LiquiChain™

A cutting-edge **blockchain alternative**

LITEPAPER

WE ARE A SUSTAINABLE **BLOCKCHAIN** BASED ON **COMMUNITIES ENABLING FAST TRANSACTIONS** AND **EVOLUTIVE SMART CONTRACTS**

Blockchain has raised environmental concerns. The energy consumption is huge and may cause increased carbon emissions and climate change.

This causes other technological issues: blockchain is slow and transfers little.

By redesigning the trust path among peers and the mining, Liquichain cracked it.

And since utility is key, we found an easy way to build and quickly deploy smart blockchain applications.

ABSTRACT
INTRODUCING **LIQUICHAIN.**

Liquichain is an innovative and green public blockchain based on communities which will use a new Proof of Peers consensus mechanisms.

Some crypto projects have been extremely successful because of the power of their community. Liquichain is a community-based blockchain. Your communities, your circles, your clusters are your validators.

Liquichain is meant for sponsors that want to offer a unique utility to their communities. They know their ecosystems; they know their real needs. **These communities are huge, and they are full of members who trust them**.

By redesigning trust path among peers, replicating states only in a small number of nodes and allowing partial storage of these states, Liquichain allows smart contracts to be executed much faster. It also allows to store much larger amounts of information on nodes with much more limited storage capacities than servers (e.g. a smartphone).

Each user is a potential green "miner of resources" and can decide (opt-in system) the mining fees for the usage of his resources (computing power, message relay, storage space), depending on the app and the degree of separation with the applicant.

FIELDS OF INNOVATION
- Community-based and Proof of Peers
- Dynamically sharded blockchain
- Low energy consumption
- Green Mining
- Interoperability
- Forkless
- Extended notion of smart contracts
- Unlimited dApps and user-friendly key features
- Management by the user of his account

BLOCKCHAIN APPLICATIONS
Thanks to an open source and low code platform, several applications have already been built on Liquichain, first in PDL mode, then they will be deployed in Proof of Peers mode: Klubcoin, Liquivote, Liquichat, Liquishare...

PROOF OF PEERS, **A NEW CONSENSUS ALGORITHM.**

Blockchain is based on trust. Six degrees of separation is the idea that all people on average are six social connections away from each other.

Why do we need to be validated by a vast number of miners or stackers if a set of trust path is created with trustful peers?

ACCOUNTS ARE ASSOCIATED TO PROFILES THAT ARE VALIDATED BY PEERS.

Degrees by degree, everybody can be included and validated in the blockchain, with far less energy consumption.

When a transaction is to be performed between two nodes, a set of trust paths are created and the transaction is signed along the paths, avoiding involvement of majority of nodes and delay of block forging.

Due to the very fast and low consumption of smart contract engine each node in the system is active (no such thing as difference between miners and clients).

LIQUICHAIN NETWORK CONTAINS TWO TYPES OF NODES :

o   Devices owned by end users. The end user devices are part of the chain in the sense that they store data, execute apps and relay messages. They use peer to peer protocols to communicate between each other (over websocket and webrtc) in order to exchange data needed by the apps.

