blockchain technology our team's mission was to create a powerful technology to empower the Sustainable fashion supply chain to enhance our clothes' quality, integrity, and transparency and zero down the textile pollution.

SUPPLY CHAIN FLOWCHART

Manufacturer

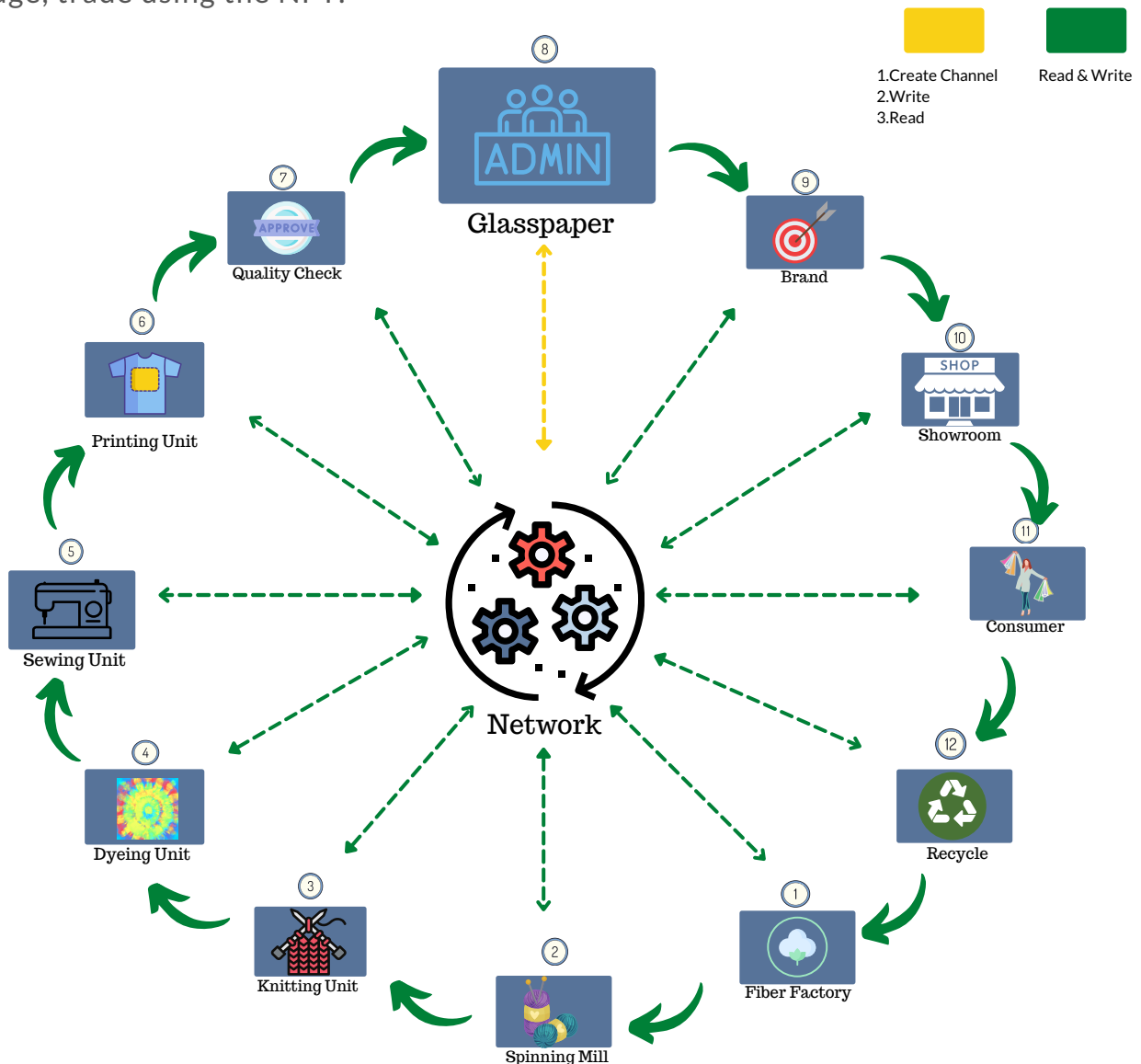
Every manufacturing milestone is considered as a process, and the information is recorded in the supply chain to trace the information on the Glasspaper platform. The manufacturers are allowed to read and write the data.

