



# ERA SWAP

— WHITE PAPER —

**Decentralized Autonomous Organization**



# DISCLAIMER

This Whitepaper is for Era Swap Network, Era Swap utility Token ("ES") & Era Swap Ecosystem ("ESE"). Its purpose is solely to provide prospective community members with information about the ES project, and it is not an offer or solicitation to buy or sell securities of any kind, or to invest in any financial instruments. This Whitepaper is NOT a prospectus and should not be relied upon to make any financial decisions. No person is bound to enter into any contract or binding legal commitment in relation to ES's services. The ownership of this token gives the community member access to the Era Swap Ecosystem and its decentralized Peer to Peer multiple utility platforms. The ES tokens are not intended to constitute securities in any jurisdiction. Securities law protection is not applicable to participants/stakers here because in ESN they can exercise control over their funds and ES generating activity with their own efforts that will determine their success whether or not the enterprise is successful.

Any agreements reached between the ES Promoter and prospective purchasers regarding the ES utility are solely responsible for their own consent. The Era Swap holders or purchaser should not assume presume profit on their stakings or holding ES as ES value completely rely upon the market forces due to its decentralized structure in a Peer-to-Peer Network, and is not dependent on the Promoters/Developers efforts.

The content in the white paper is subject to be updated, changed and omitted as per latest internal or external technology development and dynamic market scenarios without any prior notice. ES platform will follow the best practice, policies, and procedures intended to ensure legal and regulatory compliance in all jurisdictions within which it operates. All ES members will be required to comply with the Know Your Customer (KYC), Anti-Money Laundering (AML) and Combating Financing of Terrorism (CFT) norms with respect to the global standards. KMPARDS reserves the rights to upgrade, iterate, improvise the platform in future and move or add additional blockchain as and when required for the benefit of the community.



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## ABOUT:



WHO?

The roots of Era Swap lie in KMPARDS, an organization, which aims to spread awareness about the next-gen technologies like Blockchain, across the globe, through product research, development, and eLearning.



WHAT

One Utility Token powered on Era Swap Network to be used on multiple interlinked Middlemen-free DApps for Peer to Peer Exchange within Era Swap decentralized Ecosystem.



WHERE

By Building silde-Blockchain on top of Ethereum blockchain using the plasma framework and sharding to offer Scalability and Speed with effecient gas fee.



WHY?

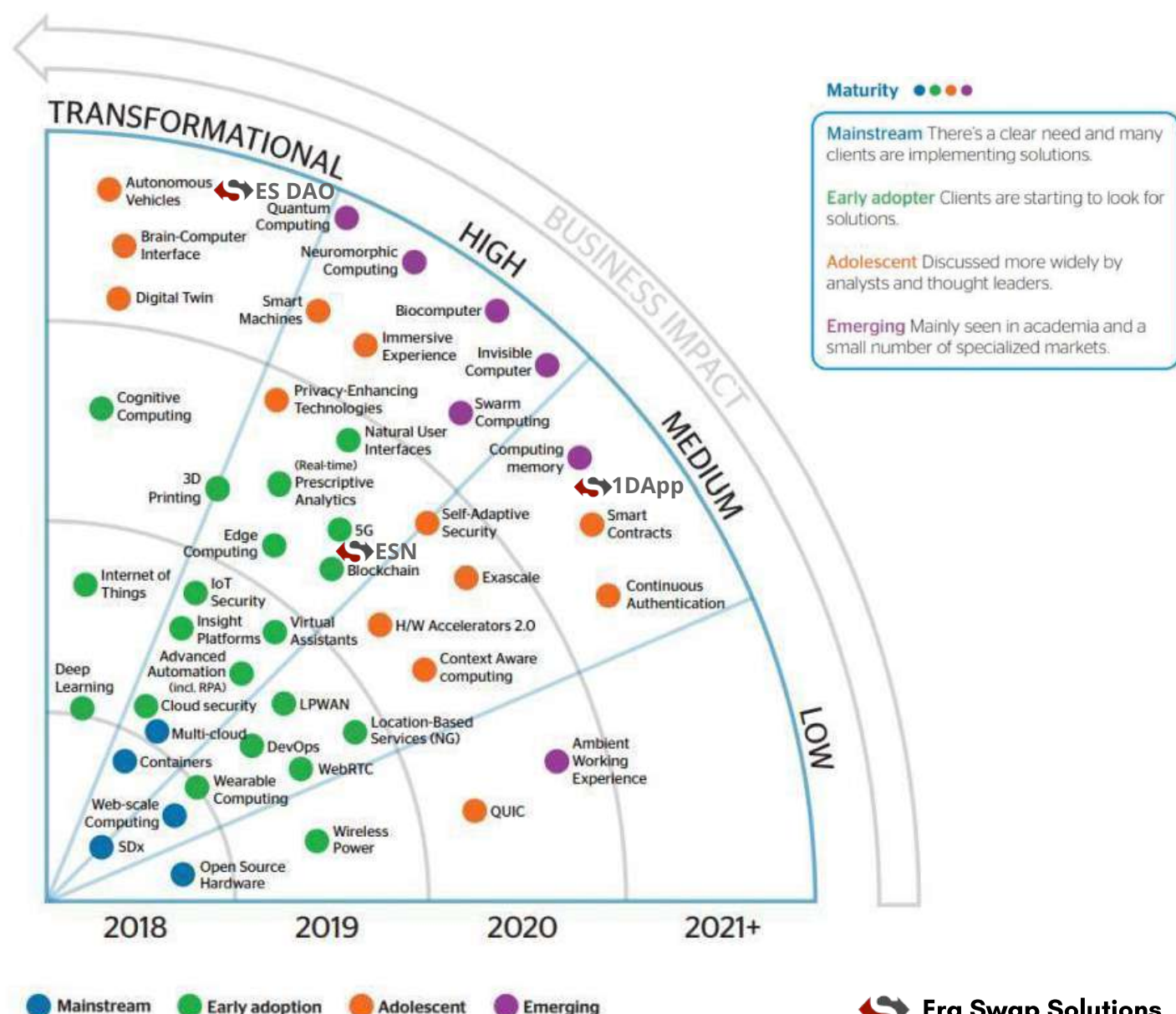
To achieve Scalability, Speed & Low transaction cost for Era Swap Ecosystem users for peer to peer transactions within the ecosystem, without compromising on Trustless Asset Security



WHEN

As Per Era Swap Roadmap

## TECHNOLOGIES FOR TOMORROW







## Era Swap Decentralized Autonomous Organization (DAO)

DAO is a **Decentralized Autonomous Organization** without any middlemen to control data but instead a smart contract that acts as a trusted source between stake holders and the organization. It is an organization simply governed by computer code & programs where it can work autonomously without central authority. DAO uses a consensus mechanism where stakeholders are aligned to rules for common goals & the welfare of the organization.

### How DAO Works?


Once DAO is deployed in a blockchain network, it cannot be controlled by an individual but instead community members of participants i.e stakeholders. Here smart contracts will govern every transaction predefined in the protocol, thus resulting in the best outcome for the network. The most important fact about DAO is that members of DAO are not tied with the traditional formal contract, but tied with the same goals or incentives rewards mentioned in the consensus rules. These rules are fully transparent, thus making DAO a decentralized organization where no single person can take or enforce individual decisions and autonomy to control all the functions on its own.

### What is Era Swap DAO? What are different features? How it works?

Era Swap DAO is governed by a set of software rules in smart contracts on Era Swap Blockchain Network. Era Swap DAO is the most complex form of smart contracts where distribution of Newly Released Era Swap Tokens is embedded into the code. Era Swap is an open-source organization that is completely transparent and can be presumed incorruptible.

Era Swap DAO uses the consensus mechanism to align the interests of the organization with the interests of its stakeholder. Here, the Interests of the participating members i.e Stakeholders of TimeAlly are aligned to DAO reward rules to claim Era Swap native token. To approve proposals, stakeholders should vote to reach the majority of 66% consensus in Era Swap DAO. Every transaction record & rule has been secured on Era Swap Network. Era Swap DAO is free to adopt.

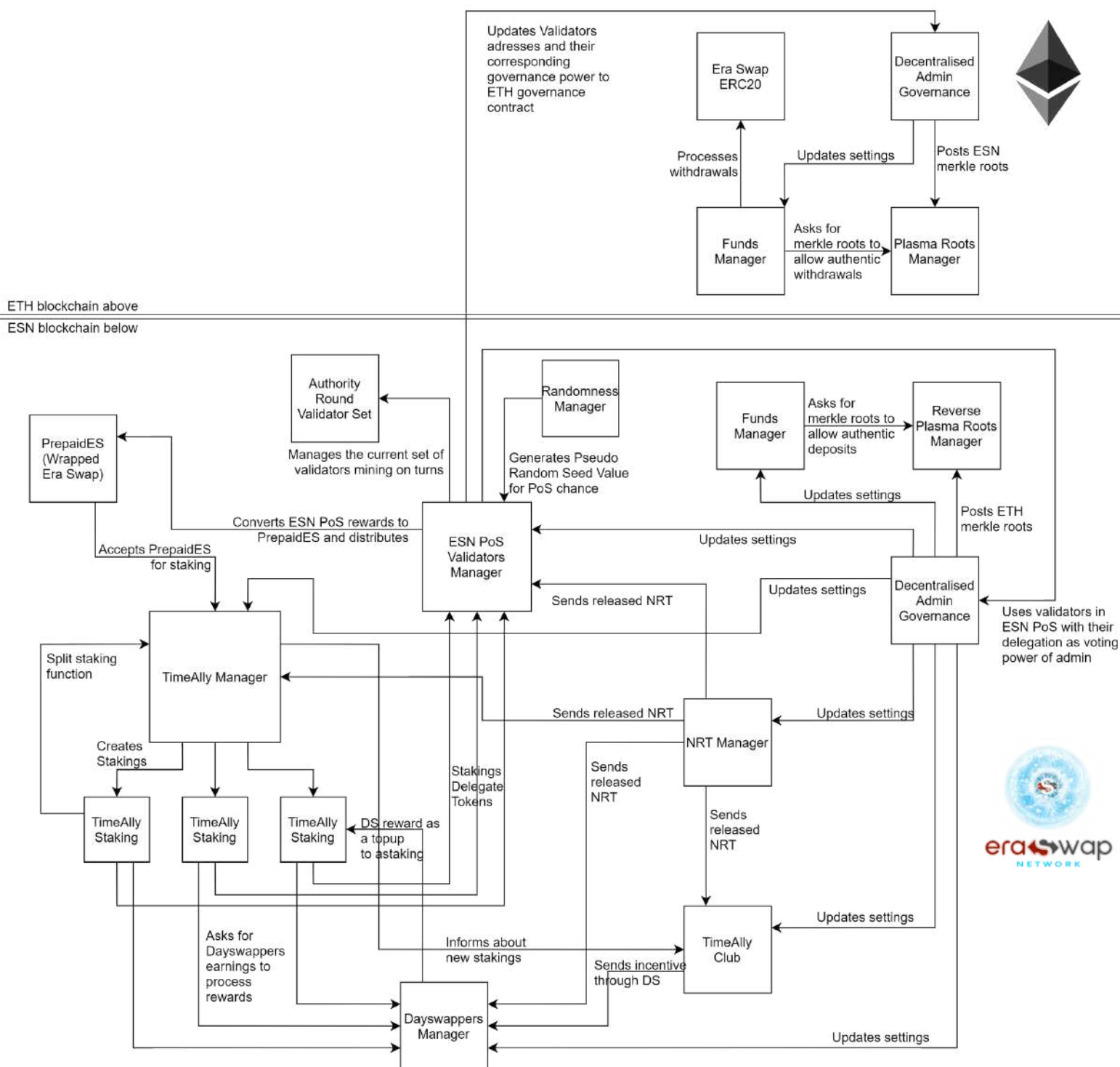
### Comparison of Era Swap DAO with Corporation & Cooperative Organization

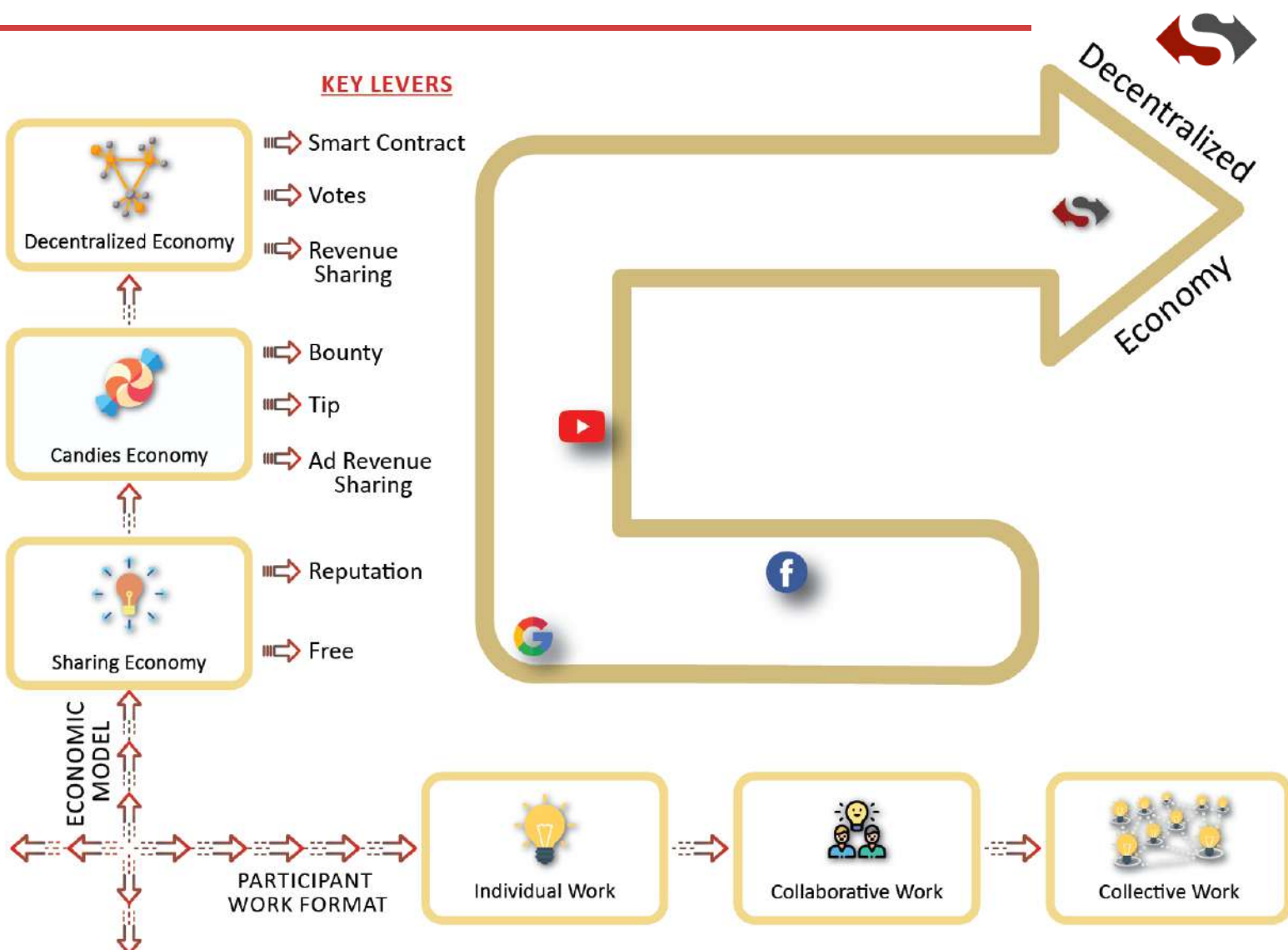
	<b>Corporation</b>	<b>Cooperative</b>	<b>DAO</b> 
<b>Management</b>	Board of Directors	Board of Members	PoS Validators
<b>Ownership</b>	Shareholders	Members	Timeally Stakers
<b>Supervision</b>	Supervisory board	Supervisory board Team	Blokcee
<b>Workforce</b>	Employees	Members	Contractors

Era Swap DAO uses PoS Validators which do the management part in Era Swap Network. The ownership is given to TimeAlly Stakers who stake Era Swap tokens, the supervision is done by Blokcee and the workforce is the contractors. In Era Swap DAO, it uses Proof of Stake consensus around token governance by complex smart contracts instead of any kind of legal contract. TimeAlly Smart Contract is the governing protocol that rewards as per the behaviors of participants present in the network.



# Era Swap Decentralized Autonomous Organization (DAO) Architecture





## Era Swap DAO will have 37 interlinked Smart Contracts / DApps

### How Smart Contract Works?

A smart Contract is a piece of code that is stored in the blockchain network with certain defined actions that automatically executes when certain requirements are met. The users can trust the outcomes as correct because Smart Contract is stored in each computer that is part of that P2P Network.

### BENEFITS OF SMART CONTRACT

<b>SECURITY</b> A Smart Contract is encrypted and it is stored distributedly. Hence, it guarantees protection from loss of data and unauthorized access.	<b>SPEED &amp; LOW COST</b> The majority of processors are automated and there are almost no intermediaries in the process, it gives autonomy to the users since they don't need any intermediary like a Broker or Bank or lawyer.	<b>STANDARDIZATION</b> There are various types of Smart Contracts, users can utilize for necessary and specific tasks.
<b>ACCURACY</b> Due to automation and minimization of manual labor, the probability of mistakes and errors is decreased, considering that mini operations that were carried out manually have become the reason for a lot of mistakes.	<b>TRANSPARENCY</b> All interested users can monitor the progress, at the same time, all participants maintain confidentiality.	<b>AUTONOMY</b> All Smart Contracts are self-regulated and self-executory so that people don't have to take part in the process and micromanage.

## What is Web 3.0 and how it impacts DApps and Smart Contracts

Web 3.0 is the 3rd generation of the internet where the devices are connected in a decentralized network rather depending on server based databases. The benefits of Web 3.0 are Anti-monopoly and Pro-privacy, Secure Network, Data Ownership, Interoperability, No interruption in service, Permissionless Blockchain, Semantic Web, Ubiquity and more.



## Era Swap Key Drivers



### Era Swap Foundation

#### Mission

Era Swap focuses on Competitive DApps Development with Era Swap Utility token for P2P Exchange of services on Scalable Blockchain to disrupt Monopolies.

#### Vision

To be Most Admired self sustainable Peer to Peer Marketplace for the betterment of the unserved, underserved, undeveloped, underdeveloped by appreciating the value they deliver

### Key Drivers of Era Swap Economy

Era Swap decentralized blockchain Network allows multiple cloud computing users to enter a loosely coupled peer-to-peer smart contract to mine Era Swap

Era Swap Token is a decentralized utility token that allows holders for Peer to Peer exchange using Smart Contracts within Era Swap Decentralized Economy. Era Swap is native token of Era Swap Network blockchain proof-of-stake Consensus Protocol, designed to optimize Utilization in Era Swap Decentralized Ecosystem & strengthen Decentralized Era Swap Network for long-term viability.

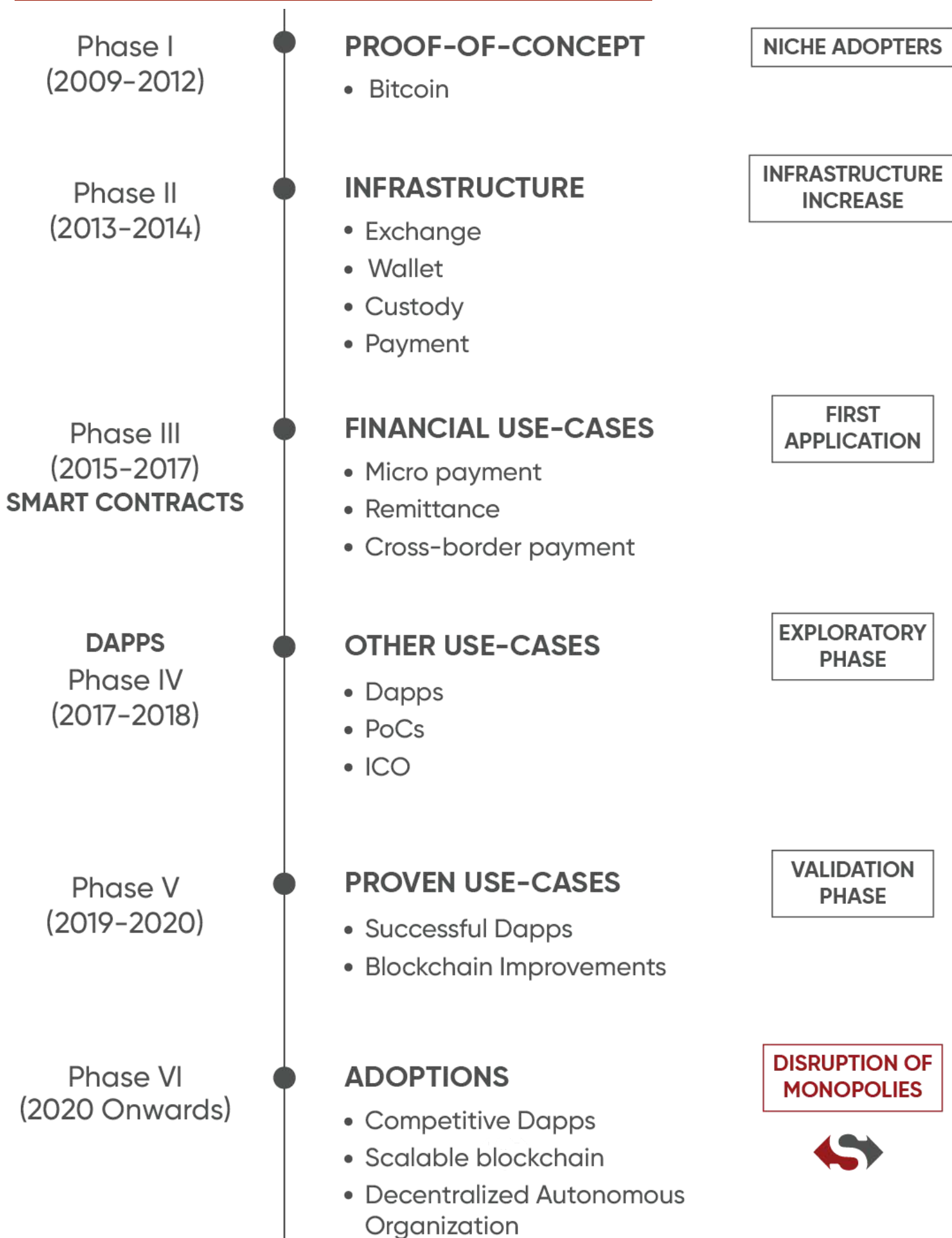
Era Swap decentralized Ecosystem is based on Web 3.0 which intends to eliminate the need to involve a mutually acceptable trusted third party for peer to peer exchange using cost-efficient Era Swap blockchain Network (ESN)







# PHASES IN BLOCKCHAIN





## Identified Problems



Deficiency of Centralization



Data Shared to Third Party



Shared Control



Third-Party Permission



Unemployment



Lack of Transparency



Platform Cost



Third Party Cost



Unserved



Underserved



Underdeveloped



Undeveloped



Less TPS on Blockchain



Use of Blockchain



Unbanked



Global Payment Gateways



Manipulation & Dominance



Convenience Fee



Blockchain Transaction Cost



Transaction Time on Blockchain



# ERA SWAP NETWORK

Era Swap decentralized blockchain Network allows multiple cloud computing users to enter a loosely coupled peer-to-peer smart contract to mine Era Swap

Era Swap Decentralized Blockchain Network (ESN) is a PoS-based side-blockchain on top of Ethereum blockchain using the Plasma Framework to meet Era Swap decentralized Ecosystem needs of faster transmission of transactions at a lower cost.

The purpose of establishing ESN is to achieve scalability, speed, and low-cost transactions for Era Swap Decentralized Ecosystem, on an alternative chain, without compromising on trustless security for users.

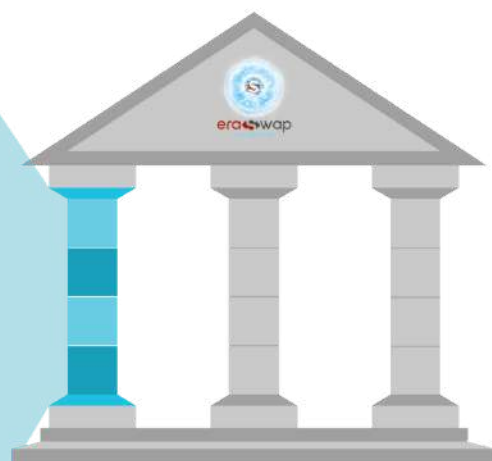
ESN will leverage the Decentralized security of Ethereum and the Scalability will be achieved through side-chain. ESN will give 500 transactions in every 5 seconds at 98% lower costs as compared with Ethereum Blockchain.

01

02

03

04





# ESN ABSTRACT

The early smart contracts of Era Swap Ecosystem like TimeAlly, Newly Released Tokens (NRT), Assurance, BetDeEx, CertiDapp of Era Swap Ecosystem, are deployed on Ethereum mainnet. These smart contracts are decentralized finance-oriented (DeFi), i.e. most of the transactions are about exchange of Era Swap tokens in peer to peer mode which made paying the gas fees (transaction charges) somewhat intuitive to the user just like withdrawal charges in bank or paying tax while purchasing burgers.

But the charges are in Ether (ETH), which is required in addition to Era Swap tokens to use multiple DApps of Era Swap Ecosystem and it only makes a new user experience, a complex stuff. Also, transactions that are not token oriented like adding a nominee or appointee, voting, etc. also needs considerable amount of gas fees to be charged (that too in ETH) which makes non-finance DApps costly and it fails to attract users from the centralized counterparts.

As multiple platform kept appending to the Era Swap Ecosystem, more non-financial transaction situations arise like updating status, sending a message, resolving a dispute, and so on. Paying extensively for such actions in another currency every time and waiting for the transaction to be included in a block and then waiting for enough block confirmations due to potential chain re-organizations is counter-intuitive to existing free solutions like Facebook, Gmail, etc. This is the main barrier which is stopping Web 3.0 from coming to the mainstream.

As alternatives to Ethereum, there are few other smart contract development platforms that propose their own separate blockchain that features for higher transaction throughput, but they compromise on decentralization for improving transaction speeds. Moreover, the ecosystem tools are most advancing in Ethereum than any other platform due to the massive developer community.

With Era Swap Network, the team aims to achieve scalability, speed and low-cost transactions for Era Swap Ecosystem (which is currently not feasible on Ethereum mainnet), without compromising much on trustless asset security of Era Swap (ES) for community users.





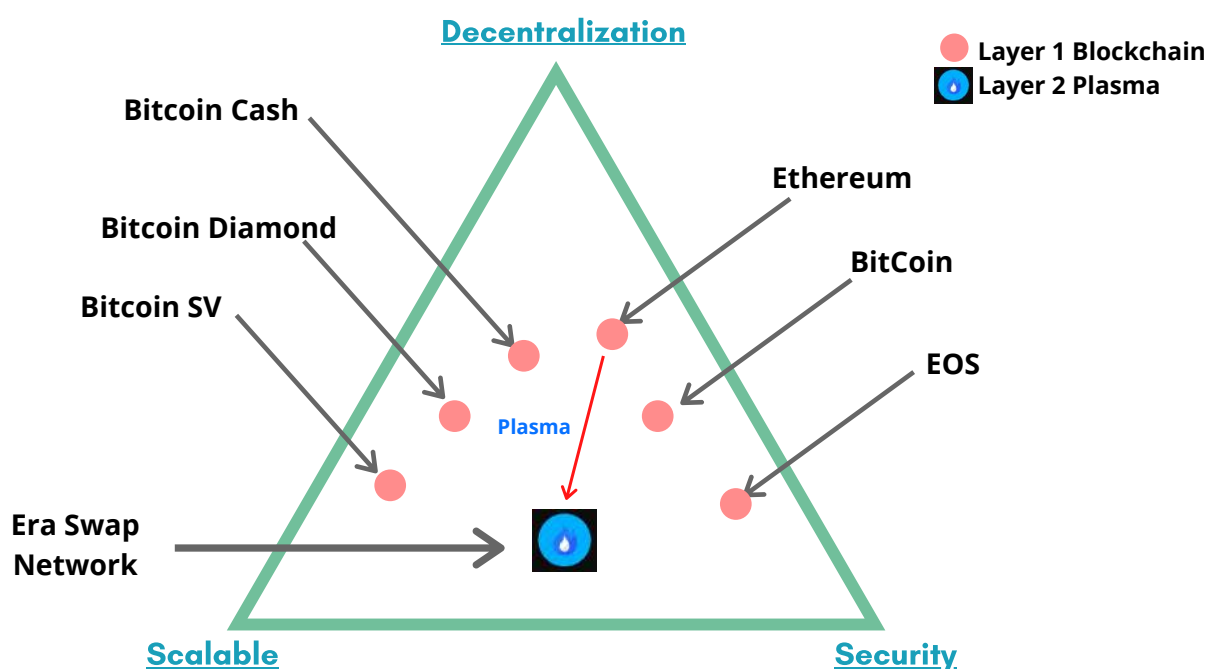
# Introduction to Era Swap Network

Era Swap Network (ESN) aims to solve the problems (mentioned in ESN Abstract) faced by Era Swap Ecosystem users by building a Proof of Stake Consensus Protocol (PoS CP) based side-blockchain on top of Ethereum blockchain using the [Plasma Framework](#).

Era Swap Network leverages the Decentralization and Security of Ethereum and the Scalability achieved in the side-chain, which solves the distributed blockchain trilema for Era Swap Ecosystem.

Currently, Ethereum can do roughly 15 to 20 transactions per second and all the smart contracts including Era Swap DApps that are deployed on Ethereum manage to work with it. While in Era Swap Network, as per ESN Testnet, there could be 500 transactions in every 5 seconds at 98% lower costs as compared with Ethereum Blockchain when maxed out. This gives a huge room for transactions (over 10 million per day) which is advantageous for Era Swap Ecosystem and its users. In future, whenever Era Swap Ecosystem requires more capacity, it can be achieved using sharding.

Era Swap Network consists of Bunches of Blocks of Era Swap Ecosystem Transactions. A miner in ESN produces blocks, and collection of these blocks are selected and a merkle tree is created. The root of the merkle tree is submitted to the ESN Plasma Smart Contract on Ethereum mainnet. This way, all the transactions happening on Era Swap Network are fingerprinted to the Ethereum chain.



A miner mines all the blocks in a bunch consequently and will commit the bunch-root to the ESN Plasma Smart Contract on Ethereum Mainnet



# Development Overview

Initially, a simple Proof-of-Authority (PoA) based consensus of EVM starts the development and testing of Era Swap Ecosystem Smart Contracts, as quickly as possible on the test-net. Era Swap will call this as an alpha-release of ESN test-net and only internal developers will work with this for developing smart contracts for Era Swap Ecosystem. User's funds in a Plasma implementation with a simple consensus like PoA are still secured as already committed bunch-roots cannot be reversed.

Eventually, Era Swap wants to arrive on a more control-decentralized consensus algorithm like Proof-of-Stake (PoS) probably, so that even if the chain operator shuts down their services, a single Era Swap Ecosystem user somewhere in the world can keep the ecosystem alive by running software on their system and similarly more people can join to decentralize the control further. After achieving such an implementation, Era Swap will release this as a beta version to the community for testing the software on their computers with Kovan ERC20 Era Swaps (Ethereum test-net).

## ESN Operations

Era Swap Network leverages the Decentralization and Security of Ethereum and the Scalability achieved in the side-chain, this solves the distributed blockchain trilemma. In most of the other blockchain, blocks are a collection of transactions and all the transactions in one block are mined by a miner in one step. Era Swap Network will consist of Bunches of Blocks of Era Swap Ecosystem Transactions. A miner mines all the blocks in a bunch consequently and will commit the bunch-root to the ESN Plasma Smart Contract on Ethereum mainnet.

The purpose of establishing a blockchain is to achieve scalability, speed and low-cost transactions for Era Swap Ecosystem (which is currently not feasible on Ethereum mainnet), hence on an alternative chain, without compromising much on trustless security for Era Swap Community users. Era Swap blockchain Network solves scalability, speed and low-cost transactions. As per ESN testnet, It could give 500 transactions in every 5 seconds at 98% lower costs as compared with Ethereum Blockchain. Era Swap Network (ESN) aims to solve the above-mentioned problems faced by Era Swap Ecosystem users by building a side-blockchain on top of Ethereum blockchain using the Plasma Framework.

TimeAlly 1 Life Time staking\* (not TSGAP, PET) can be used by staker to mine blocks in Era Swap Network. To minimize centralization of plenty of seats in one node, In Era Swap Network, if stakers don't have bandwidth to run and manage a node themselves, they can delegate their stakes to a node runner they trust which helps the node runner to get chance for mining more blocks and earn high profit which will be distributed back to delegators through Smart Contract. Top 100 nodes with most staking shall be considered for mining blocks

Inside a Validator Node, there is an Blokcee and Kami. Blokcee verifies new blocks and the transactions inside them. Blokcee also mines new blocks if it is a validator and Kami guards the bridge between Ethereum Network & Era Swap Network. A Kami looks after the proper functioning of the Blokcee. It keeps a very closer look on the Blokcee for any kind of attack taking place. If it senses one, it's guardian form get's activated and it starts taking preventive measures to stop the attack.

