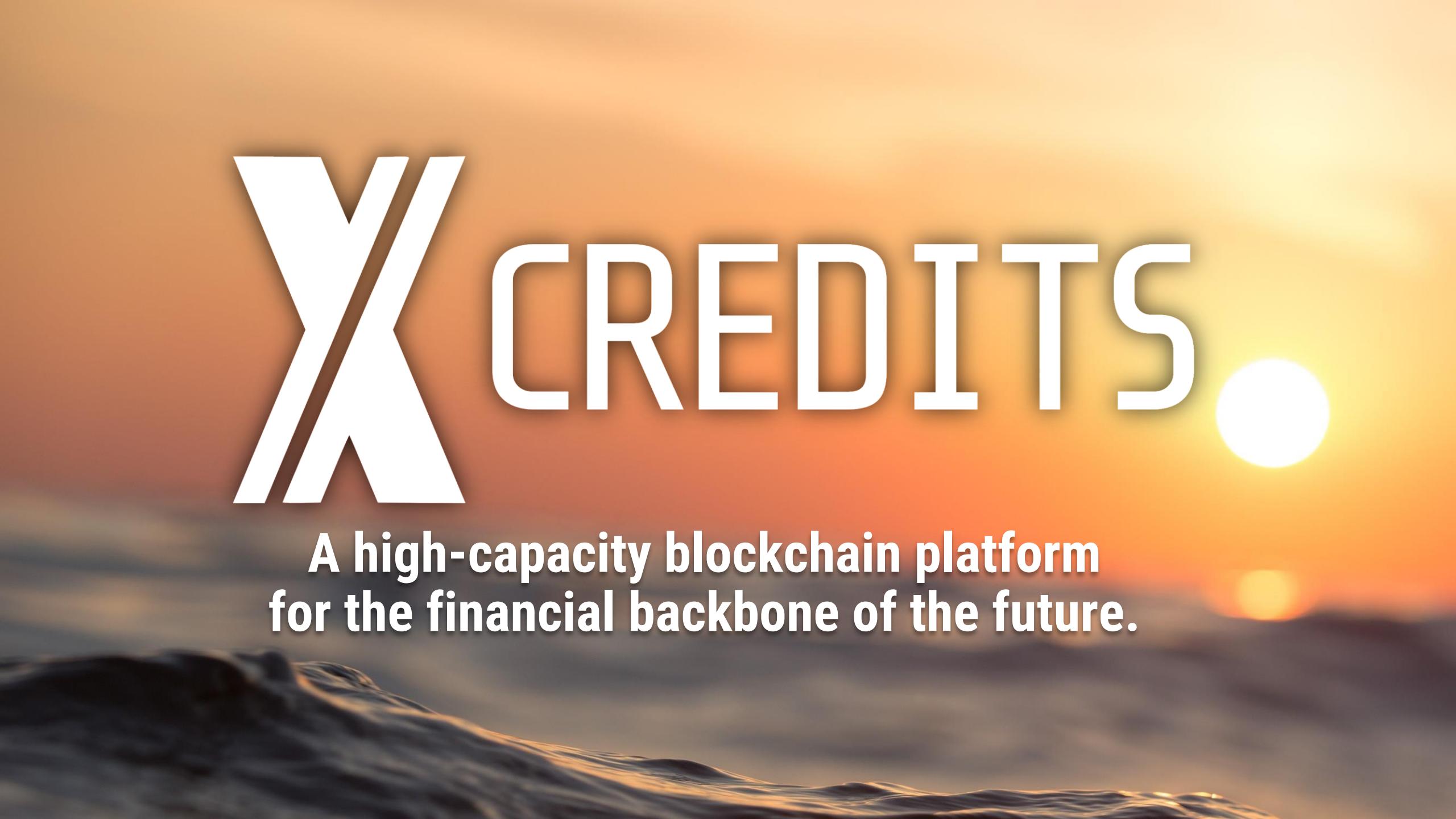


X CREDITS.

The background features a warm-toned sunset or sunrise over a dark, rippling body of water. A large, bright white circle representing the sun is positioned in the upper right, with a smaller, partially visible reflection of the sun appearing lower down on the right side. The sky transitions from deep orange at the horizon to a lighter yellow and then to a soft blue at the top.

A high-capacity blockchain platform
for the financial backbone of the future.

X CREDITS



Disclaimer

This document contains information about X Credits Pty Ltd, and its product, the XCredits platform.

This document does not constitute an offer of shares.

X Credits Pty Ltd is not currently running an Initial Coin Offering.

The investment being discussed in this document is suitable for qualified investors only. X Credits Pty Ltd will not be raising funds from retail investors in this round.

Investments in cryptocurrencies, and startups in general, have a high degree of financial risk. You should ensure that your investment risk exposure matches your financial needs.

X Credits Pty Ltd cannot and will not give any prediction about the value of the company or its product, the XCredits platform.



Major Features



More transactions

XCredits has more transactions thanks to its sharded transaction consensus mechanism. On-chain transactions are needed for mass adoption. Even scaling solutions like lightning are limited as they require on-chain transactions to open, close and secure payment channels against cheating.

Industry first tech

Proof-of-Work sharding

PoW gives security to the blockchain without compromising decentralization.

Microblocks

XCredits uses a variable block size which can be as small as a single transaction, allowing instant transaction confirmation. Rapid block production provides robust on-chain security against double spend attacks without putting all the miners on a single chain.

Fork merge mining

Small blocks leads to forks in the block chain. XCredits is the first public chain that allows forked chains to be merged back into a single chain, while reusing proof-of-work for increased security.

Tokens

XCredits can be used for tokenising almost anything. Using our opensource software, tokenize store credit and reward programs, fiat stable coins and company shares.

Easier spending

XCredits platform has a built in wallet with a beautiful interface, to make adoption faster and payments easier. Just scan a QR code, authorize the payment, and the transaction is made.

Privacy, KYC & AML

XCredits allows transactions to be recorded publicly but details of the transaction to remain private. Most public blockchain platforms cannot be used as financial infrastructure, as on-chain transactions are transparent.

You can specify if KYC is required to send or receive tokens, making it ideal for regulated assets. Banks must be capable of fulfilling Know-Your-Customer (KYC) and Anti-Money-Laundering (AML) requirements. XCredits provides a method for scalable compliance.

Safer mining

Imagine downloading an executable with full read and write permissions on your home computer. You wouldn't do it! Mining software opens risk to miners and their private keys. XCredits allows mining from the browser, increasing XCredits' decentralization.

