POLIS



Polis is Greek for *community.*
Origin: Greece, 1890; singular “Pólis”
1. “Community” or “city,” appearing in loanwords from Greek
2. A decentralized cryptocurrency governed by the people.

Polis Whitepaper Version v2.0

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polispay.org

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Abstract

Polis aims to change the world through consensus-backed philanthropy and humanitarian efforts. Polis blockchain technology revolutionizes altruism by aligning economic incentives in a decentralized community.

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1. Introduction

Polis is a cryptocurrency designed for a global community. Polis uses decentralized governance and a system of democratic financing to generate global impact. Most cryptocurrencies are controlled entirely by a small group of developers and insiders. Instead, Polis flips this model upside-down by transferring democratic power to the Polis community. Community members are given a vote through masternode ownership. These votes determine which community proposals pass or fail. Anyone can create a community proposal about anything: a charitable donation, a community event, a direct change to Polis's code base, etc. These proposals are executed and funded by The Polis Foundation.

Polis connects digital communities and marginalized countries in developing areas. Supported by a passionate online community and experienced developers, the Polis mission is global impact through consensus-backed philanthropy and humanitarian efforts. Polis will never have an ICO because Polis is available for use by all people. Development is funded by a low premine of 1% and ownership of 1% of masternodes. This ensures that 99% of Polis is in the hands of the community. The community makes all future project financing decisions with decentralized governance and voting.

Polis is Greek for community. Our motto is Polis Empowers People. People thrive when they can connect and trade freely. Polis uses decentralized advanced blocks chain technology to solve important problems for our global community.

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2. Bitcoin Summarized

2.1. Peer-to-Peer Payment Network

Polis will never have an ICO because Polis is available for use by all people. This system allows for greater financial autonomy, requires no reliance on a central authority and grants true control over one's financial assets.

Since the launch of Bitcoin, many alternative options and currencies have emerged. In 2015, Evan Duffield published the Dash Whitepaper[2], proposing a payment system that

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improved on Bitcoin by adding a layered, two-tier incentivized masternode network and various transaction upgrades including InstantSend and PrivateSend (Dash Whitepaper, 2015).

2.2. The Blockchain

Bitcoin's blockchain technology creates blocks by combining chronological transactions. These blocks are confirmed by a network of nodes. Each of these blocks contains the necessary information to build on prior blocks through the consensus of the workers. However, Bitcoin does not reward node owners and the number of Bitcoin nodes has been dwindling, causing the network to be slow, unstable and expensive.

2.3. Lack of Community Governance

Another issue with Bitcoin is the absence of community involvement in the future of the currency. Since Bitcoin's inception, Satoshi Nakamoto has remained anonymous. Satoshi later delegated control of Bitcoin to early community members and today Bitcoin is controlled by a fractured set of developers. There is general unrest regarding Bitcoin consensus, with multiple forks including Bitcoin Cash, Bitcoin Gold and others emerging as a result of the community's discontent with the lack of democratic decision making. Various debates have raged over the past few years over block size increases, SegWit, lightning network and more. Bitcoin lacks an effective way of allowing community members to vote on collective direction, which results in a fractured group unable to reach common consensus.

3. Comparing Polis

3.1. Solving Problems

Polis solves the two major flaws of Bitcoin:

1. Lack of node incentivization system, resulting in fewer nodes than the network needs to be fast and stable.
2. Lack of community governance, resulting in forks, a fractured community and a general absence of direction.

