TLPAC Token
The Platform for decentralized Education

Tlpaccoin.com

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Abstract

TLPAC is the first decentralized education network built on top of a set of TLPAC Protocols that connects students with educators without taking any commissions. The TLPAC dApp and the TLPAC Protocols are powered by the ERC-20 utility token called the TLPAC token. The TLPAC Protocols are open Ethereum protocols that can power other future sharing economy dApps. These protocols provide the TLPAC network with three essential systems:

1. A secure payment system that allows two authenticated P2P entities to send and receive money that gets held in TLPAC Tokens until after a successful exchange of services between the two entities.

2. A decentralized arbitration system that resolves user disputes, providing positive incentives to grow a network of genuine arbiters and negative incentives to deter scammers.

3. A reputation system that couples a valid identity, which is obtained by a trusted digital fingerprint protocol on the Ethereum blockchain, with a rating determined by transparent, immutable review and scoring interchange between P2P entities (such as students and teachers).

This whitepaper expounds upon the TLPAC platform and the TLPAC Protocols. We aim to offer transparency into our token metrics and a future roadmap of development and expansion. We will discuss how TLPAC creates and preserves value for students, teachers, arbiters, and developers within a decentralized autonomous organization and how our decentralized model offers distinct advantages over the predominant, centralized education.

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Notice

Background

Bitcoin's creation in January 2009 created a program that challenges the way we distribute information this open ledger system offered decentralization from any other entity and was truly powered by the people. The ledger was powered by miners that confirmed every transaction rewarding them for their processing power. The concept of decentralization encouraged developers to produce similar blockchains. The Ethereum network was launched in 2015 and it enabled any developer to create a new decentralized application using the Ethereum network as a base. These dApps use the power of the blockchain to allow for secure and trustless asset transfer within the Ethereum network, eliminating the need for centralized middlemen from many business models.

Bitcoin has seen intensive growth in the past year and it continues to improve with the addition of the lighting network and segwit which allow for faster and cheaper transactions. Cryptocurrency is becoming mainstream, enjoying an ever-increasing adoption rate from investors and governmental agencies worldwide.

Thanks to Ethereum smart contracts, it is now possible to build a truly decentralized and automated education platform. This will be done with no middlemen and the public ledger will allow anyone to track where funds are transferred. We want our organization to be as clear as possible, so the funds always flow to the educators that need them the most.

Executive Summary

Education is a global industry. Worldwide expenditures rose to an estimated $6 trillion in 2016. Year-on-year growth in demand is fueled globally by population growth and an expanding middle class in Asia and Africa. Despite prospects for increased spending, students face many hurdles and restrictions that reduce the accessibility to quality education experiences. Rising tuition costs, student debt and layers of intermediaries, including universities, shut out many prospective students. For many, education is neither accessible or affordable and we feel like that is unfair. The platform is a single, accessible, and distributed network that allows students to seamlessly interact with professors and their academic partners in-person, onsite, in both local and international settings to raise the quality of accessible education at reasonable cost regardless of geographical location.

Through Ethereum-based smart contracts, agreement between students and professors will be attained with the least possible involvement of intermediaries. Our mission is to make education from the world's top educators accessible and affordable to everyone.

Financial Barriers

Increase in Tuition Costs

Rising tuition costs and disadvantages of geography also complicate the process. For students committed to lifelong learning, a lack of customizable options inhibits their ability to update their knowledge as their careers evolve. Additionally, access to the best educators is controlled and the cost inflated by the institutions who employ them.

Lack of Access to Quality Higher Education

Improving accessibility means addressing the challenges that students face in acquiring a great education. We recognize that overcoming obstacles is an important part of growing up. However, we also believe that creating a global marketplace can assist students in accessing many education options, customizing course selections, and managing the acquisition of student accommodation and transportation.