o   Servers owned by apps providers and organizations. The servers are nodes that are part of a permissioned ledger, based (in a first step) on Hyperledger fabric, with consensus based on raft protocol.
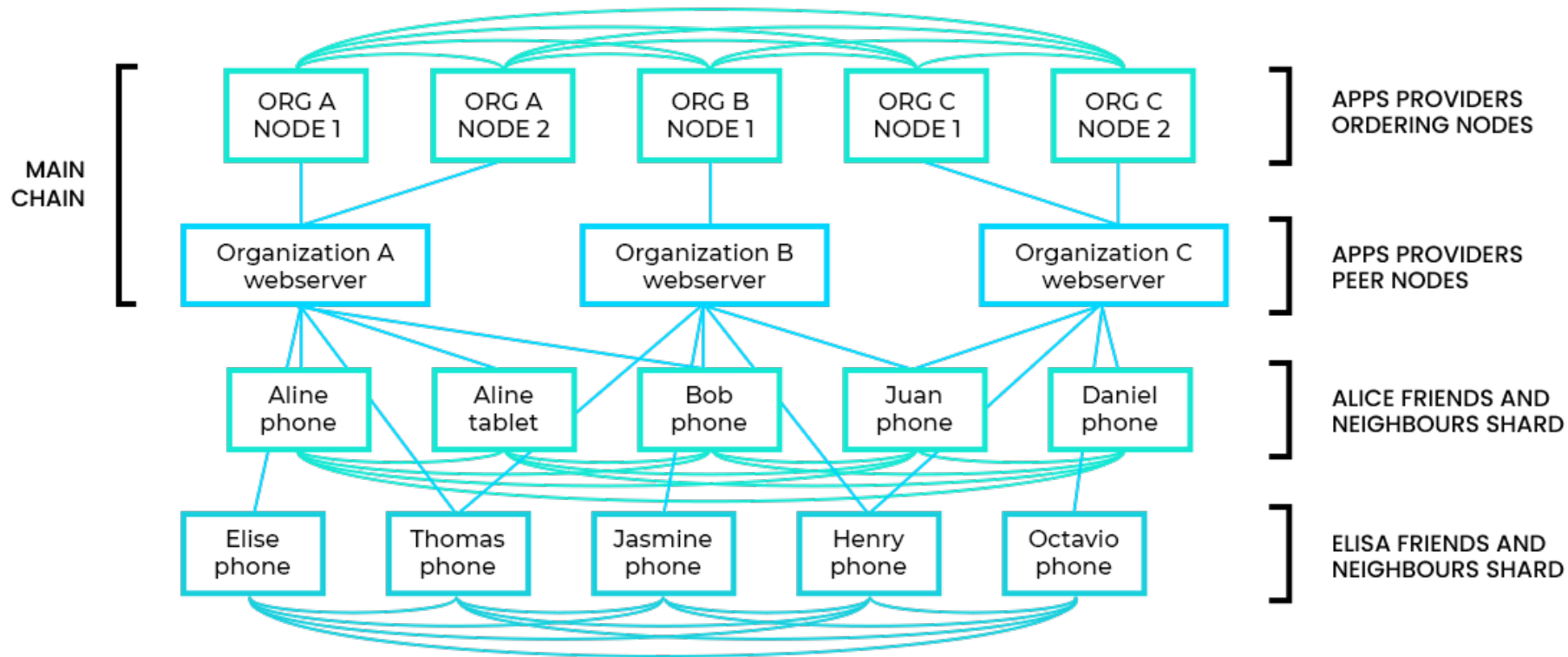
DYNAMICALLY **SHARDED BLOCKCHAIN.**

A network of user and organization nodes allow for complex app execution and online interaction between users.

The shards constituted by organization peer nodes and user nodes allow apps to store large files without encumbering the blockchain.

EXTENDED NOTION OF **SMART CONTRACTS.**

Liquichain proposes an extended notion of smart contract including not only the code executed in the blockchain but also the screens and business logic executed in the users' applications allowing them to interact with the blockchain's smart contract.

dApps ("Decentralized Applications") are auditable, open source, packages.

They contain:

- Smart contracts coded in JavaScript, Java, Go, ... that run on the main chain
- Services and storage that run on organization peer nodes
- Logic, Screen and storage that run on user wallet app

Liquichain allows smart contracts to evolve (integrating workflows) according to the agreements of the parties.

LiquiChain ™

USER-FRIENDLY KEY FEATURES.

Liquichain relies on an open source and low code platform that can develop and execute back and front applications.

It allows to quickly create and iterate prototypes, and to improve the apps.

Liquichain wallet is compatible with Ethereum and Hyperledger Fabric. It offers facilities to backup and restore private keys in a simple and secure way.

It can be enhanced with unlimited dApps like :
o   Friend requests
o   File sharing, Vaults (secure p2p app for sharing documents, pics among peers)
o   Smart Chat (secure p2p Instant messaging used for instant payment)
o   Voting (voting dApp enabling DAO, off-chain polls and votes)
o   Marketplace (p2p marketplace without the need of central servers)
o   Group buying, money pots, auctions, contests

MANAGEMENT BY THE
USER OF HIS ACCOUNT.

PROFILE MANAGEMENT

Users can manage different accounts with different level of KYC (from full anonymity to more ID info), depending on the apps they use.

The profile data (name, addresses, contacts, bank details,...) can be modified at any time by users and only them.