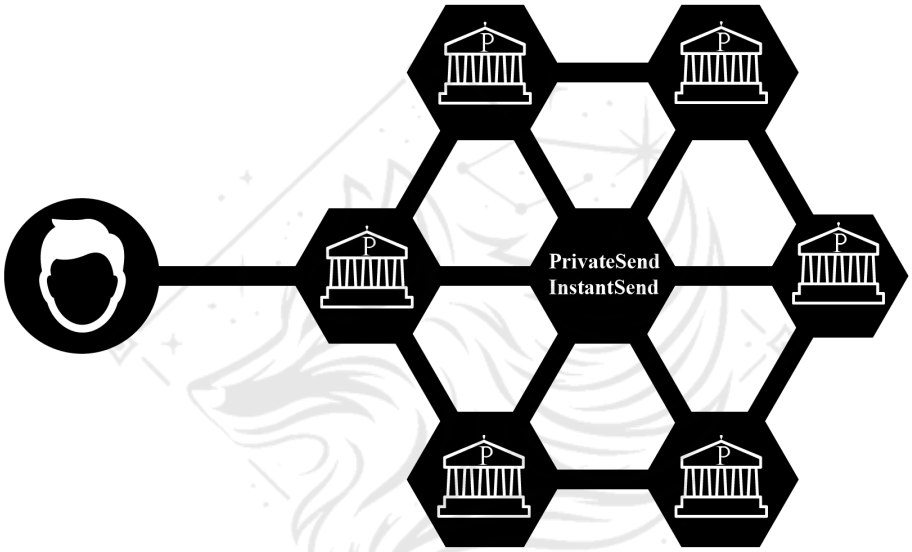
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3.2. Implementing Solutions

Polis adds many benefits that Bitcoin lacks:

1. Powerful masternode network adds a second tier of computing decentralization. This tier can perform any mathematical or financial task that the community implements. Currently, the masternode network adds two features:
    - InstantSend: perform instant transactions that are irreversible and permanent.
    - PrivateSend: improved privacy with automated mixing and chaining.

A Polis user connects to the masternode network for software features



2. Decentralized governance, allowing community members to participate in the future of Polis. Concepts that Bitcoin struggled with, such as block size increases, can be solved by the Polis community by simply voting on a proposed change.
3. Treasury proposals can further the Polis mission by funding charitable donations, community assistance programs, disaster relief funds or any proposed idea.

4. Polis Explained

4.1. The Polis Development Team and Mission

In 2017, a global group of entrepreneurs began collaborating on idea that a useful, community-controlled charitable cryptocurrency would change the world. Polis was launched in December 2017.

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The Polis Development Team has multidisciplinary skill sets that synergize for the benefit of the Polis community. The team's focus is generating value for all Polis owners, carrying out the will of the community and implementing continual upgrades in the protocol. The Executive team includes:

- Cronos: Core Developer Manager and Developer Coordinator
- Ares: Strategic Planning and Project Leader
- Poseidon: Marketing, Public Relations and Regulatory Compliance
- Apollo: Financial Coordinator

To learn more about each member of the team, please see the Team Members section.

The Polis vision has continued to evolve as our network expanded to over 800 masternodes. In addition to working as a bridge between digital currencies and local goods and services, it was proposed that Polis could become a self-governing system of directing financial resources to communities in need. To read more about the mission and vision of the Polis team, see the Polis Manifesto.

4.2. The Polis Community

One month after launch, the Polis community grew to thousands of members with over 800 active masternodes. This group has proven to be an extremely collaborative community of enthusiasts, humanitarians and people from all walks of life. The decentralized nature of Polis encourages this type of collaborative community by allowing for democratic governance with the common goal of achieving substantial change in our world. Polis has fostered a creative environment that welcomes and values the opinions, contributions and ideas of all community members, who are encouraged to speak their minds about the future direction of Polis. Community members with the skills to carry out larger projects for Polis are empowered and encouraged by the development team to contribute as they see fit.

Polis is a collaborative value-added platform constantly being evolved, developed and directed by the community and talented development team. The political efficacy of each Polis community member exponentiates the impact Polis can have on the world.

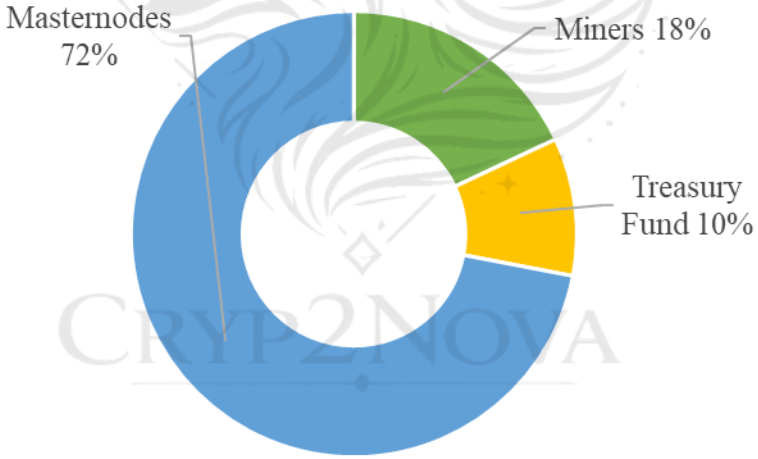
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4.3. Reward System

Proof-of-Work, Proof-of-Stake and Masternodes are all ways that various cryptocurrencies reward workers. These reward systems contribute to the creation and confirmation of the Blockchain and each new block distributes the reward among those who perform jobs.