Glasspaper

Once the product is created, Glasspaper connects the final product with an NFT. The product hash code, which is attached with the NFT, is printed on the t-shirt using an advanced smudge heat transfer technology, using which the product is transformed into a tangible NFT.

Consumer

Once the consumer buys the product, they can trace the product's journey, resell, pledge, trade using the NFT.

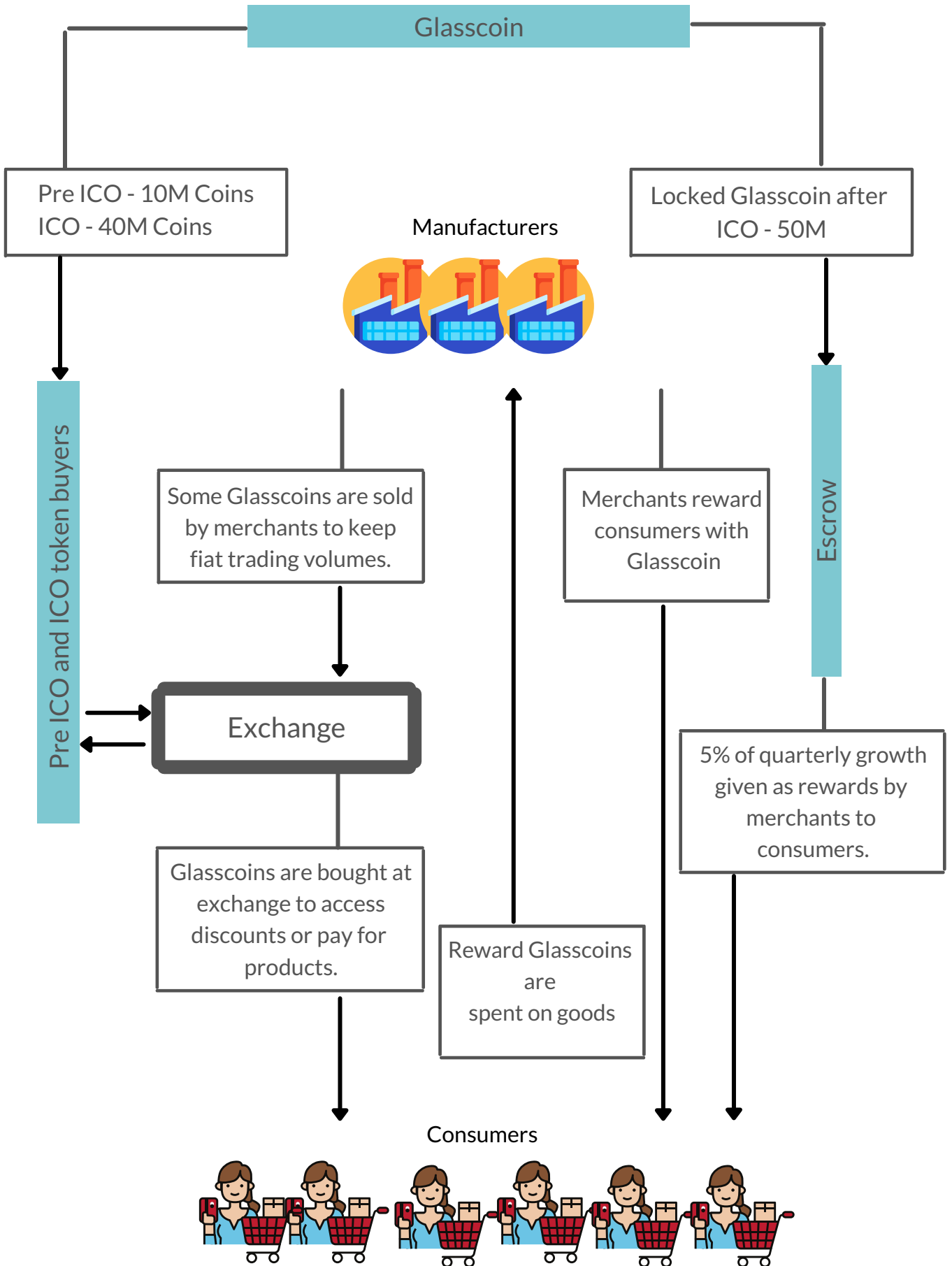


GLASSCOIN USAGE

- Glasscoin is a great investment opportunity for long-term and midterm investors as the demand for sustainable fashion will be on a permanent upward trend.
- Traders can benefit from the price fluctuations caused by the demand and supply.
- Consumers get Glasscoin rewards by purchasing Glasspaper-powered brands that they can use to buy products from the same brand.
- Glasscoins can be used as payments for using the Glasspaper platform.
- Glasscoin is accepted across the Glasspaper B2b marketplace using which one can trade sustainable products.
- Glasspaper uses Yield Protocol which provides a significant interest as a reward for holding it for a particular timeline to the coin holder. The rewarded amount will be a fixed wei per second, distributed proportionally to token holders by the size of their holdings.



GLASSCOIN ECOSYSTEM



GLASSCOIN - FAQ'S

What is the maximum supply of the Glasscoin?

100 Million is the maximum supply of the Glasscoin.

Who uses the tokens?

The tokens are used by Investors, Manufacturers, Brands, Traders & Consumers.

Why should someone use the Glasscoin?

A fully designed ecosystem backs Glasscoin; by using the Glasscoins, an investor gets his returns in multiple folds, a manufacturer can make payments to use the Glasspaper, a trader can benefit by the price movements, and an end-user can purchase sustainable products from the partner brands.