They decide, if they want to remain anonymous, what they share and with whom (depending on the apps he uses) by offering access tokens.

These tokens allow parties (customers, suppliers, partners, institutions, etc.) to access the identity elements they need at any time by reading the chain.

Each use of a token for access to profile information is recorded in the chain as a transaction.

DOCUMENT MANAGEMENT

Liquichain relies on secure peer-to-peer management of document storage between a user's devices, members of their circles, and the servers of the organizations they interact with. This ensures redundancy and accessibility of documents.

KLUBCOIN IS IN THE AIR.

Based on Liquichain, klubcoin is the first crypto currency dedicated to nightlife, clubbing, festivals and players of the electronic music industry.

Just like airlines miles, klubcoin establish a rich token-based economy. It offers instant cashback and rewards when users purchase products and services from partners of the klubcoin family. It is a new and efficient way of trading within the community.

The team behind klubcoin has a long history in the Dance music industry and its high-end relationships network spans the globe. Clubbing TV, Amnesia Ibiza, Djenerates or Festicket are among the first partners of the project.
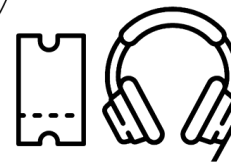
HOW DOES IT WORK

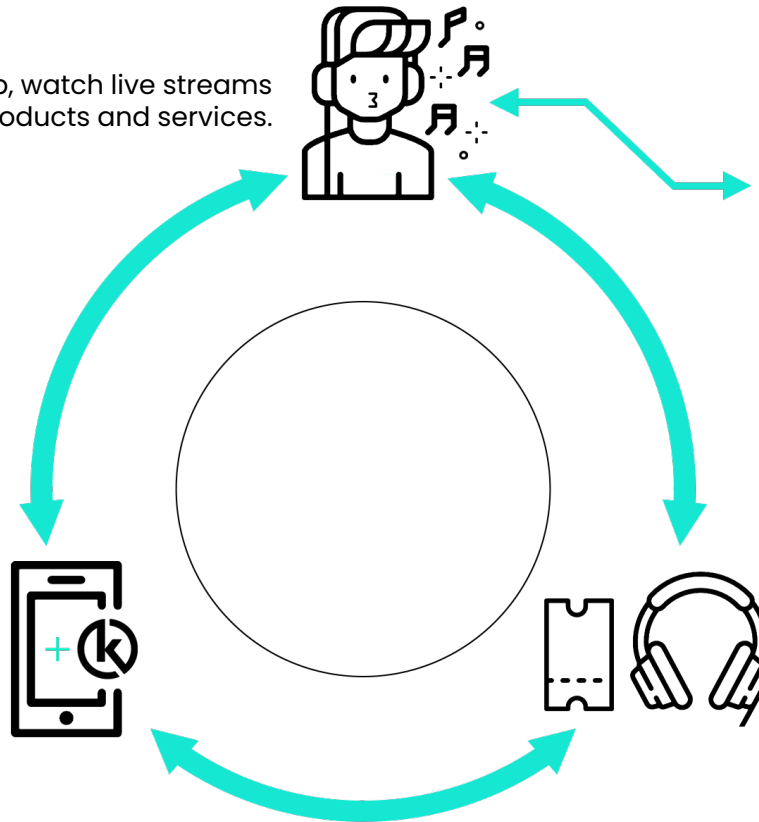1. Music fan goes to a club, watch live streams or purchases products and services.

Exchanges will allow to swap FIAT and $KC

2. He accumulates cashback in coins (in his klubcoin wallet).

3. With his coins, he can easily purchase drinks in the club, tickets, products, live streams in the whole klubcoin ecosystem.

LICOIN ECONOMICS AND GREEN MINING.

Licoin is the native, energy-efficient cryptocurrency of the Liquichain. This is the currency guaranteed to be available for users to transact with on the network.

Licoins are used to power decentralized applications and protect the network from malicious actors.

HOW TO EARN LICOINS?

Users (individuals, organizations) can obtain licoins by sharing their device resources (computing power, message relay, storage space).
We call it "green mining".

Each user can decide on the price and the limits of use of his resources and decline them by app and by circle. We hope that a lot of users will decide that the simple usage of their smartphones is free for their circle.