**\*TimeAlly 1 Life Time Staking Smart Contract is also known as TA 1LT**





## ERA SWAP NETWORK SNAPSHOT

ESN Snapshot	Block Finalizer	Signer	Informer
Impact	Mines Blocks on ESN	Verifies merkle roots and signs on it	Takes the Signed Merkle roots and submits to Ethereum Blockchain
Reward name	Block Finalizer Reward	Signer reward	Informer Reward
Participate 24*7 Consensus	Yes	Yes	No
Selection	1) Randomly 5 participating nodes shall be selected for 40 blocks. 2) Count no. of nodes participating in 66% consensus	Count no. of nodes participating in 66% consensus	First Come first serve Update ESN bunch to Ethereum Blockchain
Eligibility with minimum ES Stakes	Minimum of 170000 ES staking required, Additional Staking shall be adjusted Quadratically calculated as per Quadratic Table Staking delegation can be achieved from multiple delegators, Top 100 nodes shall only be eligible for mining. Refer ESN white Paper		
Prerequisite Cost	Server cost	Server cost	Server cost, Ethereum Cost
Reward as per Performance	Count of Blocks finalized	Speed of signing Bunch Roots	Bunches updated from ESN to Ethereum & Ethereum to ESN
Reward Distribution of 12% per annum of current NRT	Individual Blocks Mined / Total Blocks Mined	Your signatures / total signatures	Total no. of Blocks included in bunches submitted in Ethereum Blockchain by individual/ Total no. of blocks mined
Market Variance	Server cost		Cost of Ethereum and ES may vary at different times
Participation Criteria for rewards	Seats in the top 100 nodes		NA
Non-compliance	1) Went Offline while producing block 2) When 2 different blocks with the same block no. are submitted by same server wallet	1) Went Offline 2) When Signer run different version of software other than majority version, then there is a possibility	1) Send incorrect information or insufficient no. of signatures
Penalty Impact for Non-compliance	1) 30000 ES stakes shall be burned 2) 70000 ES burn stakes and suspension till next NRT month 3) Maximum Exception of 3 hours offline	1) 30000 ES stakes shall be burned 2) 170000 ES burn stakes and suspension till next NRT month 3) Maximum Exception of 3 hours offline	Ethereum Gas fee lost
Approver	ESN Nodes Consensus Protocol	ESN Nodes Consensus Protocol	Smart Contracts on ethereum
Server Capacity	AWS EC2 T2 Medium / Large, 30GB initial free space		
Maximum no. of Nodes	100 (Based on Proof of Stake)		
Total Reward of NRT per Month (12%)	9.4993% Block Finalizer Reward	2.5% Signer Reward	0.007% Informer Reward
Total Reward per Month (ES)	5831075.25	1535625.00	4299.75
Total Reward per Year (ES)	69972903.00	18427500.00	51597.00
Build Consensus (ESN 1 Block 4 seconds)	Nodes are being rolled, using cryptography 5 nodes are being selected randomly for every 40 blocks	NA	66.67% signatures of Signer stakers
Network Fee	100%	NA	NA
External Dependence	Open Internet Connection		
Internal Dependency	Rust, Node JS, System Testing, Virus free system		
Hardware Specification (Minimum Requirement)	4 GB RAM, i3 Processor, 30 GB free space		

This Illustration is corresponding to 3rd year NRT





# ERA SWAP NETWORK: SPECIFICATION

Era Swap Network (ESN) will be a separate EVM-compatible sidechain attached to Ethereum blockchain as its parent chain using Plasma Framework. The idea behind plasma framework is to avoid high transaction fees and high transaction confirmation times on Ethereum mainnet by doing all the ecosystem transactions off-chain and only post a small information to an Ethereum Smart Contract which would represent hash of plenty of ecosystem transactions. Also, to feature movement of Era Swap Tokens from Ethereum blockchain to ESN using cryptographic proof, reverse posting of Ethereum blocks on ESN blockchain will be implemented.

Also, submitting hash of each ESN blocks to ESN Plasma Smart Contract on Ethereum would force ESN to have a block time equal to or more than Ethereum's 15 second time as well as it would be very much costly to post lot of hashes to an Ethereum Smart Contract. This is why, merkle root of hashes of bunch of blocks would instead be submitted to ESN Plasma Smart Contract on Ethereum. There are more rewards for submitting a larger bunch / delayed.

Era Swap Network Validator nodes form the Era Swap Network that create blocks with PoS Consensus Protocol on along with the guardian Blokcee to protect the bridge between Era Swap Network and Ethereum Network. Era Swap is imposing a strict validator node count limit to 100 nodes.

TimeAlly 1 Life Time staking (not TSGAP, PET) can be used by staker to claim PoS seats for themselves or for others, which means it is possible for stakers to delegate their staking power to a responsible node according to them. If more than one seats are being registered, the cost PoS seats keep increasing, as per time and situations.

## HIGH LEVEL ACTORS INVOLVED

**These are the actors that appear to a layman user.**

- **TimeAlly 1 Life Time Stakers**

These are users who have some of their Era Swap Tokens staked in TimeAlly 1LT contract. TimeAlly 1LT stakings can claim PoS seats which can be used to get validator status or delegate seats to others.

- **Validator Nodes**

It is possible for anyone to run an validator node but to become a validator and produce blocks to earn rewards, at least one PoS seat is needed (which can be claimed by TimeAlly 1LT stakers). Validator Nodes are also responsible for posting hashes to Ethereum Network. Validator Node contains ESN Node and Blokcee inside it.

- **Era Swap Users**

Users who utilizes dApps of Era Swap Ecosystem using their web browser or through an app on their phone.



# LOW LEVEL ACTORS INVOLVED

**These are the actors in the underlying validator node.**

## **Blokcee - The block validator of ESN**

This is an EVM-compatible node with consensus achieved with PoS Smart Contracts. For a node operator to get a chance to propose a block, they have to stake tokens in TimeAlly and claim one or multiple PoS seats.

Every slab (40 blocks), 5 seats are selected pseudo-randomly from all the seats. Holders of these seats take turns to propose a block which gets checked by all the nodes and accepted if it's valid. If the node doesn't propose a block in allowed time, the next seat gets the turn to propose the block. After finish of the slab, new seats are selected randomly and process follows similarly. A penalty of 70,000 ES stakes burn is given if a network split occurs because of the node not producing a block. Also, if a node authors 2 different blocks in one chance, penalty of 70,000 ES stakes burn.

Block Proposer receives a Block Proposer Reward for every block they propose and these rewards can be used to claim actual ES tokens being released from next month NRT.

## **Kami - The Guardian of ESN**

Technically, this is a background process that runs with the ESN node. The ESN node checks transactions upto an EVM context, while this is something more. A Kami looks after the proper functioning of the ESN. It keeps a very closer look on the ESN for any kind of attack taking place. If it senses one, it's guardian form get's activated and it does everything it can to prevent attack from happening.

### **Responsibilities of a Kami:**

1. Post merkle roots from ESN to Ethereum. This task requires hold of some amount of Ether with Blokcee. On successful bunch submission to Ethereum Smart Contract, a Bunch Submission Reward is awarded to drive this task. The reward can be used to claim actual ES after NRT release.
2. Post merkle roots from Ethereum to ESN. Since, Ethereum is PoW based, there is a possibility for reorgs in the Ethereum blockchain. All the Kami's check if something like this is happening and update the longest chain merkle roots in ESN. This task does not cost anything, hence no reward is given.
3. Maintain proper consensus of ESN. Sometimes when some specific validator nodes act maliciously, ESN can be affected. Kami's detect any such sort of issue, and with consensus of other Kami's, the malicious validator seats is suspended.



4. Check of attacks and prevent them. In times of attack, a Kami increases the security and tries as much as possible to stop the attacker's attempts to take the network down. In case of a transaction spamming attack, Kami recognizes sudden increase in transactions and counters with increased minimum gas price to drain attacker's wallet faster. In case of a theft transaction, the Kami's in the validator nodes can take decision to rollback the blockchain with consensus to a block where the hack didn't take place and fork out with a clean version.

5. Give remote control access to the owner of the node. Owners can control the node from their mobile phone. The owner is authenticated by the Kami using Elliptic curve cryptography.

## Quadratic Cost for PoS Seats

**Quadratic Adjustment in PoS:** To minimize the centralization due to huge staking in one node, we introduce a quadratic adjustment scheme in which for huge stakings on one node the adjustment is also huge. **Adjusted staking = Total staked - Adjustment**

## Quadratic Formula & Quadratic Methodology Summary

$$0.001 * L * (170000 * (L - 1)) / 2 + 0.001 * L * (G - (170000 * L))$$

G = Initial Staking

L = Round up ( G/170000 ) - 1

If  $G \% 170000 = 0$ , L = ( G/170000 ) - 1 else L = Quotient ( G/170000 )

**The maximum Adjustment can happen is upto 2.5% of the staking.**

Quadratic Methodology Summary			
Amount of Staking	Adjustment Applied	Final Adjusted Amount (Amount of staking subtracted by adjustment applied)	Premium %
170000.000	0	170000.000	0.00%
200000.000	30	199970.000	0.02%
300000.000	130	299870.000	0.04%
340000.000	170	339830.000	0.05%
500000.000	490	499510.000	0.10%
1000000.000	2450	997550.000	0.25%
1500000.000	5880	1494120.000	0.39%
2000000.000	10780	1989220.000	0.54%
2500000.000	17150	2482850.000	0.69%
3000000.000	24990	2975010.000	0.83%
4000000.000	45080	3954920.000	1.13%
5000000.000	71050	4928950.000	1.42%
6000000.000	102900	5897100.000	1.72%
7000000.000	140630	6859370.000	2.01%
8000000.000	184240	7815760.000	2.30%
8500000.000	208250	8291750.000	2.45%
9000000.000	225000	8775000.000	2.50%
10000000.000	250000	9750000.000	2.50%
12500000.000	312500	12187500.000	2.50%
15000000.000	375000	14625000.000	2.50%
20000000.000	500000	19500000.000	2.50%
30000000.000	750000	29250000.000	2.50%
50000000.000	1250000	48750000.000	2.50%
100000000.000	2500000	97500000.000	2.50%



# ERA SWAP GUARANTOR

For securing the Era Swap Ecosystem, a reliable option is Proof of Stake (PoS). There are people with money but cannot work, as well as, people who can work but do not have money. Due to this problem, a considerable part of the community might not be able to fully participate in Era Swap Ecosystem, so we introduce Delegated Proof of Stake in Era Swap Ecosystem to counter this problem. Members with fewer stakes can demonstrate their good work and people with more stakes can identify such members and guarantee a part of their stake to to these members, in any numbers, in Era Swap Ecosystem.



Actual stakeholders receive TimeAlly benefits and they can temporarily distribute their decision making power to other members, which they can take back from members at any point of the time. In any event of malicious behavior from the member who got delegated, the penalty will be to wipe off member's personal stakes and balance penalty from the guarantor's stakes. When the staking period of the stakeholder finishes, the guarantee will be pulled off from the members, automatically.

Any Services on the platforms of Era Swap ecosystem, which requires stakes have the provision to appoint the guarantors. All the Platforms of Era Swap Ecosystem will have Provision for any seller selling products and services on platform to request for Guarantor (who has adequate staking for the required services). The Staker who is providing a guarantee will have an IssTime Limit based on his current staking value. The Staker accepts to Become guarantor for the requestor and can choose to accept or decline request for guarantee.

## How it Works

- The Guarantor will be able to see his Guarantee Limit (as per his IssTime Limit) in his TimeAlly staking.
- The Guarantor will be able to stake for Requester from his TimeAlly 1LT staking.
- After Successful Maturity of Guarantee Period, the Guarantee Stake will come back in Guarantor's TimeAlly.
- A Requester can have multiple Guarantors based on mutual agreement of incentive for provided Guarantee.
- The Guarantor will charge ES from Requester in P2P mode for staking on behalf of him.
- The Guarantor & Requester will mutually agree to the charges for Guarantee based on the period of the Project.
- If the Requester further defaults during his role / service duration in the ecosystem, then the penalty will be deducted from the staked amount by Guarantor.





## METHODOLOGY OF GUARANTOR FUNCTION

Guarantor Function is a delegation method which will be implemented in the redeployed TimeAlly (ESN edition). In TimeAlly 1 Life Time Smart Contract, a stakeholder can use their stake to guarantee as per their IssTime Limit of TimeAlly Loan. Here, a staker can link their stakings to give guarantee (as per his individual IssTime Limit) of their 1 Life Time stakings (for every NRT month) to another contract.

Doing so, some credits are generated in the other contract (Curators, VoF, Renting, ..., etc) which can be used to perform critical and honest tasks for Era Swap Ecosystem. A part of staking, as per IssTime Limit is used to provide guarantee to one contract cannot be double guaranteed to other contract again.

Here, Guarantor Function of TimeAlly is used to register seats for block producer consensus in Era Swap Network.

Also, if guarantee is misused by doing some malicious task, the contract can send a negative signal to TimeAlly and then the TimeAlly Smart Contract burns the staking linked to the guarantee or it arranges for a recovery option which might be required by some contracts like RentingDApp.

## GUARANTOR POOLING IN ERA SWAP NETWORK (ESN)

In Era Swap Network, if stakers cannot run their node, they can guarantee their stakes to a node runner they trust which helps the node runner to register more seats and earn high profit which will be distributed back to guarantor through Smart Contract.

A node can have multiple staker guaranteeing, and this can increase number of seats but quadratic cost will be applied. When the final profit received after NRT is released, the node runner keeps its predefined cut and rest rewards share is distributed to guarantors in proportion of their guarantee.

### **Important to note:**

If the node is caught doing any malpractices, for example, to create a double spend (by proposing two different blocks for same height), applicable amount of stakes of the supporters will be burned in proportion of their guarantee. Hence, it is the responsibility of stakers to only pool with nodes whose owner is trustable or has a good standing to minimise chance of malpractice or run their own node.



# NRT REWARDS ALLOCATION

**The task that requires an effort (financial or moral), there should be some long term benefits available to drive the desired effort.**

- **Block Finaliser Reward (Blokcee)**

It is possible for anyone to run an validator node but to become a validator and produce blocks to earn rewards, at least one PoS seat is needed (which can be claimed by TimeAlly stakers). Validator Nodes are also responsible for posting hashes to Ethereum Network. Validator Node contains ESN Node and Blokcee inside it.

- **Signer Reward (Kami)**

When an informer creates bunch proposal, it asks to Blokcee's of other validator nodes with seats for their signatures. When Blokcee's receive such request, they verify the information on it and place their signature and forward it back. Since, there is an Informer reward that goes to the informer, the Signer might refuse to sign and maliciously.

To prevent this from happening and instead also give benefit to the signer through informer, a signer reward is given to all the signatures that have been included by informers in the bunch proposal sent to Plasma Smart Contract on Ethereum. Though it is possible that, signatures of stakers with more seats will be preferred since their one signature has more weightage. This reward is given from the 2.5% Signer NRT bucket. Actual reward to a node depends on number of signatures the node provider vs total signatures.

- **Informer Reward (Kami)**

Since, ESN and Ethereum are two separate blockchains, to move information from one blockchain to other requires a financial effort. This effort is considerable from ESN to Ethereum while less for Ethereum to ESN. This work is done by the network of Blokcee's (who are funded by stakers). An information update proposal needs signatures of at least 66% of seats and then only it will be accepted by Smart Contracts.

A validator node that acts as an Informer has to create a bunch proposal and ask other Blokcee's in validator nodes for their signatures on the bunch. If at least 66% signatures (by seats) are not present, then the Plasma Contract deployed on ethereum will not accept it and the transaction will fail and most of the gas sent might be consumed. To compensate the effort as well as honour the initiative of informer, the informers are rewarded Informer Reward proportional to the number of blocks included in the bunch. This reward is given from 7% Bucket under Ecosystem Maintenance. The reward to a node depends on the bunches submitted.



# INFORMER PROFITABILITY FORECAST ILLUSTRATION

Informer Profitability Forecast Illustration							
Sr. No.	Bunch Depth	No. of Blocks as per current bunch depth	Current Interval of Bunch (in seconds)	Current Interval of Bunch (in minutes)	Current Interval of Bunch (in hours)	Total Bunches Possible in month as per current interval	Reward for 1 Bunch in ES
1	15	32768	131072.00	2184.53	36.41	20.06	234.67
2	14	16384	65536.00	1092.27	18.20	40.13	117.33
3	13	8192	32768.00	546.13	9.10	80.25	58.67
4	12	4096	16384.00	273.07	4.55	160.51	29.33
5	11	2048	8192.00	136.53	2.28	321.01	14.67
6	10	1024	4096.00	68.27	1.14	642.03	7.33
7	9	512	2048.00	34.13	0.57	1284.05	3.67
8	8	256	1024.00	17.07	0.28	2568.11	1.83
9	7	128	512.00	8.53	0.14	5136.22	0.92
10	6	64	256.00	4.27	0.07	10272.44	0.46
11	5	32	128.00	2.13	0.04	20544.88	0.23
12	4	16	64.00	1.07	0.02	41089.75	0.11
13	3	8	32.00	0.53	0.01	82179.50	0.06
14	2	4	16.00	0.27	0.00	164359.00	0.03

## Assumption:

1. The above illustration is based on 1 Ether = 5333 ES which shall vary with market
2. Ethereum Transaction fee for 1 Bunch shall be 0.05 Ether

## BUNCH STRUCTURE

### A Bunch Structure in Smart Contract will consist of the following:

- **Start Block Number:** It is the number of first ESN block in the bunch.
- **Bunch Depth:** It is Merkle Tree depth of blocks in the bunch. As shown in the figure, every level deep we go, 2 more nodes get added. Here, the bunch depth is 3, hence there would be 8 blocks in the bunch. And if we would draw upto bunch depth is 10, there would be 1024 blocks in the bunch. Bunch depth of Bunches on ESN Plasma Contract is designed to be variable. During the initial phases of ESN, bunch depth would be high, for e.g. 15, to avoid ether expenditure and would be decreased in due course of time.



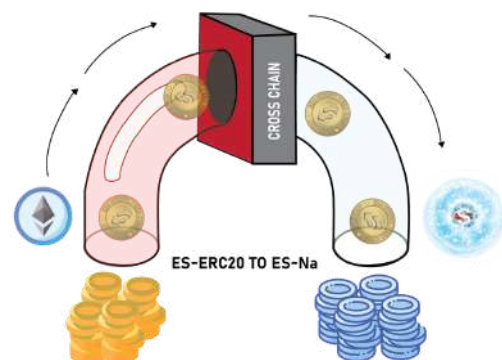
- **Transactions Mega Root:** This value is the merkle root of all the transaction roots in the bunch. This is used by Smart Contract to verify that a transaction was sent on the chain.
- **Receipts Mega Root:** This value is the merkle root of all the receipt roots in the bunch. This is used to verify that the transaction execution was successful.
- **Last Block Hash:** This is the hash of last block. This is used for checkpointing the Blokcee

## Converting ES-ERC20 to ES-Na

On Ethereum Blockchain, the first class cryptotoken is ETH and rest other tokens managed by smart contracts are second class. On ESN, there is an advancement to have Era Swaps as a first class cryptotoken. This cryptotoken will feature better user experience and to differentiate it from the classic ERC20 Era Swaps, it will be called as Era Swap Natives (ES-Na). According to the Era Swap Whitepaper, maximum 910 crores (9.1 Million) ES will exist which will be slowly released in circulation every month. Era Swaps will exist as ES-ERC20 as well as in form of ES-Na. One of these can be exchanged for the other at 1:1 ratio.

### Following is how user will convert ES-ERC20 to ES-Na:

1. User will send their tokens to a Deposit Smart Contract address.
2. On transaction confirmation, a cryptographic proof will be generated by user's computer automatically (which is like a receipt of the deposit). To generate a proof, user's computer by fetches all the transactions in the Ethereum Block in which the transaction was confirmed and it constructs a Transaction Patricia Merkle Proof which can cryptographically prove that user's transaction was indeed included in the block and the Receipts Patricia Merkle Proof to confirm that the user's transaction was successful.

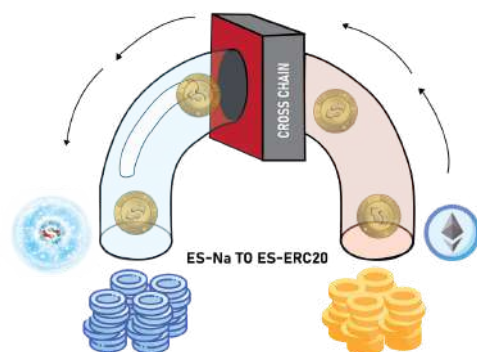


3. User will submit the generated proof to a Smart Contract on ESN, which would send Era Swap Native tokens to user's wallet address. Though, user will have to wait for the Etheruem block roots to be posted to ESN after waiting for confirmations which would take about 3 minutes. Once, it's done user's proofs will be accepted and will receive exact amount of ES-Na on ESN.

## Converting ES-Na to ES-ERC20

### Following is how user will convert ES-Na to ES-ERC20:

1. User has to send their ES-Na to a deposit contract on ESN.
2. Just like in previous case, a cryptographic proof will be generated by user's computer automatically. ES-Na being first class cryptotoken on ESN, Transaction Patricia Merkle Proof is enough to prove that user's transaction was indeed included in the block. Another thing which will be generated is the block inclusion proof in the bunch.
3. User will have to wait for the bunch to be posted to the Ethereum Plasma Contract by somebody else or user can choose to pay Gas fee and post the bunch roots themselves.
4. Once the bunch (that includes the ESN block that includes user's transaction) is posted to Plasma Contract on Ethereum, user can send the proof to the Plasma Smart Contract to receive ES-ERC20 tokens back.







# **Launch of New ESN Chain**

## **HOW OLD ES TOKEN SWAPPING WILL BE DONE WITH NEW ES TOKENS**

Existing ERC20 token contract was never designed keeping ESN in mind. Existing DApps like NRT, - TimeAlly which is the core of Era Swap need to migrate to ESN, and for this, a fresh ES contract needs to be deployed in order to make it compatible with ESN.

The old ES Tokens will become valueless as those tokens will not be accepted in ESN. Those who have done KYC in the past on <https://eraswaptoken.io> or <https://dayswappers.com>, need to send their Old Liquid ES ERC20 Tokens to Admin Wallet via KYC DApp (<https://kycdapp.com>). Those who have not done KYC in past, but have Old ES ERC20 tokens, need to submit their KYC on KYC DApp (<https://kycdapp.com>) and send their Old Liquid ES ERC20 Tokens to Admin Wallet before 21st of August 2020. Once their KYC is approved, their Old Liquid ES ERC20 tokens will be replaced with new ES Native tokens on Era Swap MainNet. Era Swap & Era Swap Staking holders will reflect on Era Swap Network TestNet. Wallets pending for KYC will receive their Era Swap Native Tokens and Era Swap Stakes on MainNet, once their KYC is approved. After successful review of TestNet, the final will be updated on MainNet.

Before launch of Era Swap Network Blockchain our Existing Era Swap users had to pay gas in ETH for multiple platforms in Era Swap Ecosystem. The launch of Era Swap Network will enable users to move their ES ERC20 tokens to ESN PoS secured blockchain using a user friendly merkle swap portal and do instantly confirmed transactions and pay gas in ES itself, as well as can take tokens back to ERC20 to use their ES tokens elsewhere on other DApps or Applications on Ethereum which welcome ES tokens. (but there users might have to pay gas in ETH and wait long for transactions to be confirmed)

## **EXIT GAME**

In ESN is based on the Plasma Model, when failure of sidechain occurs or the chain halts due to all the nodes shutdown, users can hard exit their funds directly from the Plasma Smart Contract on Ethereum by giving a Proof of Holdings. This has a very less possibility since there are multiple staker nodes.



## **ATTACK VECTORS**

### **A Validator node with stakes authors a block with an invalid transaction**

Whenever a block is received, every node in ESN checks if it satisfies EVM rules. If it does not, then the block is rejected and next seat is given chance to author the block. Hence, a block producer cannot include invalid transactions while producing the block because if it did, it would only lose its block producer reward.

### **A Validator node with stakes attempts double spend**

When a malicious node (with stakes) tries to do double spend by creating and sending 2 different blocks, this is quickly identified by the network of other nodes communicating with each other. Proof of the malicious activity (signatures on two blocks of same height) is shared to all the network participants and stakes corresponding to malicious node are burned.



### A Validator node with stakes tries to predict their selection

The validator set is randomized by a seed that includes the previous block hash which is unknown until the block is finalized. Hence, it is extremely difficult to predict when a validator will be selected.

### All selected validators don't produce blocks or Handover doesn't take place due to a validators refusing to sign off

In such an event, the Blokcees of all the ESN nodes, will come in consensus with each other and fork out with a new set of validators slashing stakes associated with seats of validators that caused the issue.

### Transaction Spamming DOS on ESN

When a Blokcee detects this, it will increase the minimum gas required limit. When a spam attack is done such that a Blokcee cannot detect it, the Blokcee's owners can take an initiative to increase the minimum gas fee limit from their phone.

### Requests Spamming on Blokcee

When a Blokcee detects unusual load from another Blokcee or outside, it will deny processing any anonymous requests and demand a signature authentication.

### Validators Disappear

If important validators disappear, the network not able to achieve 66% consensus. In such case, the Blokcee's will wait for a certain time for validators to reappear, else they will fork out (this process is complex) and their stakes will be slashed.

To reduce chances of this from happening naturally, there will be an attendance system where every validator's Blokcee will have to mark themselves present for the next slab, in case they are not, they will not be considered in 100% until the next slab. In case there are less than 5 seats occupied, all those seats will be block producers.

## ES METER (EM) & ES NANOMETER (nEM)

**Smallest unit of Era Swap (ES) is ES NanoMeter (nEM)**

$$1 \text{ ES} = 10^9 \text{ EM}$$

$$1 \text{ ES} = 10^{18} \text{ nEM}$$

$$1 \text{ EM} = 10^{-9} \text{ ES}$$

$$1 \text{ EM} = 10^9 \text{ nEM}$$

ES Unit	Symbol	ERA SWAP (ES)	ES METER (EM)	ES NANO METER (nEM)
1 ES	(ES)	1	$10^9$	$10^{18}$
1 ES TonMeter	(tEM)	$10^{-3}$	$10^6$	$10^{15}$
1 ES KiloMeter	(kEM)	$10^{-6}$	$10^3$	$10^{12}$
1 ES Meter	(EM)	$10^{-9}$	1	$10^9$
1 ES MilliMeter	(mEM)	$10^{-12}$	$10^{-3}$	$10^6$
1 ES MicroMeter	(μEM)	$10^{-15}$	$10^{-6}$	$10^3$
1 ES NanoMeter	(nEM)	$10^{-18}$	$10^{-9}$	1



## FUTURE SCOPE IN ESN

### Sharding

Once the blockchain reaches its capacity, to increase the capacity of ESN, one more blockchain will be deployed and it will be called as a shard. Any number of shards can be added when required and the transaction speed of ESN would be sum of transaction speeds of individual shards.

Cross blockchain transactions will be achieved by posting merkle roots of a shard to every other shard. Increasing shards requires more nodes taking responsibility for securing each shard by preventing malicious behavior of any other validators and it can be achieved since if ESN with one blockchain has reached its capacity means there would be enough community to take responsibility. Sharding in ESN will be initiated when ESN attracts lot of users, and transactions are maintained at its peak.

Sharding can be used to horizontally scale as much as wanted. Currently, if one ESN blockchain achieves around 500 transactions in every block, then to achieve 5000 about 10 shards (including the beacon chain) will be required.

**This will be implemented when regular users on Era Swap Network increase.**

### Messaging Protocol

Since Blokcees can communicate with each other as well as Era Swap Users can communicate with different different Blokcees, this gives a potential of the network of Blokcees to also relay some messages around. Nodes can choose to participate in this, they can generate more funds.

## PREVIOUS PLANS

The Era Swap Team had identified requirement of Era Swap Network around August 2019 after the deployment of TimeAlly Smart Contract, when community members were confused with gas fee in Ether. Also, there were many cases of transactions pending for hours due to Ethereum overcrowding. We started designing plan for Era Swap Network since then, but it has been evolved over time to better plans due to short-comings noticed. These plans are mentioned here for showcase of research work.

**For details about the previous plans on Era Swap Network please read Era Swap Network Whitepaper on [https://eraswaptoken.io/pdf/ESN\\_Whitepaper.pdf](https://eraswaptoken.io/pdf/ESN_Whitepaper.pdf)**

## ESN CONCLUSION

Era Swap Network is an EVM-compatible sidechain attached to the Ethereum blockchain through Plasma Framework. This allows off-chain processing of Era Swap Ecosystem transactions and posting only the hash of the bunch to Ethereum. This greatly reduces the high network fee and confirmation time issues faced by the current Era Swap Ecosystem DApps deployed on Ethereum. Also, having a separate EVM-compatible blockchain tailored to Era Swap Ecosystem improves the user experience to a higher extent. Since by design, Plasma Framework makes the Era Swap Network as secure as the Ethereum Network, user's funds on the network would be secure as well. Era Swap Network will help scale DApps of Era Swap Ecosystem to onboard the increasing numbers of users.



# ROAD MAP PLANNING

Since ESN is a public system, i.e. any one can enter it into it, there are chances of people exploiting the system. To avoid ESN exploitation from the bad guys, lot of checks are drafted in this whitepaper. However, during development process, it is possible that Era Swap might figure out more points to be taken care of or Era Swap might want to change entire core system (like how Era Swap shifted from PlanB to PlanC for better security). Hence changes to the road map are expected.

- ✓ ESN Blockchain from Parity
- ✓ Data Structure for posting Merkle roots to an Ethereum smart contract
- ✓ Logic for verifying a transaction and receipt from a mega Merkle root
- ✓ Implementation of transaction verification and testing
- ✓ Logic for Bunch Verification using multiple signatures
- ✓ Implementation of Dummy Bunch Verification (centralized) and testing
- ✓ Implementation of a basic Kami that asks for signatures from others and submits Bunches
- ✓ Implement Kami posting the Ethereum blocks to ESN
- ✓ Logic for Transferring ES from one chain to other chain
- ✓ Implementation of cross blockchain ES transfer contracts and testing
- ✓ Create basic UI for cross blockchain transfer of tokens
- ✓ Logic for Transferring information from one chain to other chain
  - Implementation of Information Transfer and testing
  - Implementation in Kami to stop and start Parity Ethereum
- ✓ Logic for Node Validators Pool (Basic delegation of stakings to a node with a dummy TimeAlly contract)
- ✓ Implementation of Node Validator Seats Allocation Smart Contract and testing
- ✓ Logic for Pseudo Random Numbers Contract
- ✓ Implementation of Pseudo Random Number Contract and testing
- ✓ Logic for Block Producer Selector Smart Contract
- ✓ Implementation of Block Producer Selector Smart Contract
- ✓ Logic for Block Reward Contract
- ✓ Implementation of Block Reward Contract and testing
- ✓ Final Implementation of Bunch Verification and testing with validators.
  - Logic for Cross chain transfer of Bunch Signer Awards, Submission Awards, Validator Linking Awards



- Implementation of Bunch Signer Awards, Submission, Validator Linking and testing.
- ✓ Upgradable Smart Contracts framework design (initially with admin control).
- ✓ NRT Smart Contract Architecture Planning.
- ✓ NRT Smart Contract Implementation and testing.
- ✓ Replacing dummy TimeAlly with real TimeAlly contract
- ✓ Implement Guarantor Function to delegate seats power
  - Implement Guarantor Stakes burn
- ✓ Implement Guarantor rewards delivery
- ✓ Add restake method in TimeAlly
  - Add restake method in PoS Validator Manager contract
- ✓ TimeAlly Staking Topup
- ✓ TimeAlly Staking IssTime Loan
- ✓ TimeAlly Staking Split into Smaller stakings
- ✓ TimeAlly Staking Transfer
- ✓ TimeAlly Staking Merge into Master staking
- ✓ Basic Block Explorer (displays bunches, blocks, transactions)
- ✓ TimeAlly User Interface
- ✓ TimeAlly Migration method for old stakings to new contract
  - Advanced Block Explorer (contract internal transactions)
  - Day Swappers Contract Tree Referral
  - Day Swappers Rewards distribution
- ✓ ESN Nodes Monitor Framework, to see whats currently happening live with a node
  - Advanced ESN Monitor Framework: check more things, and send email if any malicious activity
  - Setup upgradable contract mechanism (EIP 1822)
  - Alpha-release of ESN Testnet. Prepare a well documented deployment guide to remove any confusion of anything
  - Merkle Swap UI for tokens transfer from one chain to other chain
  - Engineer the Merkle Swap UX for tokens transfer from one chain to other, make it worldclass, extremely easy for a normal user (will be done later)
  - Implement the Kami Consensus for efficient checkpoint commitment
  - Implement the Kami Consensus for ETH-ES avg rate calculation when NRT released
  - Design the crypto-system for Remote Control of the Kami
  - Implementation of Remote Control the Kami
  - Implement the Gas Price limit changer by Kami
  - Implement Attack resistance by Kami
  - Implement Handover Failure Handling by Kami Consensus
  - Implement the Emergency Fork by Kami Consensus
  - Alpha Release of ESN Mainnet





# ESN GUIDANCE

## What is Era Swap Network?

Era Swap Network (ESN) is a PoS-based side-blockchain on top of Ethereum blockchain using the Plasma Framework. To achieve the necessary consent on the single state of the network among distributed parties within the network, Era Swap Network (ESN) uses Proof of Stake (PoS) Consensus Mechanism – It is a fault-tolerant mechanism used in Blockchain systems.