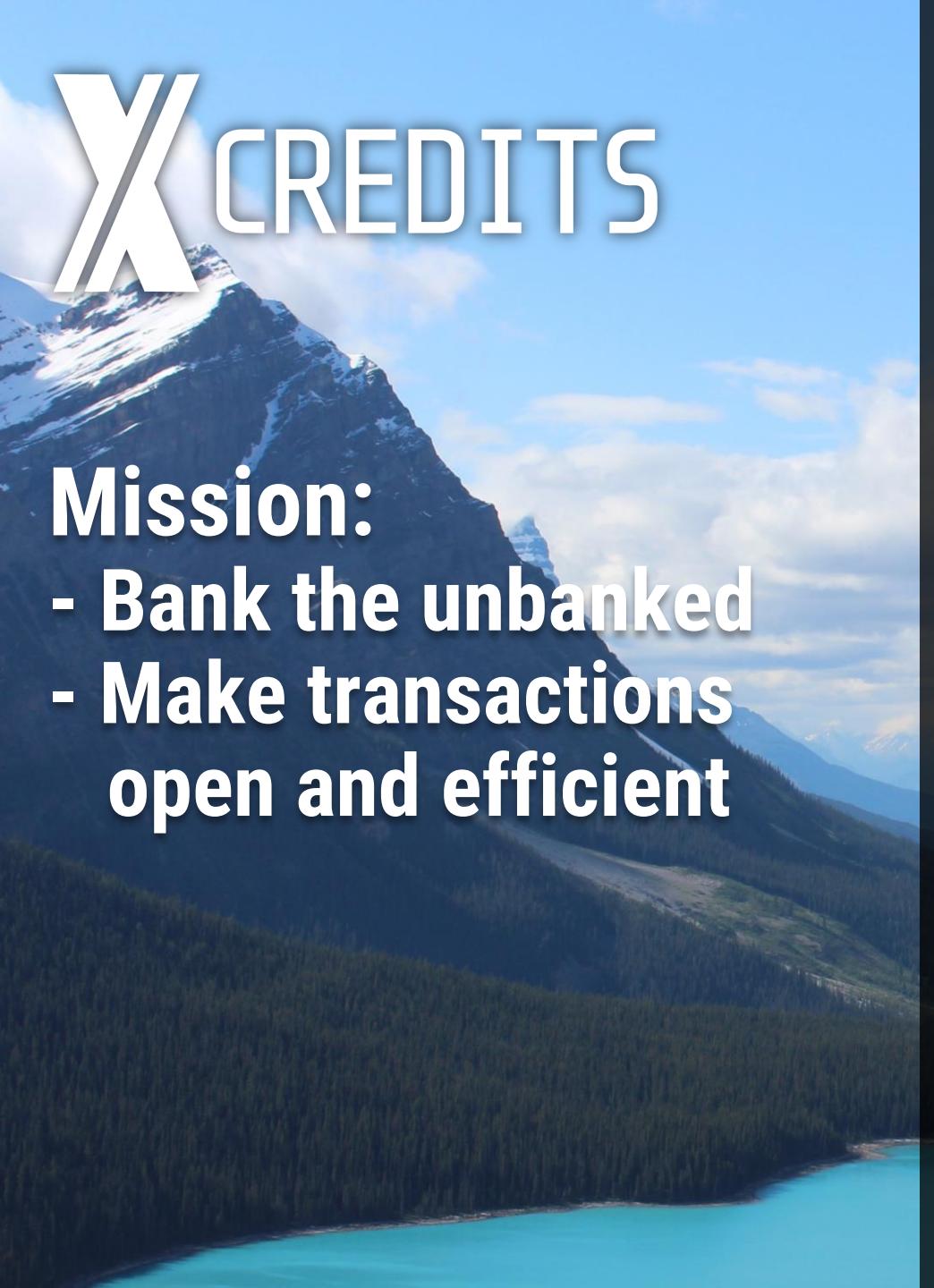
X CREDITS

Problem



1.7 Billion unbanked adults globally

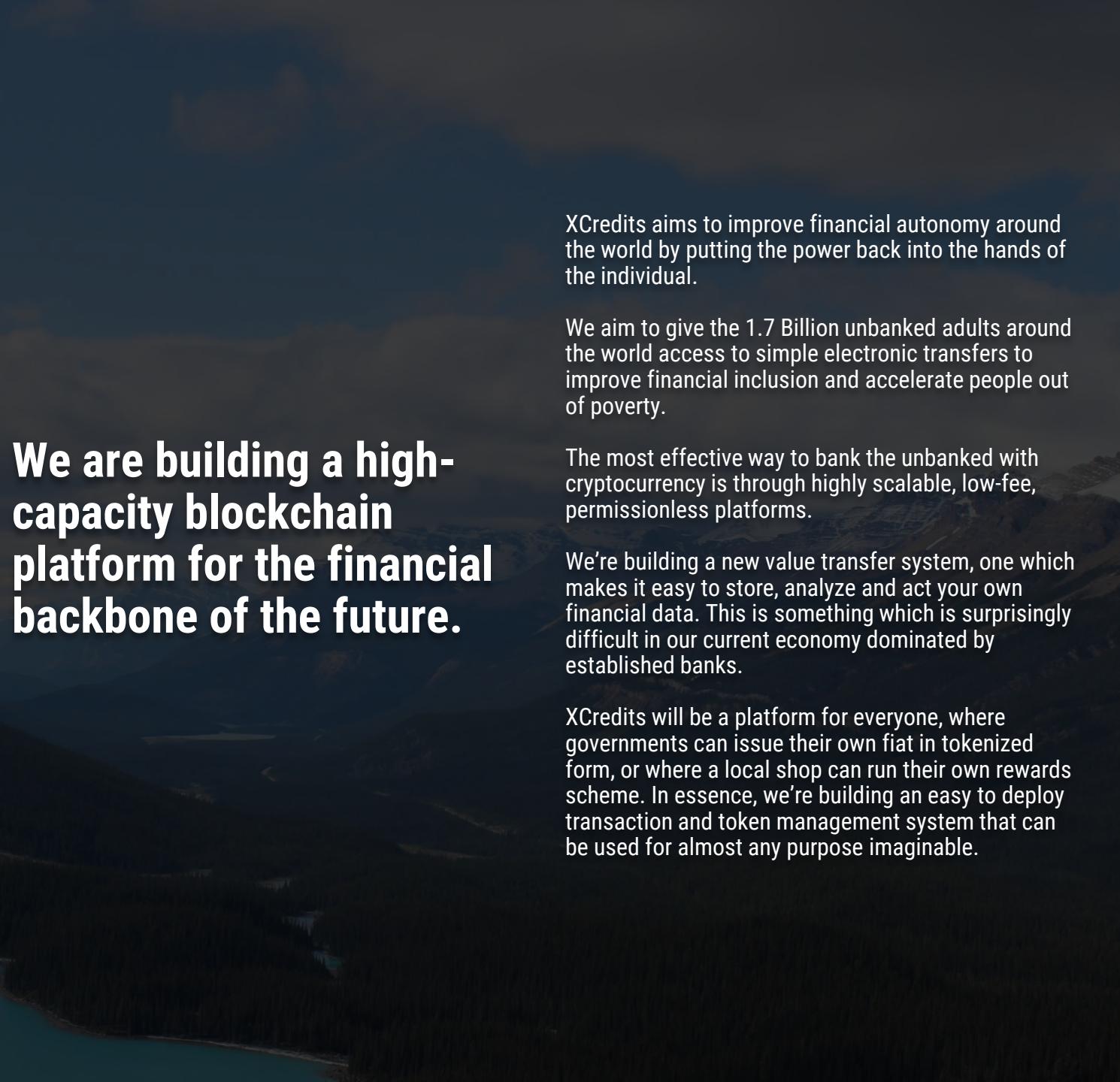
**Current financial systems are outdated,
restrictive and not accessible**



X CREDITS

Mission:

- Bank the unbanked
- Make transactions open and efficient



We are building a high-capacity blockchain platform for the financial backbone of the future.

XCredits aims to improve financial autonomy around the world by putting the power back into the hands of the individual.

We aim to give the 1.7 Billion unbanked adults around the world access to simple electronic transfers to improve financial inclusion and accelerate people out of poverty.

The most effective way to bank the unbanked with cryptocurrency is through highly scalable, low-fee, permissionless platforms.

We're building a new value transfer system, one which makes it easy to store, analyze and act your own financial data. This is something which is surprisingly difficult in our current economy dominated by established banks.

XCredits will be a platform for everyone, where governments can issue their own fiat in tokenized form, or where a local shop can run their own rewards scheme. In essence, we're building an easy to deploy transaction and token management system that can be used for almost any purpose imaginable.

Blockchain is a possible solution but there are big, unsolved problems

Scalability

To replace traditional payment systems you need transactions and a lot of them. 7.5 billion people need billions of transactions per day

Privacy & Regulatory Compliance

For blockchain to be broadly adopted, it needs to be compatible with the existing financial system. XCredits runs without a central authority but allows banks to implement the rules they need to maintain compliance.

Integration

It's hard to use most blockchain systems. XCredits makes it easy, with a great app that works on any device with a web browser.

It's also easy to create and accept your own token on the XCredits platform.