An algorithm of the Liquichain network allows to score the quality of service of each user (uptime, CPU speed, bandwidth, storage quality) and offers a decentralized resource search service.

Another way to earn licoins is to create value for Liquichain and to contribute to its core mission. Users of DApps and contributors will receive bounties, free airdrops, grants and other compensation for their involvements, either directly or through our project partners allocations.

LICOIN SUPPLY ALLOCATION.

The token allocation is based on utility. Licoin is a virtuous circle designed specifically for third-party companies and platforms, and their end users.

The total supply of licoins is 1 billion and is distributed as follows :

Project partners will regularly put their licoins back into the system via the rewards they will offer to their circles' members.

The dev team (protocol contributors) built the platform and the whole ecosystem and will continue to support the project.

Private sales are purchase agreements through the sale of Simple Agreements for Future Tokens ("SAFTs").

Advisors will be helping Liquichain to reach greater heights of perfection.

Public sale will be held on several DEX/CEX thanks to a multichain ecosystem.

Treasury Reserve (controlled by the Liquichain DAO) contains pre-minted licoins for a particular purpose.

Liquidity
12%

Public Sale
5%

Private Sale
15%

Treasury Reserve
20%

Protocol contributors
20%

Advisors
3%

Ecosystem (project partners)
25%
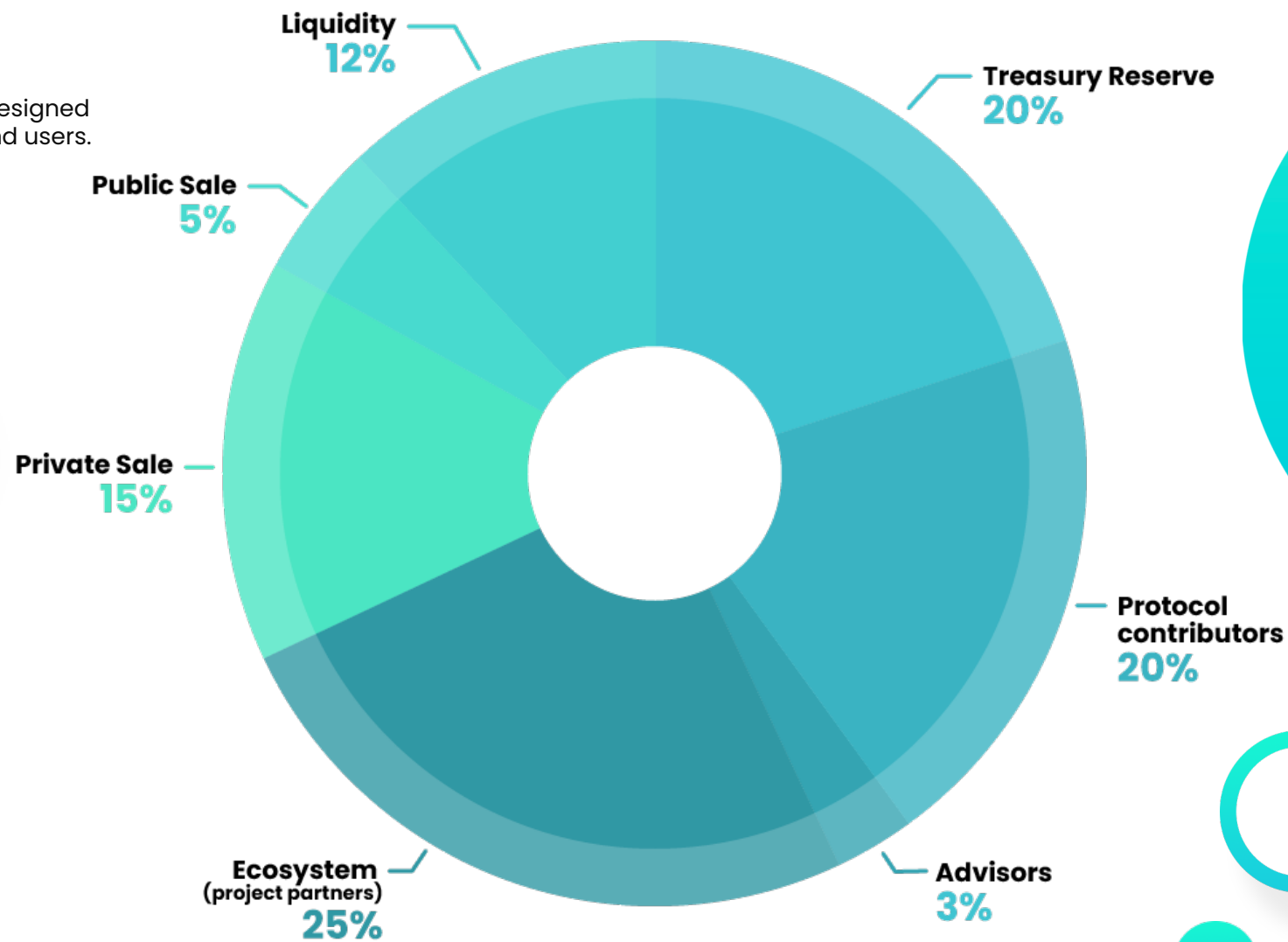
GOVERNANCE MODEL AND CONSENSUS ALGORITHM.