## What are the benefits of Era Swap Network?

Era Swap Network will offer Scalability, Speed and Low-Cost Transactions to users of Era Swap Ecosystem. Era Swap also offers the benefit of trustless security for users by remaining on an alternative chain. ESN testnet could do up to 500 transactions in every 5 seconds at 98% lower costs as compared with Ethereum Blockchain.

## What is Core Strength of Era Swap Network?

The core strength of ESN comes from its Proof of Stakes Consensus Protocol (PoS CP) via TimeAlly 1LT Smart Contract staking and Node Validators. The consensus permits Blockchain to function without being dependent on a single actor, as different participants in the network, offer their consent which makes Era Swap network.

## Who can participate in ESN?

Anybody can participate to accumulate ES in long term to safeguard the future, and have the control over their growth. The sole purpose and reason for TimeAlly 1LT holders should be to participate, not to earn profits, but to protect the interest of ESN and their own long term Era Swap Stakings.

## Why Stakers should participate in ESN PoS CP?

The real motivation of TimeAlly Holders is to focus on Staking so they can withstand the inflation of the Era Swap and secure Era Swap network instead of assuming profit from the participation. The value of Era Swap will decrease and eventually will become worthless if the Era Swap Holders fails to stake and participate in Era Swap Network.

## How can I participate in ESN PoS CP?

For ESN PoS CP, A New User can stake Era Swap in TimeAlly's 1 Life Time Smart Contract. To participate in ESN PoS CP, Existing users can Sign an accord Signature on Era Swap Life / Era Swap KYC DApp for ESN PoS CP via TimeAlly 1LT Staking to migrate towards Era Swap Network

## What makes ESN Successful? / Why choose ESN?

Era Swap Network (ESN) is a decentralized Blockchain Network, and the growth of ESN is solely dependent on the community and doesn't depend on the Promoters/ Developers. In ESN, a person can create liquidity with their own efforts and solely responsible for the rewards generation. So, the efforts of Era Swap Community makes ESN successful.

## How a Participant's incentives will be secured in ESN?

A participant's incentive is secured in ESN by his / her stakings in ESN PoS through TimeAlly 1LT Smart Contract. All the incentives to stakers are distributed via Smart Contract to participant of ESN.



### **Who is responsible for Participant's token liquidity / profit / growth?**

In ESN there are multiple opportunity available to accumulate ES and it increases its value with individual efforts and responsibility by community members and participants. This contribution by everyone will determine their success whether or not the enterprise is successful.

### **How ESN PoS CP participant is protected against inflation?**

ESN Newly released token distribution is designed to take care of network and withstand inflation, and also gives additional power on Swappers Wall to incentivize new ES Ecosystem participants. Also stakers receive TimeAlly 1LT Staking Rewards which are designed to enable the incentive mechanism for stakers who can participate to secure Era Swap Network

### **How PoS is protecting Era Swap Network?**

Due to Proof of Stake (PoS), participants can protect Era Swap Network as ESN is governed by Proof of Stake Consensus Protocol (PoS CP) through which Era Swaps are staked in Smart Contracts and Stakers agrees to participate in Era Swap Network.

### **Is there any risk of losing ES Tokens in TimeAlly?**

The TimeAlly Holder is not exposed to any risk of losing their Era Swap which are staked, but only the risk that he or she will not earn TimeAlly 1LT rewards. If the holder is abstained from TimeAlly 1LT staking they both way forgo Rewards and suffer from Era Swap Network Inflation.

## **ESN REWARDS GUIDANCE**

### **Who will be receiving ESN Rewards and how it will be distributed?**

All ESN PoS CP Stakers will stake ES in TimeAlly 1LT Smart Contract for rewards. The percentages of earned rewards and Validation Rights of holders are received by Blokcees in Era Swap Network and their rewards are distributed further to TimeAlly 1 Life Time holders via Smart Contract. This percentage of reward distribution in ESN will be done by smart contracts.

### **How monthly ESN rewards are distributed?**

The ESN TimeAlly 1LT rewards earned by the Blokcee are then sent to Era Swap Network controlled distribution wallet. At their discretion, the TimeAlly 1LT holder shall separately submit request transaction to the Era Swap Network controlled distribution wallet and their portion of the earned TimeAlly 1LT rewards will be allocated to the wallet initially Delegated from.

### **Can anyone else utilize rewards of other users in ESN?**

The participants on Era Swap Network do not utilize rewards for the benefit of anyone other than themselves. They have the complete control over their funds and rewards, and are solely responsible to withdraw rewards. All the rewards are allocated and distributed in decentralized Era Swap token on ESN via Smart Contracts, based on their efforts and eligibility.

### **Does participating in ESN PoS CP affects ES Tokens in TimeAlly 1LT Staking?**

TimeAlly 1LT holder's tokens are holded safely in TimeAlly Vault. TimeAlly holders solely transfer their rights to Blokcee, in good faith, and they can do this delegation every 30 days and 10 hrs. So there is no affect in the count of staked ES of holders in TimeAlly Vault, unless penalized for wrong doing or malicious activity.



# **ESN SEALER'S GUIDANCE**

## **How to become Era Swap Sealer?**

The SEALERS in ESN runs two software called "Blokcee" and "Kami". The sealers in the Era Swap blockchain network needs to stake Era Swap (ES) with TimeAlly 1 Life Time Smart Contract to get allowed for validating new transaction blocks in ESN. ESN PoS Participants needs to stake Era Swap TimeAlly which allows them to validate new transaction blocks in ESN.

## **What are the responsibilities of Sealer?**

The Sealer's primary responsibility is to run the software to validate the new transactions and earn rewards on successful validations. The returns are completely based on the external factors like market forces of the Era Swap and do not depend on the efforts of the Sealer.

## **How Sealers are rewarded in ESN?**

In ESN, the Sealers have delegated the Rights to validate the new transactions blocks and earn rewards in Era Swap Network, it helps To enable and drives participation in developing and validating new transaction blocks on the network to make it more secure. This also helps to attract new developers (block finilizer, etc) and users in the ESN. TimeAlly 1 Life Time smart contract designed to reward the stakers who supports the growth and sustainability of ESN.

## **Does Sealer performance affects staking value of ES?**

The returns are completely based on the external factors like market forces and isn't depended on the efforts of the Sealer.

## **Is Sealer responsible for creating new ES Tokens?**

The Sealer is responsible to maintain the distributed Ledger and they can only interact with decentralized Era Swap Network with decentralized Era Swap token which was previously issued, bought, or sold.

## **Does Sealer provide money transmission service?**

Sealer would not provide any money transmission service because they take no part in transferring Era Swap. A TimeAlly 1 Life Time holder delegates validation rights to Blokcee staking Node. The Blokcee then pools the validation rights and validates on Era Swap Network.

## **In dedicated Proof of Stake (DPoS), Does stake holder has to transfer his asset to Blokcee?**

In ESN, the stake holder delegates Blokcee, the Rights to validate the new transactions blocks and earn rewards in Era Swap Network, which helps to enable and drives participation in developing and validating new transaction blocks on the network to make it more secure.



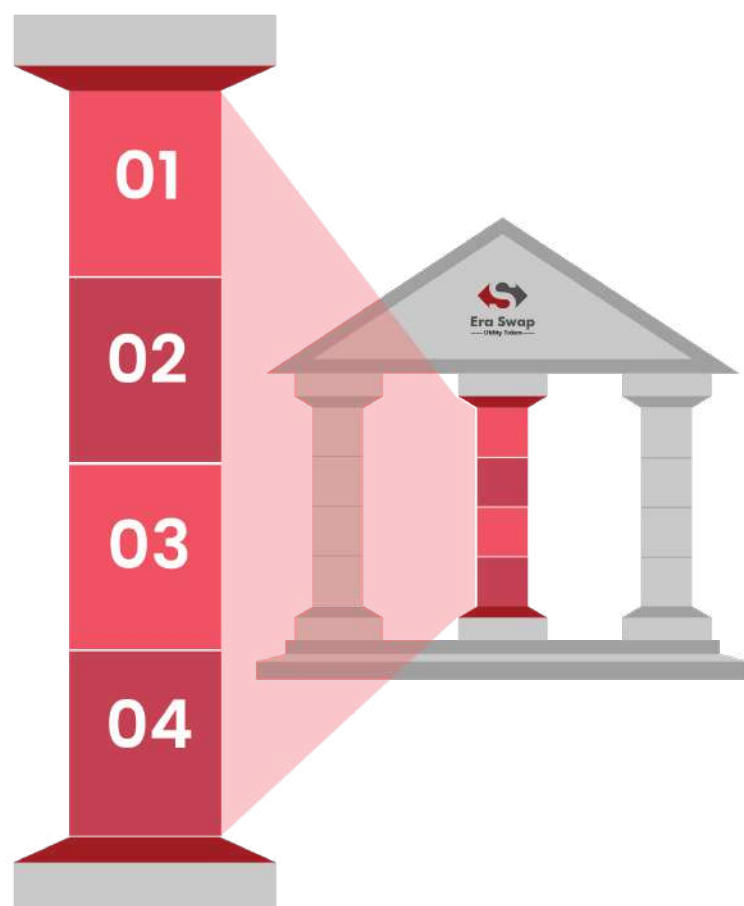
# ERA SWAP TOKEN

Era Swap Decentralized Utility Tokens is native token of Era Swap Network blockchain proof-of-stake Consensus Protocol. Era Swap token is designed to optimize Utilization in Era Swap Decentralized Ecosystem & strengthen Decentralized Era Swap Network for long-term viability

Era Swap Token is a decentralized token that allows holders for peer to peer exchange using smart contracts within Era Swap decentralized economy and save upto 50% to 95% cost of intermediary charges

Era Swap Tokens are pre-mined and will be released through a smart contract every calendar month. Newly Released Tokens (NRT) supply will decrease by 10% every year from its previous year and hence on.

Era Swap Token (ES) is native token of Era Swap Blockchain Network just like ETH is native token for Ethereum Blockchain Network. Era Swap utility token is utilised for transactions, transaction fee, mining and staking rewards on Era Swap Network





# ERA SWAP USER ADVANTAGES

**Era Swap Token (ES)** offers multiple Advantages to Era Swap Users for Era Swap Network and Era Swap (ES)



Greater  
Transparency



Decentralization



Reduced Costs



Data Ownership



Eliminating the  
Middlemen



New Business Models



Incentivize Positive  
Behavior

## ERA SWAP ADOPTION

Era Swap NRT distribution has been crafted in a manner to encourage adoption of Era Swap by rewarding users in multiple ways for their contribution on multiple platforms of Era Swap Ecosystem.

Also, there is strong focus to add more decentralized utility platforms for Peer-to-Peer Exchange of Services and a blockchain for the community to support speed and scalability without compromising on security.



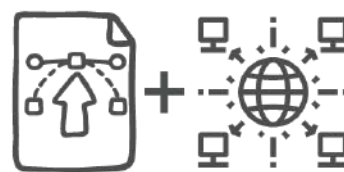
Ecosystem  
Development



Decentralized  
Stake Holdings



Incentivize Stake  
Holdings



Scalability &  
Decentralization



Reward Active  
Acceleration



Participation  
Incentives



Referral Rewards



Tie-ups for Mass  
Adoption





# TOKENOMICS

**Era Swap Token (ES)** economics is very carefully crafted to benefit all the community members of the ecosystem to influence demand, supply and valuation of Era Swap token. Era Swap token has an inbuilt deflation and a strong burning rule coded in the smart contract which can not be altered.



## TOKEN BURN RULES

Era Swap Tokenomics has a strong burning rule which reduces the total supply and helps in deflating the inflation. Tokens will be burned under these circumstances:

- **10% of KYC - KYC for listing is KYC Fuel 31.5 (year 3 NRT) ES for Vendors/Service Providers, applicable on all platforms, which keeps decreasing by 10% every year**
- **10% of TFC collected from ESE Platforms**
- **When a borrower defaults to repay Loan and interest Amount of TimeAlly 1 Life Time Loan (balance tokens burn in TimeAlly Staking)**
- **Unused Power Tokens (On the 30th Day of NRT month)**
- **Unrewarded Tokens from ES NRT**



To reduce the disruption, burning of the number of tokens in any given month will **never exceed 2% of the circulating supply** for that month. In case there is a balance of tokens to be burnt, it will be carried forwarded to the next month and so on till the number to accumulated tokens are burnt.



## UNREWARDED TOKENS

The rewards generated from NRT are based on the total TFC generated from exchange of services on multiple platforms of ESE. The leftover tokens which were allocated to be distributed, however couldn't be rewarded due to deficit in TFC generation are called unrewarded tokens. The Unrewarded tokens will be burnt every NRT month



## WRAPPED ERA SWAP (WES)

Wrapped Era Swap (WES) version of Era Swap can be created by sending Era Swap to a smart contract. These WES can be used for TimeAlly Top up, new stakings in TA 1LT, PET, TSGAP, Curator & Gaurantor Contrats on Era Swap Network. All stakings done by WES are eligible for TimeAlly Club & Day Swappers Rewards. Era Swap Network distributes WES as mining reward for delegating proof of stake to nodes. WES distribution further strengthen Era Swap network with more active actors who can stake tokens and run nodes to secure the network for broader adoption



## WORK POOL

Workpool is the pool of tokens which is allocated for the community members. Although 30% of the NRT is allocated for Workpool (refer to NRT Distribution Chart), however to control the inflation in the ecosystem, the token distribution will be directly proportional to the TFC generated from various platforms in Era Swap ecosystem (ESE). The remaining unrewarded tokens will be burnt every NRT Month.



## LUCKPOOL

Era Swap places the benefits of the community at highest priority. So, Luck Pool was created. It is a pool of tokens which are collected from the below sources:

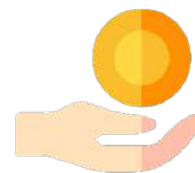
- **The revenue generated through the standard advertisement plans**
- **Interest paid by the borrower for TimeAlly 1 Life Time Loan**
- **10% of Platform Fuel Charge (TFC) Collected**



Luck Pool is merged with the Newly Released Tokens Pool and will be distributed as per the NRT Distribution. Therefore, the additional revenue generated from the ecosystem, is given back to community members of the ecosystem

## CHARITY POOL

Sellers/Vendors will pay 31.5 Era Swap (ES) tokens for KYC listing on multiple peer to peer utility platforms of Era Swap ecosystem. Out of this, 10%, which is 3.1 Era Swap (ES) tokens will go to charity pool where the charity beneficiary is decided by the community voting. Also, 10% of the TFC goes to charity pool.



### How Charity Pool Works?

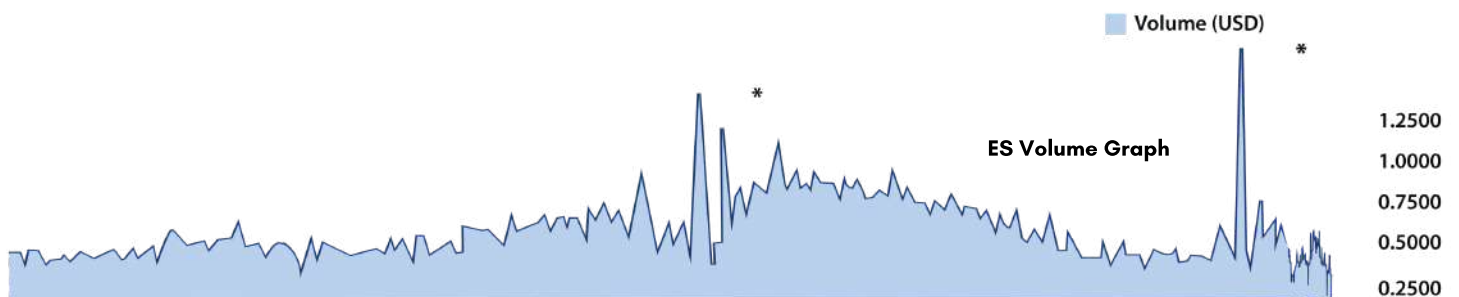
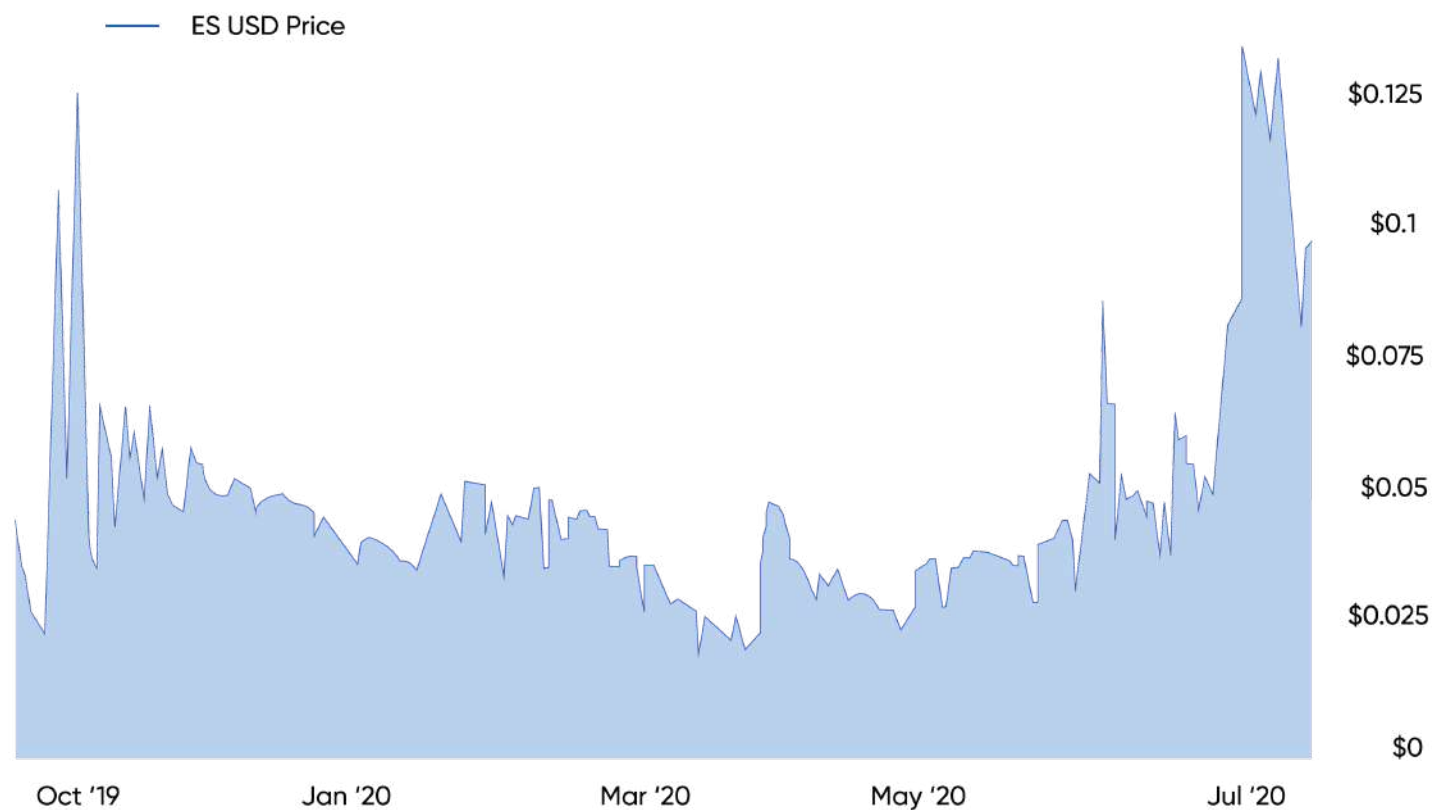
In order to get the charity, the eligible applicants will fill up details and apply to get charity. All the cases for the charity will be displayed on Swappers Wall. Applicants for charity can post their charity cases with details and time-frame of the charity.

The users will donate ES and Power Tokens to the various charity cases listed on the platform. The Charity pool will be distributed to the Charity cases as per the value of donation received by the charity applicants respectively.

## TOTAL FUEL COLLECTED (TFC)

Total Fuel Collected (TFC) is the total e-handling charges by Platforms. The TFC collected from all the platforms is allocated back to the community among active Day Swappers for their contribution on multiple platforms to increase usage and userbase. The TFC varies from platform to platform and fuel chart is given at the end of this whitepaper.

Era Swap Snapshot	Max Supply	9100000000 ES	<a href="https://etherscan.io/token/0xef1344bdf80bef3ff4428d8bec3eea4a2cf574#readContract">https://etherscan.io/token/0xef1344bdf80bef3ff4428d8bec3eea4a2cf574#readContract</a>
	Total Supply	1,430,022,413.02 ES (29-06-20)	<a href="https://etherscan.io/token/0xef1344bdf80bef3ff4428d8bec3eea4a2cf574#readContract">https://etherscan.io/token/0xef1344bdf80bef3ff4428d8bec3eea4a2cf574#readContract</a>
	Fully Diluted Market Cap (Jun-20)	163400000 USD (29-06-20)	<a href="https://etherscan.io/token/0xef1344bdf80bef3ff4428d8bec3eea4a2cf574#readContract">https://etherscan.io/token/0xef1344bdf80bef3ff4428d8bec3eea4a2cf574#readContract</a>
	Reserved for IEO, Private Sale, Series A, B & C Funding	3900000000 ES	
	Total ES Burnt	28324852.91 ES (29-06-20)	0xca48a4115222ff821aba752993edf78e50d9723ac95bb2565ef56c89c7a79da
	Total ES Burnt Value (\$)	\$1562315.68 (29-06-20)	0xca48a4115222ff821aba752993edf78e50d9723ac95bb2565ef56c89c7a79da



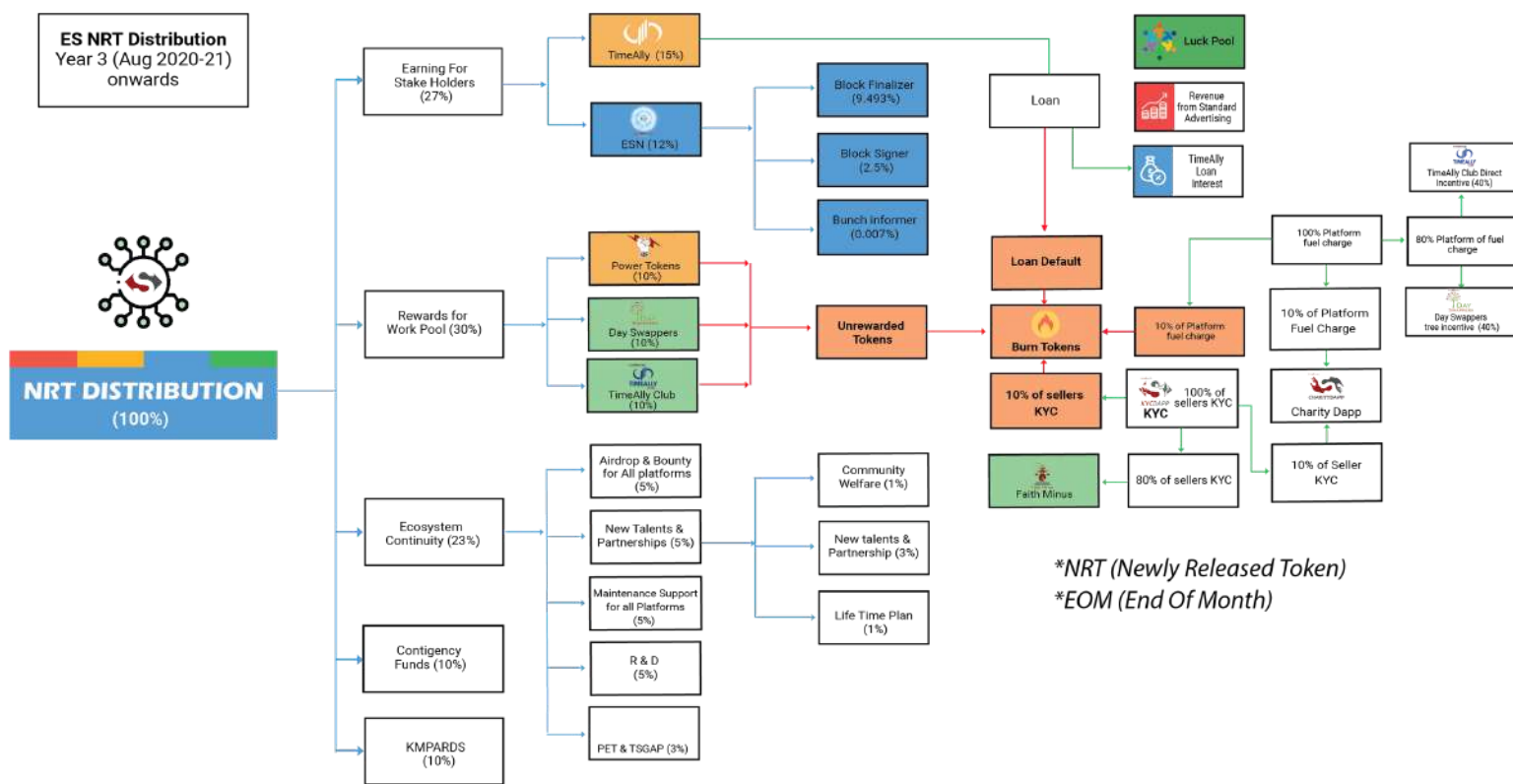
**Token ES Supply Link:** <https://etherscan.io/token/0xef1344bdf80bef3ff4428d8bec3eea4a2cf574#readContract>  
**Circulating Supply Link:** <https://etherscan.io/token/0xef1344bdf80bef3ff4428d8bec3eea4a2cf574#readContract>  
**Era Swap Etherscan Link:** <https://etherscan.io/token/0xef1344bdf80bef3ff4428d8bec3eea4a2cf574>  
**CoinMarketCap Link:** <https://coinmarketcap.com/currencies/era-swap/>  
**CoinGecko Link:** <https://www.coingecko.com/en/coins/era-swap-token>

\*All the rewards to Active Era Swap Participants, allocated from NRT, will be given as per NRT Distribution Chart.

\*EOM - End of the NRT Month (30 Days 10 Hours Cycle)



# ES NRT DISTRIBUTION CHART



## Tokens Release

All new tokens from Newly Released Token (NRT) will be released through TimeAlly DApp as per the distribution chart.

TimeAlly is a Decentralized App (DApp) which is based on pre-defined set of rules using Smart Contracts to offers multiple benefits to users, governs the generation & distribution of ES Newly released Token. All the rewards from ES NRT will be given in following formats:

- **TimeAlly 1 Life Time** - 50% ES Stakes and 50% ES
- **TimeAlly PET** - 100% WES (Wrapped Era Swap)
- **TSGAP** - 100% ES
- **Era Swap Network** - 100% WES (Wrapped Era Swap)
- **Day Swappers Tree** - 50% ES Stakes and 50% ES
- **TimeAlly Club** - 100% ES
- **Power Tokens** - 50% ES Stakes and 50% WES (Wrapped Era Swap)

## Deflation Method

The value of any token is a function of demand and supply. Though there cannot be any guarantees about future value of tokens, we have designed our ecosystem so that each and every stakeholder benefits from it. **The Supply of Era Swap token reduces by 10% every year from the previous year supply which will create scarcity.** TimeAlly DApp controls the supply distribution using smart contract to measure the token burn. Era Swap Ecosystem creates demand & TimeAlly keep the volatility in check.





**TimeAlly is carefully crafted to maximize Staker's ES Wealth by controlling supply on one side and increasing demand**

**TimeAlly** is one of the most important aspects of the Era Swap Token which meticulously controls the demand and supply dynamics. TimeAlly is a DApp which refers to a suite of protocols that define distribution of Newly Released Era Swap (ES) Tokens in a decentralized way.



## A large number of users opt for TimeAlly

This will push for the wider adoption of the platform, and hence the demand. This way value of users is expected to go up as the price per token increases.



## Fewer users opt for TimeAlly

This will ensure that the same amount of tokens are distributed among fewer members. This way the value of users is expected to go up the number of tokens per user increases.



The first version of **TimeAlly (V1)** has been deployed on Ethereum Blockchain and used **Ethereum Virtual Machine ("EVM")**, which executed code of arbitrary algorithmic complexity following standard cryptography with no downtime and keeping all created objects safe from modifying. .

**Now, Version 2 of TimeAlly (V2) DApp will be initiated on Era Swap Network (ESN).**

Every transaction triggered by users are recorded transparently & irreversibly in block confirmation so that old transactions are preserved forever for all to see. TimeAlly is an open source application & can work even without any web interface. TimeAlly incorporates **smart contract** for the reward distribution system for active participants of Era Swap.

**TimeAlly rewards token holders for locking their tokens in smart contract over the specified period.**

**TimeAlly incentivizes all the stakeholders to take part in making ESN & ESE truly distributed and transparent**

TimeAlly offers Era Swap community members with advantages of:

1. TimeAlly 1 Life Time Smart Contract (**TA 1LT**)
2. TimeAlly Personal Era Swap Teller (**TA PET**)
3. TimeAlly Super Goal Achiever Plan (**TSGAP**)





TimeAlly is the foundation for Era Community Members to participate in **Era Swap Network Proof of Stake Consensus Protocol (ESN PoS CP)** via **TimeAlly 1 Life Time Smart Contract** where stakers can stake ES and participate in growth of Era Swap Network.

## HOW TIMEALLY IMPACTS ES SUPPLY & DEMAND PROJECTION

As the demand for ES increases via multiple factors listed below, there remains fewer tokens in the circulating supply which will create a scarcity of ES and as a result, the demand increases.

As the users opting for TimeAlly 1 Life Time Smart Contract are contributing towards reducing the volatility of ES and supporting Era Swap Network (ESN), they are rewarded to withstand Network Inflation and secure their stakes in ESN.

Another subtle aspect of TimeAlly is the fact that on one side it sucks the supply out of the market and on the other side, as a by-product of reduced volatility, it boosts the demand.