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XCREDITS

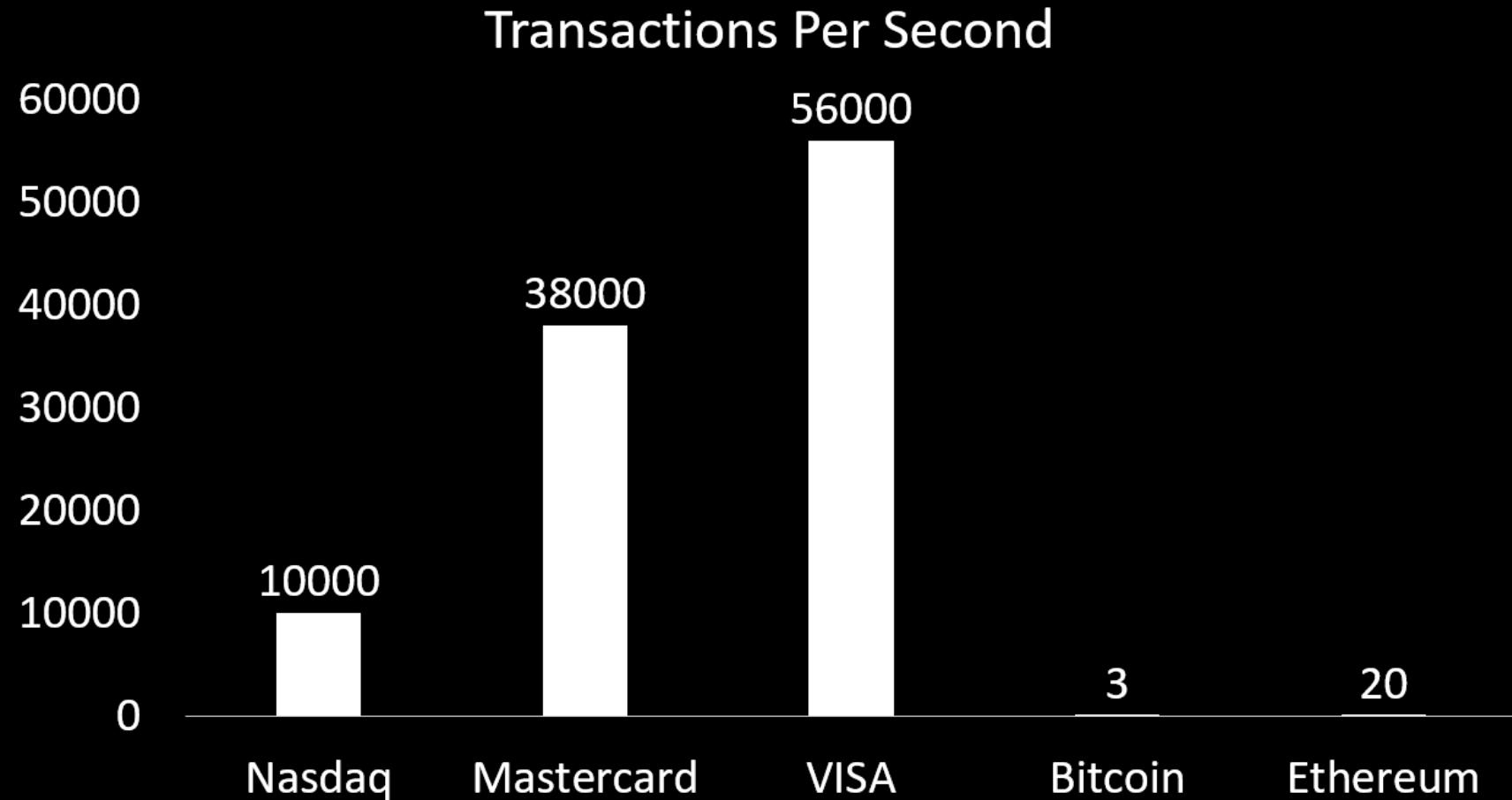
Scalability

Detailed problems and solutions

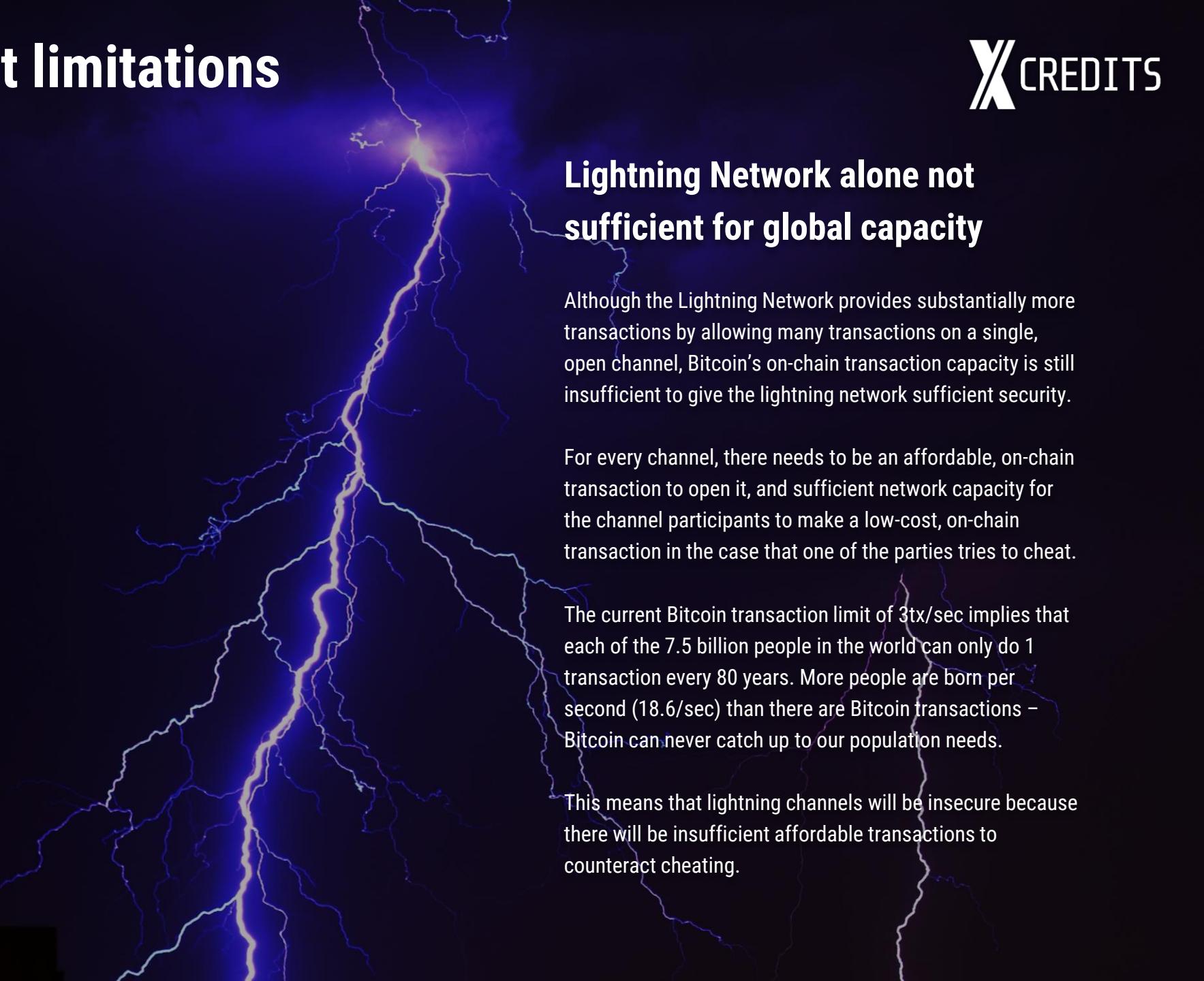
Scalability – current limitations



Bitcoin and Ethereum are not fast enough



Scalability – current limitations



Lightning Network alone not sufficient for global capacity

Although the Lightning Network provides substantially more transactions by allowing many transactions on a single, open channel, Bitcoin's on-chain transaction capacity is still insufficient to give the lightning network sufficient security.

For every channel, there needs to be an affordable, on-chain transaction to open it, and sufficient network capacity for the channel participants to make a low-cost, on-chain transaction in the case that one of the parties tries to cheat.

The current Bitcoin transaction limit of 3tx/sec implies that each of the 7.5 billion people in the world can only do 1 transaction every 80 years. More people are born per second (18.6/sec) than there are Bitcoin transactions – Bitcoin can never catch up to our population needs.

This means that lightning channels will be insecure because there will be insufficient affordable transactions to counteract cheating.



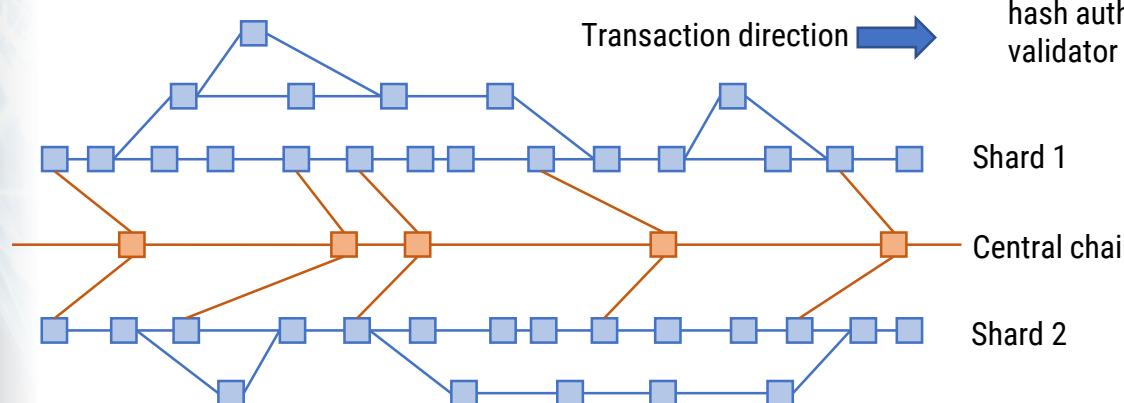
Central chain structure

Adversarial agreement model

All miners validate the central chain. A miner may be responsible for a single shard, and simply trust the network that the other shards are stored and do not contain inconsistencies like double spends.

To have some degree of faith in the other shards, a validator should request the validators of other shards to send them chunks of the shard, at random. By requesting blocks, at random, it becomes very unlikely that a validator is lying about holding all the chain.

If a miner finds a single error, it reports the error to all the shard validators. All results that are downstream from that error are rejected.