The Liquichain protocol will have off-chain governance when it first launches: the development team (Psiome) will work autonomously, with the goal of building for the decentralized community.

In this first step, anyone can propose improvements on the Liquichain GitHub project, which are subsequently assessed by the Psiome core development team.

Projects partners have shown a significant commitment to Liquichain. Their collaboration with our blockchain ecosystem will help Liquichain achieve its full potential. At this stage, we focus on DApps that provide more functionality to the community. As a result, we'll choose a diverse group of well-known decentralized block producers (technical and corporate) with consideration.

As the end user is sometimes unaware of or concerned about the underlying technology, Liquichain will set up a governing council with Psiome and the first projects partners to govern software changes.
But we want our technology to be as open as possible for our users. We keep the objective of developing and implementing simple blockchain applications. All decisions, however, will be made in front of a public audience.

In a second step when our loyal community is sufficient, we will introduce the Liquichain DAO where users will have a voice about protocol developments and treasury management.

It is important that the network and its cryptocurrency maintain a no-fork guarantee. This ensures stability of development for application builders, and long-term confidence in the network.

MULTICHAIN PRESENCE.

We want to facilitate the arrival of users from other popular chains.

We will create coin smart contracts on different chains and a liquichain bridge to easily use ERC 20 or BEP 20 coins in our ecosystem, to allow swap on different exchanges, and to have partners on other chains.
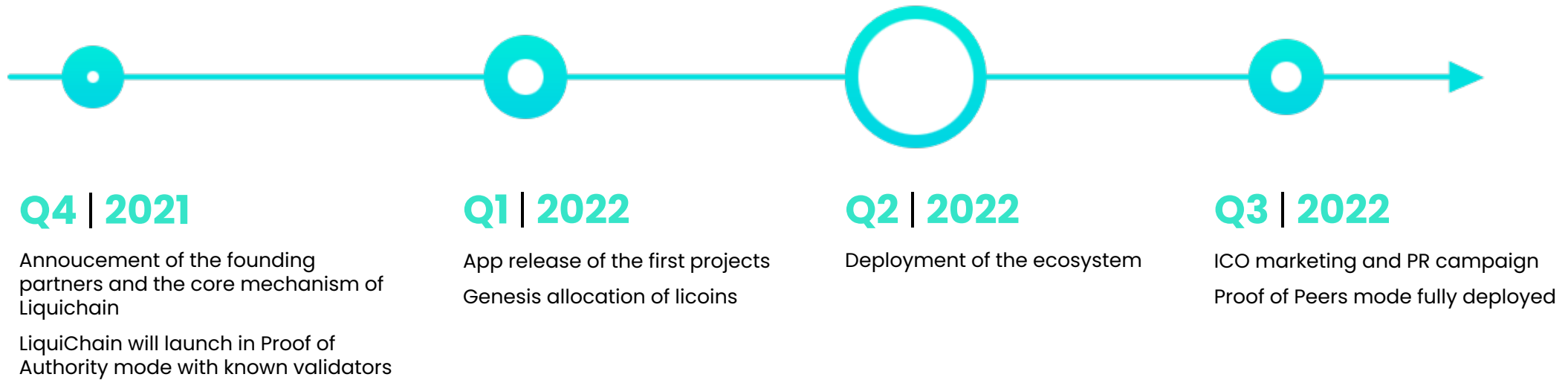
HOW DOES A BRIDGE WORK?