## DEMAND AND SUPPLY TRIGGERS FOR ERA SWAP

### Lift the demand

Era Swap Network

Quadratic Cost of PoS Sheet

Era Swap Platforms

Day Swappers

TimeAlly Loan

Blockchain Use cases

Middlemen Free

### Controlling the Supply

Guarantor

KYC DAPP

TimeAlly

Faith Minus

Iss Time Limit

Unused Power Tokens

Unrewarded Tokens



## DEMAND PROJECTION FACTORS OF ERA SWAP

Year	NRT Distribution in mil. In ES	Burning of tokens	Total ES Supply in Mil. (Total Supply)	Available ES Supply in mil. (50% Liquid of Total Supply)	Estimate No. of users	Global Market % users on ES	Liquid ES required in Mil.	Demand to supply ratio in ES (x)
2020	737.1		1430	715				
2021	663.39	343.2	1823.9	911.95	100000	0.0007%	1080	1.184275
2022	597.051	437.736	2049.554	1024.777	250000	0.0018%	2700	2.63472
2023	537.3459	491.893	2154.71204	1077.35602	700000	0.0050%	7560	7.017179
2024	483.61131	517.1309	2174.92705	1087.463525	900000	0.0065%	9720	8.938231
2025	435.250179	521.9825	2136.555868	1068.277934	1000000	0.0072%	10800	10.10973
2026	391.7251611	512.7734	2059.032639	1029.516319	1100000	0.0079%	11880	11.5394
2027	352.552645	494.1678	1956.589967	978.2949833	1200000	0.0086%	12960	13.24754
2028	317.2973805	469.5816	1839.56102	919.7805098	1300000	0.0093%	14040	15.26451
2029	285.5676424	441.4946	1715.363755	857.6818777	1400000	0.0100%	15120	17.62891
2030	257.0108782	411.6873	1589.244097	794.6220483	1500000	0.0108%	16200	20.38705
2031	231.3097904	381.4186	1464.836392	732.4181958	1600000	0.0115%	17280	23.59308
2032	208.1788113	351.5607	1344.585448	672.292724	1700000	0.0122%	18360	27.30953
2033	187.3609302	322.7005	1230.063752	615.0318759	1800000	0.0129%	19440	31.60812
2034	168.6248372	295.2153	1122.209382	561.1046908	1900000	0.0136%	20520	36.57072
2035	151.7623535	269.3303	1021.503967	510.7519836	2000000	0.0143%	21600	42.29058
2036	136.5861181	245.161	928.1053685	464.0526843	2100000	0.0151%	22680	48.87376
2037	122.9275063	222.7453	841.9461982	420.9730991	2200000	0.0158%	23760	56.44066
2038	110.6347557	202.0671	762.8066169	381.4033085	2300000	0.0165%	24840	65.12791
2039	99.57128011	183.0736	690.3677846	345.1838923	2400000	0.0172%	25920	75.09041
2040	89.6141521	165.6883	624.2507964	312.1253982	2500000	0.0179%	27000	86.50369
2041	80.65273689	149.8202	564.0447573	282.0223787	2600000	0.0186%	28080	99.56657
2042	72.5874632	135.3707	509.3267525	254.6633762	2700000	0.0194%	29160	114.5041
2043	65.32871688	122.2384	459.6757951	229.8378975	2800000	0.0201%	30240	131.571
2044	58.79584519	110.3222	414.6823211	207.3411606	2900000	0.0208%	31320	151.0554
2045	52.91626067	99.52376	373.9544093	186.9772046	3000000	0.0215%	32400	173.2832
2046	47.62463461	89.74906	337.1216117	168.5608059	3100000	0.0222%	33480	198.6227
2047	42.86217114	80.90919	303.8370595	151.9185298	3200000	0.0229%	34560	227.4904
2048	38.57595403	72.92089	273.7783364	136.8891682	3300000	0.0237%	35640	260.3566
2049	34.71835863	65.7068	246.6474897	123.3237448	3400000	0.0244%	36720	297.7529
2050	31.24652276	59.1954	222.1704508	111.0852254	3500000	0.0251%	37800	340.2793

### Terms & Conditions:

\*Future is Unpredictable. Also, users can be participants on multiple platforms. These illustrations are to give tentative forecast assuming Userbase from 2020 to 2050

\*Considering NRT distribution chart only 50% of total NRT will come in ES Liquid

\*NRT distribution shall reduce by 10% every year

\*Burning limit of tokens is upto 2% of the total available tokens per month

\*Liquid ES required per user is considered on 36 transactions per year with an average of 300 ES per transaction



# TIMEALLY 1 LIFE TIME SMART CONTRACT

TimeAlly 1 Life Time (**TimeAlly 1LT**) is **ES Network (ESN)** first generation **TimeAlly Smart contract** build specially for the stakers who are interested in **securing Era Swap Network and their stakes**. ESN Participants can participate in ESN Proof of Stake Consensus Protocol (PoS CP) by staking ES Tokens in TimeAlly 1 Life Time Smart Contract



TimeAlly 1LT is also a perfect solution for stakers who do not want to get into day trading risk to maximize their token counts. Here the stakers who choose to stake their tokens will be rewarded from the NRT pool every NRT month based on their stake and time duration. The stakers receive up to 37% of rewards from TimeAlly 1 Life Time staking which comprises of 15% Rewards for Staking, 12% Rewards from ESN and 10% Power Tokens on Swappers Wall.

## ES REWARDS FOR TIMEALLY 1LT

- TimeAlly (15% of NRT) can be claimed 50% in TimeAlly stakes and 50% in ES
- Power Tokens (10% of NRT) can be sent 50% in TimeAlly stakes and 50% in WES (Wrapped ES)
- ESN PoS CP (12% of NRT) can be claimed in WES (Wrapped ES) if POS delegated to ESN node

## HIGHLIGHTS OF TIMEALLY 1LT STAKING:

- All existing stakers will be receiving pre-activated upgraded TimeAlly staking plan on ESN. There will not be any transition loss of staking rewards due to delay in staking in ESN.
- New TimeAlly uses distributed fund pattern which mitigates the risk of total funds loss in an event of breach.
- This is a smart contract design security recommended from ConsenSys.
- Stakers can use ES to pay for their transaction fee instead of their current requirement of paying in ETH.
- Stakers will be eligible to participate in Era Swap mining by delegating their PoS to a validator node.
- There is special dynamic IssTime limit awarded to every TimeAlly stake Holders as per their behavior and action.
- TA 1LT need to be extended every 12 months. Any other user can come and **press Extend Function** for each other in these 12 months. The primary responsibility of Extending remains on Staker himself.
- **In case, a staker fails to press extend function, then the staker will not be receiving any further NRT Rewards and will have access only to IssTime Limit of the stake**
- **Stakers can split & transfer their pre-activated TimeAlly Smart Contract to other users from Day 1 and the rewards for new owner starts from next NRT month**
- In TimeAlly 1 Life Time there are no charges for the Transfers by stakers but there are charges for every split which the staker makes
- For every transfer there will be a charge depending on the anniversary of the stake. 3% for  $\leq 1$  year, 2% for  $\leq 2$  years, 1% for  $\leq 3$  years, while  $> 3$  years there will not be any transfer charge, these charges collected will be burned.
- In case of transfer all unclaimed rewards are also transferred to the recipient
- Every split will create a new contract on current timestamp, unclaimed rewards shall remain in the initial contract. Hence it is not necessary to claim rewards before splitting.



## TIMEALLY 1 LIFE TIME LOAN

All Time Ally 1 Life Time Stake holders will get opportunity to avail TimeAlly loan which they have to repay back within 30 Day 10 Hours or before end of ES NRT Month (whichever is earlier). There will be an interest of 0.1% per day on the loan amount.

If the staker fails to repay back the TimeAlly Loan Principle amount and interest, then the stakes of the staker will be burnt. The amount of Loan, for which an individual staker is eligible, depends on his IssTime Limit, however it cannot be more than 97% of the current staking. As per the IssTime Limit, a staker can claim TimeAlly Loan amount. Also, After repayment of loan, staker will be eligible to claim rewards for the month and there will be a cool-off period of 1 complete NRT month to become eligible for the next Loan

**\*The Interest paid by the borrower in TimeAlly 1LT Loan will go to the Luck Pool of ES NRT**

## ISSTIME LIMIT



IssTime limit decides the individual loan limit of a staker in TimeAlly 1 Life Time Smart Contract. Based on his / her IssTime Limit a staker can claim TimeAlly Loan. IssTime Limit gives liquidity to stakers for utility maximization of Era Swap Ecosystem rather than profit maximization. IssTime disincentive short-term speculation, price volatility and dumping.

IssTime Limit depends on Four levers (**A + B + C + D = IssTime Limit**) which are as follows:

**Lever A:** IssTime Liquid Limit shall increase by **225% for restaking while 100%** for claiming in prepaid ES for **Liquid ES rewards received in TimeAlly**.

**Lever B:** IssTime Liquid Limit shall increase by **225% for restaking while 100%** for claiming in prepaid ES for **Liquid ES rewards received in Day Swappers**.

**Lever C:** IssTime Liquid Limit shall increase by **125% for restaking while 100%** for claiming in prepaid ES for **Liquid ES rewards received in TimeAlly Club**.

**Lever D:** IssTime Liquid Limit shall increase with Active user base of ecosystem. On every 10,000 active users for the month IssTime limit will **increase by 1%** for the next month for all stakers. This limit will not be carried forward and be considered as per actual active users. eg. If in a month there are **1,00,000 Active Users**, then an additional 10% IssTime Liquid Limit shall increase for next month.

## FEATURES OF ISSTIME LIMIT:

- When a staker splits his TimeAlly stakes, his current IssTime Limit also splits in the same proportion of the split ES amount.
- IssTime Liquid Limit shall increase with Active user base of ecosystem. On every 10000 active users for the month IssTime limit will increase by 1% for the next month for all stakers. This limit will not be carried forward and be considered as per actual active users. eg. If in a month there are 100000 active users, then an additional 10% IssTime Liquid Limit shall increase for next month.
- IssTime Liquid Limit shall increase with 225% on restake of individuals Liquid TimeAlly (7.5% NRT) rewards and Day Swappers liquid rewards.
- IssTime Liquid Limit shall increase with 125% on restake of individuals TimeAlly Club rewards.





- IssTime Liquid Limit shall increase with 100% on conversion of individuals Liquid TimeAlly (7.5% NRT) rewards, TimeAlly Club and Day Swappers liquid rewards into WES stakes.
- Loan can be taken for a period of 1 day to 30 days 10 hours with 0.1% interest per day on the loan amount for one NRT month , if rewards are unclaimed for the respective month at the time of applying loan.
- After repayment of loan, staker will be eligible to claim rewards for the month and there will be a cool-off period of 1 complete NRT month to become eligible for the next Loan
- Maximum IssTime Liquid Limit for any user is 97% of his total stakings.
- When interest repaid, the interest received will be added to Luck Pool
- Stakes will be burnt in next NRT month incase of default for Interest and Loan repayment.
- Incase of submission of intent to willfully default loan at the time of applying loan or before end of loan period then users will receive 1% additional reward. At the end of the loan if the user doesn't volunteer to inform about loan default then 1% reward of tokens to be burnt will be awarded to the user who informs about the same on first come first serve basis.
- Incase a person wishes to exit in liquid with IssTime Limit he does not need to pay the interest.
- There will be activation, TimeAlly Club and Day Swappers reward on WES and liquid top-ups. However, there will not be any activation, TimeAlly Club and Day Swappers reward on split, transfer, merger, acquisition and restake cases.
- Users can choose to maintain 1 master TimeAlly contract on 1 wallet and merge other contracts as top-up. It reduces the hassle of managing multiple TimeAlly contracts. New top-up contracts shouldn't have any unclaimed rewards at the time of merging with master contract as the unclaimed rewards cannot be recovered at the time of merging. All IssTime Liquid Limit of new top-up contracts shall be added into the the master contract.

## NOMINEE & APPOINTEE

To preserve the legacy for their loved ones, the stakers can nominate Nominee for their TimeAlly Stakings in-case they are not around themselves to benefit from TimeAlly 1 Life Time. The **Nominee**, will be receiving all the benefits of TimeAlly in case of uncertainty. In-case the nominee is a minor, the staker can appoint **Appointee**.

## DISCONTINUATION FROM TIMEALLY 1LT

TimeAlly 1 Life Time Smart Contracts cannot be terminated, however, a TimeAlly 1LT staker can split and transfer their 100% TA stakes to any other user directly from Day 1 of deployment. For every transfer, there will be a charge depending on the anniversary of the stake. 3% for  $\leq 1$  year, 2% for  $\leq 2$  years, 1% for  $\leq 3$  years, while  $> 3$  years there will not be any transfer charge, these charges collected will be burned.

Maximum Loan a user can take is 97% of his total stakings provided that he has equivalent IssTime Liquid Limit. Remaining Stakes will be burnt in next NRT month in case of default for Interest and Loan repayment. In case of submission of intent to willful default of loan at the time of applying for loan or before end of loan period then users will receive 1% additional reward of total staking. At the end of the loan if the user doesn't volunteer to inform about loan default then 1% reward of tokens to be burnt will be awarded to the user who informs about the same on first come first server basis.





# TIMEALLY 1 LIFE TIME ILLUSTRATION

# 1LIFE TIME



NRT Year Aug 2020 - July 2021 (ES)	737100000
Global Stakings (ES)	1020552246
ES PoS CP Staking (ES)	737100000
Self Staking (ES)	10000
Restaking Rewards Monthly	All Rewards
Day Swappers Tree Liquid reward per month (ES)	500
Use of Day Swappers Liquid reward	Restake
TimeAlly Club Rewards per Month	500
Use of TimeAlly Club reward	Restake

Milestone Achievements	Year
TimeAlly 100% Split and Transfer option	Year 0
100% Rewards Receive exceeds initial staking	Year 2
IssTime Liquid Limit - 100% All 4 levers (A+ B + C + D)	Year 2
IssTime Liquid Limit - 100% 225% of all Liquid ES restaked (Lever A)	Year 3
IssTime Liquid Limit - 100% 225% of Day Swappers (Lever B)	Year 1
IssTime Liquid Limit - 100% 125% of TimeAlly Club (Lever C)	Year 2
IssTime Liquid Limit - 97% 1 million Active Users Acquisition (Lever D)	Year 10

TimeAlly 1 Life Time	Assumed Active Userbase Count of Era Swap Ecosystem	Total Rewards received 37% NRT (Cumulative Month on Month basis) including ESN PoS CP, TimeAlly, Power Tokens in ES	TimeAlly Liquid Rewards received 7.5% NRT Yearly (Cumulative Month on Month basis) in ES	TimeAlly Staked Rewards received 7.5% NRT Yearly (Cumulative Month on Month basis) in ES	Power Tokens Rewards received 10% NRT Yearly (Cumulative Month on Month basis) in ES	ESN Miners reward in Wrapped ES (WES) (NRT-12%) (Cumulative Month on Month basis)	Total Wealth Accumulated by restake of 27% NRT (Cumulative Month on Month basis) including ESN PoS CP and TimeAlly in ES	Total Wealth Accumulated in ES (Including Day Swappers and TimeAlly Club)	Split and Transfer Charges of the amount Transferred in ES
End of Year Calculations									
Year 1	4000.000	5103.611	919.799	919.799	1226.399	2037.613	13877.212	25877.212	3%
Year 2	100000.000	14378.132	2591.301	2591.301	3455.069	5740.461	20923.064	44923.064	2%
Year 3	220000.000	27701.658	4992.536	4992.536	6656.715	11059.871	31044.943	67044.943	1%
Year 4	340000.000	44828.818	8079.282	8079.282	10772.376	17897.879	44056.442	92056.442	0%
Year 5	460000.000	65413.239	11789.113	11789.113	15718.817	26116.197	59694.422	119694.422	0%
Year 6	580000.000	89033.478	16046.074	16046.074	21394.766	35546.563	77638.712	149638.712	0%
Year 7	700000.000	115219.632	20765.479	20765.479	27687.305	46001.370	97532.327	181532.327	0%
Year 8	820000.000	143478.430	25858.426	25858.426	34477.901	57283.678	119000.529	215000.529	0%
Year 9	940000.000	173315.276	31235.777	31235.777	41647.702	69196.021	141667.574	249667.574	0%
Year 10	1060000.000	204252.387	36811.423	36811.423	49081.897	81547.644	165170.490	285170.490	0%
Year 11	1180000.000	235842.698	42504.792	42504.792	56673.056	94160.057	189169.642	321169.642	0%
Year 12	1300000.000	267679.642	48242.611	48242.611	64323.482	106870.938	213356.161	357356.161	0%
Year 13	1420000.000	299403.197	53959.995	53959.995	71946.659	119536.548	237456.537	393456.537	0%
Year 14	1540000.000	330702.743	59600.961	59600.961	79467.948	132032.874	261234.795	429234.795	0%
Year 15	1660000.000	361317.359	65118.485	65118.485	86824.647	144255.741	284492.711	464492.711	0%
Year 16	1780000.000	391034.152	70474.200	70474.200	93965.600	156120.153	307068.552	499068.552	0%
Year 17	1900000.000	419685.207	75637.841	75637.841	100850.455	167559.069	328834.752	532834.752	0%
Year 18	2020000.000	447143.626	80586.540	80586.540	107448.720	178521.827	349694.906	565694.906	0%
Year 19	2140000.000	473319.062	85304.012	85304.012	113738.683	188972.354	369580.379	597580.379	0%
Year 20	2260000.000	498153.067	89779.725	89779.725	119706.300	198887.316	388446.766	628446.766	0%
Year 21	2380000.000	521614.488	94008.064	94008.064	125344.085	208254.274	406270.402	658270.402	0%
Year 22	2500000.000	543695.073	97987.541	97987.541	130650.055	217069.935	423045.017	687045.017	0%
Year 23	2620000.000	564405.400	101720.064	101720.064	135626.752	225338.521	438778.649	714778.649	0%
Year 24	2740000.000	583771.198	105210.268	105210.268	140280.358	233070.304	453490.840	741490.840	0%
Year 25	2860000.000	601830.070	108464.932	108464.932	144619.909	240280.298	467210.161	767210.161	0%
Year 26	2980000.000	618628.656	111492.460	111492.460	148656.613	246987.123	479972.043	791972.043	0%
Year 27	3100000.000	634220.175	114302.444	114302.444	152403.259	253212.028	491816.916	815816.916	0%
Year 28	3220000.000	648662.370	116905.291	116905.291	155873.722	258978.066	502788.648	838788.648	0%
Year 29	3340000.000	662015.779	119311.912	119311.912	159082.549	264309.406	512933.230	860933.230	0%
Year 30	3460000.000	674342.325	121533.466	121533.466	162044.621	269230.772	522297.704	882297.704	0%

## Terms and Conditions:

- => All Rewards shall be distributed end of the NRT month (30 Days 10 Hours).
- => Global 37% NRT for 3rd year is 272.727 mil. ES and will reduce by 10% every year.
- => TimeAlly (15% of NRT) can be claimed 50% TimeAlly stakes and 50% in ES Liquid.
- => Power Tokens (10% of NRT) can be sent in 50% TimeAlly stakes and 50% WES stakes.
- => ESN PoS CP (12% of NRT) can be claimed in 100% WES stakes if PoS delegated to ESN node.

## TERMS AND CONDITIONS For Split and Transfer:

- => Stakers can split & transfer their pre-activated TimeAlly smart contract to other users from Day 1 and the rewards for new owner start from next NRT month.
- => For every transfer there will be a charge depending on the anniversary of the stake. 3% for <= 1 year, 2% for <= 2 years, 1% for <= 3 years, while > 3 years there will not be any transfer charge, these charges collected will be burned.
- => Incase of transfer all unclaimed rewards are also transferred to the recipient
- => Every split will create a new contract on current timestamp, unclaimed rewards shall remain in the initial contract. Hence it is not necessary to claim rewards before splitting.

## Highlights:

- => All existing stakers will be receiving preactivated upgraded TimeAlly staking plan on ESN. There will not be any transition loss of staking rewards due to delay in staking in ESN.
- => Stakers can use ES to pay for their transaction fee instead of their current requirement of paying in ether.
- => Stakers will be eligible to participate in Era Swap mining by delegating their PoS to a validator node.
- => There is special dynamic IssTime limit awarded to every TimeAlly stake Holders as per their behavior and action.
- => Stakers can split & transfer their pre-activated TimeAlly smart contract to other users from Day 1
- => New TimeAlly uses distributed fund pattern which mitigates the risk of total funds loss in an event of breach.
- => This is a smart contract design security recommended from ConsenSys.

\*Illustration depicts tentative results for Restaking done on time.



# TIMEALLY 1 LIFE TIME ILLUSTRATION (ISSTIME)



ISSTIME  
era swap

ISSTIME

NRT Year Aug 2020 - July 2021 (ES)	737100000
Global Stakings (ES)	1020552246
ES PoS CP Staking (ES)	737100000
Self Staking (ES)	10000
Restaking Rewards Monthly	All Rewards
Day Swappers Tree Liquid reward per month (ES)	500
Use of Day Swappers Liquid reward	Restake
TimeAlly Club Rewards per month	500
Use of TimeAlly Club reward	Restake

Milestone Achievements	Year
TimeAlly 100% Split and Transfer option	Year 0
100% Rewards Receive exceeds initial staking	Year 2
IssTime Liquid Limit - 100% All 4 levers (A+ B + C + D)	Year 2
IssTime Liquid Limit - 100% 225% of all Liquid ES restaked (Lever A)	Year 3
IssTime Liquid Limit - 100% 225% of Day Swappers (Lever B)	Year 1
IssTime Liquid Limit - 100% 125% of TimeAlly Club (Lever C)	Year 2
IssTime Liquid Limit - 97% 1 million Active Users Acquisition (Lever D)	Year 10

IssTime Liquid Limit						
TimeAlly 1 Life Time	Increased by 225% for restaking while 100% for claiming in WES for Liquid ES rewards received in TimeAlly. (Lever A)	Increases by 225% for restaking while 100% for claiming in WES for every Liquid ES rewards received in Day Swappers. (Lever B)	Increases by 125% for restaking while 100% for claiming in WES for every Liquid ES rewards received in TimeAlly Club. (Lever C)	IssTime Liquid limit in ES (Active Users) (Lever D)	IssTime % Liquid limit of Current staking (A+B+C+D)	Total IssTime Liquid limit of Initial Staked amount in ES (A+B+C+D)
Year 1	2069.55	13500.00	7500	103.509	90%	23173.057
Year 2	5830.43	27000	15000.00	4492.306	97%	43575.372
Year 3	11233.21	40500	22500	14749.888	97%	65033.595
Year 4	18178.38	54000	30000	31299.190	97%	89294.749
Year 5	26525.50	67500	37500	55059.434	97%	116103.589
Year 6	36103.67	81000	45000	86790.453	97%	145149.550
Year 7	46722.33	94500	52500	127072.629	97%	176086.357
Year 8	58181.46	108000	60000	176300.434	97%	208550.513
Year 9	70280.50	121500	67500	234687.519	97%	242177.547
Year 10	82825.70	135000	75000	276615.375	97%	276615.375
Year 11	95635.78	148500	82500	311534.553	97%	311534.553
Year 12	108545.88	162000	90000	346635.476	97%	346635.476
Year 13	121409.99	175500	97500	381652.841	97%	381652.841
Year 14	134102.16	189000	105000	416357.751	97%	416357.751
Year 15	146516.59	202500	112500	450557.930	97%	450557.930
Year 16	158566.95	216000	120000	484096.495	97%	484096.495
Year 17	170185.14	229500	127500	516849.709	97%	516849.709
Year 18	181319.71	243000	135000	548724.059	97%	548724.059
Year 19	191934.03	256500	142500	579652.967	97%	579652.967
Year 20	202004.38	270000	150000	609593.363	97%	609593.363
Year 21	211518.14	283500	157500	638522.290	97%	638522.290
Year 22	220471.97	297000	165000	666433.667	97%	666433.667
Year 23	228870.14	310500	172500	693335.289	97%	693335.289
Year 24	236723.10	324000	180000	719246.115	97%	719246.115
Year 25	244046.10	337500	187500	744193.857	97%	744193.857
Year 26	250858.03	351000	195000	768212.881	97%	768212.881
Year 27	257180.50	364500	202500	791342.409	97%	791342.409
Year 28	263036.91	378000	210000	813624.989	97%	813624.989
Year 29	268451.80	391500	217500	835105.233	97%	835105.233
Year 30	273450.30	405000	225000	855828.773	97%	855828.773

## Terms and Conditions for TimeAlly Loan:

- => When a staker splits his TimeAlly stakes, his current IssTime Limit also splits in the same proportion of the split ES amount.
- => IssTime Liquid Limit shall increase with Active user base of ecosystem. On every 10000 active users for the month IssTime limit will increase by 1% for the next month for all stakers. This limit will not be carried forward and be considered as per actual active users. eg. If in a month there are 100000 active users, then an additional 10% IssTime Liquid Limit shall increase for next month.
- => IssTime Liquid Limit shall increase with 225% on restake of individuals Liquid TimeAlly (7.5% NRT) rewards and Day Swappers liquid rewards.
- => IssTime Liquid Limit shall increase with 125% on restake of individuals TimeAlly Club rewards.
- => IssTime Liquid Limit shall increase with 100% on conversion of individuals Liquid TimeAlly (7.5% NRT) rewards, TimeAlly Club and Day Swappers liquid rewards into WES stakes.
- => Loan can be taken for a period of 1 day to 30 days 10 hours with 0.1% interest per day on the loan amount for one NRT month, if rewards are unclaimed for the respective month at the time of applying loan.
- => After repayment of loan, staker will be eligible to claim rewards for the month and there will be a cool-off period of 1 complete NRT month to become eligible for the next Loan
- => Maximum IssTime Liquid Limit for any user is 97% of his total stakings.
- => When interest repaid, the interest received will be added to Luck Pool
- => Stakes will be burnt in next NRT month in case of default for Interest and Loan repayment.
- => In case of submission of intent to willfully default loan at the time of applying loan or before end of loan period then users will receive 1% additional reward. At the end of the loan if the user doesn't volunteer to inform about loan default then 1% reward of tokens to be burnt will be awarded to the user who informs about the same on first come first serve basis.
- => In case a person wishes to exit in liquid with IssTime Limit he does not need to pay the interest.
- => There will be activation, TimeAlly Club and Dayswapper reward on WES and liquid top-ups. However, there will not be any activation, TimeAlly Club and Dayswapper reward on split, transfer, merger, acquisition and restake cases.
- => Users can choose to maintain 1 master TimeAlly contract on 1 wallet and merge other contracts as top-up. It reduces the hassle of managing multiple TimeAlly contracts. New top-up contracts shouldn't have any unclaimed rewards at the time of merging with master contract as the unclaimed rewards cannot be recovered at the time of merging. All IssTime Liquid Limit of new top-up contracts shall be added into the master contract.



## TIMEALLY ASSURANCE

TimeAlly assurance has launched **TimeAlly Super Goal Achiever Plan (TSGAP)** & **TimeAlly Personal Era Swap Teller (PET)** for Era Swap Community, a secured **SAP (Systematic Accumulation Plan)**, since the future benefits of the Staker are stored safely in Smart Contract on Day 1 of beginning of annuity which is transparent & most secured system driven using Blockchain.

TimeAlly will also create provision for users to get their premium adjustment from TimeAlly payouts, TimeAlly Rewards & TimeAlly Power. The Team is continuously working on areas like Blockchain based **DeFi (Decentralized Finance)** which is transparent, approved by multiple authorized signatories & Beneficiaries can claim benefits directly from Blockchain authenticated reports.



**Also, there is added advantages for the Legacy where a staker can add multiple Nominee:**

**Nominee:** Any number of nominees can be added by the staker. A nominee who gets the benefit of the plan in case, the staker doesn't withdraw benefit continuously for 12 months. If the staker doesn't withdraw benefits till 1 year, then nominee can withdraw these benefits (in case there is no appointee selected). Any Nominee can also deposit SAP on behalf of the staker

**Appointee:** Appointee is the custodian who can facilitate prepayment of benefits to the nominee. Any number of appointees can be added. With the approval of min 51% appointee, the appointee can prepay the benefits for the nominee in case the staker doesn't withdraw benefits continuously for 6 months. The appointee can vote any anytime. If staker doesn't withdraw benefits up to 6 months then with the consensus of appointees, nominees could be able to withdraw before the 1-year waiting period criteria.

## TIMEALLY PET

<https://www.timeally.io/pet>

**TimeAlly PET** stands for **TimeAlly Personal Era Swap Teller** which assures Monthly annuity gain consistently for 5 Annuity Years based on your Monthly Goals achievement. TimeAlly PET assures 100% Additional bounty to stakers for 12 months ES Accumulation Guaranteed by PET Smart Contract. Pet provides smart contract based safety, security & stability of your accumulation & rewards you per predefined set of rules.



### TIMEALLY PET 10000 ES ILLUSTRATION FOR 12 MONTHS

Minimum Staking Commitment per Month	10000	Annuity Benefit	12.0%
Total Staked Count for 12 months (ES)		ES Count	
Total accumulation Staking in 12 months (ES)		120000.00	
PET Bounty Gained in 12 months (ES)		120000.00	
Gross Staking in 12 months (ES)		240000.00	
At 5 years (WES)		WES Count	% of ES Accumulation
Gross Annuity Benefits in 60 Months (WES)		144000.00	120.00%
Gross PET Bonus Benefits in 12 Trenches (WES)		240000.00	200.00%
<b>GROSS TOTAL BENEFIT IN 60 MONTHS (WES)</b>		<b>384000.00</b>	<b>320.00%</b>

**Illustration depicts 100% disciplined accumulation results.**





## WHY TIMEALLY PET SMART CONTRACT

### Companion

100% Additional bounty for your next 12 month ES Accumulation Guaranteed by PET Smart Contract.

### Partner

Assures Monthly annuity gain consistently for 5 Annuity Years based on your Monthly Goals achievement.

### Empower

Pet provides smart contract based safety, security, complete control & transparency of your monthly accumulation & rewards you per predefined set of rules.

### Flexible Rewards

You can choose your PET plan as per your Monthly Goals & & PET will reward your accumulation behavior systematically.

### LIMITED PERIOD SOLUTION!!!

PET is limited period Solution applicable for 20000000 (20 Million ES) for Third ES NRT year or As per Existing offer.



## PERSONAL ERA SWAP TELLER (PET) SALIENT FEATURES

### 50-50

PET Starts with Systematic Accumulation Plan (SAP) of minimum 500 ES commitment and above (Please refer to PET Annuity Chart). PET Bounty will accumulate equal count of ES as per Monthly Target Commitment achieved as per the Staker

### FREQUENCY MODE

The staker also has the ability to make the entire commitment of 3 months, 6 months or 12 months in a single transaction. This feature can only be availed if users staking meets the target for the respective months

### MONTHLY TARGET COMMITMENT

Monthly target commitment refers to the total ES to be staked within 30 days 10 hours. One needs to select his Monthly target commitment from the annuity chart at the start of the plan.

### DEFAULT MONTHLY COMMITMENT

If the staker is unable to reach 50% of the monthly Target Commitment ES then he/she shall not qualify for PET Bounty nor shall he qualify for the PET bonus. The total staking ES count shall carry forward to the following month and a default shall be considered for that corresponding month.

### PASSING PET TARGET COMMITMENT %

The Passing PET target commitment will be minimum 50% of the Monthly target commitment of ES to qualify for PET Bonus. If the monthly target commitment is not achieved and PET target commitment is achieved then the user shall be provided with the PET Smart Contract Contribution but shall not be awarded the PET Bonus and those respective tokens shall be burned for the corresponding month.

### TOP-UPS

If the user stakes more than the monthly target commitment he/she shall receive 50% of the PET Bounty on the staking above his desired Monthly Target Commitment.

### PET BONUS

PET Bonus will be released in 12 equal intervals of 5 months each over a period of 5 years as per the Monthly Target Commitment achievement in accumulation year. The PET Bonus pertaining to the 1st month shall be awarded on the 60th month of Annuity, the 2nd month shall be awarded on the 55th month of Annuity, correspondingly the 12th month shall be provided on the end of 5th month of Annuity.

### MONTHLY TARGET ACHIEVEMENT BENEFITS

The staker has the flexibility to stake within 30 days 10 hours till the next window opens. The staker will have to meet the Monthly Target commitment to receive the PET Bonus as well as the PET Bounty

**\*The stakers will be allocated TimeAlly PET rewards in WES only.**



## **TIMEALLY SUPER GOAL ACHIEVER PLAN (TSGAP)**

<https://www.timeally.io/pdf/TSGAP.pdf>

It is Decentralized Smart Contract based Systematic Accumulation Plan (SAP). TSGAP Incentivize Stakers behavior for staking regularly in a disciplined way. TSGAP assures Annuity on ES staked every month for next 9 years. The entire staked Era Swap (ES) is stored in a trustless smart contract system. This can't be double spend & moved out for any other purpose as this is completely managed by Blockchain based smart contract. The entire staked Era Swap (ES) is stored in a trustless smart contract system.



### **Systematic Accumulation Plan**

TimeAlly Super Goal Achiever Plan (TSGAP) is Decentralized Smart Contract based Systematic Accumulation Plan (SAP). TSGAP Incentivize Stakers behavior for staking regularly in a disciplined way

### **Smart Contract**

The entire staked Era Swap(ES) is stored in a trustless smart contract system . This can't be double spend & moved out for any other purpose as this is completely managed by Blockchain based smart contract

### **Stored Benefits**

The future benefits of the Staker are stored safely in Smart Contract on Day 1 of beginning of annuity which is transparent & most secured system driven

### **Total Control**

The assets will be distributed at different interval time as per the Smart Contract logics. The withdrawal of eligible benefits is in total control of the Staker

### **Bonus & Annuity Guranteed**

Will receive Annuity on ES staked every month for the same month in next 9 years. Booster Bonus on total ES staked of 1st Year gets released timely in equal %age on every 36th /72nd/108th Month

### **Limited Period Offer**

TSGAP is limited period Solution viable for 100,00000 ( 10 Million ES). Once 10 Millions ES are accepted in TSGAP smart contract this contract won't accept any more Staking's in the plan.

## **TIMEALLY SAP (TSGAP) 10000 ES ILLUSTRATION FOR 12 MONTHS**

TSGAP	Commitment for 12 Months	Monthly Annuity %
Monthly ES to be Staked for 12 months	10000	22%
Staked Amount for 12 Months (ES)	ES Count	
Total Initial Staking in 12 months (ES)	120000.00	
Cumulated Returns at 108 Months (ES)	ES Count	% of ES Accumulation
Gross Annuity Benifits in 108 Months (ES)	237600.00	198%
Gross Booster Bonus Benifits every 3rd year (ES)	120000.00	100%
Gross Benefits Untill 9th Year (ES)	357600.00	298%

**\*The stakers will be allocated TimeAlly TSGAP rewards in ES only. Illustration depicts 100% disciplined accumulation results.**





## TSGAP SAP & ANNUITY CHART IN ES

TSGAP ES SAP for 12 months	Yearly Annuity for the month in ES
100 to 499 ES	16%
500 to 999 ES	18%
1000 to 9999 ES	20%
10000 to 99999 ES	22%
100000 ES and above	24%

### HOW TSGAP WORKS

- SAP Starts with Minimum 100 ES and above ( Please refer to TSGAP SAP & Annuity Chart in ES)

#### Grace Period:

Once you have deposited ES in TSGAP for first month accumulation, your window to deposit 2nd Month accumulation will open for 30Days 10 hours. If SAP not deposited within 30 days 10hours as per the due then there is grace of 10 days to deposit the SAP. After Grace period the Staker will not be allowed to deposit for the respective month . The opportunity to deposit ES for the respective month will be lost forever. If failed then there will be no payout for the month. The window will open now for the new deposit.

