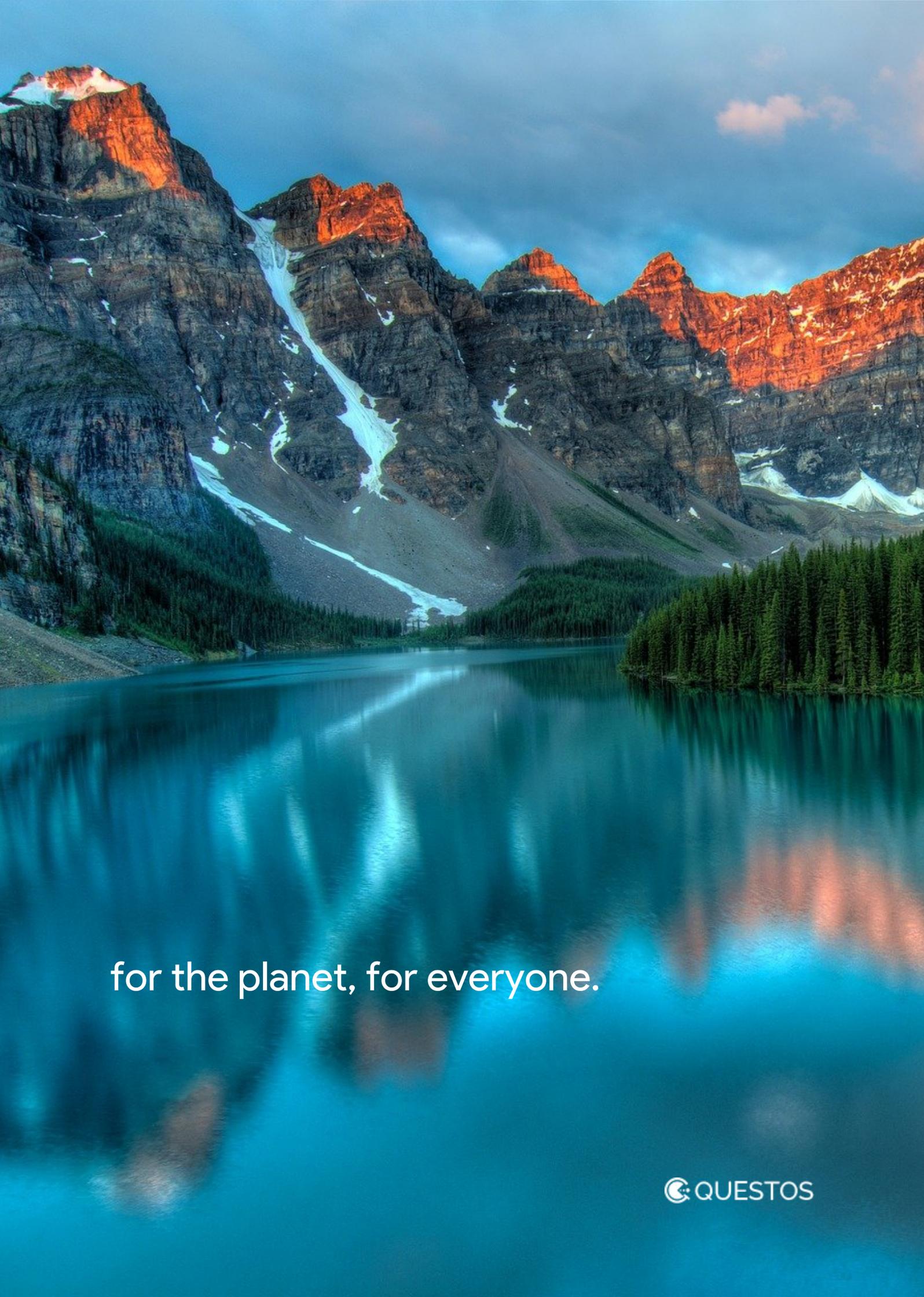




# Whitepaper

„Questos the green Blockchain”



for the planet, for everyone.

**Description:**

Blockchain networks have become indispensable today. They have already found their way into our everyday lives. Cryptography creates security and trust. However, a lot of energy is needed in the generation of the so-called "mining" to ensure the operation of the blockchain networks.

The majority of this energy does not come from renewable sources. There are 58 million tons<sup>1</sup> of CO2 produced annually for mining in the Bitcoin network alone. Electricity consumption is currently equivalent to 5.4 times that of the country of Ireland<sup>2</sup>.

With the popularity of the networks, their power consumption is constantly increasing<sup>3</sup>. So, the CO2 emissions are also constantly increasing. We must stop these processes and start making blockchain technology environmentally friendly.

The level of pollution is most easily realized by looking at how much energy and CO2 is currently consumed by transactions on popular blockchain networks.