How can a brand use the token?

Every brand will be awarded the Glasscoins (ERC 20 Token) for using the Glasspaper platform, using which the brands can make payments for the traceability service.

Is there any rewards for holding the token?

Glasspaper uses Yield Protocol which provides a significant interest as a reward for holding it for a particular timeline to the coin holder. The rewarded amount will be a fixed wei per second, distributed proportionally to token holders by the size of their holdings. *This is under pipeline.

Which are the clothing brands someone can use this token to buy products?

Glasspaper is partnered with Garpenter, a bamboo athleisure brand where you can trade the Glasscoins for sustainable clothing.

Yogeek Athleisure is another sustainable clothing manufacturing partnered with Glasspaper.

What is the difference between Glasscoin and Zencoin?

Glasscoin is the ERC 20 coin used by the Glasspaper platform and Zencoin is the NFT connected with the clothes powered by Glasspaper.

Can someone buy a Zencoin (NFT) using a Glasscoin (ERC 20)?

Yes! you can buy a Zencoin using Glasscoin

PRE ICO AND ICO TERMS

There will be two stages: first a preICO, then the ICO itself. PreICO will enable us to put together an ICO that is appropriate for the scope of the project and the opportunity.

Glasscoin Token

Glasscoin token will be used to purchase Glasspaper-protected products (similar to loyalty program points). This includes Sustainable textile and fashion products and any other products we plan to protect with our technology. We will start in Singapore in terms of geography, but we'll also grow outside of Singapore. It's hard to predict the exact timing at this stage. This will also not be limited to products we sell ourselves: we plan to add other companies to the platform. These companies will also join the Glasscoin system.