- The Grace period to deposit monthly accumulation is 10 Days. If staked SAP in Grace period then there will 1% deduction of Total Staking from first Booster bonus.
- If defaulted to stake min SAP as per plan chosen then there will be 2% deduction of total Staking from first Booster bonus that is, TSGAP SAP 1000 ES for 12 months scenario => if Staker defaults to stake for 2 months then it will  $2\text{months} \times 2\% = 4\%$  ES will be deducted from first Booster bonus. The total Annuity returns 9 years & Boosters benefits in SAP 1000 will be ES 28000(280%) – 4 % ES from first booster bonus = 27600.00 ES (276%) returns which he/she will get in 9 years due to default of SAP for 2 months.
- That is,TSGAP SAP 1000 ES for 12 months scenario => if Staker defaults to stake for 10 months then it will  $10\text{ months} \times 2\% = 20\%$  ES will be deducted from first Booster bonus. The total Annuity returns 9 years & Boosters benefits in SAP 1000 will be 5600 ES (280%)– 20% ES from first booster bonus= 5200.00 ES (260% )returns which he/she will get in 9 years due to default of SAP for 10 months.
- Nominee & Appointee features for stake holders

#### Top up:

- If one tries to deposit 11 months SAP in one go than the purpose of doing SAP which is entering market at different months & ES rate will not be achieved. If one deposits more than SAP commitment than additional ES deposited will be counted as TOP Up.
- Additional TOP up will be applicable only as per the plan chosen at the time of contract acceptance by the staker as per TSGAP SAP & Annuity Chart

**\*The duration of the month is 30 days 10 hours from the first staking day & time.**



# **ERA SWAP (ES) UTILITY GUIDANCE**

## **Is Era Swap an exchange?**

Era Swap is not an Exchange that converts Virtual Currency in real currency, funds, or any substitute of currency. Era Swap ecosystem is a peer to peer decentralized utility platforms which are powered by Era Swap Utility token on Era Swap Blockchain Network.

## **How NRT is produced? / How New NRT is generated?**

ESN implements Proof of Stake Consensus Protocol (PoS CP) which will have a maximum supply of 9,100,000,000 ES and every time a new block is added to blockchain new token is produced from the New Released Token (NRT) Supply as per the Smart contracts.

## **What are Factors driving Era Swap Market value?**

Every participant or purchaser of Era Swap should rely completely upon external Market forces dictating the value of Era Swap instead of relying on Promoters/Developers to enhance the value of Era Swap.

## **Is there guaranteed profit in ES?**

Securities law protection is not applicable to participants/stakers here because in ESN they can exercise control over their funds and ES generating activity, with their own efforts that will determine their success whether or not the enterprise is successful.

## **Is Era Swap a security or Utility Token?**

The count of Era Swap remains intact in users wallet there is no loss of ES automatically. There is also no money loss associated with ES, as ES is used only inside Era Swap Ecosystem by Era Swap Community members for peer-to-peer exchange.

\*Read the Howey Test

<https://eraswaptoken.io/era-swap-howey-test-letter-august7-2018.php>



# ERA SWAP ECOSYSTEM

## › Multi-Purpose

Era Swap Decentralized Ecosystem includes multiple utility platform built on Era Swap Network where Community can exchange services, claim rewards and offer discounts using Era Swap utility tokens

## › Single Sign-On

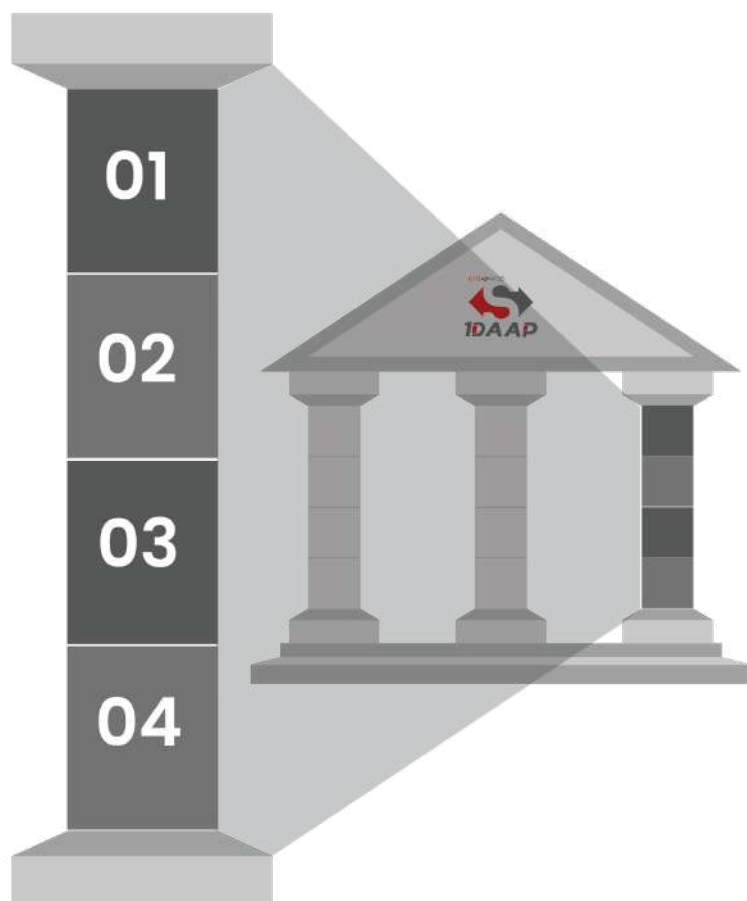
The users can login into Era Swap Ecosystem with their Decentralized wallet through Era Swap life on Web and through 1 DAAP App on mobile to access multiple P2P ESE Platforms with just one click.

## › Elimination of the Central Point of Control

Era Swap Ecosystem is powered on Blockchain; a Trustless, Decentralized, Transparent Platform using Smart Contracts. So intermediaries are eliminated from the equation and Centralized forces will no longer be in control of Users Data

## › Incentivize Users

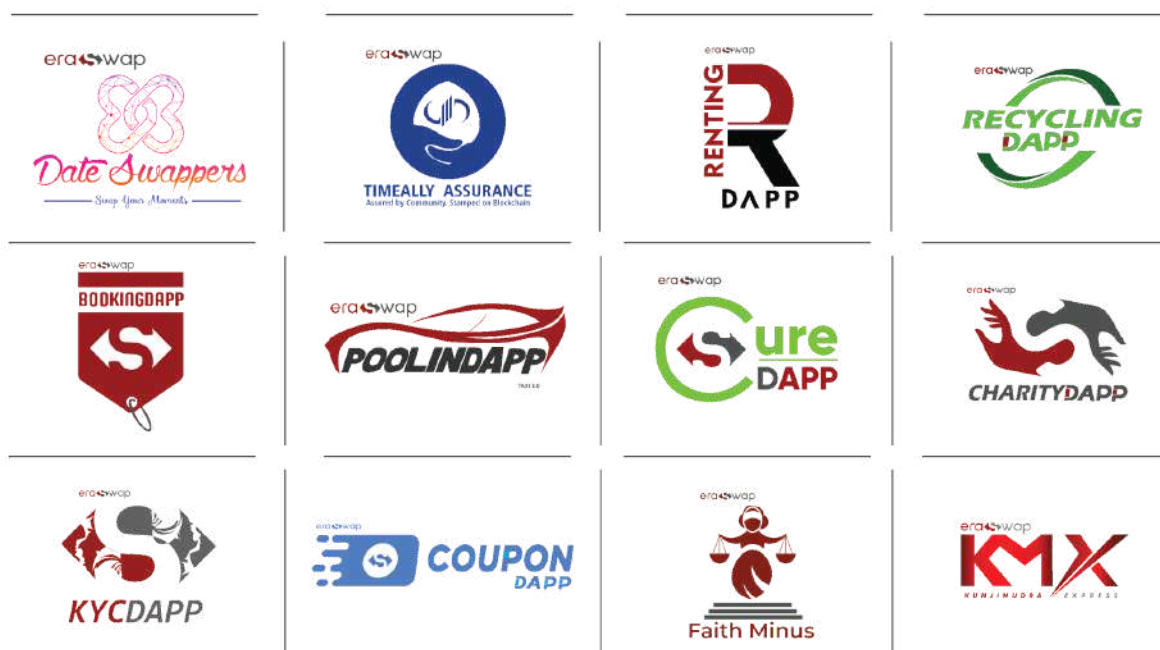
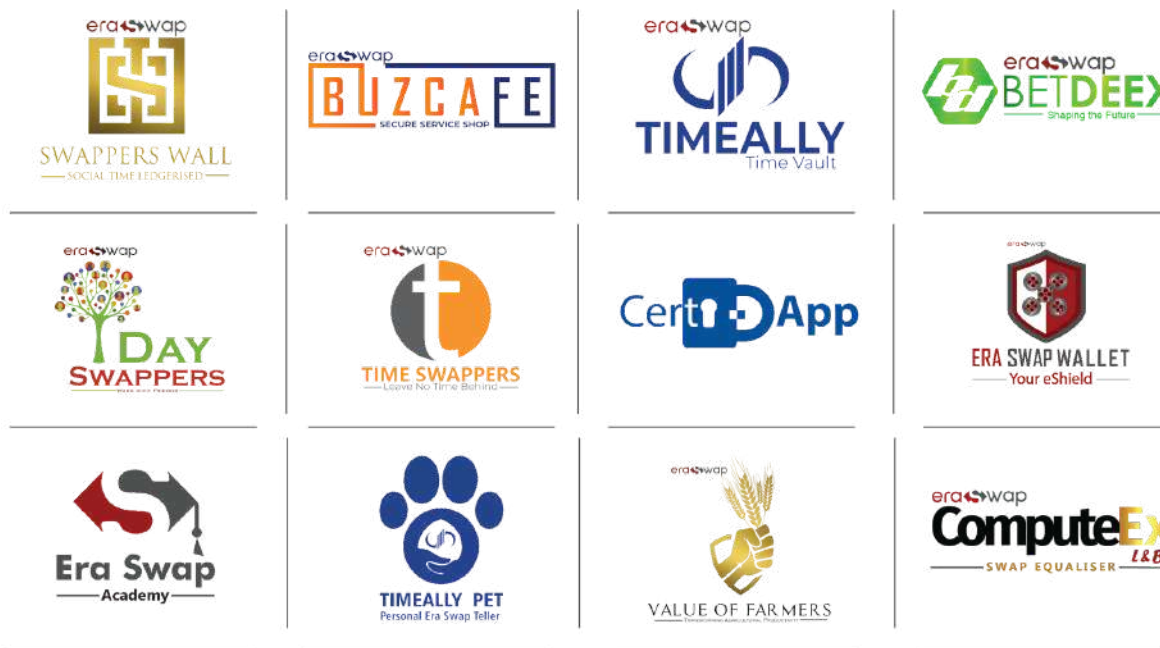
Era Swap Ecosystem uses Smart Contract driven rewards System to incentivize community members for their contribution to ESE via access and exchange of multiple Peer to Peer Utility Services using ES token





# ERA SWAP UTILITY PLATFORMS

Era Swap has 20+ decentralized platforms integrated in one ecosystem using one Utility token ES & one Blockchain Network which are free platforms & rewards the community



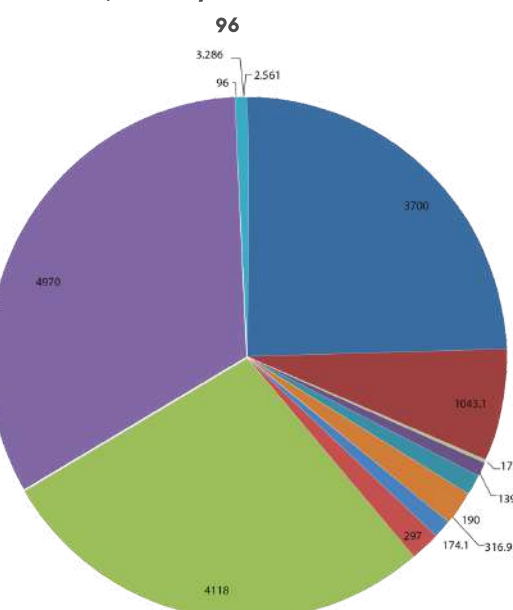


# CURRENT INDUSTRY MARKET SIZE

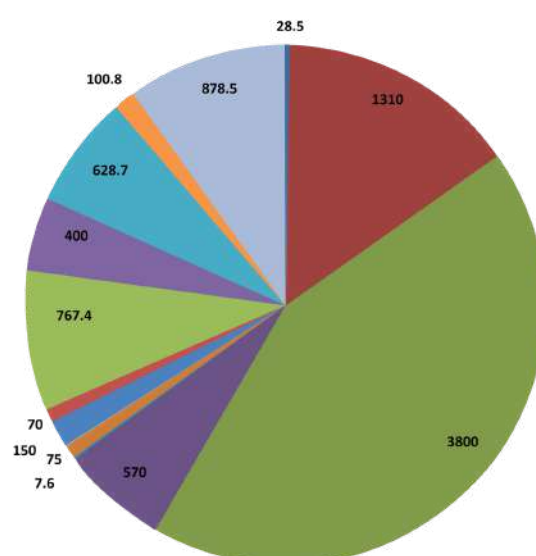
Era Swap Ecosystem Platforms catered to Multiple P2P Utility between two parties, Team Era Swap analysed through various sources from web about the market size of these multiple domains with tremendous potential. **The insights has been depicted below:**

Current Industry Trend	Current Global Market Size	Estimate Users Globally (in mil.)
Online Freelancers Market Place	3700	28.5
Online Merchants & Shoppers Marketplace	1043.1	1310
Online Social Community Platform	17.6	3800
Online Farmers Marketplace	139	570
Online E-learning Marketplace	190	7.6
Online Car Pooling Platforms	316.9	75
Online Renting Platforms	174.1	150
Online Doctors Appointment Platforms	297	70
Online Ticket Booking platforms	4118	767.4
Mutual Funds & Investment Services	4970	400
Online Digital Certificate Platforms	96	628.7
Online Dating Platforms	3.286	100.8
Online Fitness applications	2.561	878.5

Current Global Market Size (in Bill) Industry Wise Estimate



Estimated Users Globally (in Mill)



\*Please note the above numbers are estimate from the sources available on internet

References:  
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<https://www.cnbc.com/2019/10/05/skilled-freelancers-earn-more-per-hour-than-70percent-of-workers-in-us.html>  
<https://www.google.com/search?q=india-market-size-of-mobile-wallets&q=india-market-size-of-mobile-wallets&q=chrome..6957/0.14218/04&sourceid=chrome&ie=UTF-8>  
<https://www.statista.com/topics/4872/mobile-payments-worldwide/>  
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<https://www.google.com/search?q=mutual-funds-market-size-globally&q=mutual-funds-market-size-globally&q=chrome..6957/35.8956/09&sourceid=chrome&ie=UTF-8>  
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<https://www.livemint.com/industry/AdGfGlyEs2Sk74E17ce71/100-million-Paytm-users-have-completed-KYC.html>





# ESE PLATFORMS IN A NUTSHELL

Era Swap has several moving parts in its ecosystem that are designed to turn its vision into reality over a period of time. Era Swap Team focuses on intra-ecosystem forces to stabilize the ecosystem by creating the utility and consumption. Era Swap has carefully planned to address different aspects of the ecosystem such as growing demand, reducing the volatility, providing multiple options to use Era Swap, reducing cost for exchanging services and incentives for all the users of the ecosystem based on their contribution on multiple platforms.

## **TIME SWAPPERS**

<https://timeswappers.com>

Time Swappers is a peer to peer marketplace that enables buyers and sellers to exchange services in form of tokenized time (ES/hour). Era Swap (ES) token will be utilized for the exchange of services between service providers and service seekers.



## **BUZCAFE**

<https://buzcafe.com>

BuzCafe is a convenience solution offered to Era Swap Ecosystem users. It is a marketplace where users can buy services from merchants in a Peer to Peer mode by meeting up. Further, it is also a network of retail outlets / shops which accepts Era Swap in P2P mode for any exchange from Era Swap community.



## **SWAPPERS WALL**

<https://swapperswall.com/>

Swappers Wall is a decentralized social community platform where community members of Era Swap Ecosystem can reward Era Swap Power tokens to each other for the original, unique & creative content or quality work on the platform.



## **DAY SWAPPERS**

<https://dayswappers.com>

Day Swappers is a unique affiliate program for Era Swap community members for influencing, building circle of users, increasing usage and user-base on ESE platforms, claim rewards for contribution and create multiple active users.



## **COMPUTEEX**

<https://computeex.net/>

ComputeEx is a convenience platform where Era Swap Community Members can get ES from their Credit / Debit Cards or they can buy ES from BTC. Also, It is a Multi-exchange Solutions, which provides the best deals to Era Swap users from various Digital asset exchanges across the world at one place.



## **ERA SWAP ACADEMY**

<https://eraswap.academy/>

Era Swap Academy is an E- Mart for Subject Matter Expert (SME) to list and sell their diversified skill & expertise for the new learners & enthusiast in peer to peer mode. It bridges the gap for any new learner to learn directly from the courses listed by multiple domain knowledge SME.





## **BETDEEX**

<https://www.betdeex.com/>

BetDeEx is a decentralized Prediction Platform which leverages blockchain to make overall prediction process Decentralized, Transparent, and Trustless where users can predict and win. On BetDeEx there are multiple categories of ongoing events available for users to predict from politics to sports to science to tech.



## **TIMEALLY**

<https://www.timeally.io/>

TimeAlly is a Decentralized App (DApp) which is based on pre-defined set of rules using Smart Contracts to offers multiple benefits to users, govern the generation & distribution of ES Newly released Token. TimeAlly increase Era Swap count for TimeAlly contract holders for holding their tokens in the Smart Contract over specified period of time.



## **TIMEALLY CLUB**

<https://timeallyclub.com/>

TimeAlly Club is a privilege Circle for Era Swap Community with membership's categories: Coral, Silver, Pearl, Gold, Platinum, Sapphire, Diamond, Emerald and Ruby. TimeAlly Club Members can earn upto 5%-13% Direct rewards based on the slabs achieved on TimeAlly Products. The rewards structure is subject to change as per plans in future.



## **ERA SWAP WALLET**

<https://eraswapwallet.com/>

Era Swap understands that to power the distributed community platform, there needs to be a solid and secure payment network. For this purpose, Era Swap has developed a decentralized wallet that supports multiple digital assets and gives 100% control to Users for their funds.



## **VALUE OF FARMERS**

<http://valueoffarmers.org/>

Value of Farmers offers a single window solution to farming community through easy and accessible Web & Mobile app for peer to peer exchange and ecosystem connectivity.



## **CERTIDAPP**

<https://certidapp.com/>

CertiDApp is an open-source digital certificate issuer, powered on blockchain. On CertiDApp organizations can issue certificates to their users over blockchain making these certificates immutable and temper-proof. It uses an advanced technique called RLP to record certificate data on Blockchain. Also, in CertiDApp 2, any organization and individual can opt for decentralized review and survey on Blockchain, using CertiDApp.



## **FAITH MINUS**

<https://faithminus.com/>

Faith Minus is a Decentralized Dispute Management System for multiple utility platforms of Era Swap Ecosystem. It is a blockchain based multi-layer dispute resolution system which is open and transparent dispute anagement for all.



## **RECYCLINGDAPP**

<https://recyclingdapp.com/>

The process of waste management through RecyclingDApp is simple and transparent. The participants & users will list themselves on RecyclingDApp and start putting their daily waste details on Blockchain.



## **ERA SWAP GUARANTOR**

For securing the Era Swap Ecosystem, a reliable option is Proof of Stake (PoS). There are people with money but cannot work, as well as, people who can work but do not have money. So Era Swap introduces Delegated Proof of Stake (DPoS) in Era Swap Ecosystem to counter this problem where a requester can get a Guarantor with Guarantee in P2P mode.

## **CHARITYDAPP**

<https://charitydapp.com/>

CharityDApp is a Decentralized Charity System where users can come and do charity on listed projects based on ratings and reviews. The charity happens in a peer to peer format in simple steps.

## **BOOKINGDAPP**

<https://bookingdapp.com/>

Any event organization or enterprise can come and list their services on BookingDApp. The buyer can come, view the services and offerings and buy tickets through Era Swap (ES).

## **DATE SWAPPERS**

<https://dateswappers.com/>

Date Swapper's is a decentralized online platform aiming to develop a peer to peer meet-up and social dating ecosystem where users can list their profile and view profiles of individuals across the network.

## **RENTINGDAPP**

<https://rentingdapp.com/>

RentingDApp is a decentralized Peer to Peer leasing platform with rental ecosystem where anyone can list their assets and rent them without involving any middlemen or third party, using blockchain technology to make the rental process cost effective, more convenient and secure for both lenders and borrowers.

## **POOLIN DAPP**

<https://poolindapp.com/>

PoolinDApp is a Decentralized P2P Ride sharing Application where both Vehicle Owner and Rider can exchange services without any third party interference or middleman. In PoolinDApp, any vehicle owner can list their services, do KYC and start taking riders.

## **CUREDAPP**

<https://curedapp.com/>

CureDapp is a health and fitness Applications based on Blockchain which offers multiple utilities to its users. CureDapp tracks fitness of the users as well, creates Peer to Peer Interaction and appointment between user and doctor, keeps user health records and medical reports on blockchain securely.

## **KYCDAPP**

<https://kycdapp.com/>

KYCDApp is building a blockchain-based identity system that allows identity owners who have conducted KYC on platforms of Era Swap ecosystem to truly own, control and manage their digital identity.

## **COUPONDAPP**

<https://coupondapp.com/>

CouponDApp is a Decentralized application where any user can gift Era Swap to his friend or loved ones via a unique file over email. Once the receiver has received the mail, then he can claim Era Swap further.





# ERA SWAP WALLET <https://eraswapwallet.com>

In order to complete the ecosystem, Era Swap Wallet becomes an essential part so that the users can store the ES in a safe and secured manner.

Era Swap Wallet is a decentralized web wallet which also supports paper wallet. The private keys are stored only with the users. The wallet will support multiple digital assets such as ES, BTC, ETH & all ERC20 tokens

## ERA SWAP WALLET FEATURES



## ADVANTAGES OF ERA SWAP WALLET TO ERA SWAP COMMUNITY MEMBERS

Era Swap Wallet has an additional advantage of one access to multiple utility platforms of Era Swap Ecosystem accepting Era Swap (ES). The wallet owner can access these platforms thorough wallet dashboard with all details.

### Single Sign On to Era Swap Ecosystem (SSO)

Ease of access and convenience to users for getting access to all platforms of Era Swap Ecosystem

### ESE Integrated with Wallet

Era Swap Ecosystem platforms are integrated with your ES Wallet to receive ES rewards and benefits from multiple inter-linked platforms at one single place

### Self Control In Your Hands

Control and privacy in your hands as the private keys stays only with you

### Mapping through your Dashboard

Mapped with your usage, utility, rewards and referrals, through your Era Swap Wallet Dashboard



**ERA SWAP WALLET**  
— Your eShield —



# TIME SWAPPERS <https://timeswappers.com>

For thousands of years, human have exchanged various assets among each other for utility. The internet phenomenon made it extremely convenient to match the asset owner and asset seeker however internet itself cannot power the transaction in a decentralized way. There have been multiple platforms for buyers and sellers across the globe however there are few elementary problems with traditional centralized freelancing/service exchange platforms:

- **Freelance platforms charge about 10-30% fees per transaction as middlemen**
- **On International Freelancing platforms, generally freelancers have to bear additional charges for cross border projects**
- **Global payment gateways charge between 30% to 40% for processing payment transaction**
- **Traditional Banking charges are between 2- 3%**
- **For doing the transaction, need several trusted parties and there is a cost to each trusted party**
- **Users have no control over their data which can be further misused by these middlemen**
- **No profit is shared with the users by these existing traditional platforms**

**Time Swappers** uses smart contract to solve this problem for buyers & sellers. Time Swappers creates opportunity for Buyers & Sellers across the globe to transact in Peer to Peer format using smart contracts. The users will be able save the above intermediary & middlemen charges of upto 99% in comparison to charges applicable currently on traditional platforms.



Time Swappers platform enables buyers and sellers to search, communicate directly and exchange services in peer to peer format. It is a marketplace which is built to create new self-employment opportunities. Leveraging blockchain technology replaces the traditional problems of marketplace. Time Swappers Version 2 will be finally launched on Era Swap Blockchain which can replace the traditional marketplace problems.

## Benefits of Blockchain:

- **As there are no multiple intermediaries, there could be huge savings on middleman fees**
- **Transparency by creating direct communication between the buyers and sellers**
- **Value generated can be redistributed among the Blockchain ecosystem stakeholders**
- **Blockchain driven Smart Contract for Transparent Transactions**
- **Un-manipulated Reviews, Rewards and Transparent Dispute Settlement**
- **Decreasing the cost of buyers and increasing savings of sellers**
- **Equal treatment to every subscriber and user in the system**

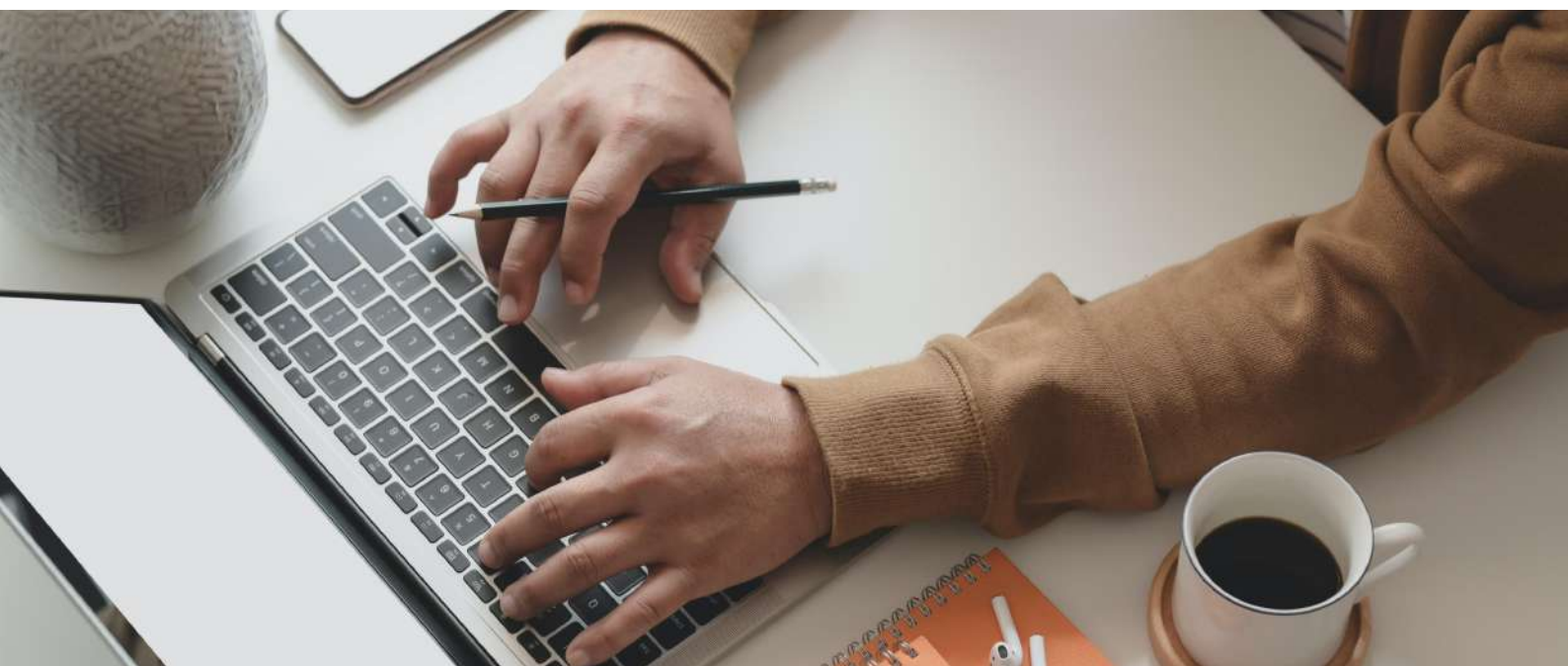






Time Swappers will run multiple paid premium listing, premium advertisement, promotional campaigns and revenue will be collected as TFC. The TFC generated from these paid services will be distributed to the Introducers.

There will be **1%** of fuel from the users, for the exchange of services. Further, this fuel will be rewarded back to buyers and sellers introducers and their Day Swappers tree respectively.



### Who can use the Time Swappers Platform?

Any service provider and service seeker can use **Time Swappers** platform. For example, if you are good at Mathematics and you want to teach in your free time, you can join the platform by signing up, creating your profile, quoting a price for your services in ES/Hr and getting verified as a service provider with 35 Era Swap (ES) Tokens.

Students who will be searching for a Mathematics teacher will find you on Time Swappers platform and will be able to see your profile and can decide whether they want to learn from you.

Time Swappers platform lets two parties communicate with each other freely without any restrictions and rewards Time Traders, Curators, and Day Swappers from NRT pool. In addition, freelancers can offer addition incentive to users for getting them clients for the service offered.

### Verified & Certified Seller on Time Swappers

Any service provider, freelancer, entrepreneur, user can become verified seller by doing KYC for Time Swappers Platform. for which He/ She has to submit **31.5 ES** also He / She has a chance to become certified seller by submitting **100 ES** & relevant documents, experience documents, testimonials of their quality work.





# DAY SWAPPERS <https://dayswappers.com/>

Era Swap is powering a unique referral and affiliate program, where community members get rewards and bounty for referring people on Decentralized Ecosystem of Era Swap, and bringing onboard active users and promoting maximum usage creating a strong community of Era Swap Users.



Day Swappers is a unique Affiliate program for Era Swap community members to earn reward for exchanging services in day to day life as service providers or service seekers and increasing the user-base on multiple platforms of the ecosystem.

## Who can be Day Swappers?

Anybody can be a Day Swappers and can create multiple Day Swappers. Day Swappers are people who contribute in growing and maintaining of multiple platforms by mentoring, referencing, community development, registering social connects as subscribers and disrupting the current service industry.

In conclusion, a Day Swappers is a Recruiter, Coach, Mentor, Motivator and Champion in his/her circle and community.

## Roles of a Day Swappers

The major assignment of a Day Swappers is to use multiple platform of Era Swap Ecosystem to exchange their services in day to day life and referring their community to these platforms. A Day Swappers can work and contribute from anywhere depending on his/her time and availability.



## How can Day Swappers achieve more?

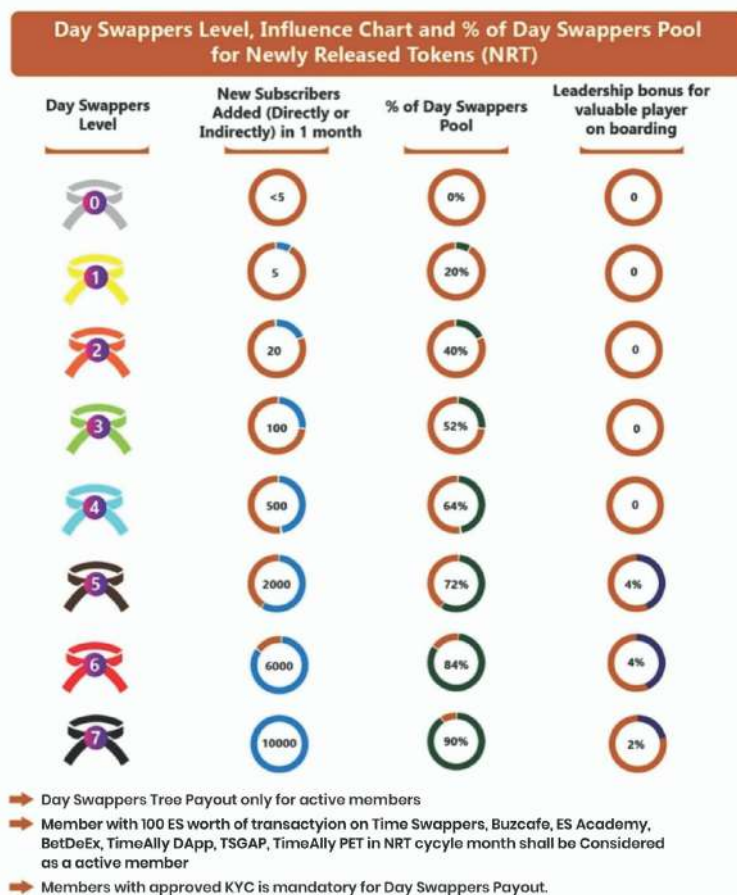
Day Swappers can generate upto 10% of NRT pool based on **TFC** generated from various platforms through his/her active community members

- By exchanging services on multiple platforms of the Era Swap Ecosystem.
- By introducing more and more members on multiple platforms of Era Swap Ecosystem.
- Active with a minimum exchange of services or transaction of **100 Era Swap (ES) tokens** each calendar month on multiple platforms as per Influence Chart.
- By completing **KYC** on Day Swappers platform every Day Swappers is eligible for Day Swapper Rewards.