We can calculate the carbon footprint of energy with 401 grams<sup>4</sup> per kilowatt hour for an energy mix. For the calculation on a transaction basis, we can use the number of transactions made by the network per day and the energy that the same network uses per day.

**Bitcoin Transaction:**

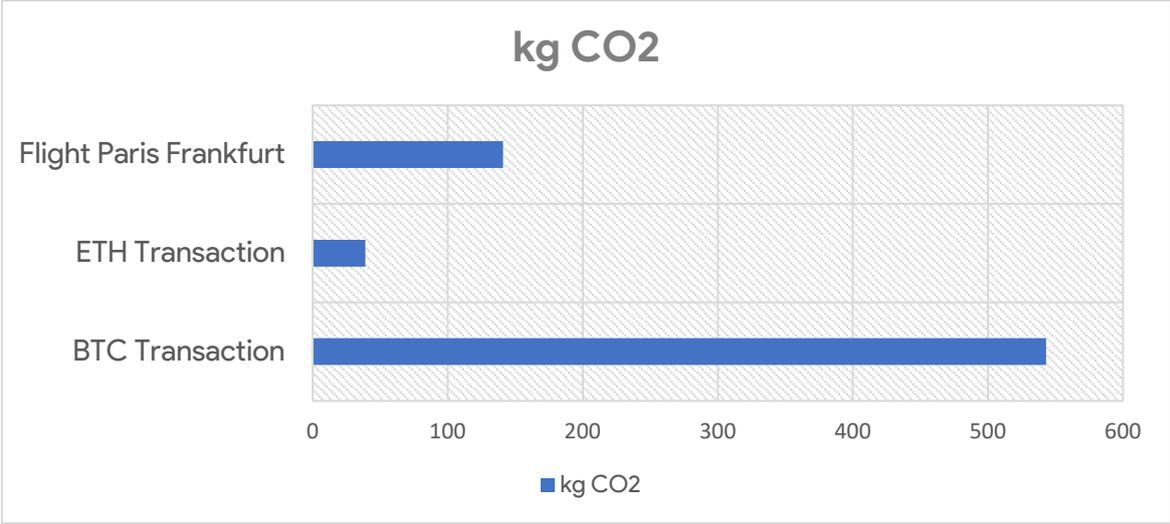
**Ethereum Transaction:**

1143 kWh	543kg CO2
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82 kWh <sup>5</sup>	39kg CO2
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<sup>1</sup> (Cambridge, 2021)  
<sup>2</sup> (eia.gov, 2021)  
<sup>3</sup> (statista.com, 2021)  
<sup>4</sup> (Umweltbundesamt, 2021)  
<sup>5</sup> (digiconomist, 2021)



<sup>6</sup>Flight Paris Frankfurt (one way)

That's why we created Questos, to finally provide a sustainable and modern alternative.

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<sup>6</sup> (myclimate.org, 2021)

## **The Network**

In order to create a sustainable but still performant network, several steps are necessary.

Sustainability can only be ensured in a reasonable way if a high level of efficiency is created. To create this efficiency, the latest hardware needs to be used at all times.

Within 5 node generations<sup>7</sup>, we have optimized efficiency and performance. We use AMD's current 7 nanometer generation CPUs. A node therefore doesn't exceed a power consumption of 45 watts in operation. For performance reasons, we only use solid state (flash) memory for the hard disks.

By optimizing the hardware, we have been able to increase efficiency and reduce the power consumption of the nodes by 400%. We started with dual Intel Xeon servers and now we use low power 7 nanometer CPUs.

## **Security & Decentralization**

We plan to start the network with 14 high-performance master nodes. The number of master nodes will then be expanded to 28.

The master nodes are distributed all over the world. However, the main focus is on Europe and North America, because this is where the most traffic is expected to come from at the beginning.

The selection of the right locations for the master nodes is an important criterion for us. To ensure the smooth operation of the network, we also use different data center partners and connection partners. This is to make failure of the network impossible. Of course, all locations have various certifications.

We pay special attention to the physical access and stability of the network as well as a strong DDOS protection.

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<sup>7</sup> (Wiki-Questos, 2021)

## **Node locations**

### **Europe**

- London, UK
- Frankfurt, Germany
- Bavaria, Germany
- Saxony, Germany
- Helsinki, Finland
- Gravelines, France
- Amsterdam, Netherlands
- Ireland

### **North America**

- San Francisco, USA
- Washington D.C., USA
- Seattle, USA
- Dallas, USA
- Chicago, USA
- New York, USA
- Montreal, Canada

### **Asia**

- Singapore
- Hong Kong
- Bangalore, India
- Mumbai, India
- Tokio, Japan
- Seoul, South Korea

### **Australia**

- Sydney, Australia

## The Software

Our Questos software is compatible with Ethereum.