How central chain results work

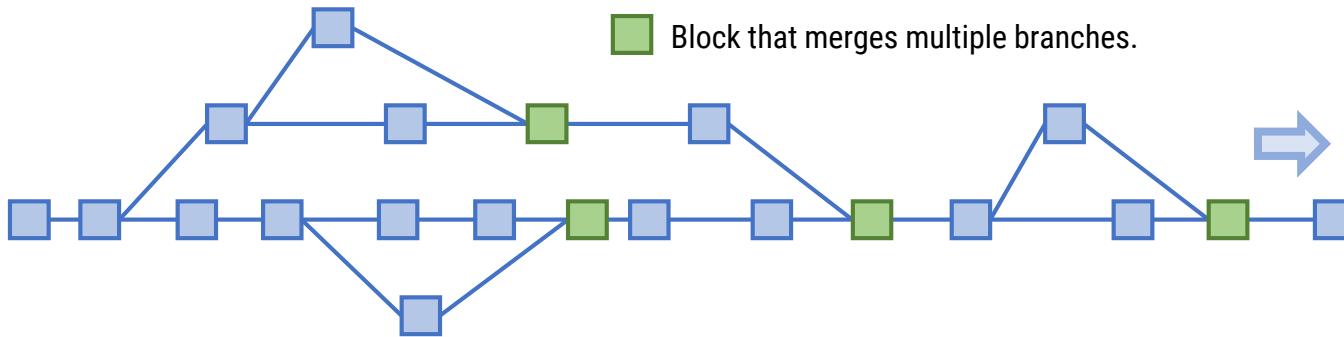
- The central chain generates a new block every approximately 10 minutes
- Included in this block is a hash result of recent side shards
- A side shard result cannot be included in the central chain results unless at least 10 minutes has passed between the creation of the shard block and the placing of the hash result on the central chain. Miners should also not mine on shard hash results that they have only received less than 10 minutes ago
- The first step of creating the central chain block is placing all the hashes in the block, then performing proof of work
- Once 1/10th of the proof of work has been completed, the result is communicated to the network.
- The network now starts to test whether the central chain blocks represent the real state of the side shards. If a shard validator asks its peers for evidence of the shards hash authenticity, and it cannot be provided, then the validator should give up on this central shard result.

Shard structure



Microblocks

XCredits blocks are different to traditional blockchain blocks. Although both XCredits and Bitcoin blocks bundle up transactions to mine upon, microblocks are substantially smaller, with as few as 1 transaction per block.



Merging blockchain branches through collaborative mining

Because there is, in effect, no minimum block size, it is highly likely that multiple blocks will be mined simultaneously. In XCredits, these divergent blocks can be merged, so long as:

- 1) There are no conflicting or duplicate transactions being merged in
- 2) The shorter branch is merged into the longer branch
A merged block is assumed to have a block height equal to the current branch plus the length of the merged branch.

Mining power relative to block size

To mine a block, a minimum amount of mining power must be exerted. To achieve this with microblocks, the mining required is proportional to the size of the block being mined. A block which is twice as big requires twice as much mining power exertion.

High-speed confirmation

As transactions are mined on smaller blocks, XCredits blocks can achieve certainty of transaction more quickly. In Bitcoin, for example, a block is mined every 10 minutes. It takes on average 10 minutes for a transaction to end up in a block. Even then, the block may be replaced by another chain that gets ahead of the current block.

XCredits microblocks, once they have achieved sufficient mining power, can be merged into the longest chain at any point. This means that blocks with mined, single transactions can be considered effectively mined immediately. This has substantial confirmation power for low-fee transactions.

Shard structure



Rewards for merging branches

In order to encourage branches to merge as soon as possible, the block that merges another shorter branch is given part (10%) of the reward for the branch that is merged. Merges can also only include transactions that are at most 10 minutes old.

Statistical rewards

With potentially so few transactions per block, the size of transaction fee reward could potentially be quite small. In fact, in many situations, there will be a single transaction per block, and to spend the block reward would require the same amount of fees as the reward!

To ensure block rewards are sufficiently large, XCredits uses a statistical reward model. Block rewards can be given on a probability basis by setting a multiplier parameter. This multiplier parameter is in base 10, and can be between 1 and 3. Once the result of the shard is pushed to the central chain, then next central chain mine result hash determines whether a reward is given.

Optimal mining strategy

In order to maximize rewards and minimize risk of losing rewards, miners should mine the smallest block they can (1-2 transactions) while merging in 1-2 branches. The number of transactions and merges that should be included will depend on the number of outstanding transactions and branches.

Geographical latency compensation



All blockchains suffer from latency effects, where miners and transactions initiated far away (timewise) from the 'center' of global mining are at a disadvantage. This is potentially even worse in a system with very small block sizes and small block times (*if the mining occurs in a single chain*).

XCredits allows branches of shard chains to be merged (given there are no conflicts). This gives advantage to regional miners when mining transactions initiated in their region. For example, Australian miners can validate Australian transactions, and EU miners can validate EU transactions quickly, and the result of both can be merged quickly into a single blockchain.

More “5% attack” resistant



Smaller, more frequent blocks are more secure

It is generally considered a requirement to wait 6 block confirmations in order to be certain about a transaction.

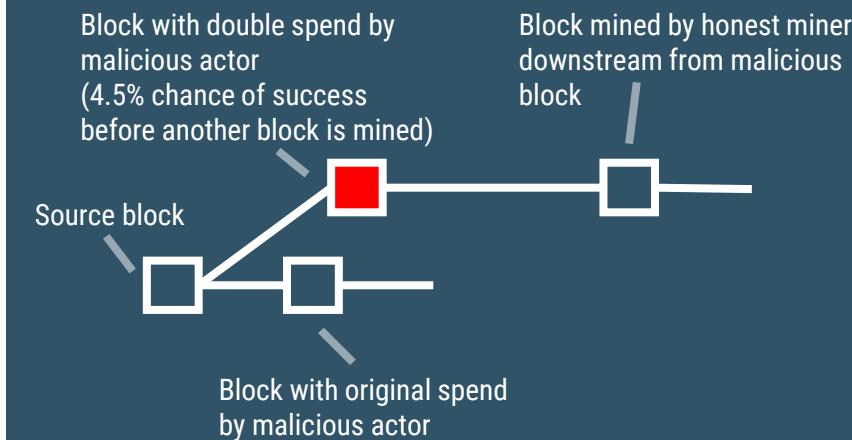
With even a small amount of mining power, a malicious miner can manipulate the network to achieve a double spend.

When the confirmation time is 10 minutes, this means the user must wait a substantial amount of time. However, the number of blocks the user must wait does not depend on the amount of mining power or block time; the attack success rate only depends on the total mining power of the malicious actor. As such, shorter block times provide the same block-wise confirmation.

The XCredits microblocks structure validates transactions with proof-of-work as quickly as possible, meaning that multiple opportunities for validation can occur while avoiding transaction conflicts.

Malicious validators with small hashrate

In the below example, a miner with 5% of total mining power has a 4.5% chance of being able to mine a new block before the next block is mined, causing a risk that the block mined may be selected by the network. Even if the network generates a second block, the malicious actor with 5% of network power has a 0.25% chance of mining a two new blocks to compete with the block leader and complete a double spend.



Although the attack has a low probability of success, it still implies that the receiver should wait for multiple confirmations.



X CREDITS

Privacy & Regulatory Compliance

Detailed problems and solutions



Privacy

Chain analytics is widely used by corporations and governments to inspect the blockchain. A public blockchain results in information disclosure about transactions.

This can cause problems with privacy legislation if, for example, a bank uses a public blockchain as back-end infrastructure. Additionally, placing information publicly on the blockchain causes market disadvantage, as competitors can see orders and may gain advantage through front-running on-market orders.

Read more about how XSPOCT works in the [updated XSPOCT Whitepaper](#). A video explaining the process is available [here](#).

AML/KYC processes managed on-chain

Many banks and other traditional industries are keen on using blockchains to improve their existing processes.

For many transaction types, there are legal or risk governance restrictions on who can and cannot participate in a transaction.

This has lead to a flurry of activity in private blockchains, such as Hyperledger, however Hyperledger does not have a core feature of blockchains: Permissionless immutability of the blockchain.

XCredits provides a system for restricting token transfer to authorized individuals on the blockchain, such that regulated institutions can get the benefit of both public and private blockchains in a single platform.

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Integration

Detailed problems and solutions

Integration – Customer Journey



XCredits Platform

- Progressive Web App
- Works on any device, including low-powered Android devices
- Behaves like a native app
- Censorship resistant
- Miner
- Basic wallet

Integration – Customer Journey



Using XCredits is easy

The XCredits platform has a built-in wallet system that allows people to both send and receive XCredits quickly and easily.

Merchants present their wallet QR code to customers. Customers use their phone to scan the QR with the XCredits platform's built-in QR scanner. After being prompted to release the funds, the transaction is communicated to the network and the point-of-sale device is updated to show that the transaction has completed.

Works with low-cost hardware

In locations where payment systems are poor, often the consumer hardware of both the merchant and the consumer is older. XCredits can work on older hardware, such as low-cost Android phones, meaning that implementation costs can be close to zero, a vast improvement on traditional POS implementations.

Works with tokens

XCredits allows you to set up tokens on top of the XCredits system. This means that anything from fiat currency to store credit can be created on XCredits. So how do you spend it? The XCredits wallet system is designed to allow XCredits and tokens based on XCredits to be sent.

App or webpage

Using XCredits wallet is as easy as opening up a webpage. There is no need to download or install any app locally.

Everything from checking the balance to making a transaction can be done in a browser.

This enables quick mass adoption as the wallet can be used on any device that has access to the internet.

The XCredits platform is also a Progressive Web App, meaning that you can install the webpage as an App, to improve load speed.

Censorship resistant wallet

App store-based wallets are at risk of being removed by the companies that host them. By being web-based, XCredits is resistant to censorship from major app stores such as Android, Apple, Tencent, Huawei and Xiaomi app stores.

Devices with no access to the Apple and Google play store are able to access XCredits platform as well.