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Institutional Barriers

Several hurdles stand in the way of achieving broader student access to traditional, in-person higher-quality education. Professors, keen to increase their impact in the wider learning community, are often restricted by their home colleges on how, when and on what terms they can share their expertise. Students are hampered in their quest for knowledge by rigid controls on enrollment, course prerequisites and other onerous requirements. Gaining admission to some elite colleges can be more difficult and fraught with greater uncertainty than graduating. A rapidly changing world means education must adapt. The old paradigm of four-year and graduate education fails to address the importance of calibrating education to meet the needs of students and employers.

The TLPAC Solution

Overview

Using the power of blockchain technology and its smart contract-based payment platform, TLPAC will enable students and professors to interact directly and participate in the exchange of education and resources without the involvement of intermediaries. Our goal is to make quality education more accessible and affordable to everyone.

Demand for U.S.-based education has risen enormously with students from Asia, Africa, South America and the Middle East, seeking access to traditional four-year colleges as well as customized training and curriculum.

TLPAC's secure, blockchain-based platform allows students to seamlessly interact with educators and take advantage of custom-designed courses and education programs. Students can use TLPAC to search for curriculum that meets their needs.

TLPAC addresses many of the industry's challenges with:

- Providing access to international offices and testing facilities. While TLPAC can provide any type of learning experience, TLPAC emphasizes on testing the on-the-ground education for institutions around the globe.

- A single education community in which students, educators and service providers can communicate and participate directly in a secure environment.

- A more efficient way of sharing and understanding educational requirements, goals and details to meet the rapidly changing workforce and the growth of communities that lack educational support.

- A single, real-time system, curriculum description and payments on an agreed-upon schedule securing transactions for both the students as well as the educators.

- An integrated academic and curriculum schedule builder with details available to all participants to ensure development of educational programs that are clearly laid out and agreed upon by all parties.

The TLPAC team was inspired by the success of U.S.-based Excelorators, a premier provider of education services to overseas students, executives and managers seeking exposure to America's elite learning institutions and corporate campuses. On that foundation, TLPAC is establishing a new industry standard of satisfaction by revolutionizing the quality and accessibility of high-impact educational experiences. Excelorators will be the exclusive on the ground service provider of TLPAC education programs in the United States. Students and educators from Excelorators will pilot and test TLPAC and form the basis for mass adoption.

Technology Platform

Overview

We are creating an online platform that will provide for direct, transparent creation, negotiation and delivery of education programs that satisfy the changing needs of global students. The platform works in conjunction with an inclusive and decentralized payment system for secure transactions as well as a private ledger to work as a database to store the data in a secure way.

Backend Technology Overview

The TLPAC model will create an integrated platform where all types of students and student representatives can create and request services for education programs. Educators and educational service providers can receive requests for program fulfillment and delivery services all through frictionless, smart contracts.

TLPAC is a comprehensive platform that allows students, educators and service providers in the education industry to participate in a direct, decentralized, real-time marketplace. It empowers participants to search, select and purchase existing educational products as well as create, request and negotiate customized education experiences in online.

The TLPAC platform is a multi-dimensional education marketplace, accommodating participants, costs, locations and scheduling. The effort to fund, plan and host a complete in-person testing requires certain technical nuances for successful implementation.

TLPAC will be powered by a set of DAPPS on the Ethereum blockchain. Use of Ethereum will provide transparency and ease of payment. We are excited to also be working on our own decentralized network to which will run in our own protocol and follow strict security guidelines, the protocol is currently being developed by some of the best cybersecurity developers. All ERC-20 TLPAC tokens will be exchanged one the TLPAC main net launches at a rate of 1 TLPAC token to 1 TLPAC ERC-20 Token.

How it Works

The TLPAC platform connects students and educators with course offerings at any price point anywhere around the world. And with a growing community of users, TLPAC platform will be the ideal way to buy or sell customized education and training courses without any markup from intermediaries.

Users will login onto the platform, decide which services to purchase, and the record of such purchase is stored onto the blockchain. Functions and activities performed prior to purchase, like searching for or adding new curriculum will be handled by the off-chain platform.

Why Blockchain?

Blockchain technology has fundamentally expanded the capacity for people to coordinate and communicate. The TLPAC platform is a collaboration tool for a community working together to make education more affordable and more accessible. To understand how and why the TLPAC platform leverages this powerful new technology, three distinct blockchain use cases are examined.