## DAY SWAPPERS INFLUENCE CHART



## PLATFORM FUEL & FUEL INCENTIVE IN DAY SWAPPERS AS PER TFC

Fuel Distribution	Based on Transactions Done in Era Swap Ecosystem Platforms							
Platforms	Platform Fuel Corrected	Total Guarenteed Reward	Seller's Introducer Incentive	Incentive to Seller tree	Buyer's Introducer Incentive	Incentive to Buyer tree	10% in Burning	10% in Charity
Time Swappers	1.00%	0.80%	0.20%	0.20%	0.20%	0.20%	0.10%	0.10%
BuzCafe	1.00%	0.80%	0.20%	0.20%	0.20%	0.20%	0.10%	0.10%
BetDeEx	1.00%	0.80%	-	-	0.40%	0.40%	0.10%	0.10%
VoF	1.00%	0.80%	0.20%	0.20%	0.20%	0.20%	0.10%	0.10%
PoolinDApp	1.00%	0.80%	0.20%	0.20%	0.20%	0.20%	0.10%	0.10%
ComputeEX (Credit/Debit Card)	4.00%	0.40%	-	-	0.20%	0.20%	-	-
ComputeEX (Multi Exchange)	1.00%	0.40%	-	-	0.20%	0.20%	-	-
KMX	1.00%	0.40%	-	-	0.20%	0.20%	-	-
RentingDApp	1.00%	0.80%	0.20%	0.20%	0.20%	0.20%	0.10%	0.10%
BookingDApp	1.00%	0.80%	0.20%	0.20%	0.20%	0.20%	0.10%	0.10%
CureDApp	1.00%	0.80%	0.20%	0.20%	0.20%	0.20%	0.10%	0.10%
CertiDApp	1ES/Per Certi. /Per Employee	0.8ES	0.20%	0.20%	0.20%	0.20%	0.1ES	0.1ES
RecyclingDApp	1.00%	0.80%	0.20%	0.20%	0.20%	0.20%	0.10%	0.10%
Date Swappers	1.00%	0.80%	0.20%	0.20%	0.20%	0.20%	0.10%	0.10%
Era Swap Academy Marketplace	1.00%	0.80%	0.20%	0.20%	0.20%	0.20%	0.10%	0.10%

### TERMS AND CONDITIONS:

- 1) Incase of any Dispute the reward shall not be considered and be burnt. All the users must conduct morally and ethically on all Eraswap Ecosystem Platforms
- 2) Day Swappers Tree rewards shall be 50% staked and 50% liquid
- 3) Ecosystem Reward shall be provided only if KYC approved on KYC DApp
- 4) Day Swappers Rewards are only to Active users with at least 100 ES transaction every NRT month of 30 days 10 hours on Time Swapper, BuzCafe, BetDeEx, TimeAlly, Era Swap Academy, VoF, PoolinDApp, RentingDApp, BookingDApp, CureDApp, Date Swappers
- 5) In case, a seller announces Promotional Incentive to promote his services, then the promotional incentive will be distributed as per Fuel Distribution % Logic
- 6) ComputeEx (Multi Exchange) fuel shall also factor in the multiple charges from the exchanges
- 7) This content is for illustrative purpose only. Era Swap Token is subject to market risk. Read Era Swap Utility Token White Paper, Era Swap Life TnC\* before participating





# TIMEALLY CLUB

<https://timeallyclub.com/>

TimeAlly Club is a premium Circle for Era Swap Community which will provide the user's benefits of rewards on TimeAlly Products. It will be available in 9 categories: Coral, Silver, Pearl, Gold, Platinum, Sapphire, Diamond, Emerald and Ruby.



**TimeAlly Club will run multiple promotional campaigns which will be customized according to requirements & market scenario.**

## TimeAlly Club Membership

Membership Level	Total Staking Business in Month (ES)	TimeAlly PET Staking		TSGAP Staking		TimeAlly 1 Life Time	
		Direct Bounty	Day Swappers Tree	Direct Bounty	Day Swappers Tree	Direct Bounty	Day Swappers Tree
		Introducer Benefit in ES %	Day Swappers Active Benefit in ES %	Introducer Benefit in ES %	Day Swappers Active in ES %	Introducer Benefit in ES %	Day Swappers Active in ES %
Coral	<35000	6.00%	7.00%	5.00%	5.00%	5.50%	6.00%
Silver	35000 - 49999	7.00%	7.00%	6.00%	5.00%	6.50%	6.00%
Pearl	50000 - 74999	8.00%	7.00%	7.00%	5.00%	7.50%	6.00%
Gold	75000 - 99999	9.00%	7.00%	8.00%	5.00%	8.50%	6.00%
Platinum	100000 - 199999	10.00%	7.00%	9.00%	5.00%	9.50%	6.00%
Sapphire	200000 - 299999	11.00%	7.00%	10.00%	5.00%	10.50%	6.00%
Diamond	300000 - 399999	12.00%	7.00%	11.00%	5.00%	11.50%	6.00%
Emerald	400000 - 499999	13.00%	7.00%	12.00%	5.00%	12.50%	6.00%
Ruby	500000<	14.00%	7.00%	13.00%	5.00%	13.50%	6.00%

### TERMS & CONDITIONS:

- 1) Day Swappers Tree rewards shall be 50% staked and 50% liquid
- 2 Ecosystem Reward shall be provided only if KYC approved on KYC DApp
- 3) Day Swappers Rewards are only to Active users with at least 100 ES transaction every NRT month of 30 days 10 hours on Time Swappers, BuzCafe, TimeAlly, Era Swap Academy, VoF, PoolinDAPP, RentingDAPP, BookingDAPP, CureDAPP
- 4) This content is for illustrative purpose only. Era Swap Token is subject to market risk. Read Era Swap utility token Whitepaper, Eraswap Life TnC\* before participating

\*PLEASE REFER TO PAGE NO 66 OF THIS WHITEPAPER FOR KYCDAPP CHARGES AT EACH LEVEL AND INCENTIVE CHART ALLOCATION



# SWAPPERS WALL <https://swapperswall.com/>

Swappers Wall is a social networking platform on Time Swappers platform that promotes and facilitates interaction between friends, family, peers and community. The goal of Swappers Wall is to connect & reward Era Swap (ES) tokens to users and the community through their stories, posts, videos or photos, content, etc.

Community members who have staked in TimeAlly DApp will receive Power tokens which they can distribute to anyone on Swappers Wall for good behavior, quality content, services, ratings and stories. The Community can also Power Down and will be able to control the negative trend of Rewarding Power Up for any post which they feel is not qualified/not eligible for reward.

Swappers Wall is a reward system within the Era Swap Ecosystem to appreciate the new talents and skills exclusive on Swappers Wall and for Charity on Time Swappers. 10% of the Newly Released Tokens are allocated as Power Tokens to the TimeAlly members in a ratio 10:1 on yearly basis. The distribution of Power tokens to users will be based on the number of tokens users are holding individually in TimeAlly Smart Contract.



TimeAlly members who will receive the Power Tokens cannot use it for themselves. They have to distribute it to the community members within 30 days. If not distributed within 30 days, these Power Tokens will be burnt. Power Tokens can be awarded to the community members who are adding value to the Era Swap Ecosystem and doing a good job. The allocation of the power tokens should match with the receivers' reputation.



**Power Up:** Era Swap Community can reward Power Tokens with Power Up for any unique creative content and motivate new talent on Swappers Wall



**Power Down:** The User Power token balance can go negative if he/she receives higher Power down than actual balance for the month. The recovery of the negative balance is applicable and can be adjusted by earning Power ups within the month.

The Balance will be rounded off to "Zero" in case the balance remains negative end of the month and this negative balance will not be carried forward to next month.

**In order to reduce the biased distribution of the Power tokens, there are certain rules in place.**

- A maximum of **0.5%** of the total Power Tokens received by the TimeAlly member can be given to any single member as a reward.
- Power Tokens cannot be given to the same community member again by the TimeAlly member within **60 days**.

Community members who will receive the Power Tokens as rewards from TimeAlly members will get **50%** ES Stakes and **50%** ES Prepaid (Liquid Transferable Stakes).



**SWAPPERS WALL**  
— SOCIAL TIME LEDGERISED —





# BUZCAFE

<https://buzcafe.com>

Buzcafe is convenience for Era Swap community who meet up locally to exchange the services. It is a marketplace where users can buy and sell services in a Peer to Peer mode by meeting up. Further, it is also a network of **Retail outlets** which provides exclusive deals for Era Swap community for walking to their outlets. BuzCafe provides convenience to Era Swap community with its ease of access and local presence. Users will be able to see nearby shops and outlets with available offers and discounts who accept Era Swap (ES).

Any of the shop-keeper, merchant or trader can list his shop, business or services with details and images on BuzCafe and generate a QR code. Users of Era Swap Ecosystem can locate his outlet in their vicinity and can visit his shop for a peer to peer exchange directly by meeting up and scanning the QR code to exchange ES. The users can also view the services offered by multiple merchants listed on BuzCafe and transact P2P for exchange.

The rewards of time traders from NRT will be distributed as per the TFC generated on BuzCafe platform. There will be multiple promotional campaign & contest time to time which will be customized according to requirements of buyers & offerings by sellers. BuzCafe will have Premium Listing charges, Customized paid campaigns, paid promotions, advertisement etc.

There will be **1%** of fuel from the users, for the exchange of services. Further, this fuel will be rewarded back to buyers and sellers introducers and their Day Swappers tree respectively.

In addition, the shop-keepers/ business owners can announce additional incentive for selling of their listed products and services by ecosystem users to their peers or other users.

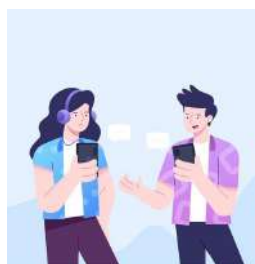
## HOW BUZCAFE WORKS?



**EXPLORE**



**BUY**



**ENJOY**





# KYCDAPP

<https://kycdapp.com/>

KYCDApp is a DApp introduced in Era Swap Blockchain Network for Era Swap user's safety with the aim to follow global norms with respect to the global standards for Anti-Money Laundering (AML) and Combating Financing of Terrorism (CFT). KYCDApp works like the gatekeeper to restrict the entry of impostors, scammers doing fraudulent or malicious activities for accumulation or exchange of Tokens.



The use of KYCDApp creates a fair balance between the freedom of anonymous use of Digital Assets & the ability to interact/exchange with other genuine users on Era Swap Ecosystem. KYC through KYCDApp is implemented for the good and long-term success of the Era Swap community altogether. After successful KYC Process via KYCDApp; Era Swap Community Members become eligible to use Era Swap.

## KYCDAPP LEVEL WISE CHARGES & INCENTIVES ALLOCATION

KYC Benefits	KYC Charge (ES)	Cummulative KYC Charges for the levels (ES)	Applicant Benefit (Staked ES)	Introducer Incentive (50% Stake & 50% ES)	Incentive to User's Day Swappers Tree (50% Stake & 50% ES)	Curators (50% Stake & 50%ES)	Tagya (50% Stake & 50%ES)	Burning (ES)	Charity (ES)	Total Benefits (ES)
% BreakUp	100%	100%	100.00%	40.00%	40.00%	40.00%	40.00%	10.00%	10.00%	280.00%
Level 1 KYC - Identity	31.50	31.50	31.50	12.60	12.60	12.60	12.60	3.15	3.15	88.20
Level 2 KYC - Skill / Business	63	70.00	63	25.20	25.20	25.20	25.20	6.3	6.3	176.40
Level 3 KYC - Experience / Recommendation	94.5	150	94.5	37.80	37.80	37.80	37.80	9.45	9.45	264.60
Level 4 KYC - FOS Tagya Validation	315	450	315	126.00	126.00	126.00	126.00	31.5	31.5	882.00
Level 5 KYC - Online Curator Validation	5000	5150	5000	2000.00	2000.00	2000.00	2000.00	500	500	14000.00

### TERMS AND CONDITIONS:

- 1) All KYC charges shall be in Liquid ES Only
- 2) KYC charges shall reduce by 10% every NRT Year
- 3) Applicant Stked Top-up shall be provided from New Talents and Patnerships (3% NRT)
- 4) Incentive to Introducers shall be provided from TimeAlly Club Bucket (10% NRT)
- 5) Incentive to Users Day Swappers tree shall be provided from Day Swappers Tree Bucket (10% NRT)
- 6) Incentive to Curators and Tagya shall be provided from Maintenance and Support (5% NRT)
- 7) Ecosystem Reward shall be provided only if KYC approved on KYC DApp
- 8) Staked Rewards shall only be applicable for top-up in 1 LT and shall not be further incentivised
- 9) Curator rewards shall be distributed equally to All curators who have participated in KYC decision
- 10) Certified and Verified KYC is applicable for the seller of following 12 platforms: Time Swappers, BuzCafe, VoF, PoolinDApp, RentingDApp, BookingDApp, CureDApp, CertiDApp, Era Swap Academy, Faith Minus, Requestor, Date Swappers.
- 11) Tagya Verified KYC is applicable for : Buzcafe, VoF, PoolinDApp, BookingDApp, RentingDApp, CureDApp, CertiDApp
- 12) The user will be disapproved/ banned permanently if any individual or Business gets involved in any form of illicit, malicious or unlawful activities



KYCDApp uses IPFS and Elliptical Curve Cryptography to securely store user's information in a decentralized way. With the handy immutability aspect of Blockchain and Combination of Smart Contracts, KYCDApp has predetermined criteria to spot fraudulent activity. Also, by doing KYC, it reduces cost in the long run and benefits both Buyer and Seller to gain trust to transact in peer to peer mode more efficiently on multiple ESE platforms. KYCDApp in future can allow bank and financial organizations to rely on more secure, organized and unified model of data handling

There are multiple decentralized platforms powered on Era Swap Network that uses secured KYCDApp for verification process. **Era Swap Ecosystem Users have to do KYC on KYCDApp for multiple utility platforms of Era Swap.** KYCDApp can further be offered as a solution to multiple organizations which require proper KYC and verification to be done before using their services.



## KYC on Era Swap Blockchain Network adds to build healthy Community

Complete Your KYC on <https://kycdapp.com> Today



# BETDEEX

<https://www.betdeex.com/>

Today, most of the centralized bookie based platforms expect you to trust them to be fair. But of course, at the end of the day, you'll be charged with multiple charges on your transactions, reward claiming and they deliberately hide their data including gaming results, winnings, payouts and more. But what if all those fraudulent tactics could be tackled? And can result in a decentralized fun prediction platform purely dedicated to entertainment.

Well, it has been made possible already by Era Swap which has merged Smart Contracts and Blockchain Technology with the prediction sector and has launched BetDeEx. BetDeEx is a decentralized prediction platform, where you all can win Era Swap Rewards just by predicting with accuracy on trending current events. On BetDeEx you do not have to worry about huge cuts which other platforms charge on your winning claims, unlike other centralized and unauthorized centralized platforms we don't charge you hefty fees.

## SIMPLE STEPS TO PARTICIPATE

**Step-1:** Visit <https://www.betdeex.com/> or Download IDAAP from Google Play, to access BetDeEx along with other decentralized utility platforms.

**Step-2:** EXPLORE, once you are on BetDeEx, you can explore multiple live events on each category filled with trending events and activities around the globe. There are multiple categories are available for you to predict on BetDeEx such as; Sports, Entertainment, Politics, Global Events, Science, Technology and many more current events, so you never run out of the fun. If you think there isn't any category on BetDeEx that interests you, do contact on Swappers Wall and suggest about it, then it might be implemented on the user's demand.

**Step-3:** Choose an event, choose the category you want to predict, try your luck or simply get the thrill. Once you selected a specific category there will be multiple predictions available, just open the event that catches your eye. You can predict as in "Yes", "No", or "Draw". To help you with your prediction there are stats available such as; Amount of ES placed on "Yes" or "No".

**Step-4:** Here comes the final step, once you are on the final event, just make up your mind and go on what you mind and heart says, Yes? No? Draw? Think clearly before choosing, because on the other side there are rewards i.e. the value of the future reward to be claimed.







# CERTIDAPP

<https://certidapp.com/>

## CertiDApp - Issue and Store Certificates on Blockchain.

It is an open-source platform developed by Blocklogy Edutech to impart institutions, colleges, organizations with a platform where they can issue durable digital certificates powered on blockchain to the concerned ones, reliably & securely.

CertiDApp utilizes Elliptic Curve Cryptography and Ethereum Blockchain's Immutability and IPFS Decentralized file storage to feature transparent verification of certificates. Users can issue certificates once issuers account termed to be KYC approved along with their documents accessible through CertiDApp Portal so that anyone can verify the validity of certificates and certificate issuer.



## CertiDApp is a unique way of issuing certificates, and the followings are the top features that make CertiDApp Authentic & Unique:

- CertiDApp offers customization features to issue certificates; a user can use various inputs of data to create customized certificates as per issuers requirement
- CertiDApp uses ECDSA for Signing and Verifying the signatures on the digital certificates
- No certificate issuing fees charged on CertiDApp to certifying authority
- Certificate receivers can choose to pay minimal gas-fee to claim certificates according to their preference and urgency
- Your certificates get stored on Blockchain and become immutable
- Verify the authenticity of certificate easily on Blockchain-powered open-source certificates issuing platform; CertiDApp
- A single certificate can be signed by multiple authorities if required while issuing, even one can edit already created certificate and add additional signature
- Using IPFS Decentralized Storage, project files or any other data sheets can be included in the certificate, to demonstrate the required data

These are the top features that make CertiDApp unique, efficient and organization friendly for issuing Digital Certificates authentically on a secured blockchain network.







# CERTIDAPP II <https://certidapp.com/>

## DECENTRALIZED EMPLOYEES SURVEY BY ERA SWAP

Using decentralized survey to listen to your employees is the first step in company's & various Institution quest for higher employee engagement. To succeed on the journey of effective employee engagement, Era Swap has introduced decentralized Survey tools using blockchain based smart contracts. The decentralized Survey results to lead team to improved performance in these organizations & various institutions applicable to various function and management. By using blockchain, Era Swap Employee Survey tools will leverage features such as tamper proof, transparency, Non Fraudulent, Flexibility, Distributed survey process, privacy user control & permanent records of survey reports.

Era Swap Decentralized Employees Survey tool will be easily available tool for any enterprise to setup to starting engagement with employees. Various designated Survey administrators, company leaders, and managers will all benefit from this survey tool. The tool provides complete step by step process for enterprises from setting up the survey to understanding what to do after the survey. The survey tool will also provide transparent.

### The three broad Principles of Era swap Decentralized Blockchain based survey guide

1. Setting Up the Survey form
2. Communicating About the Survey and Employee Engagement
3. Using Era Swap Survey Results to Start the Right Conversations

## AUDIENCE FOR THIS GUIDE

Survey administrators, company leaders, and managers will all benefit from the information in this guide. From setting up the survey to understanding what to do after the survey, this guide provides tools and best practices for every step of the journey.

Read and understand the entire guide before launching the Era Swap survey. If you are an administrator coordinating the survey, make this guide available to company leaders and managers.

## NAMING YOUR ERA SWAP SURVEY

### IMPORTANCE

Naming your survey is an important part of the survey setup process. The name you select will appear in three instances that can influence the effectiveness of your efforts to engage employees:

1. When it is time to invite employees to take the survey (invitation).
2. When it is time to review and use the results after the Era Swap survey is complete (survey reports).
3. When it is time to measure engagement again (past results).





## GUIDELINES

### Consider the following suggestions for creating an effective survey:

1. The title should make sense to your employees. The title should be specific, concise, and use terms that your employees will easily understand. It should also make sense in the three contexts noted previously invitation, survey reports, and past results.
2. Use terms that allow for easy keyword searches. Make sure that your employees can easily remember the title of the survey and find it when they are ready to take it.
3. Include your company's name, what the survey is about, and a date or time frame in the name. This format is easy to understand and will make sense to employees. Using a time frame can help keep you organized when you need to compare current Era Swap survey results with past results.

Era Swap recommends measuring employee engagement every 3 to 6 months to best manage it. To help monitor your company's progress, you will have access to results from previous survey administrations via the Era Swap Employee Engagement Center Dashboard. Searching for reports by survey name is the quickest way to navigate past results.

### STEPS TO CHECK

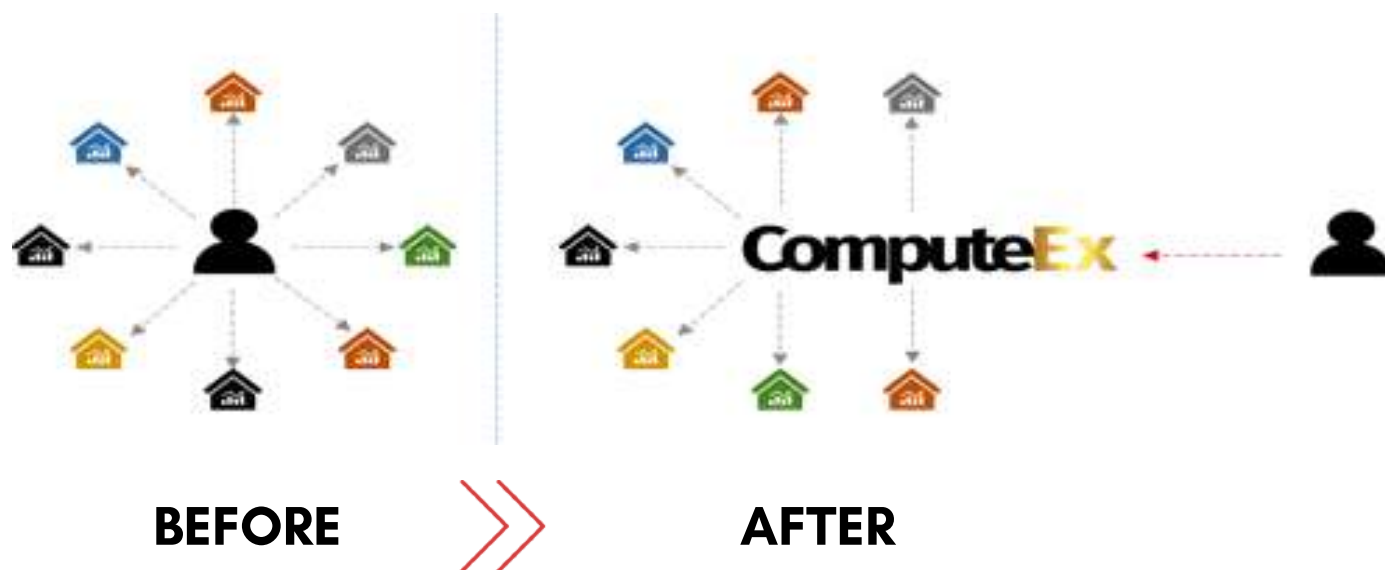
- My survey name is specific, informative, and clear.
- My survey name is easy to understand and piques employee's interest.
- My survey name makes sense in the context of the invitation, survey results, and past results comparisons.





# COMPUTEEX <https://computeex.net/>

**ComputeEx** comes with a one stop solution to make the trading hassle free by fetching the best rates from different exchanges at once place. As it has become challenging trade on multiple exchanges simultaneously as it requires a lot of bandwidth to monitoring security and increases chances of error.



Also managing multiple exchanges at the same time maximizes the . ComputeEx allows its users to trade top digital assets in major exchanges irrespective of whether the users have an account on that exchange or not. There will be **1%** of fuel from the users, for multi-exchange. Further, this fuel will be rewarded back to buyers and sellers introducers and their Day Swappers tree respectively.

Era Swap has partnered up with Uphold, a global organization with an exchange platform used across 184+ countries. With this partnership Era Swap Community can buy ES with their Credit & Debit Cards.

## **Now anyone can Buy Era Swap with these simple steps:**

1. Visit [www.computeex.net](http://www.computeex.net)
2. Click on "Services Tab" and Choose "Uphold"
3. Enter your purchase amount and currency
4. Click on "Connect with Uphold"
5. Login or Create Your Uphold Account.
6. Once Logged in Click on "Authorize" and In no time, your Uphold cards will be loaded
7. You can Connect & Buy Era Swap using Your Credit and Debit Card

## **BTC TO ES**

One can directly buy Era Swap with BTC without going to any other exchange on ComputeEx with the feature of 'BTC to ES'.



# ERA SWAP ACADEMY <https://eraswap.academy/>

Era Swap Academy is a global eMart for skill development where anyone can come and list their course or training content and offer it to the user's worldwide. It is marketplace where the seller who is the Subject Matter Expert (SME) of that area can sell his/her course in a P2P mode with buyers across by listing it here.

This will increase the employability & efficiency of learners who have enrolled for the courses listed by these Subject Matter Experts (SME). Best of the experts in their respective field will collaborate to create employable courses & will list on the platform.

The curriculum and courses at Era Swap Academy will be continuously updated, adapted and expanded to reflect real-world scenarios and learning of skills through practical exposure. Era Swap Academy's in-house content and the innovative courses of SME will actively encourage feedback from readers around the world.

There will be **1%** of fuel from the users, for buying of courses listed by SMEs. Further, this fuel will be rewarded back to buyers and sellers introducers and their Day Swappers tree respectively.

Era Swap Academy has also partnered with Blocklogy Edutech to offer courses on next generation frontline technologies like Blockchain, Data Analytics, AI & ML, etc. for users through the platform. The users worldwide can subscribe by paying ES for these exclusive courses on Era Swap Academy.

Also, Era Swap Academy will be listing customized course as per need of the hour, by the name of Technolngress for the millennial & next gen technology enthusiast. This is complete package for anyone who wants to learn from Basics to Expert level in the areas of Blockchain, AI & ML, Testing, Security and Networking.

In addition, the multiple SME's can announce additional incentive for selling of their listed courses and training by ecosystem users to their peers or other users.







# VALUE OF FARMERS <http://valueoffarmers.org/>

Value of Farmers (VOF) is part of Era Swap ecosystem which offers single window solution to farming community through easy and accessible Web & Mobile app for peer to peer exchange and ecosystem connectivity. It connects various stakeholders of farming ecosystem in a transparently under one roof. Experts of farming domain or young village graduates can also list themselves as Krishitagya and further get employment opportunities, By adding their skill to farming ecosystem.

**Decentralized Market for Selling Farming Produce, Renting Equipment, P2P Utility, and more.**



VoF enables farmers to receive fair prices for their post-harvest produce by spot selling directly through the online marketplace to local and urban markets. Also this **Peer to Peer Marketplace** will have all the role-players of farm to fork agri-ecosystem like **seed & fertilizer merchant, agri-equipment seller, pesticide seller, harvesting tools seller, cold storage owners, transporters, mandi traders, etc.** Now in this marketplace ecosystem the farming community can list their services and rates along with details and location. Buyers on the platform will connect P2P with the sellers and exchange services or goods without any middleman. Also a remarkable feature of VoF is '**Krishitagya**' who will be the local agri-expert to help and assist farmers in uploading soil records, getting processed reports & suggest methods of farming, land registry, agri-produce selling, getting grants, listing and more. The Krishitagya will be a local individual who may support one or even multiple villages nearby. Any educated villager can be krishitagya which will further reduce migration of youth.

The farmer **can also sell their crop produce well in advance** by sharing timely details about their complete farming process and cycle. The buyers will buy their produce well in advance and pay them. The products will be uploaded with all the history of information involved like type of item, date of plucking, quantity, units, value, price etc. The buyers will buy from the online platform with Era Swap utility token. Buyers & Sellers will have the option of Milestone based payment system. The payment will be in ES and held in an escrow through blockchain driven smart contracts and will be released to farmers on achieving every timely milestone.



VALUE OF FARMERS  
TRANSFORMING AGRICULTURAL PRODUCTIVITY



The farmers will have Guarantor/s for their farming produce who will stake ES as security amount on their behalf. In case of any default by farmer, the buyer will be compensated by the ES staked by Farmer's Guarantor. This will safeguard the interest of buyer and mitigate the risk. In addition, the seller can offer additional incentive to users for selling his produces or services on platforms. Sellers on VoF platform can offer addition incentive to users of Era Swap Ecosystem for selling their products and services and further getting them buyers.

## Tools or Equipment Swapping

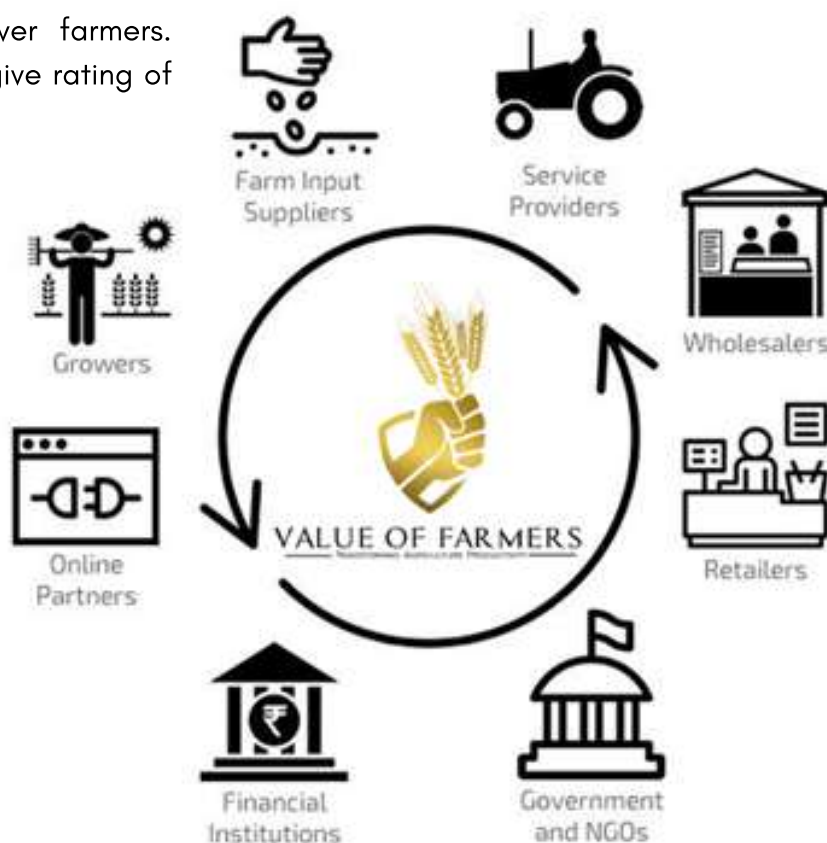
VoF will help farmers fraternity to exchange required tools for complete farming process. Farmers can just rent out / exchange their farming tools using Tools Swapping feature available over VoF App. It will range from renting small tools to large tractors or any heavy machinery. Lender needs to register & upload the equipment name, details, availability, images and location. Needful borrower listed on VoF App can choose search, find, select and exchange the service with Era Swap utility token.

It will be settled only after task completion confirmation is provided by both lender and borrower farmers. Borrower farmer can also have option to give rating of the equipment provided by lender farmer.

## Farming Land Registry

Krishitagya who will participate in the ecosystem will validate the details of Land which needs to be registered with checklist & these details will be uploaded on blockchain.

The land details uploaded on Blockchain will further help the farmers to get Loan, lease or sell land to the Lender/buyer listed on the ecosystem. Farmers will have Guarantors of Era Swap ecosystem to back up on their assets such as land, crops etc.



## Soil Prediction and Statistics

Krishitagya will help the farmers by updating the soil testing report details on VOF app. The Soil testing report is sourced from nearest soil testing centers report details. The soil testing reports will help the farmer review that which crop to sow in current situation of soil.

These various soil and other data recorded over blockchain will become very crucial for farmers in future to draw insights based on past record and hence plan for future farming process. There will be **1%** of fuel from the users, for the exchange of services. Further, this fuel will be rewarded back to buyers and sellers introducers and their Day Swappers tree respectively.



VALUE OF FARMERS  
TRANSFORMING AGRICULTURAL PRODUCTIVITY



# DATE SWAPPERS <https://dateswappers.com/>

Date Swapper's is a decentralized online platform aiming to develop a peer to peer meet-up and social dating ecosystem where users can list their profile and view profiles of individuals across the network. This platform further offers the users to set up a meeting time and place to meet-up through the App, while associating security to it by staking ES. This ensures the attendance of both the parties and hence, could be considered as a great start to any association!

This platform aims at solving the very core problem which users generally face, while using any online meeting application or website like fake profiles, and non- turning up for meetings, etc. The activity of meeting up of the parties will be linked with staking ES as security against non-appearing for meet-up.

So, the staked tokens will be transferred to the first party if in case the other party doesn't show up for meeting. This also helps in finding the scammers and eliminating them from the system, hence assuring a safe and secure environment for the users.

There will be **1%** of fuel from the users, for transacting over platform. Further, this fuel will be rewarded back to buyers and sellers introducers and their Day Swappers tree respectively.