The wallet is also open source, meaning that if the XCredits website is blocked in a particular region, anyone can set up a wallet hosting webserver.

Merchant journey



A global case study

Hugo the merchant

Hugo is running a market stall and currently accepts cash. The value of his local currency is unstable. It is difficult for him to constantly reprice items.

Dealing with cash increases security risk as Hugo has to keep cash on the premises.

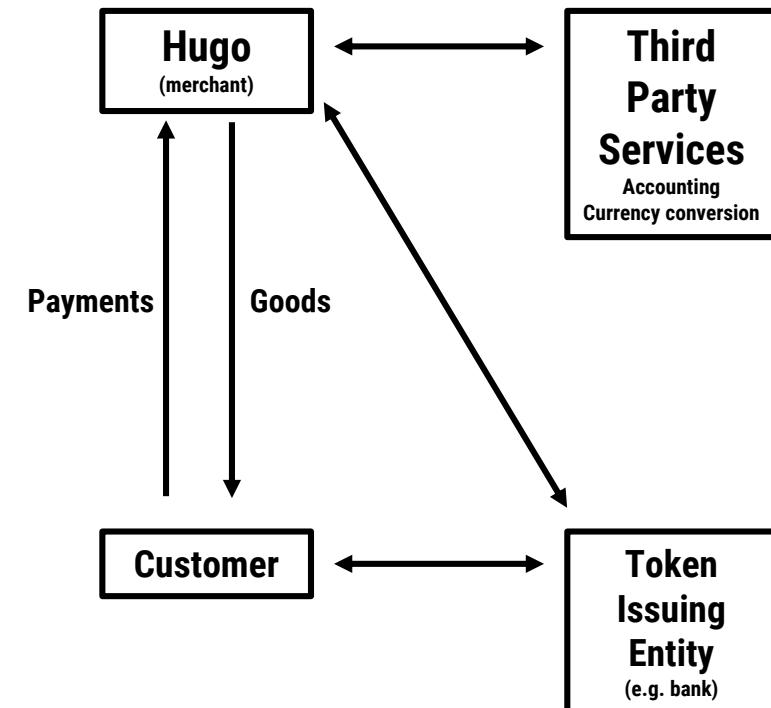
Cash is cumbersome. Hugo has a hard time sending it to his parents or to a remote supplier.

Upgrading to electronic payments with XCredits

Hugo wants to use an electronic Point of Sale terminal, but bank issued PoS terminals are too expensive.

Hugo has a basic Android phone, which he can use to run the XCredits platform. The platform enables him to receive tokenized local currency from local customers, international currencies from tourist customers or accept the native XCredits as payment.

Hugo also benefits from third party apps for services such as accounting and currency conversion.



Detailed User Experience



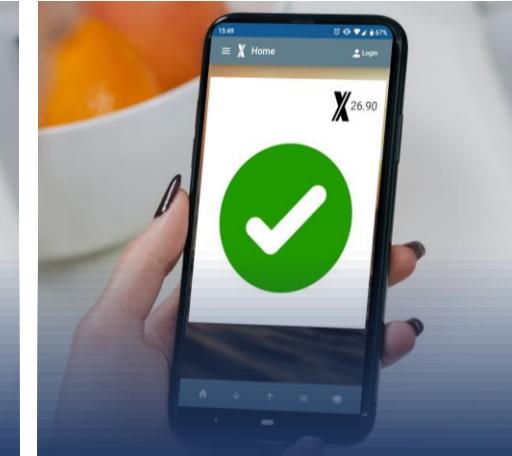
Step 1:
Customer takes
items to register



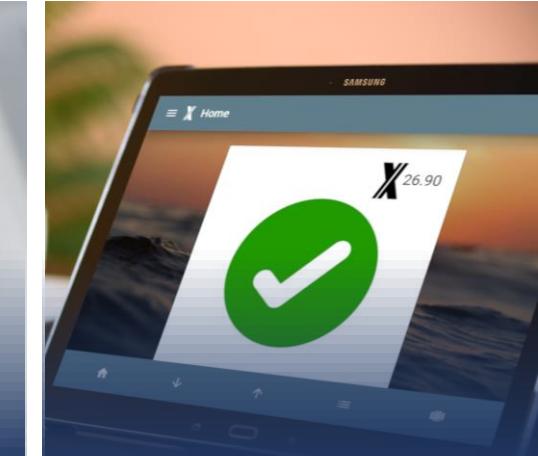
Step 2:
Merchant enters
items and
display QR code



Step 3:
Customer uses
phone camera to
scan the QR
code



Step 4:
Customer
confirms amount
and makes
payment



Step 5:
Merchant
confirms
transaction

Sydney Coffee Club

A proof-of-concept and marketing project for XCredits



A core use case of XCredits is in creating systems that integrate payments, rewards schemes, accounting and customer identification into a single system.

XCredits intends to develop the basic core technology behind such a system and deploy a proof-of-concept in a single city.

XCredits will build a platform called the 'Sydney Coffee Club'

Users are enticed to join the platform with the promise of \$1 coffees for the first 3 coffees which connects the user's bank account to the bank account of Sydney Coffee Club to allow automatic top up of coffee credits.

System will integrate directly into the accounting system of the café.

There will be no cost to the merchant or the customer. Merchant only needs to reward customers for purchasing with the Coffee Club e.g. give a free coffee every 5 coffees purchased. A shop specific token will be used to run the reward scheme system. Users are given a tax invoice delivered to their device instantly, which can be useful for workplace events etc. Deployment of the payment infrastructure involves purchasing a low-cost Android tablet for each cafe, and instructions on how to set the system up on server's personal devices such as iPhones.

XCredits is looking for banks to partner in the deployment. However we intend to progress with or without a bank partner.

'Sydney Coffee Club' uses XCredits to pay the fees for recording transactions

Most retailers and users would not be aware that they are using a blockchain system for the payment of their coffee, however Sydney Coffee Club would be branded as "by XCredits". With deeper investigation, users might be able to see under the hood of the system, e.g. see the number of confirmations on the blockchain and the amount of XCredits fees paid for on their behalf.

X Credits Pty Ltd pays for this through the sale of XCredits in a rising market in the context of increasing deployment.



Integration – Miner Journey

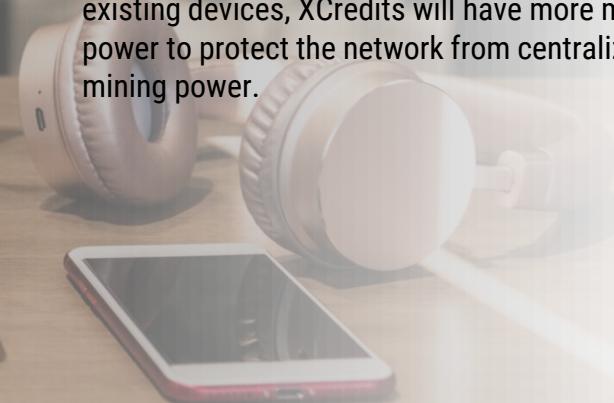


Mine on consumer-grade hardware

The general public can participate in mining with regular, consumer-grade hardware. XCredits' Microblocks architecture allows validators to receive mining rewards regularly.

Resistant to centralization

With more users having the opportunity to generate mining rewards quickly, safely and easily with their existing devices, XCredits will have more mining power to protect the network from centralization of mining power.