TLPAC Tokenization

The tokenization of the TLPAC Business model, a software-as-a-service platform, is the first use of blockchain technology. The TLPAC community will be launched through the public sale of an ERC-20 token, TLPAC, that will serve as the software license in the TLPAC platform. The economic model for TLPAC is based on Discount Token research developed by the Larax Corporation. This design helps to isolate the utility of the token from fluctuations ensuring that use of the tokens is always advantageous. Through early participation in the TLPAC platform, token participants jumpstart the community and fund the development. With the launch of the platform token-holding community members will immediately have access to software at a discounted cost, enabling immediate access to lower-cost educational services.

Benefits of acquiring the TLPAC tokens during the token sale include:

- Immediate membership in the TLPAC community

- Discounted use of the TLPAC platform and services

- The power to sponsor Educators and Students to reduce their costs for participating in the TLPAC ecosystem

Thanks to the discount token framework, buying tokens is more than just a temporary transaction. It is a reusable resource enabling ongoing participation in the platform.

An important aspect of community is the concept of Identity. As part of the initial token distribution process, a Know Your Customer (KYC) process will be strictly observed.

Inside of the TLPAC platform, Identity will also include credentials of students and educators to provide the highest level of participation while delivering blockchain-level security.
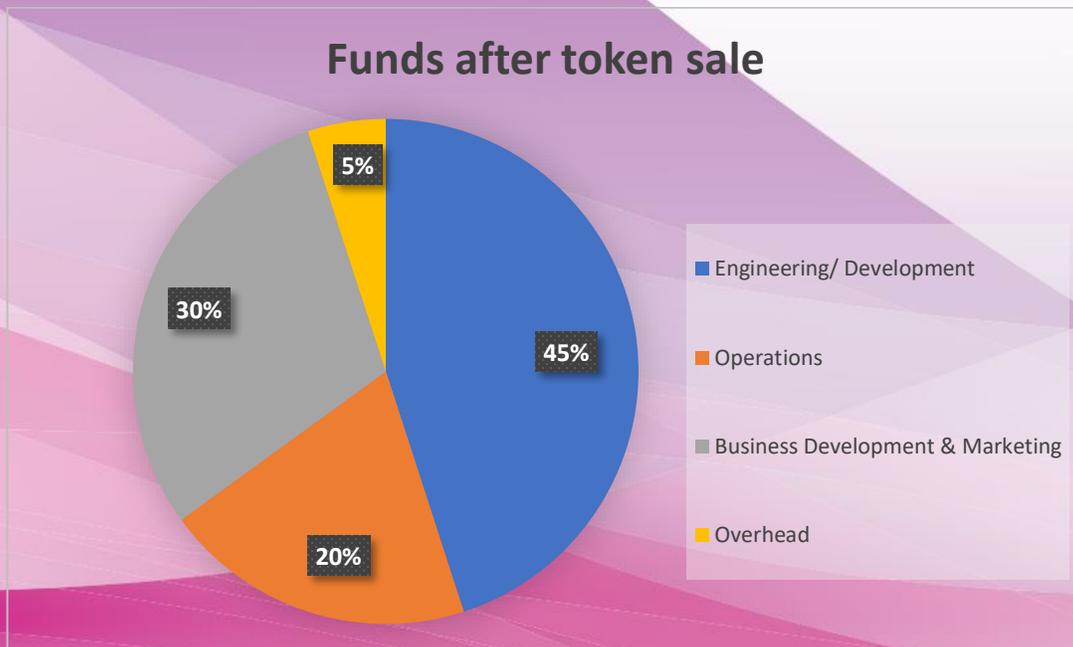
Arbitration

Every system of payment that requires trust (i.e. exchange of physical goods and services) needs a third party to mitigate misbehavior. The arbitration protocol acts as the hub for dispute resolution. Participants stake BEE tokens to the arbitration protocol contract in order to participate in the arbitration network. The stake amount is based on the current USD value of BEE and corresponding absentee rates aimed at maintaining an arbiter absentee rate of $< 5\%$.