A bridge facilitates transfer of tokens from one chain to another. As an overview, our Ethereum bridge works as followed:

- o   A user sends their Ethereum coins to the Ethereum chain's bridge. These tokens are held in the bridge smart contract.
- o   The secure deposit is received via the Liquichain bridge.
- o   The user can now withdraw an equivalent amount of tokens into their Liquichain wallet.
- o   Token holders will be able to exchange their Liquichain tokens for Ethereum tokens in the same manner.

OUR STRATEGY AND PROJECT PLAN.

Q4 | 2021

Annoucement of the founding partners and the core mechanism of Liquichain

LiquiChain will launch in Proof of Authority mode with known validators

Q1 | 2022

App release of the first projects

Genesis allocation of licoins

Q2 | 2022

Deployment of the ecosystem

Q3 | 2022

ICO marketing and PR campaign

Proof of Peers mode fully deployed

EXECUTIVE TEAM.

Sébastien Michea
Co-founder
Chief Architect, Liquichain

CTO, Webdrone
PhD Maths
IT Architect

Creator of Meveo, a successful open-source telecom billing project

Focus : innovation, blockchain

Thomas Jauffret
Co-founder

Entrepreneur
Early investor in fintech, blockchain and media projects

Finance expert and long-time crypto advocate

Focus : Strategy, bizdev, legal

Ammar Qaffaf
CTO

Founder, Carrier Grade
Ex VP of Engineering, Virgin Mobile LATAM

Worldwide experience in software development and operations

Focus : Product

ENDORSED BY **INDUSTRY** AND **TECH ADVISORS.**

Stéphane Schweitzer
CEO, ClubbingTV

Cofounder, Klubcoin
Cofounder, Atlanticus NFT
Growth, Djenerates

Focus : blockchain, music industry

Alexander Medvednikov
Vlang creator
25k Github stars

Focus : dev community

Guillaume Massis
Head of sales, Intuit

Cofounder, Airtag (acquired by Safran)

Focus : fintech payment

Hervé Putigny
Cofounder Webdrone
Cybersecurity expert

Focus : cybersecurity

Oren Ayende
CEO RavenDB
Database expert

Focus : innovation

Nina Caput
Blockchain & NFT strategist
Head of Bizdev, Arianee
Founder, Equineledger

Focus : bizdev, blockchain

Gérald Poitevineau
Cofounder Webdrone

Focus : ops, Cybersecurity

Stéphane Dine
CEO, Telecel Pay

Focus : innovation

TOKEN DISCLAIMER.

Licoin Tokens (the "Tokens") does not constitute an investment and is not a security. The Tokens do not represent any claim for repayment of a monetary sum against the Issuer, nor have persons holding Tokens ("Token Holders") any claim against the Issuer for payment of interests or for sharing of profits generated by the Issuer. A total loss of the value of Licoin Tokens or any investment due to various causes cannot be excluded.

The Issuer will undertake best efforts to have the Licoin Token listed at a cryptocurrency exchange or trading platform but cannot guarantee if and when such listing will take place. Until a listing has been completed, Token Holders can dispose of tokens only by way of selling them on a bilateral basis. There is no guarantee that buyers for Tokens will be available or that they will be willing to pay the price paid by the Token Holder at the time of the acquisition of the token.

Acquisition of Tokens is suitable only for experienced persons who are able to evaluate the risks, including the risks related to the underlying technology, and who have sufficient resources to be able to bear any losses, including a complete loss, which may result from such acquisition. Before subscribing to or otherwise acquiring any Tokens, prospective investors should specifically ensure that they understand the structure of and the risk inherent to the Tokens.

Prior to the acquisition of Licoin Token, persons should independently assess any possible risks, seek advice with respect to the economic, legal, regulatory and tax implications of the purchase of Licoin Token and should consult with his/her own investment, legal, tax, accounting, or other advisors to determine the potential benefits, burdens, risks and other consequences of a purchase of Licoin Token.

Prospective Token Holders are required to study the white paper, the website, the FAQ's and all other available information sources and are encouraged to clarify all their questions prior to the acquisition of Tokens.