Resistant to security issues

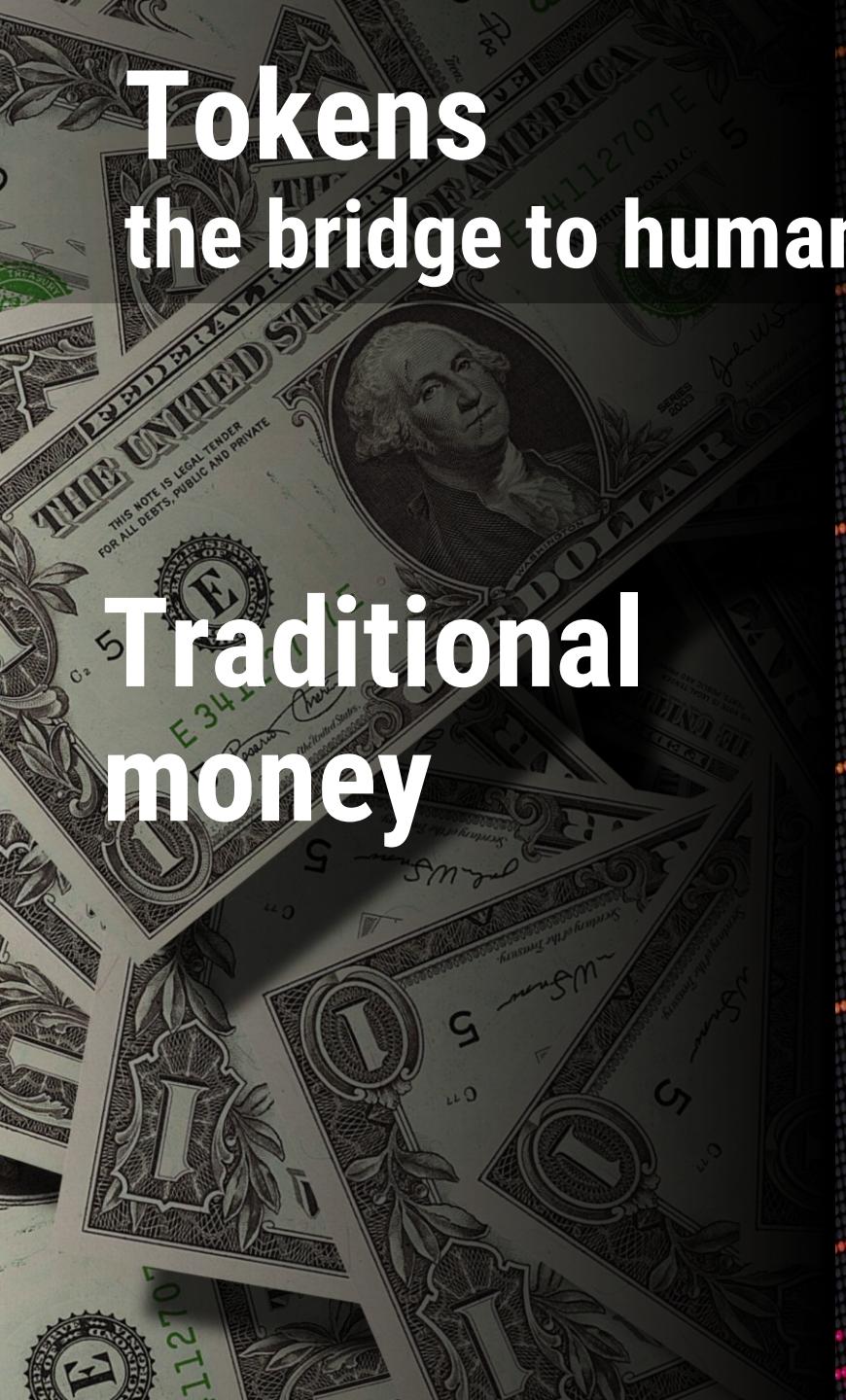
The XCredits browser-based mining platform allows validators to open up the website and start mining. There is no need to install any mining software that could potentially threaten the security of the user's device.

Resistant to ASICs

The XCredits mining algorithm is memory-bound, meaning that many memory operations are needed to validate blocks. This design limits the ability of miners to create ASICs that work solely on optimizing to a particular algorithm. Although ASIC development companies may decide to create high-memory optimized ASICs, the per-CPU cost of doing so is high.

Tokens the bridge to humanity

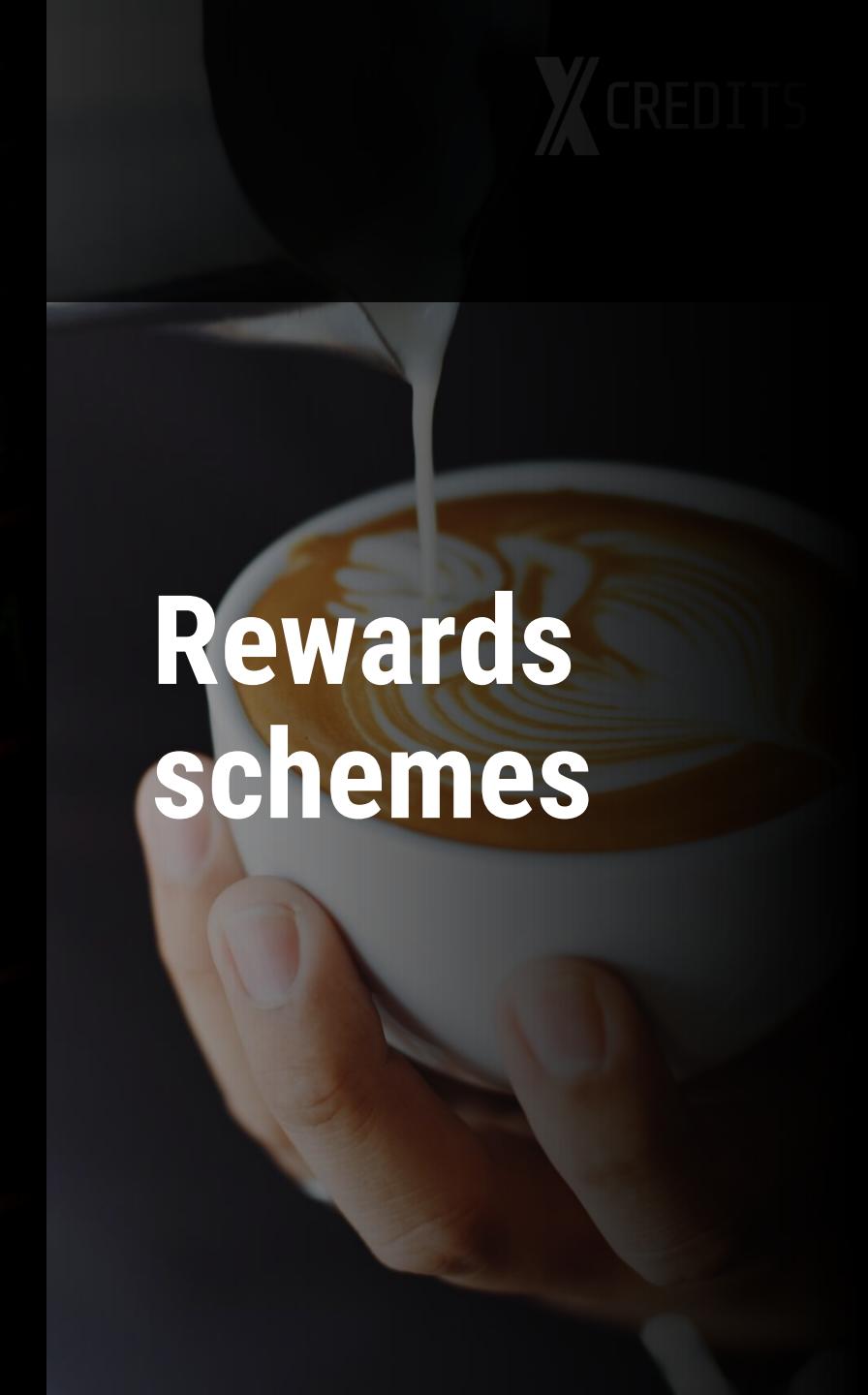
Traditional money



Company stock



Rewards schemes



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XCREDITS

Team



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Founder @Tapview, a H2 Ventures funded startup
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Alyse Sue

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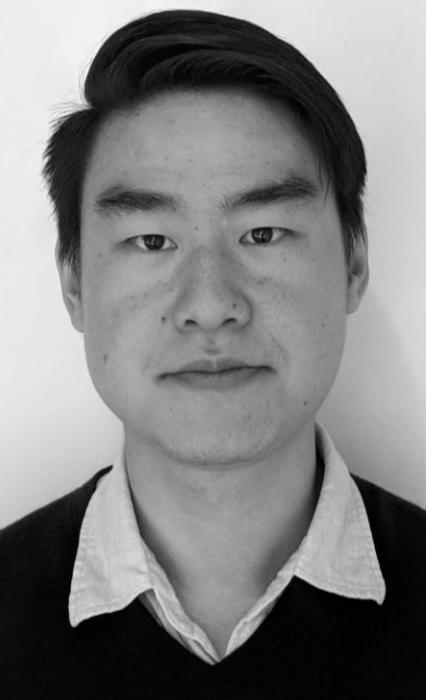
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X CREDITS

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XCREDITS

**Timeline &
Roadmap**

Timeline & Roadmap



XSPOCT
June 2018



SendZero
July 2018



**Basic transaction
functionality**
December 2018



Start Hiring
Feb 2019



Token auction begins
Mar 2019



Lazy Web App
July 2018



Whitepaper
Dec 2018



Closing Investment
Jan 2019



**Point of sale
functionality
fully deployed**
Feb 2019



**Creating
partnerships &
subsidiaries for
fiat-backed stable
tokens and
banking services**
July 2019

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XCREDITS

**Business model &
Tokenomics**

Business Model

The primary (but not exclusive) source of revenue for XCredits is through the capital growth of the XCredits underlying currency.

The company will start to sell XCredits tokens in a continuous rolling token auction, similar to EOS.

The revenue from the sale will go towards:

- Reinvestment into building the XCredits platform and partnerships**
- Dividends to shareholders**



Why do XCredits have value

The purpose of the value of XCredits is the ability to pay the fees for placing transactions into the blockchain like GAS for the Ethereum network.

By buying XCredits now, people are buying into the future value of the fees associated with putting transactions on the blockchain.

Although we expect people to mine XCredits themselves, the majority of demand for XCredits will be met by the company selling them. Increasing demand for making transactions will drive up the value of XCredits with time.

How do we generate value for investors?