We will encourage the use of Glasscoin tokens in several ways:

- a) We set up a seamless usage process for consumers.
- b) We allow users to 'mine' tokens with proof of purchase of Glasspaper-protected products. Buyers of products protected by Glasspaper technology will receive some initial tokens when they start buying. We are reserving tokens at the Escrow specifically for that.
- c) Consumers using Glasscoin will get better terms overall. This may include discounts, special offers, discounted purchases of Glasscoin tokens, etc.

The maximum supply of Glasscoin will be limited to 100.000.000 with the following split:

- a) Up to 10.000.000 tokens will be sold at the preICO at 0.03 USD/ token. Funds will be used to launch the ICO. Up to an additional 1.000.000 tokens will be distributed through the bounty program.

PRE ICO AND ICO TERMS

b) Up to 46.000.000 will be distributed at the ICO stage in November 2021 at 0.25 USD/ token.

The funds will be used to grow sales in Sustainable fashion, add more features and set up the Glasspaper Project blockchain-based, remotely hosted loyalty system. Part of the funds will be used to buy back preGlasscoin tokens sold at preICO as described below.

c) Glasscoin sold during the PreICO will be either locked up for 3 or 6 months after the ICO (for 5% or 10% bonus respectively, out of founders' token allocation) or bought back by Glasspaper Project at 25 USD cent per Glasscoin after the ICO and before the token is placed on exchanges. Glasscoin thus reclaimed will be put onto a company reserve with a 6-month lock-up period. (Assuming 50% of preICO contributors decide to sell, this reserve will amount to 5.500.000 tokens)

d) 8.000.000 will be distributed among the founders, team members, and bounties.

e) The remaining 35.000.000 tokens will be reserved to be delivered to consumers through the mining process. Consumers will receive tokens by purchasing Glasspaper protected products and participating in other activities. These tokens will be held in escrow. A merchant (seller of products protected by Glasspaper technology) will be entitled to release Glasscoin tokens equivalent of 5% worth of their quarterly increase in sales of his products, from the escrow into circulation, by distributing these tokens among the customers in the form of rewards and discounts. The merchant will sign the distribution order; no Glasscoin will pass it onto the merchant this way.

Here is an example explaining point (e):

Merchant H sells cosmetics with Glasspaper protection. H used to sell 1m USD/month of cosmetics and grew sales to 1.3m USD over a quarter. Suppose, at the same time, the price of Glasscoin at an exchange is 10 USD. H will then be eligible to distribute $(1.3m-1m)*5\%/10=1500$ Glasscoin to current or future buyers from the escrow. The escrow holding the remaining tokens will be split into different wallets for additional security. Merchant/consumer interactions will be done through the Glasspaper Authentication Interface and through a system of checks and balances to avoid any unintended use of the tokens.

PRE ICO AND ICO TERMS

Timing: preICO will start on 30th Sept at 17.00 SGT time and run for 35 days or reach the maximum amount of 300k USD equivalent.

Minimum and maximum amounts for the preICO are 30k USD and 300k USD equivalent. If we don't reach 30k, the contributions will be returned. The preICO will be closed if/when we receive 300k USD equivalent in contributions.

The coin is called Glasscoin. Each Glasscoin will be sold at 0.03 USD during the preICO and .25 USD during the ICO.

Token parameters: ERC20 token standard.

Our preICO wallet will not have a 3rd party escrow. We are not securing it with a 3rd party due to the relatively small amount of the raise. ICO wallet will be secured by 3rd party escrow and/or multi-signature account.

Accepted currencies - preICO: BTC, ETH, LTC. ICO: BTC, ETH.

Important to note is that we are still having discussions with lawyers on some of the parameters of the ICO. Hence it is possible that some of the ICO terms may change. At the same time, we shall do our best to minimize the changes and protect the interests of our contributors.

Ico timing: Starts in 30 Sept 2021 will last for 30-60 days or until reaching the max. amount.

**MANY THANKS FOR YOUR ATTENTION
GLASSPAPER TEAM**

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