Token Sale Total

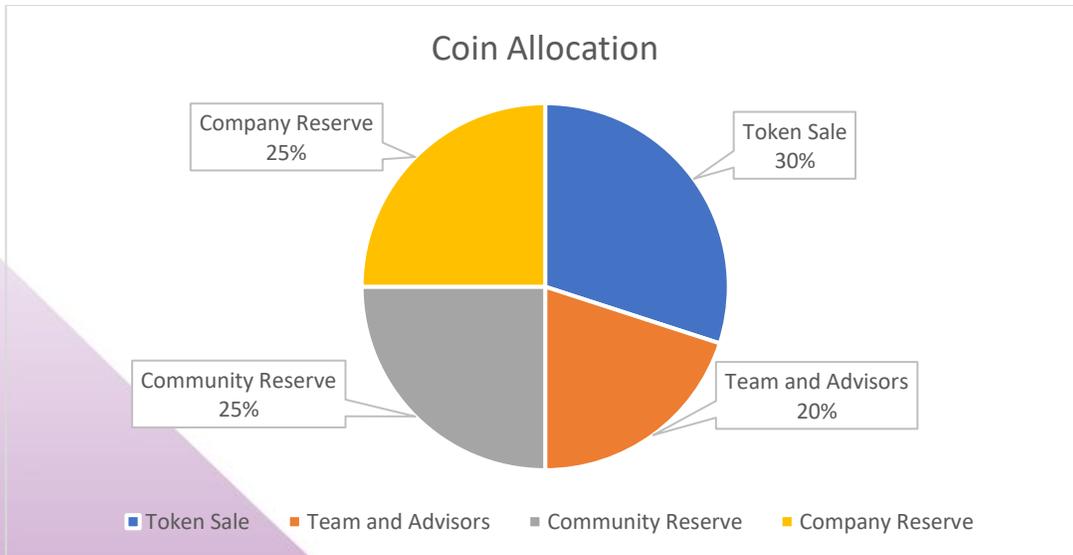Supply: 500 million TLPAC

Tokens Target Sale Amount: $15M

Funds after token sale

- Engineering/ Development — 45%
- Operations — 20%
- Business Development & Marketing — 30%
- Overhead — 5%

Below is the breakdown of the funds after the token sale

Coin Allocation

Company Reserve 25% — Token Sale 30% — Community Reserve 25% — Team and Advisors 20%

Legend: Token Sale · Team and Advisors · Community Reserve · Company Reserve

Official Cryptocurrency Education Sponsor

TLPAC initial market segment is the cryptocommunity. We will target conferences and events targeting this demographic by sponsoring and engaging in post-conference networking. This is a quick way to bootstrap our initial network and capitalize on brand recognition as the main home sharing platform on the blockchain.

Referral Program

Positive word-of-mouth is the lowest cost and most effective way to generate brand awareness, new leads, and immediate sales. TLPAC plans to implement a referral program to incentivize user acquisition of both hosts and guests. Users referring hosts who post a listing that results in a booking will receive TLPAC tokens. Likewise, users referring guests that result in a booking will also receive TLPAC tokens.

Ambassador Program

Ambassadors are liaisons between a company and the community. They serve as the voice representing the vision of TLPAC Token. Communities are becoming increasingly interested in blockchain technology and smart contracts. TLPAC plans to onboard TLPAC Ambassadors who are excited about the potential of a decentralized home-sharing platform. By promoting events, organizing hackathons, and volunteering for campaigns, we believe that the ambassador program will be pivotal in order to grow our developer's community. TLPAC Ambassadors handle: - Planning and hosting TLPAC/Crypto events/meetups - Developing marketing and outreach programs - Collecting feedback and sharing ideas to further promote the TLPAC Protocols and possible use-case applications In addition, TLPAC Ambassadors are able to obtain tokens through their contributions that further incentivizes them to promote the company and its platform. Lastly, with the rollout of a referral program, TLPAC sees the potential of creating a self-reinforcing feedback loop that generates more users and awareness for the company and its platform.