Investors invest in X Credits Pty Ltd company

X Credits Pty Ltd company owns XCredits

XCredits sells into market exchanges AND financial institutions that want to facilitate transaction

Financial institutions burn off XCredits in fees



Token Model

X100B

produced in 1st year

X80B

X Credits Pty Ltd

X20B

Miners

X30B

Rolling token sale in first year

Following years:

1% inflation rate (controlled supply)
for miners

10% selling rate for the remaining
owned by X Credits Pty Ltd



XCredits Controlled Supply Model

We don't have a hard cap. Instead we have a soft cap of 1% inflation annually.

Maintain the security of the network for generations after generations

The disadvantage of a hard cap is that it will eventually be reached and no blocks will be produced afterwards. At that time there will be no more block reward, thus no mining to ensure the security of the network in a decentralized way. A soft cap allows new blocks to be produced forever, keeping miners incentivized to maintain the computational power needed to prevent double spending attacks.

Also, a hard cap will deflate the underlying token. A constant rise in price is not helpful when it comes to actually using the network.

Besides, 1% annual inflation is below the CPI inflation rate of most economies.

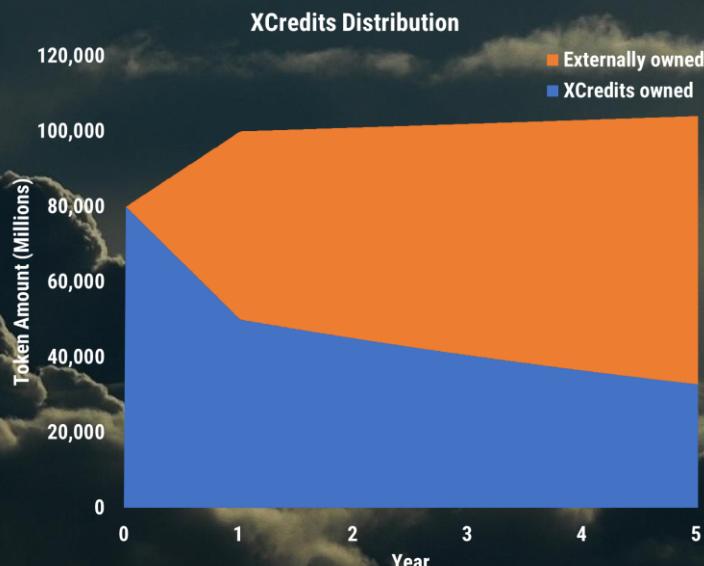


XCredits are supplied to the market by token sale and mining at a staged rate

To incentivize early adoption and increase mining power, supply in the first year is accelerated.

The company intends to release a significant proportion of the pre-mined tokens (30 Billion in the first year). X Credits Pty Ltd will own 50% of the total amount by the end of the first year.

The company will sell 10% of its remaining tokens each year on a rolling basis, resulting in X Credits Pty Ltd owning less than a third of tokens by the fifth year.



Year	External	X Credits Pty Ltd	Total
	Yearly Mining rate (million)	Yearly Selling rate (million)	
1	20,000	30,000	50,000
2	1,000	5,000	6,000
3	1,010	4,500	5,510
4	1,020	4,050	5,070
5	1,030	3,645	4,675

Year	External Amount (million)	X Credits Pty Ltd Reserved Amount (million)	Total
	(million)	(million)	
0	0	80,000	80,000
1	50,000	50,000	100,000
2	56,000	45,000	101,000
3	61,510	40,500	102,010
4	66,580	36,450	103,030
5	71,255	32,805	104,060

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XCREDITS

Competitors

Company	Permissioned Chain	DPoS	PoS	PoW	Sharding	Big Block Size	DAG	Token	Algorithmic-stable coin	Pegged-stable coin	Private Transactions	DEX	Focus on Regulatory Compliance
XCredits				✓	✓			✓			✓	✓	✓
Ripple	✓							✓			✓		✓
Hyperledger	✓									✓			✓
Ethereum				✓				✓				✓	
Ethereum (Casper)			✓		✓			✓				✓	
Cardano			✓					✓					
MakerDAO				✓ (ETH)				✓	✓			✓	✓
IOTA							✓	✓				✓	
Hashgraph	✓							✓	✓				✓
Fantom								✓	✓			✓	
Nano			✓					✓	✓				
EOS		✓						✓					
Tether	✓									✓			
Circle	✓									✓			✓
Basis		✓							✓				
Wanchain			✓					✓			✓	✓	✓
Omisego			✓					✓				✓	✓
Quarkchain				✓	✓			✓					✓
Zilliqa				✓	✓	✓		✓					✓
Harmony			✓		✓			✓					✓
ZCash				✓				✓			✓		
Monero				✓		✓		✓			✓		
Holochain					✓			✓				✓	
Coti							✓	✓				✓	

XCredits Advantages

Most projects claim they can do hundreds of thousands of transactions per second today with near zero costs. It is trivial for most developers to set up a highly scalable database in the cloud.

The real test for blockchains is what happens in a decentralised and distributed version of the blockchain.

Security through economics

XCredits' approach is different. We believe that the fundamental elements of blockchain are computer science and economics. From the very beginning, the security of Bitcoin has been based on economic incentives. These economic incentives prevent bad actors from rewinding the Blockchain to cheat people out of transactions, because it is incredibly expensive to do so.

The core philosophy of research at XCredits is designing games in which people win if they work together.



A photograph of a coastal sunset. The sky is a gradient from deep blue at the top to a bright orange and yellow near the horizon. Several large, dark rock formations are silhouetted against the light of the setting sun, which is visible on the left horizon. The ocean in the foreground is dark and reflects the colors of the sky.

X CREDITS

Budget

Budget



Expense	Cost per unit	Units	12 month cost
Salary - Developer			
FrontEnd Senior Developer	\$170,000/year	3	\$510,000
BackEnd Senior Developer	\$170,000/year	3	\$510,000
FrontEnd Junior Developer	\$90,000/year	3	\$270,000
BackEnd Junior Developer	\$90,000/year	3	\$270,000
Subtotal			\$1,560,000
Salary – Others			
CEO	\$150,000/year	1	\$150,000
Raise VC Sr	\$150,000/year	1	\$150,000
Raise VC Jr	\$40,000/year	1	\$40,000
Community Manager	\$70,000/year	1	\$70,000
Administration	\$75,000/year	1	\$75,000
Subtotal			\$485,000
Operations			
Office Rent	\$800/p/month	17	\$163,200
Insurance	\$500/p/year	17	\$8,500
Computers	\$2000	20	\$40000
Phone	\$1000	10	\$10000
Employee Acquisition	\$1000	15	\$15000
Subtotal			\$236,700
Marketing			
Conferences/Promotional events	\$1,000/p	34	\$34,000
International Travel	\$3,500/p	34	\$119,000
Subtotal			\$153000
Total			\$2,434,700

Projected Monthly Expenditure



A photograph of a coastal sunset. The sky is a gradient from orange to dark blue. In the foreground, there are several large, dark rock formations jutting out of the water. The sun is low on the horizon, casting a warm glow. Overlaid on the left side of the image is the word "XCREDITS" in a large, white, sans-serif font.

XCREDITS

Investment

**Raise
AU\$3.6M
12% equity
18 months runway**

**Purpose
Development
Design
Code audit / battle testing
Marketing**



XCredits Equity Raise

Most blockchain projects sell tokens in exchange for capital. Investing in this round is an investment in our company.