## KEY FEATURES



Commit - Register



Nearby - Users Detection



Decentralized Environment



View Feature



Transparency



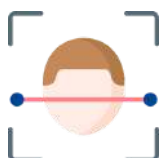
Meet-up with ES Staking Security



Travel Dating



Save User Profile Feature



Face Verification & Profile Check



Privacy Protection

eraSwap







# RENTINGDAPP <https://rentingdapp.com/>

RentingDApp is a decentralized Peer to Peer leasing platform with rental ecosystem where anyone can list their assets and rent them without involving any middlemen or third party, using blockchain technology to make the rental process cost effective, more convenient and secure for both lenders and borrowers.

The idea for RentingDApp was born because of centralized platforms, uncertainty about the security and reputation of asset given on rent and high middleman charges. The overall process is smooth and transparent where any asset owner can come on the platform and list the assets they want to rent along with description. The borrower will approach directly to the lender and proceed for the deal. Once the deal is locked, the borrower will stake ES in escrow to safeguard the interest of lender against any damage caused to his lent asset. Once the deal is over successfully, the staked ES will come back to borrower



If any dispute occurs between buyer and seller, then they can get it resolved through era Swap decentralized dispute management Faith Minus. For eg. If borrower has caused damage to the rented asset, then the compensation is automatically deducted from the staked ES and adjusted for the loss of lender. The whole process leverages smart contracts through blockchain technology to make it trustless

In RentingDApp, the users can rent any personal asset in P2P mode like Apartments, Houses, Garden and Lawn, Parking, House-hold items, Personal Accessories, Furniture, Electric Appliances, Gadgets or Electronic items, Clothing and more.

There will be **1%** of fuel from the users, for the exchange of services. Further, this fuel will be rewarded back to buyers and sellers introducers and their Day Swappers tree respectively.

In addition the property or Asset Owner can announce additional incentive for promotion of their asset to be rented with the users on the platform

era swap

**RENTING**  
**R**  
**DAPP**



# BOOKINGDAPP <https://bookingdapp.com/>

Everyone books tickets for events, sports, travel, shows and more, quite often. In this tech savvy world people have started booking online tickets through multiple centralized apps. But these centralized apps charge you high cost as either buyer or seller. To offer the solution, Era Swap has come up with Booking DApp where users can book tickets anytime in a Peer to Peer mode.

BookingDApp platform is powered by the Era Swap token and employs a unique staking mechanism in which Era Swap tokens need to be held and locked in (staked) by platform users to use the platform, carry out peer to peer transactions on the network for booking tickets, availing discounts and vouchers, making and recording payments, etc



Any event organization or enterprise can come and list their services on BookingDApp. The buyer can come, view the services and offerings and buy tickets through Era Swap (ES).

Also, the buyers can choose from the events for which they will get a refund or not. The seller will notify all terms and conditions before hand of the booking of tickets. The choice will be of buyers to go for it or not.



If the buyer cancels the booking, then some ES will be deducted from his booking amount as per the time-frame and balance will be refunded. The event organizer may also stake an amount of ES as security against cancellation of event or trip. In case, if the event is cancelled, then the ticket bookers will get a refund from the staked amount by the vendor. This saves buyers from running after the seller for a refund in case of event cancellation.



There will be **1%** of fuel from the users, for the exchange of services. Further, this fuel will be rewarded back to buyers and sellers, introducers and their Day Swappers tree respectively.

In addition, the event organizers or tour service providers can announce additional incentive for selling of their products and services by the users of the ecosystem to their peers and connects.





# POOLINDAPP <https://poolindapp.com/>

PoolinDApp is a Decentralized P2P Ride sharing Application where both Vehicle Owner and Rider can exchange services without any third party interference or middleman In PoolinDApp, any vehicle owner can list their services, do KYC and start taking riders. The riders come to the platform and search for the options available towards the location where they want to reach.

PoolinDApp platform is powered by the Era Swap (ES) and employs a unique staking mechanism where Era Swap tokens need to be held and locked-in (staked) by platform users – drivers and riders to use the platform, carry out P2P transactions on the network for availing rides, making and recording payments, etc. There are multiple problems in existing traditional ride-sharing like multilayer middleman cost, huge platform fee, and centralized Approach. This limits the benefits to both buyer and seller. But in PoolinDApp, buyer and seller exchange ride sharing services directly using ES as medium of exchange.

## PoolinDApp utilizes multiple features to ease up the efforts of vehicle owners and riders like:

**Smart Cost:** With machine learning algorithms to find out the best suitable rates for vehicle riders to charge or for riders to offer for any location.



**Smart Chart:** With machine learning algorithms where the data from the blockchain ledger will be analyzed and the performance of the drivers will be known and conclusions and forecasts can be drawn accordingly.

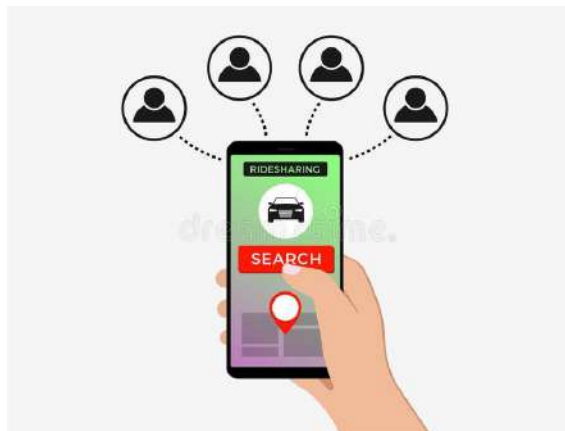


**Smart Assign:** A feature that matches the driver to the rider depending on the type of ride the passenger wants.

In case of any dispute, between rider and driver, the user can access Decentralized Dispute Management Faith Minus for settlement of Disputes.



PoolinDApp platform is powered by the Era Swap (ES) and employs a unique staking mechanism where Era Swap tokens need to be held and locked-in (staked) by platform users – drivers and riders to use the platform, carry out P2P transactions on the network for availing rides, making and recording payments, etc. In addition, car owners/ drivers can announce additional incentives for promotion of their services offered, and boost their business, in an innovative way with offerings of the reward to the users.



PoolinDApp will keep on adding more features to the platform where regular ride sharing can be promoted among peers and ecosystem users. There will be **1%** of fuel from the users, for the exchange of services. Further, this fuel will be rewarded back to buyers and sellers introducers and their Day Swappers tree respectively.

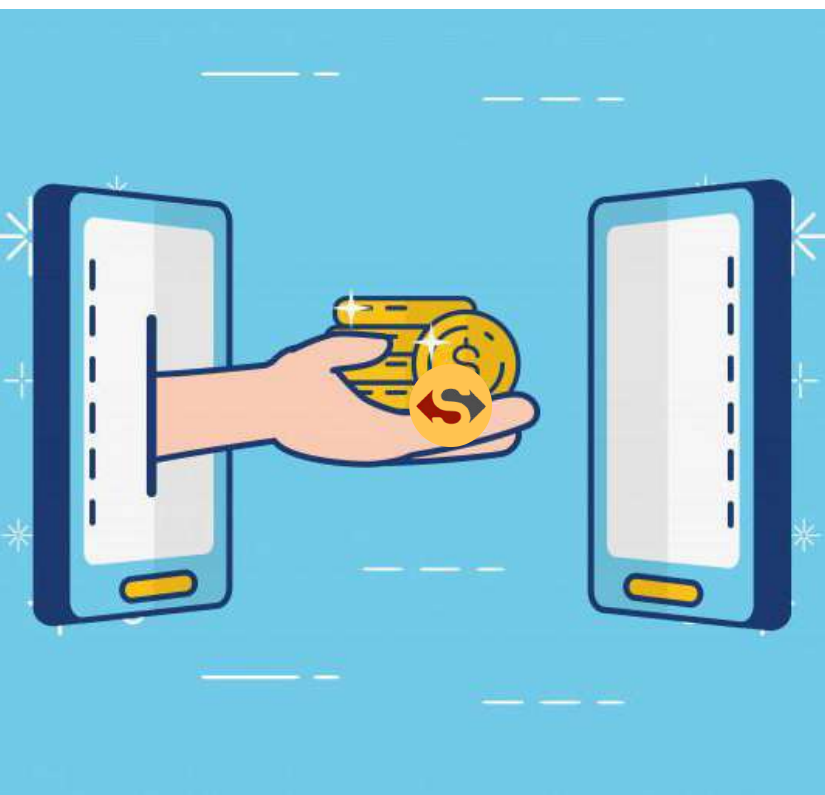






# COUPONDAPP <https://coupondapp.com/>

CouponDApp is a Decentralized application where any user can gift Era Swap to his friend or loved ones via a unique file over email. Once the receiver has received the mail, then he can claim Era Swap further.



**The process of sending Era Swap (ES) as gift coupon is very simple and convenient as follows:**

1. **Connect Wallet:** The sender of ES gift coupon connects his Wallet & Deposit ES tokens to create easily shareable gift coupons formats.
2. **Share File:** Then the sender shares the generated unique file to the receiver, who will further claim ES Tokens as gift.
3. **Claim Tokens:** Once the receiver has received unique file over mail then he can claims Era Swap (ES) using simple instructions and get them in his wallet.

This is the simple 3 step process to gift ES via coupon DApp.

CouponDApp is an initiative where any user can even gift ES to their loved ones, who are even new to Blockchain and Crypto Wallets. Coupon DApp is powered on a decentralized network of Era Swap; hence there are no central authority or any unnecessary middlemen and international transaction charges, charged to the users. Users can transact ES Tokens on their day to day life activities on any of Era Swap Life decentralized platforms, with the efficiency of inexpensive and middlemen free transactions of value and services.







# CUREDAPP

<https://curedapp.com/>

CureDApp is a health and fitness Applications based on Blockchain which offers multiple utilities to its users. The first part of CureDApp is Fitness Tracking App where any user can install the Applications in their smart phone and start fitness and health activities on a regular basis.



CureDApp tracks the fitness of the user and suggests him to keep a regular routine for his fitness showing the progress and further rewarding him in ES

for his disciplined approach to stay fit and active in day to day life. CureDApp also further records this fitness data on Blockchain so that the user can anytime use it and give the access to the consultant doctor or healthcare professionals if they want to analyze his data in future



The second part of CureDApp is keeping record of Health records and medical reports on Blockchain securely, so that it can always be accessed easily by concerned doctors or family doctorson their demand to review and analyze old medical records. The third part of CureDApp is P2P appointment with listed doctors or hospitals on the application. In case, if a user is unwell and wants to consult a doctor, he can choose from the list of nearby available listed doctors.



## Further user can also opt for online consulting through the app like



1. Online Consultation with Doctor
2. Past Medical and Health are Records sharing with doctor for review
3. Booking Appointment for Preliminary Check-up by Doctor In all the cases, the users can pay through Era Swap through the app only.

The purpose is to save all previous health records of users on Blockchain, because generally people lose or misplace their health records after few years.

CureDApp empowers them to share their old health records with the concerned doctors so that the doctors get better review and analysis of their case. In addition, the doctors can announce additional incentive for promotion of their services.

era<sup>swap</sup>





Also the objective is to reward users for regular fitness activity. The reward plan for Fitness tracking through app is as follows:



#### Reward Structure for CureDApp:

- On Referral, the users will be getting 10 Era Swap (ES)
- Daily tracking of steps will be monitored through the app

#### Leveling Up:

1. Level 1 has a daily limit of 1 Era Swap (ES). 1 ES shall be rewarded if user completes 5,000 steps daily for 21 days (Safe zone: 3K -5K steps per day and limit is 3 days)
2. Level 2 has a daily limit of 2 Era Swap (ES). 2 ES shall be rewarded if user completes 10,000 steps daily for 21 days (Safe Zone: 5k-10k steps per day)
3. Level 3 has a daily limit of 3 Era Swap (ES). 3 ES shall be rewarded if user completes 15,000 steps daily for 21 days (Safe Zone: 10k - 15k)
4. Level 4 has a daily limit of 4 Era Swap (ES). 4 ES shall be rewarded if user completes 20,000 steps daily for 21 days (Safe Zone: 15k-20k)
5. Level 5 has a daily limit of 5 Era Swap (ES). 5 ES shall be rewarded if user completes 25,000 steps daily for 21 days (Safe Zone: 20k-25k)

**\*Note:** A week counts for top 6 days of the 7 days of week, applicable on all the level.



#### Leveling Down:

- User can be demoted back to Level 1, if missing the safe zone for 7 days
- User can be demoted back to Level 2, if missing the safe zone for 7 days
- User can be demoted back to Level 3, if missing the safe zone for 7 days
- User can be demoted back to Level 4, if missing the safe zone for 7 days
- User can be demoted back to Level 5, if missing the safe zone for 7 days

**\*Note:** If any day out of 6 days is less than 85% of average steps, applicable on all the level.

#### Utility of ES rewards from CureDApp



The users can further use rewarded ES to redeem Era Swap Academy Courses, get skin care and fitness products or food and grocery items listed on Era Swap marketplace platforms under Era Swap Ecosystem. Also the user can collect more Era Swap by rigorous fitness efforts through the App to receive more lucrative items in exchange of ES fitness rewards.

Also there are ES rewards for the users for uploading their latest Blood Test reports. Here, the users receives 1 Era Swap as reward for blood test report upload.

There will be **1%** of fuel from the users, for the exchange of services and fixing up appointments with doctors. Further, this fuel will be rewarded back to buyers and sellers introducers and their Day Swappers tree respectively. Also, the doctor can offer additional incentive to ecosystem users for selling their services among users of Era Swap Ecosystem





# RECYCLINGDAPP

<https://recyclingdapp.com/>

The process of waste management through RecyclingDApp is simple and transparent. All records are maintained on Blockchain, for transparency and ease of access globally.

The participants & users will list themselves on RecyclingDApp and start putting their daily waste details on Blockchain. Now this household waste has got some value and buyers both. On the other part Waste Collectors or Organizations who have to buy back their waste from users as per norms and regulators, will also list on platform. Now these vendors will choose and buy back waste from households, in a P2P Mode.



There will be P2P exchange between buyer and seller empowered by Era Swap (ES) as a medium of Exchange. Also, there is strong scope that the organic waste from households acts as as organic compost for farmers, vegetable growers, organic farming enthusiasts, farming cooperatives, etc. So, organic household waste can also be collected by farming community and transaction can be done through Era Swap (ES). Hence, the waste for one becomes the input for other.



Thus, RecyclindDApp will also emphasize to find out more methods on how, the exchange of waste between buyer and seller can happen smartly in a peer to peer format and transactions are recorded so that a non-techie can also do smart waste management of his household waste over smart phone.

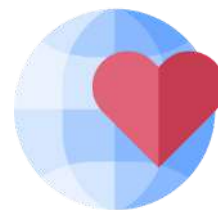






# CHARITYDAPP <https://charitydapp.com/>

CharityDApp is a Decentralized Charity System where users can come and do charity on listed projects based on ratings and reviews. The charity happens in a peer to peer format in simple steps. Any applicant who wishes to receive charity will list their details and charity case on CharityDApp. The applicants will also mention about the amount of charity needed and how they will be utilizing this through timely milestones.



Now, the users who wish to donate can choose from the multiple listed charity cases and further donate and rate. The charity applicant will use the donation genuinely and will further furnish proofs of right usage of donation amount after regular intervals.

The charity amount received by applicant will be in escrow and will be released based on successful milestones achieved by applicant to spend it for the right cause. CharityDApp will also encourage genuine needy users to list their cases and get help from Community worldwide. Any NGO or Charity Organization can also put their case along with credentials for the community to offer charity to them and review their project for rating and support.





# FAITH MINUS

<https://faithminus.com/>

Faith Minus is a Decentralized Dispute Management System for multiple utility platforms of Era Swap Ecosystem. It is a blockchain based multi-layer dispute resolution system which is open and transparent dispute management for all. Era Swap Faith Minus provides the disputed parties complete transparency & corruption free flexibility to counter & settle disputes with multi-layer resolution approach. Faith Minus is applicable only to Era swap Ecosystem. Also, conservators will validate KYC, for which they receive a share of KYC fuel per KYC.



The Decentralized Dispute Management System is integrated with Era Swap Network. Every member, who stakes 5000 ES in TimeAlly Curator Plan is allowed to participate in the Faith Minus – Dispute Management Process as a Curator. The panel of curators collectively is known as conservators. The Dispute Raiser will have to pay 2% fuel of the disputed amount, which will get collected in the Pool to distribute equally between all the Conservators (group of curators) who have participated in the dispute settlement for the month.

The Conservators here will get rewards through TimeAlly & Dispute Raiser's fees to solve the dispute which will come from Pool and distributed in equal proportion to qualified Conservators. The Conservators (group of curators) that are chosen to participate in the Era Swap Faith Minus for a certain project will get all available information about the disputed project. Both the parties will be able to share their details with the Conservators. The identity of Conservators will be anonymous. Each curator will have Unique ID, Ratings & Reviews and status (Online/Offline).

## Conservator in Faith Minus

Conservators are members who will resolve the dispute arising on the platforms of Era Swap ecosystem. In order to become a Conservator on the platform the user will have to vest in TimeAlly. Conservators are future oriented roles where more Role Categories & Key Result Areas (KRAs) will be added with the growth of the ecosystem over period of time. Initially KMPARDS as creator of Era Swap will play a crucial role as conservator, however over the period of time once conservators have gained confidence and expertise in dispute settlement then this will be transitioned to independent conservators. Conservators can participate to receive rewards based on the TFC generated from disputed services raised & resolved platforms of Era Swap Ecosystem. Also 80% of the KYC fuel will be allocated to conservator's pool for distribution based on NRT rules





### Information provided to Conservator for solving disputes includes:

1. The final submission and earlier submissions dispute at all Levels.
2. The Total chat conversation of the Parties which includes claim settlement or Counter offer information.

If any of the party is not satisfied then the dispute, can move to level next level. **The disputed party should raise the dispute to next Level within 48 Hours from the decision made otherwise the decision taken will be the final decision.**

### Turn Around Time:

- Fast Track – 96 hours/ Fuel is 11 Era Swap (ES)
- Super Fast Track – 72 hours / Fuel is 50 Era Swap (ES)
- Supersonic Fast Track – 24- 48 Hours/ Fuel is 100 Era Swap (ES)

The Dispute Raiser will pay 50% of Turnaround fuel and 50% of fuel will come from Conservator pool for choosing Super Fast Track and Super Sonic Fast Track.

## LEVELS OF FAITH MINUS

### Level 1: People-tribunal

This is the first level of Dispute Management where minimum 3 Conservators will be participating to resolve the Dispute. Each Conservator will get 11 ES from system for participating in Dispute Management.

### Level 2: Center Tribunal

This is the second level of Dispute Management where disputed party can add minimum 3 curators or any odd numbers greater than Level 1 of Conservators. The Dispute raiser will have to bear a standard fuel for 25 ES per Conservator for initiating dispute in level 2.

### Level 3: Top Tribunal

This is the Final level of Dispute Management where disputed party can add minimum 3 curators or any odd numbers greater than Level 2 of Conservators. The Dispute raiser will have to bear a standard fuel for 50 ES per Conservator for initiating dispute in level 3.

The Dispute Raiser will pay 50% of curator fuel and 50% of fuel will come from Conservator pool at Level 2 and Level 3. The Conservators who have missed attending level 1 in Faith Minus – Dispute Management process will not be able to participate in Level 2 & 3. They will have to participate in Level 1 disputes to qualify for Level 2 & Level 3 Disputes resolution.

There will be deduction of 10% on applicable reward from respective Conservator for any decision against the majority towards dispute settlement. There will be Dispute Settlement fuel of 2% available for users for raising dispute for services.





## **DISPUTE RESOLUTION FLOW**



### **Faith Minus Dispute Management Process**

Dispute Levels	# of Curators added by Dispute Raiser	Per Curator Fuel (ES)	Fuel borne by (Per Curator)
People Tribunal	3	11	100% by Conservator
Center Tribunal	3/5/7/9 or any Odd number of Curators	25	100% by Dispute Raiser
Top Tribunal	3/5/7/9 or any Odd number of Curators	50	100% by Conservator

Turn Around Time Levels	Turnaround time (Hours)	Per Curator Fuel (ES)	Fuel borne by (Per Level)
Fast Track	73 to 96	11	100% by Conservator
Super Fast Track	49 to 72	25	50% Dispute Raiser & 50% Conservator Pool
Supersonic Fast Track	24 to 48	50	50% Dispute Raiser & 50% Conservator Pool

### **Faith Minus Terms:**

- 1.The Disputed party should raise the dispute to the next Level within 48 Hours from the decision made, otherwise, the decision taken will be the final decision.
- 2.The Conservators who have missed attending level 1 in Faith Minus - Dispute Management process, will not be able to participate in Level 2 & 3. They will have to participate in Level 1 dispute management process to qualify for Level 2 & Level 3 Disputes resolution.
- 3.There will be a deduction of 10% on applicable reward from respective Conservator for any decision against the majority towards dispute settlement. There will be a Dispute Settlement fuel of 2% available for users for raising disputes for service.
- 4.Disputed Parties have the visibility to rate & review the Curator, if any of the parties is not satisfied then the dispute settlement process will move to the next level.
- 5.The Disputed Party will have the option to go for Premium Turnaround times by paying additional fuel.



# GLOBAL MARKET POTENTIAL ESTIMATE

As of June 1st 2020 Market cap of Era Swap is 75 mil. \$	Current Estimated Global Market Size (In Bil. \$)	Estimates Total # Participants Globally (in mil.)	Average Estimation Global User Efficiency (in \$)	No. of Average Transactions per user per year in ES (Assumption 1)	No. of Average Transactions per user per year in ES (Assumption 2)	Average Transactions per User per year in ES (If Assumptions 1 & 2 holds good)
<b>Market Potential</b>	<b>70531.51494</b>	<b>13953.215</b>	<b>5054.857604</b>	<b>36.0</b>	<b>300.0</b>	<b>10800.0</b>
<b>TimeAlly</b>	<b>49700.0</b>	<b>400.0</b>	<b>124250.0</b>	<b>3.0</b>	<b>3000.0</b>	<b>9000.0</b>
<b>TimeSwappers</b>	<b>3700.0</b>	<b>28.5</b>	<b>129824.6</b>	<b>5.0</b>	<b>500.0</b>	<b>2500.0</b>
<b>BuzCafe</b>	<b>1043.1</b>	<b>1310.0</b>	<b>796.3</b>	<b>12.0</b>	<b>250.0</b>	<b>3000.0</b>
<b>Swappers Wall</b>	<b>17.6</b>	<b>3800.0</b>	<b>4.6</b>	<b>100.0</b>	<b>25.0</b>	<b>2500.0</b>
<b>Era Swap Network</b>	<b>430.0</b>	<b>161.8</b>	<b>2658.4</b>	<b>153.0</b>	<b>0.0001</b>	<b>0.0153</b>
<b>Value Of Farmers</b>	<b>139.0</b>	<b>570.0</b>	<b>243.9</b>	<b>2.0</b>	<b>500.0</b>	<b>1000.0</b>
<b>Era Swap Academy</b>	<b>190.0</b>	<b>7.6</b>	<b>25000.0</b>	<b>5.0</b>	<b>500.0</b>	<b>2500.0</b>
<b>PoolinDAPP</b>	<b>316.9</b>	<b>75.0</b>	<b>4225.3</b>	<b>8.0</b>	<b>150.0</b>	<b>1200.0</b>
<b>RentingDAPP</b>	<b>174.1</b>	<b>150.0</b>	<b>1160.7</b>	<b>4.0</b>	<b>500.0</b>	<b>2000.0</b>
<b>Computeex</b>	<b>11.1</b>	<b>161.8</b>	<b>68.6</b>	<b>4.0</b>	<b>2000.0</b>	<b>8000.0</b>
<b>CureDAPP Doctors</b>	<b>297.0</b>	<b>70.0</b>	<b>4242.9</b>	<b>1.0</b>	<b>100.0</b>	<b>100.0</b>
<b>CureDapp Fitness</b>	<b>2.6</b>	<b>878.5</b>	<b>2.9</b>	<b>1.0</b>	<b>16.0</b>	<b>16.0</b>
<b>BookingDAPP</b>	<b>4118.0</b>	<b>767.4</b>	<b>5366.2</b>	<b>2.0</b>	<b>100.0</b>	<b>200.0</b>
<b>CertiDAPP</b>	<b>96.0</b>	<b>628.7</b>	<b>152.7</b>	<b>1.0</b>	<b>2.0</b>	<b>2.0</b>
<b>DateSwappers</b>	<b>3.3</b>	<b>100.8</b>	<b>32.6</b>	<b>2.0</b>	<b>50.0</b>	<b>100.0</b>
<b>Faith Minus</b>	<b>201.8</b>	<b>95.0</b>	<b>2125.2</b>	<b>2.0</b>	<b>10.0</b>	<b>20.0</b>
<b>KYC DAPP</b>	<b>10091.0</b>	<b>4748.3</b>	<b>2125.2</b>	<b>1.0</b>	<b>35.0</b>	<b>35.0</b>

\*These illustrations are to give tentative forecast assuming Era Swap Community is 0.002% of Global Userbase and 20% efficiency from 2021 to 2025

\*Future is Unpredictable. Also, users can be participants on multiple platforms

\*Considering NRT distribution chart only 35% of total NRT will come in Liquid.

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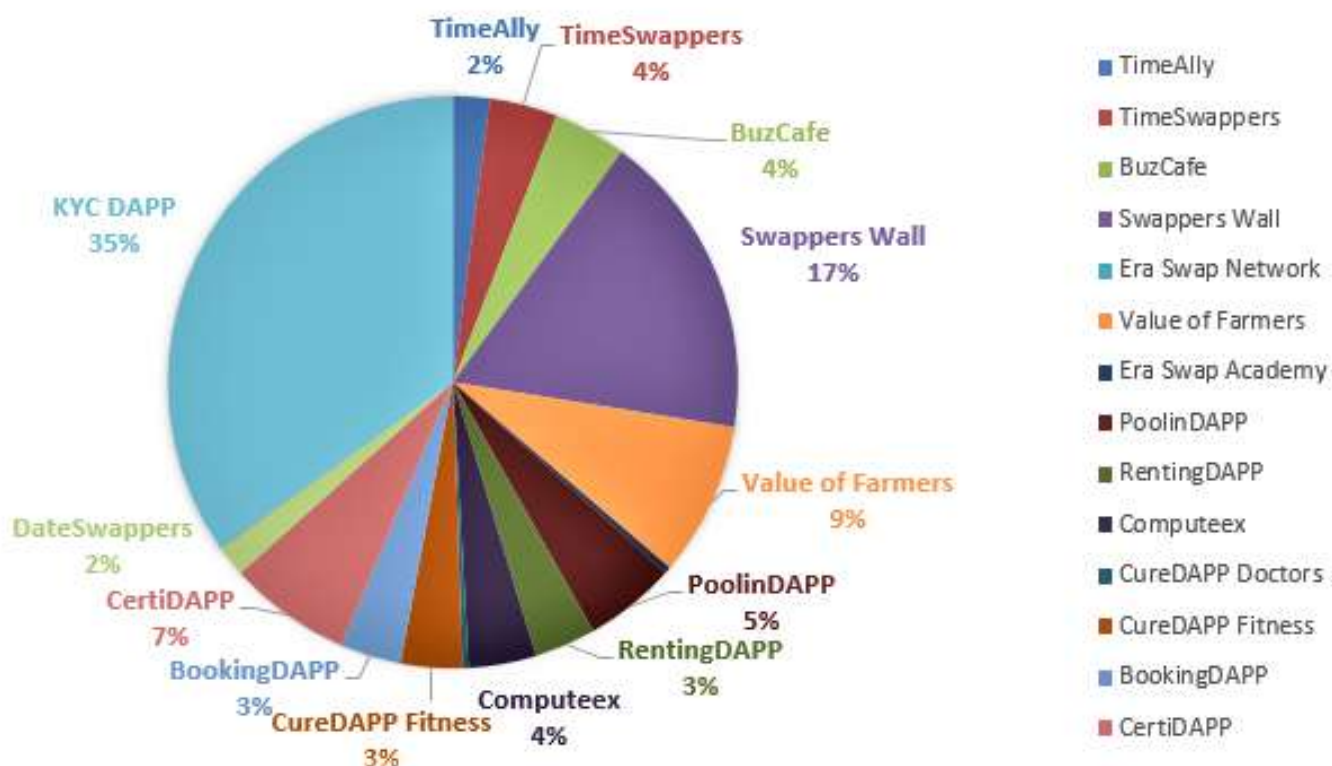
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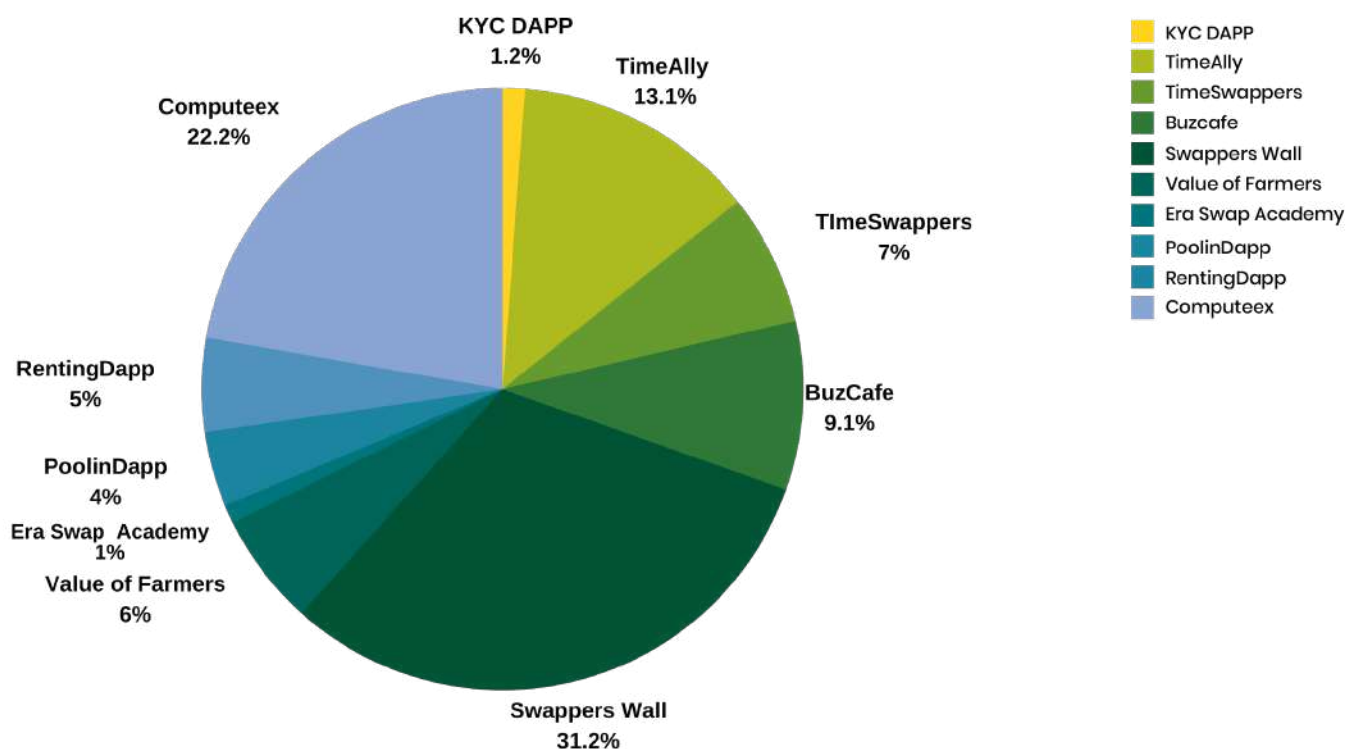


## ILLUSTRATION OF USER ACQUISITION PROJECTION FOR 5 YEARS



\*These illustrations are to give tentative forecast assuming Era Swap Community is 0.002% of Global Userbase and 20% efficiency from 2021 to 2025

## ES VOLUME PERCENTAGE PROJECTED FOR NEXT 5 YEARS PLATFORM WISE



\*These illustrations are to give tentative forecast assuming Era Swap Community is 0.002% of Global Userbase and 20% efficiency from 2021 to 2025



# SWOT ANALYSIS

## Strength

- Current Development Done
- Transparent
- In Built Rewards
- Deflationary
- DAAPS all new Space - No competition
- MultiUtility
- Scalability
- Own Blockchain Network
- Seasoned team
- Cost Efficient Transaction
- High Speed Transaction

## Weakness

- Poor Crowd Fund •



## Opportunity

- Virgin DApp Space
- 0.3% Awareness on Blockchain Possibilities
- Demand to go 70X
- Upcoming Regulations
- Undervalued

## Threat

- Resistance to change •
- Perception of Previous Scams •
- Low Risk Appetite •
- Proper Regulations •



# ERA SWAP PARTNERS

## **Maintenance & Support**

- KMPARDS Edutech Ltd.

## **Audit**

- Blocklogy Edutech Pvt. Ltd.
- Ginete Technologies Pvt Ltd
- Solulab Inc.
- Osiz Technologies Pvt. Ltd.

## **Development**

- BlockCluster (Byzantine Technologies Corp)
- Servntire Global Pvt. Ltd.