We use a modified variant of the GoEthereum<sup>8</sup> client on our nodes. The updates of the GoEthereum client are transferred to our Questos software at regular intervals. This ensures that we always use an up-to-date version of the software that is also compatible with Ethereum.

This compatibility has great advantages for our users. All Ethereum compatible applications and wallets can be used. Thus, our users automatically get access to the largest ecosystem of blockchain applications.

Management works smoothly with existing Ethereum tools. The xQTX tokens can be easily managed in e.g. Metamask. Users have the possibility to create smart contracts with existing tools as well. It is very easy to create your own tokens in the Questos network using the ERC-20 token standard.

## Create your own smart contracts

Due to the compatibility with Ethereum, any Ethereum smart contract can also be used in the Questos network. With the ERC-20<sup>9</sup> standard, there is the possibility to create custom tokens for each user very easily. Instructions for this are provided on our wiki<sup>10</sup> pages.

Of course, any other type of smart contract and thus any token standard can be created as well.

## Coins management

Our computers might become targets of attacks or spying attempts at any time.

Criminals have increasingly targeted cryptocurrencies in recent years because they can be stolen without leaving a trace. The users' insecurity is exploited. This can happen with any PC or smartphone since these are complex systems that can always have security vulnerabilities.

We recommend anyone who stores more than a non-significant amount of cryptocurrencies to use a hardware wallet. The security chips of a hardware wallet are specially designed only to sign the transactions the private key will be kept secure inside the wallet. Unlike software solutions, the hardware wallet never reveals the

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<sup>8</sup> (go-ethereum, 2021)

<sup>9</sup> (ERC20, 2021)

<sup>10</sup> (Wiki-Questos, 2021)

private key of the users. Therefore, the private key of the users cannot be spied out. The private key of a user allows anyone to access all coins present in the wallet. This is also where the famous saying "not your key not your coins" comes from.

Proper cryptocurrency management cannot be underestimated and should be used especially when investing larger amounts of coins. We recommend using only Ledger hardware wallets bought from the official online shop.

## **Value investments and development of xQTX**

The xQTX tokens are the base currency of the Questos-system. As a CO2-neutral blockchain with excellent performance and compatibility with Ethereum, the Questos-network has enormous potential. Early investors and fans have the opportunity to participate in the project from the beginning.

With the planned expansions, a significant increase in value will be possible. The history of cryptocurrency has shown that massive gains in value are possible.

## **IPO & ICO von Questos**

The first phase is the IPO. During this phase, you will be able to buy coins if you've received an invitation. To receive an invitation, you must register on the website first. The users that get an invitation will be randomly selected from all registrations.

All users that have been selected have the possibility to invite other people after their first purchase. Each invited friend that joins will receive an extra xQTX. The invited users also have the possibility to buy xQTX at discounted rates and join Questos from the beginning. After the IPO phase is completed, the ICO phase will be launched and everyone can join and buy coins. You can earn rewards for inviting friends.

## **100 % Carbon Neutral**

To make a carbon neutral network possible we must make some important changes. The energy wasting process of creating cryptocurrency the so-called mining was eliminated.

We replaced the process with our own Master Node consensus. With the use of Master Nodes, the energy consumption of the network immediately falls. We only need 28 distributed Master Nodes to keep the entire network running.

The distribution of the block data to our 28 Master Nodes is lot faster than sync the data to all the thousands of nodes in a traditional blockchain network. For the users this

has big advantages in the transaction time, transaction fees and all interactions that is made to the network.

Our goal is to keep the transaction fees always under \$ 0.05. This is an important part to make sure that we always have a real-world use case for the Questos network and all Questos tokens.

We can assure that the Master Nodes have a neutral carbon footprint, because the network power usage is limited to the number of Master Nodes we have.

We also compensate the carbon emissions in our offices and from our team. No matter if team members work in home office or need to travel for Questos. All our team members believe in the vision of Questos for the planet and for everyone.

## **Tokenomics of xQTX Token**

**Total Supply:** 1,000,000,000 xQTX

### **7% Redistribution**

7% of every transaction will be redistributed to all token holders. With every transaction someone makes, a portion will come back to you! Holders will be continuously rewarded.

### **5% Liquidity**

To exchange xQTX at decentralized exchanges liquidity is needed, we feed 5% of each transaction into our liquidity to stabilize the coin price.

### **1% Burn**

The coins that are burned on each transaction are permanently destroyed. This creates a deflationary token environment.

### **2% Charity, Marketing, Development**

These coins will be used for charitable donations for example planting trees to help regrow fragile ecosystems. Also, we will use some of this for advertising, marketing and some development tasks to improve the network as well as hit all of our roadmap goals quickly and efficiently.

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