A token raise before main net launch is legally complicated in Australia

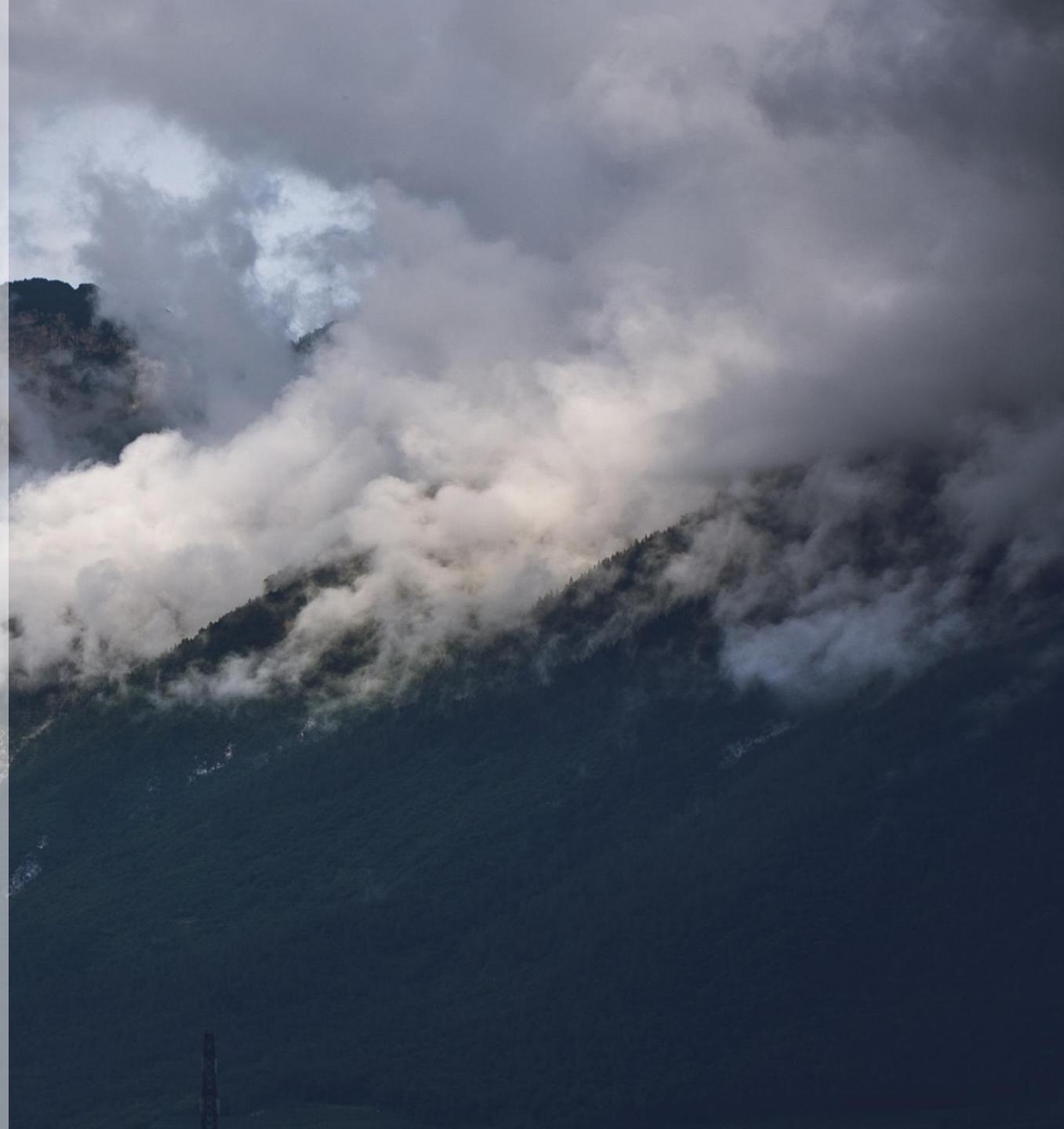
Promising a future token with a ERC-20 is classified as a managed investment scheme, which is subject to ASIC approval.

Token only sale may not generate maximum value for our investors

Tokens face additional risks compared to equities such as bugs, wallet hacks and private key lost, especially in the early days of project. Token's price might be manipulated, harming the community's faith and investor's wealth at the same time. Tokens paid out to investors could be subject to income taxes if they are considered dividends. Tokens also face future regulatory risk.

By buying into the company, shareholders not only get benefit of a rising token price, but also the good will and intellectual property of the company itself, a relatively unique proposition among blockchain companies

Optional partial exit will be accommodated in future fundraising rounds.



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XCREDITS

Appendix: Demonstrated Success

Major stepping-stone projects



XSPOT



XCredits-Style Private Off-Chain Transactions

Send Bitcoin (and other currencies) privately

Demonstrated Success



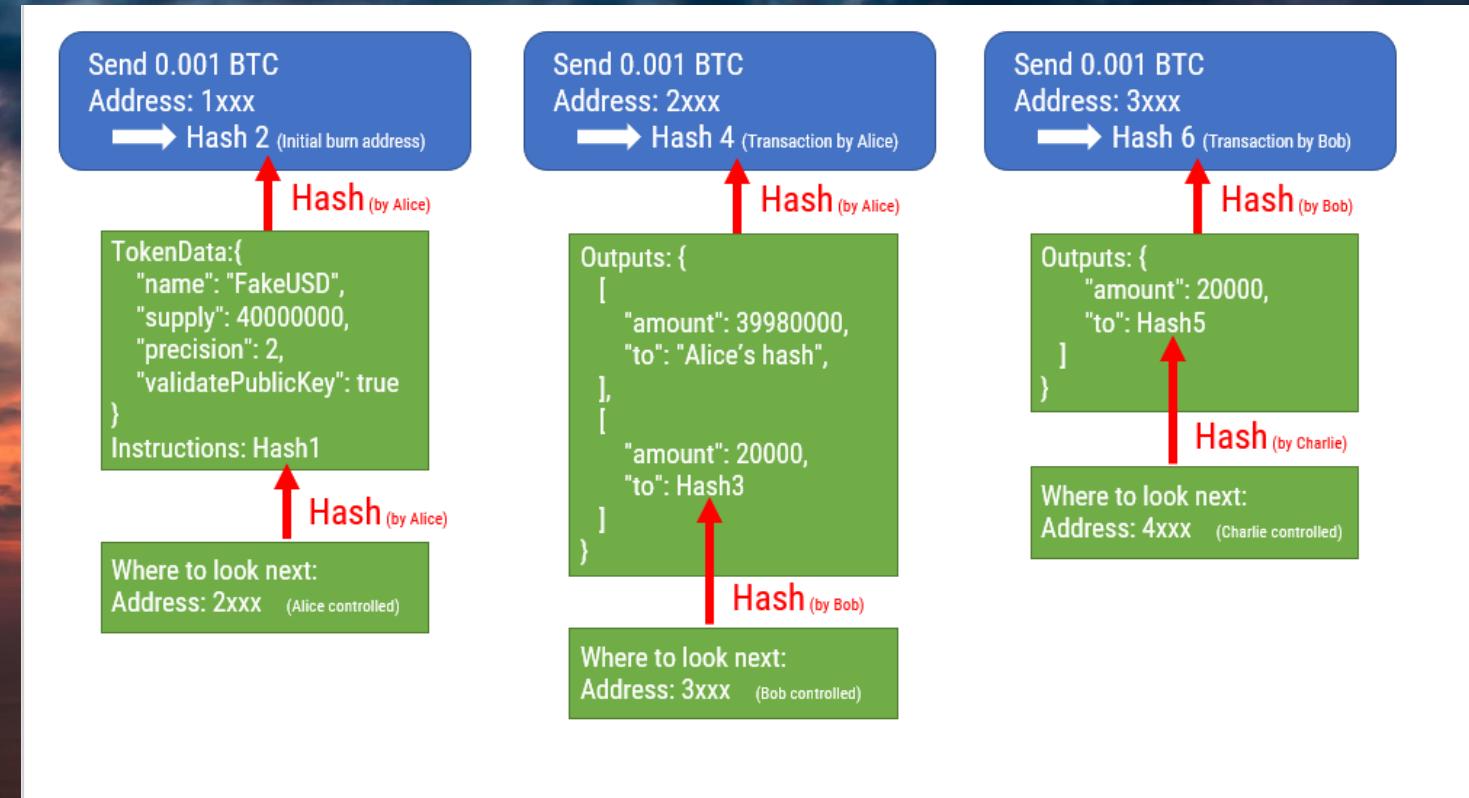
X SPOCT

XSPOCT(XCredits-Style-Private-Off-Chain-Transactions) is a new way to send tokenized Bitcoin or other tokens over the Bitcoin network without revealing the sender, the receiver or the amount being sent publicly. XCredits developed XSPOCT as a demonstration project for future privacy functionality in XCredits.

How XSPOCT works

The XCredits platform uses XSPOCT which is capable of making transactions private by ensuring that the proof of the transaction can be seen while keeping the details of the transaction hidden from view. Traditional blockchains input data straight into the chain. This creates a security issue as the history of the transaction is made visible to others. For example, an individual might be at risk if others are aware that they have just received a large number of Bitcoins. XSPOCT takes some Bitcoin out of the blockchain and sends it to a burner address. A file is then created that is made available to the transerrer to show that the file has been transferred with real Bitcoins.

Then it is sent to an unspendable secret address. The transerrer will then need to send the data of the full chain of the transactions to the transferee for them to verify that the XSPOCT coin is derived from a real Bitcoin and is not spent elsewhere. XSPOCT is secure because we are separating the proof of the transaction from the details of the transaction.



SendZero.net

**High-speed browser-to-browser file sharing
Networking protocol research for XCredits Core**

Demonstrated Success

SendZero.net

SendZero is a decentralized file transfer system. The project uses WebRTC, and was used as a proof-of-concept for our browser-to-browser networking system in XCredits.

The networking system connects two browsers directly with each other without the need for the files to touch a central server.

What does that mean? Superfast transfers between computers on the same network, and unparalleled privacy for your important files.

In today's world which is filled with overly centralized file transferring services, we believe SendZero has a unique potential market which can be expanded a supplementary project to XCredits.



The screenshot shows the SendZero.net home page. At the top, it says "Welcome to SendZero! Send files using WebRTC!". Below that, it displays a message from another user: "noisy-taboo-porpoise-90 wants to send you a file. Accept?". The message details the file: "File Name: 20180817_012858.jpg", "File Type: image/jpeg", and "File Size: 1.52 MB". There are "Yes" and "No" buttons. Below the message is a QR code with a "Scan" button. At the bottom, it says "2. Just send it!" and "Select a device from the list below to send a file!".

LazyWebApp

Rapid Modern Web App Development

LazyWebApp

- Lazy Web App was developed to make it easy for developers to quickly prototype ideas and deploy without the hassle of basic webserver and web app development
- Using the latest in modern web technology (Angular 7)
- Is based on Progressive Web App architecture, which allows web apps to behave like native apps