## **Exchange**

- Probit Global Service Ltd.
- Uphold HQ Inc.
- ComputeEx OU

## **Marketing**

- Era Swap Technologies Pte. Ltd.
- (Former Name – Global Blockchain Learning Centre Pte. Ltd.)

## **Research & Development**

- Date Swappers B.V.

## **New Talents & Partnerships**

- TimeSwappers Technologies Pvt. Ltd.

## **Community Welfare**

- Build In Blockchain

## **To Become Era Swap Partner**

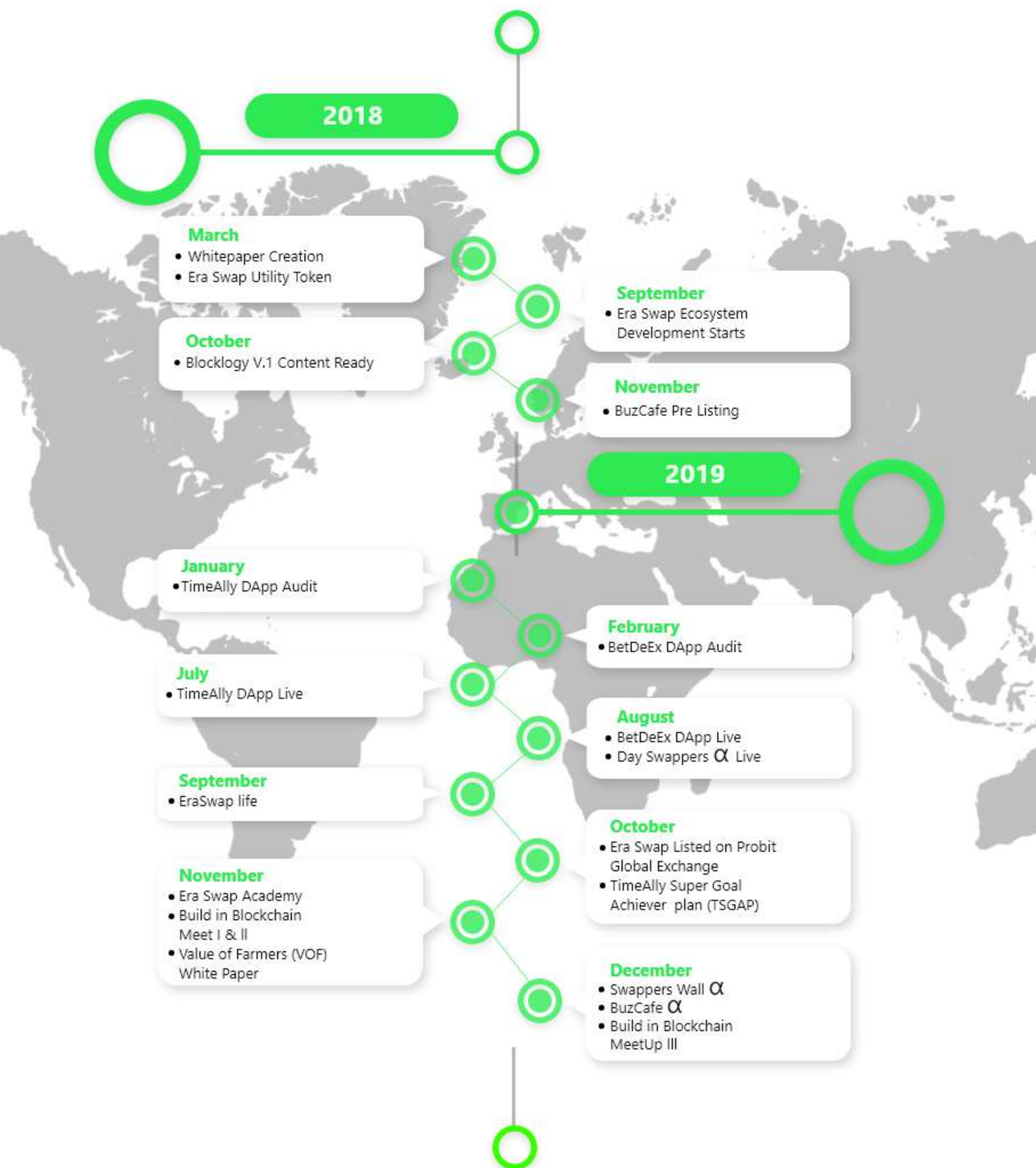
Any Individual, Group of Individuals, Exchange, Firm, Organization or Company can become a partner with Era Swap DAO as solution provider in Era Swap Decentralized Blockchain Network (ESN) and Era Swap Decentralized Ecosystem (ESE).

All the Partners / Contractors of Era Swap DAO can further either work themselves or outsource the work to any sub-contractor to increase the bandwidth & the efficiency of the services. All the Partners / Contractors will essentially accept Era Swap Stake as Payment for these services.

**Anyone willing to become partner to Era Swap DAO can mail their proposal to [info@eraswapfoundation.com](mailto:info@eraswapfoundation.com)**



## ERA SWAP ROADMAP









# **ERA SWAP (ES)**

## **CONCLUSION**

- Era Swap is a unique combination of multiple DApps integrated into one ecosystem powered by One utility token and one decentralized Era Swap Blockchain Network to become self-sustainable as the community is empowered to earn their rewards with their own effort without any centralized authority.
- Era Swap Network (ESN) uses Proof of Stake (PoS) Consensus Mechanism - It is a fault-tolerant mechanism used in Blockchain systems.
- All the Staker should participate not just to earn profits but to protect the interest of the ESN and their own long term Era Swap Stakings.
- Era Swap Network (ESN) is a decentralized Blockchain Network, and the growth of ESN is solely dependent on the community and doesn't depend on the Promoters/ Developers. In ESN, a person can create liquidity with their own efforts and solely responsible for the rewards generation.
- Era Swap Network is an EVM-compatible sidechain attached to the Ethereum blockchain through Plasma Framework. This allows off-chain processing of Era Swap Ecosystem transactions and posting only the hash of the bunch to Ethereum. This greatly reduces the high network fee and confirmation time issues faced by the current Era Swap Ecosystem DApps deployed on Ethereum.
- ESN is an EVM-compatible blockchain tailored to Era Swap Ecosystem that improves the user experience to a higher extent. Since by design, Plasma Framework makes the Era Swap Network as secure as the Ethereum Network, user's funds on the network would be secure as well.
- Era Swap Network will help scale dApps of Era Swap Ecosystem to onboard the increasing numbers of users and provide solutions for common man problems because it is efficient, fast & affordable.
- Era Swap utility token is subject to Market Risk. Every participant or purchaser of Era Swap should rely completely upon external Market forces dictating the value of Era Swap instead of relying on Promoters/Developers to enhance the value of Era Swap.
- Era Swap is a decentralized utility token used for the exchange of multi-utility products & services which can have future demand for multiple utilities.
- Era Swap Token is a carefully crafted Tokenomics where the community will be able to participate and generate maximum benefits by maximizing its contribution.
- Era Swap Ecosystem uses Era Swap Blockchain Network to connect with multiple platforms to exchange the value of services with community members.
- Era Swap Ecosystem will welcome all Next technologies enthusiasts & Developers to come and build their Dapps on Era Swap Network and the leverage Era Swap ecosystem. Era Swap is committed to create the largest spread of services, one can avail using utility token.



## **Statuary Warning**

Digital Assets are extremely high-risk, speculative products. Participants in Era Swap Ecosystem (ESE) should be aware of the risks involved and fully consider before participating in Digital assets whether it's appropriate for you. Users should only participate if you are an experienced investor with sophisticated knowledge of financial markets and you fully understand the risks associated with digital assets. The Users are strongly advise to take independent professional advice before making any investment or participating in any way. Users should check what rules and protections apply to your respective jurisdictions before investing or participating in any way. The Developers or Promoters will not compensate you for any losses from trading, investment or participating in any way as it relies completely on Market Forces. Users should read whitepaper carefully before participating and consider whether these products or services are right for you. Era Swap Token is subject to Market Risk. Please read Whitepaper, Terms & Conditions and policies of Era Swap Life and all the utility platforms of Era Swap Ecosystem before participating.

## **Privacy Policy**

The profile of all the members on the platform shall be explicitly confidential and not disclosed to any other member of the platform unless express consent is sought by the member. The KYC is mandatory in ESN to mitigate the risk of scammers who Perform Fake KYC & Attempt to Create Multiple Wallets for conducting any malicious activity for accumulating Tokens, Trading, or earning any rewards. Data will be held in a distributed fashion. This is important to avoid the user data breaches that befall centralized databases. The use of KYC (know your customer) is always a balance between the freedom of anonymous use of Digital assets and the ability to interact with other businesses, banking institutions, and all countries. We have made the decision to use KYC on all purchase of tokens, distribution of AirDrop & Bounty for the good and long-term success of the ERA SWAP community.



#### **Era Swap Foundation OU**

The Era Swap Foundation OU is a group of developers and technology professionals who are passionate about the potential of decentralized applications. It does not own or lead the Era Swap Network ("Era Swap Network"), but rather supports and develops the free, open-source & decentralized applications.

Era Swap Foundation OU makes no warranties or representations, express or implied, on products offered through the platform. It accepts no liability for any damages or losses, however caused, in connection with the use of, or on the reliance of decentralized application or related services. The Era Swap Foundation OU has no role in the operation of markets created on Era Swap Ecosystem (Era Swap ecosystem means here "Era Swap Network" "Era Swap utility Platforms" "Era Swap token"), and does not have the ability to spend funds that are held in escrow on-contract, or does not control how markets resolve or are created, does not approve or reject trades or other transactions on the network, and do not have the ability to modify, cancel, undo, or interact with orders on the network. The Era Swap Foundation OU has no power to censor, restrict, or curate markets, orders, trades, positions or resolutions on the Era Swap Ecosystem. Era Swap Foundation OU is not a bank or financial institution and does not provide investment or financial advice or consulting services to users.

#### **Era Swap DAO**

Era Swap Decentralized Autonomous Organization (DAO) is governed by a set of software rules enacted by Smart Contracts on Blockchain (refer Era Swap white Paper [https://eraswaptoken.io/pdf/eraswap\\_whitepaper.pdf](https://eraswaptoken.io/pdf/eraswap_whitepaper.pdf)). In Era Swap DAO there is no centralized legal entity and no employment contracts. All the stakeholders of the Era Swap DAO are aligned & designed by set rules for Era Swap rewards distribution Era Swap DAOs use Consensus mechanisms to align the interests of the organization with the interests of its stake holder which is done by voting mechanism. Era Swap Network Proof of Stake Consensus Protocol is governed by Time Ally Smart Contract (refer to more details <https://timeally.io/>). In no way are the developers of, or contributors to, the Website, Mobile applications or any applications responsible for the actions, decisions, or other behaviour has taken or not taken by the user in reliance upon the Website or any applications of Era Swap Ecosystem. Users not authorized and nor should they rely on the Website or any applications of Era Swap Ecosystem for any legal advice, business advice, or advice of any kind. Users should act at their own risk in reliance on the contents of the Website or any applications.

#### **TERMS OF ERA SWAP NETWORK FOR USERS TO AGREE & ACKNOWLEDGE**

- To achieve the necessary consent on the single state of the network among distributed parties within the network, Era Swap Network (ESN) uses Proof of Stake (PoS) Consensus Mechanism – It is a fault-tolerant mechanism used in Blockchain systems. The consensus permits Blockchain to function without being dependent on a single actor as different participants in the network offer their consent which makes Era Swap network.
- The sole purpose and reason for Time Ally holders should be to participate not just to earn profits but to protect the interest of the ESN and their own long term Era Swap Stakings.
- Era Swap Network (ESN) is a decentralized Blockchain Network, and the growth of ESN is solely dependent on the community and doesn't depend on the Promoters/Developers. In ESN, a person can create liquidity with their own efforts and solely responsible for the rewards generation.
- Securities law protection is not applicable to participants/stakers here because in ESN they can exercise control over their funds and ES generating activity with their own efforts that will determine their success whether or not the enterprise is successful.
- The Era Swap holders or purchaser should not assume presume profit on their stakings or holding ES as ES value completely rely upon the market forces due to its decentralized structure in a Peer-to-Peer Network, and is not dependent on the Promoters/Developers efforts. Every participant or purchaser of Era Swap should rely completely upon external Market forces dictating the value of Era Swap instead of relying on Promoters/Developers to enhance the value of Era Swap.
- Node Validators of ESN who run software are called "Blokcee". The Node validators in the Era Swap blockchain network needs to stake Era Swap (ES) with TimeAlly or get delegation from other staker to get allowed for validating new transaction blocks in ESN. Era Swap Network implements Proof of Stake Consensus Protocol (PoSCP), which will have a maximum supply of 9,100,000,000 ES, and every time a new block is added to the blockchain, new ES tokens are released in New Released Token (NRT) Supply as per the Smart Contract. In ESN, a rewarding system which enables and drives more participation to develop and validate new transaction blocks on the network to make it more secure. This also helps to attract new developers and users in the ESN. In ESN, the Node Validators have delegated the Rights to validate the new transactions blocks and earn rewards in Era Swap Network
- The Node Validators do not participate in transferring Era Swap and thus are not involved in any kind of services such as money transmission. In ESN, The node validators are delegated the validators rights which allows the node validators to validate new transaction blocks on ESN. The ESN Smart contract distribution wallet manages rewards which are earned by the node Validators for validating new transaction blocks on ESN. The TimeAlly holder as per the consent have the option to submit request to the ESN smart contract distribution wallet to distribute portion of rewards to be sent directly to the delegated wallet. The rewards earned by node validators are received in a smart contract which allow delegator to pull back their rewards
- If the node validators act maliciously there is penalty of stakes slashing. In such case, it is possible that the TimeAlly holder may lose their era swap tokens. In ESN, the node validators just post the principal and there is no risk of financial loss except of delegator burning which discards the involvement of investment of money element.
- The Node Validators are responsible to maintain the distributed ledger and can only interact using decentralized Era Swap Network only with its decentralized ES token which was previously issued, bought, or sold.
- The validation right is transferred to the Node Validators but not to Era Swap Token of TimeAlly in ESN. The Node Validators are incentivized for participating in good faith which is designed in the Era Swap network (ESN).The Node Validators takes the risk of forfeiting the opportunity to earn rewards and losing the Era Swap token for acting maliciously like double-spend attack or nodes being offline due to negligence or collective burning. All the participants are impacted highly by the inflation of Era Swap however staking can help the participants to earn the reward. Time Ally rewards on staking with % ages from 25% – 27% on an annual mode. ESN incentivizes TimeAlly Holders or all Participants to Stake motivating participating in securing Era Swap Network new transaction blocks.
- If a TimeAlly Staker chooses not to participate in the ESN POC CP (Era Swap Network Proof of Concept Consensus Protocol), then their reward earnings will be diluted as there will be inflation due to other's participation. TimeAlly Rewards are distributed as per the smart contract to all the other participants of Era Swap Network. However, as the percentages of Era Swap TimeAlly holders participating in TimeAlly staking increases then the chances to return profit are lesser. The TimeAlly holders will retain Era Swap with on-going TimeAlly staking against Era Swap network inflation losses.
- The primary purpose of every participant of ESN is to further the interest as stakeholders in Era Swap Network thus the TimeAlly Era Swap holder can choose to delegate to Node Validators for validating new transactions block on Era Swap Network. The Node Validators primary responsibility is to run the software to validate new transactions and earn rewards on successful validations. The returns are completely based on the external factors like market forces of the Era Swap and do not depend on the efforts of the Node Validators.
- TimeAlly Stakeholder will be temporarily choosing to delegate the rights of Era Swap to Node Validators for the sole purpose of staking. The Time Ally stakeholder will have Smart Contract with Node Validators that will allow termination of the relationships at any time.
- Era Swap is not an Exchange that converts virtual currencies into real currencies/ funds/ or any substitute of currency. Era Swap ecosystem is a platform for Peer-to-Peer decentralized utility platforms which is powered by Era Swap Utility Token on Era Swap Blockchain Network.
- All the participants on Era Swap do not utilize rewards for the benefit of anyone other than themselves. The Promoter/Developer of Era Swap does not control or hold the Rewards. All the rewards are allocated & distributed as per decentralized smart contract to the participants of the Network based on the Activity, Eligibility & Progress. The users are solely responsible to withdraw rewards.
- Any Participants/ stakeholders lacking the skill or the experience required to exercise control should not participate and shall take complete responsibility for any losses due to inappropriate Negligence/Lack of understanding. The participants should Read & Refer to all the Terms & Conditions/ FAQs/ Tutorial Video & Audio Links/ and other process guides thoroughly before participating.





### Terms of Era Swap Token for Users to Agree & Acknowledge

- User agrees & acknowledges that Promoters/ Developers or any thirty party service providers shall not be responsible for any failures/ disruptions/ errors/ distortions/ delays/ or losses that occurred due to volatility in prices as it purely depended on External Market Forces.
- User agrees & acknowledges that Promoters/ Developers or any thirty party service providers shall not be responsible for the failure of hardware/ software/ and internet connections, an event of technical, and other limitations occurred while using the Era Swap ecosystem.
- User agrees & acknowledges that Promoters/ Developers or any thirty party service providers shall not be responsible for the market rate information made available on various websites or sources may Differ from the prevailing market rates and markets are highly volatile due to which prices can fluctuate significantly which is subject to change from time to time.
- User agrees & acknowledges that they have fully understood the terms & conditions of the Era Swap ecosystem and are fully aware of their financial circumstances and the risk tolerance before participating in the Era Swap ecosystem.
- User agrees & acknowledges that Promoters/ Developers or any thirty party service providers shall not be responsible as there might be Considerable loss which may incur while using Era Swap Ecosystem due to High volatile nature & extremely dependent on External Market forces.
- The user should carefully review the smart contracts, website content, terms & privacy policies of platforms within Era Swap Ecosystem to familiarize as the users are responsible for their exchange of services..
- The User should confirm that the decision for participating in prediction or events, claiming or undertaking any transaction on the Era Swap ecosystem is taken with complete knowledge & ownership is with the user itself.
- Era Swap Ecosystem does not give any guaranteed returns in FIAT or crypto. Please read Era Swap Ecosystem platforms website content & smart contracts and do your research before proceeding.
- The User should understand and accept complete responsibility & liability for any damages or losses, however, caused, in connection with Era Swap Ecosystem, use of, or on the reliance of Era Swap Ecosystem.
- Era Swap Foundation OU doesn't guarantee any Fiat or Crypto because Era Swap doesn't control any Fiat or any other cryptocurrency. Era Swap token (ES) can only be used in the Eco System. ES cannot be used outside the Era swap Ecosystem.
- Phishing websites often go hand-in-hand with phishing emails. Phishing emails can link to a replica website or mobile application designed to steal login credentials or prompt one to install malware.
- Do not install software or log in to a website unless you are 100% sure it isn't a fake one. Phishing websites may also appear as sponsored results on search engines or in-app marketplaces used by mobile devices. Be wary that you aren't downloading a fake app or clicking a sponsored link to a fake website. It is completely on User's risk and the user is only liable for any such activity.
- The creators of Era Swap Ecosystem have the right to upgrade the software as per requirement time to time, enhance the features for better users experience, bring in better suitable and innovative Technology and Blockchain versions, perform changes and improvisation in case of unforeseen technology glitch

### User Rules & Regulations

All the Users participating, will be participating or already using Era Swap Ecosystem ( Era Swap ecosystem means here "Era Swap Network" "Era Swap utility Platforms" "Era Swap token") have agreed not to

- Perform Fake KYC & Attempt to Create Multiple Wallets for conducting any malicious activity for accumulating Tokens, Trading, or earning any rewards.
- Attack or attempt to interfere the "Era Swap Ecosystem" by introducing any Virus such as Worms, Trojan horses, Malicious & Technologically harmful tools (using any device, software or routine)/ programs/ engage in any malicious activity that restricts or inhibits internal or external users for using Era Swap Ecosystem or to impersonate or an attempt to impersonate Era Swap or the Team users or any other Users of Era Swap ecosystem.
- Violate any applicable country or legislative laws or regulations either origin or location-based, also any users or minors by exposing to inappropriate content or seeking or forcing highly confidential information or personal information on Era Swap Ecosystem.
- To Copy content or any advertising or promotional material of Era Swap ecosystem or Transmit any 'junk mail', 'chain letter' or 'spam' or any other similar solicitation or intend to gain unauthorized access, damage or disrupt any parts like Wallets, Nodes or apps connected to the Era Ecosystem.

### Users Agrees to

- Users have ascertained that they have reached the majority age and possess the capacity to form a binding contract and have the full capacity to accept the Terms mentioned on the site & in this document, use any Services and conduct any transactions on the Website.
- Users agree that they have provided Platform with accurate, true and complete information about them
- Users agree to access the website and all activities being conducted thereon are and will be in full compliance with all relevant laws, regulations, regulatory documents, and various policies of the utility Platforms. In particular, any Digital assets users bring on to the Website are legally obtained by you and are not derived from and will not be used for any criminal, fraudulent, terrorism or money laundering activity. All members will be required to comply with the Know Your Customer (KYC), Anti-Money Laundering (AML) and Combating Financing of Terrorism (CFT) norms concerning the global standards.
- Users agree & warrants that all the digital assets (of any types) use to trade on the Website were legally obtained and are legally owned by them or they are validly authorized to carry out any transactions using such digital assets.
- Users agree & warrant that they have and will continue to abide by any relevant laws or regulations in their respective jurisdiction, including but not limited to reporting any trading activities or profits for taxation purposes, if applicable.
- Users agree & warrant that they have not been suspended or removed from any other exchanges (including digital assets exchange or other financial trading platforms) for any reason.
- Users agree & warrant that they are aware, sourced and received all necessary independent legal and financial advice before using any Services and have made an independent judgment irrespective of any advertisements published on the platforms in their decision to enter into any transaction.
- Users agree that their access to the Era Swap Ecosystem Website or Services, Users have not used or will not use any device, software or system that alters your IP address from that of your physical location.
- All users using services agree & warrant that they are not a national, citizen, permanent resident or resident of a prohibited jurisdiction. All members represent and warrant that if they are national, citizen, permanent resident or resident of the country or region designated as a prohibited jurisdiction, in line with the guidance from international monitoring bodies such as the Financial Action Task Force (FATF), the person concerned shall not use or will not have access to the Service. Users will not use the Service while staying in the prohibited jurisdiction.

### The list below states the prohibited jurisdictions: (subject to change as guidelines)

- o Yemen
- o Sri Lanka
- o Ethiopia
- o Syria
- o Trinidad and Tobago
- o Tunisia
- o Pakistan
- o Serbia
- o Bahamas
- o Botswana
- o Ghana
- o Cambodia
- o Iran
- o North Korea



#### Release and Indemnification

Users agree to defend, indemnify, and hold harmless the Developers, Promoters, its affiliates, licensors, and service providers, and its and their respective officers, directors, employees, contractors, agents, licensors, suppliers, successors, and assigns from and against any third-party claims, liabilities, damages, judgments, awards, losses, costs, expenses, or fees (including reasonable attorneys' fees) arising out of or relating to:

I. Users violation of these Terms of Use;

II. Users use of the Era Swap Ecosystem, including use that results in any Transactions using any token transactions & token lending protocols;

III. any User Submissions made by them; or Users violation of any other party's rights or applicable law.

IV. If Users have a dispute with any counterparty to any Transaction enter into through Era Swap Ecosystem, Users release the Developers, Promoters, its affiliates, and service providers, and each of their respective officers, directors, agents, employees, and representatives from any claims, demands, and damages (actual, consequential, or otherwise) of every kind and nature arising out of or connected with such disputes.

#### Transaction Maintenance

Users are solely responsible for maintaining your private keys and monitoring the Transactions on the underlying protocols. The developers or Promoters are not responsible for User's failure to adequately monitor their Transactions and Loans, which may result in their failure to make timely payments and the loss of collateral. The Developers/Promoters are also not responsible for any failures on the underlying protocols or the Ethereum blockchain, including, but not limited to, network failures, inaccurate price feeds, coding errors or hacking attempts, which may result in User's losing any or all of the tokens that are part of the Transactions users have entered through Era Swap Ecosystem. The Developers/Promoters have no obligation to send User's any notifications, including reminders regarding payment or collateral status. Users should not rely on any such notifications, if any, and your reliance on any such communications as it at Users own risk.

#### Use of Information Provided by Users

Users understand, represent and agree that any User Submission is submitted voluntarily and is not confidential or proprietary and that your User Submission does not establish any relationship between Users and Developers. User grant the Developers and its sub-licensees a worldwide, royalty-free, non-exclusive, transferable, perpetual and irrevocable license to use, commercialize and implement the ideas contained in, distribute, transmit, reproduce, modify, publish, translate, publicly perform and display and create derivative works of User Submissions, except as otherwise prohibited by applicable law or these Terms of Use. Users waive any right to compensation of any type for User Submissions. User represent and warrant that Developers have all of the rights necessary to grant the rights in this Section and that the use of User Submissions by Developers does not violate any law.

#### Taxes

It is Users responsibility to determine what, if any, taxes apply to the Peer to Peer Exchange of Services users for which Users have submitted Peer to Peer Exchange of Services details via the Services, and it is Users responsibility to report and remit the correct tax to the appropriate tax authority. Users agree that the Era Swap Network are not responsible for determining whether taxes apply to blockchain Peer to Peer Exchange of Services or for collecting, reporting, withholding, or remitting any taxes arising from any Peer to Peer Exchange of Services on Era Swap ecosystem

#### No Right to Cancel and/or Reverse

Era Swap ecosystem Peer to Peer Exchange of Services: If users use a Service to which Era Swap (ES) is transacted, Users will not be able to change their mind once users have confirmed that you wish to proceed with the Service or Peer to Peer Exchange of Services

#### Suspension or Termination of Service

Era Swap ecosystem may suspend or terminate Users access to the Services in its sole discretion, immediately and without prior notice, and delete or deactivate users Era Swap Network account and all related information and files in such without cost to the user, including, for instance, if user breach any term of this Agreement. In the event of termination, users access to the funds in the user account will require users access to the Ethereum via the command line API or third party tool, and will require users to have access to the backup of their Account data including their Account and Private Keys.

#### Nature of Beta

Era Swap ecosystem may offer additions to Sites and Services as part of a beta test phase. All or portions of the Sites and Services included in this test phase may not function correctly, or may contain errors. Era Swap is not obligated to correct, nor is it responsible for, errors or the effects of such errors while the beta test phases of these Sites and Services are active. Further, users acknowledge that Era Swap ecosystem has no express or implied obligation to announce or make available any particular features of the beta Sites and Services in the future. Should these Sites and Services launch after the beta phase, it may have features or functionality that are different than those found in the beta version herein.

#### Registration, Account and Communication Preferences

In order to access and use certain areas or features of the Sites and Services, Users will need to register for a Era Swap account. By creating an account, you agree to (a) provide accurate, current and complete account information about yourself as necessary, (b) maintain and promptly update from time to time as necessary your account information, (c) maintain the security of your password and accept all risks of unauthorized access to your account and the information you provide to us and (d) immediately notify Era Swap if discover or otherwise suspect any security breaches related to the Sites, Services, or your account.

#### Payment Obligations

There will subscription for Users to access certain parts of Services on Era Swap ecosystem. By agreeing to these Terms, users accept to pay for these subscription costs as mentioned clearly while joining Era Swap ecosystem. The Payment must be made by users with approved KYC via accepted valid cryptocurrency or Era Swap token. The users authorize Era Swap to make necessary charges against such payments or subscription - automatic, recurring, or individual-as part of providing the Services. Users may stop or cancel these payments by downgrading or stopping services through users' member settings or rules mentioned in terms. Users acknowledge that they are completely responsible for any applicable state, federal, or other taxes as well as any fees associated with payment subscription to Services unless otherwise mentioned.

#### Trademarks

The Era Swap ecosystem logo and any other Era Swap ecosystem service names, logos or slogans that may appear on the Sites or Services are trademarks of Era Swap ecosystem and may not be copied, imitated or used, in whole or in part, without our prior written permission. Users may not use metatags or hidden text or utilizing Era Swap ecosystem platforms name or any other name, trademark or service name of Era Swap ecosystem without our prior written permission. The format (includes all the features, buttons, scripts, etc) of the Sites and Services of Era Swap ecosystem may not be copied, imitated or used, in whole or in part, without our prior written permission.

#### Partners / Contractors

All the Partners /Contractors of Era Swap DAO can further outsource the work to any sub contractor to increase the bandwidth & efficiency of the services. All the Partners/ Contractors will essentially accept Era Swap Stake & Era Swap Token for Payment for these services.

#### Third-Party Services

The Era Swap ecosystem Site may contain links to other websites ("Linked Sites"). The Linked Sites are not under the control of Era Swap Foundation OU and it is not responsible for the contents of any Linked Site, including without limitation to any form of link existed in the Linked Site, or any kind of changes or any kind of updates to the users using Linked Site. When Users clicks on any links to the Linked Site, The developers may not warn Users that they have left the Era Swap ecosystem and are subject to the terms and conditions and Privacy policies of another website or destination. Era Swap ecosystem is providing these links to you only as a convenience, and the inclusion of any link does not imply endorsement by Era Swap Foundation OU of the site or any association with its operators. User uses the Linked Sites their own risk. When User leaves the Era Swap Network, our Terms and policies no longer govern. Users should review applicable terms and policies, including privacy and data gathering practices, of the Linked Sites, and should make whatever investigation they feel necessary or appropriate before proceeding with any transaction with any third party.

Certain services made available via the Era Swap ecosystem are delivered by third party sites and organizations. The Developers or Promoters, therefore, is not liable or otherwise responsible for the Transactions, damages, or liabilities arising out of use of any Era Swap Network Platform or Transactions entered into (or attempted to be entered into). Users agree that Developer's or Promoters have no fiduciary duty to you and no liability in connection with and are not responsible for any liabilities, claims, damages, costs and/or expenses, including attorneys' fees, incurred in connection with your taking or not taking any action based upon any information provided by anyone.

#### Third Party Content

There may be display of content from third parties through the Sites and Services (collectively, "Third-Party Content"). Era Swap do not control, endorse or adopt any Third-Party Content, and make no representations or warranties of any kind regarding such Third-Party Content, including, without limitation, regarding its accuracy or completeness. Users acknowledge and agree that their interactions with third parties providing Third Party Content are solely between users and such third parties, and that Era Swap is not responsible or liable in any manner for such interactions or Third-Party Content.

#### Hyperlinks

Users are not allowed to create a text hyperlink to the Sites for non-commercial purposes, link which portray Era Swap ecosystem or any of products or services in a false, misleading, defamatory, contain any adult or illegal material or any material that is offensive, harassing or otherwise objectionable. The users may be revoked at any time without any notice

#### Disclaimer

THE Era Swap ecosystem platforms are provided to users "AS IS", with no warranty, express or implied. The Developers or Promoters of Era Swap ecosystem shall not be liable for any claim, damages or other liability, whether in an action of contract, tort or otherwise, arising from, out of or in connection with the software or the use or other dealings in the software



## SMART CONTRACT ADDRESS

### Era Swap Token (ES)

<https://etherscan.io/address/0xef1344bdf80bef3ff4428d8bec3ee4a2cf574#code>

### Newly Released Token (NRT)

<https://etherscan.io/address/0x20ee679d73559e4c4b5e3b3042b61be723828d6c#code>

### TimeAlly DApp

<https://etherscan.io/address/0x5630ee5f247bd6b61991fbb2f117bbeb45990876#code>

### BetDeEx DApp

<https://etherscan.io/address/0x42225682113E6Ed3616B36B4A72BbaE376041D7c#code>

### TSGAP DApp

<https://etherscan.io/address/0xbad9af4db5401b7d5e8177a18c1d69c35fc03fd3#code>

## SOCIAL MEDIA LINKS



<https://t.me/eraswap>



<https://www.youtube.com/channel/UCGCP4f5DF1W6sbCjS6y3T1g>



<https://www.facebook.com/eraswap/>



<https://github.com/KMPARDS/EraSwapSmartContracts>



<https://www.linkedin.com/company/eraswap/>



<https://www.reddit.com/user/EraSwap>



<https://twitter.com/EraSwapTech>



<https://eraswap.tumblr.com/>



<https://www.instagram.com/eraswap/>



<https://www.pinterest.com/eraswapt/>



<https://medium.com/@eraswap>



<https://swapperswall.com/swapperswall-pagewall/Era%20Swap%20Life/2020-01-14T19%3A18%3A01.896Z>

## GLOSSARY

- ES DAO - Era Swap Decentralized Autonomous Organization
- ES - Era Swap
- ESE - Era Swap Ecosystem
- ESN - Era Swap Network
- NRT - Newly Released Token
- TFC - Total Fual Collected
- TA - TimeAlly
- TA 1LT - TimeAlly 1 Life Time
- TA PET - TimeAlly Personal Era Swap Teller
- TSGAP - TimeAlly Super Goal Achiever Plan
- KMPARDS - KunjiMudra Programmable Assets Research Development And Services
- WES - Wrapped Era Swap
- EM - ES METER
- nEM - ES NANO METER