The Polis block reward is split such that 72% of rewards are allocated to masternodes, 18% of rewards are allocated to miners and 10% are allocated to a community-governed Treasury Fund. Polis includes a unique lucky block system called Lucky Proof-of-Work. This system rewards both miners and masternodes owners who find a specific block, introducing an element of luck and excitement to the Polis community.

Polis block reward distribution



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4.4. Reward Calculation

The Polis code base dictates that masternode rewards fluctuate based on the current number of masternodes. To calculate daily masternode payouts, one can use the following formula:

$$(n/t) * r * b * .72$$

n = *number of masternodes owned*

t = *total active masternodes*

r = *current block reward*

b = *blocks per day*

4.5. Decentralized Governance System

The Polis block reward allocates 10% into a community-governed Treasury Fund. This fund is fully open to audit by the public, providing assurance of the fund's intended use. The Polis decentralized and self-financing governance system empowers the community to steer the direction of Polis. This system allows anyone to make a governance proposal using proposal.polispay.org. Proposals are voted on by masternodes to direct the future of the currency and projects.

4.6. Polis Marketplace

Polis is equipped to be used as a fully-fledged instant and fungible currency, ready for wide-spread real-world use. To encourage rapid proliferation of Polis adoption, the Polis Development Team plans to launch the Polis Marketplace. By allowing anyone to trade Polis directly for goods and services, the community can achieve several goals: foster a healthy Polis economy, increase decentralization of Polis distribution by allowing anyone to trade goods or services for Polis instead of needing to exchange fiat, and grow the network by increasing transaction throughput.

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4.7. The Polis Foundation

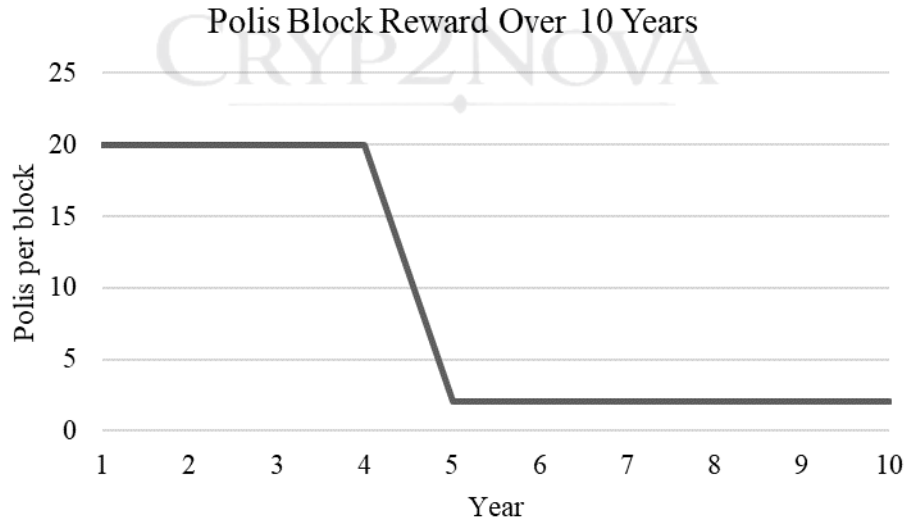
The Polis Development Team is working to establish The Polis Foundation, a registered non-profit legal entity dedicated to carrying out the philanthropic vision of the Polis community. As the decentralized governance system approves proposals, The Polis Foundation is responsible for carrying out these proposals using the Treasury Fund. This legal entity is fully compliant with transparency requirements for non-profit organizations and is fully auditable by any Polis community member.

The Polis Foundation will establish relationships with charities, communities, social movements and crisis organizations to facilitate the implementation of community proposals in a swift, professional and reliable manner.

4.8. Quick Start distribution

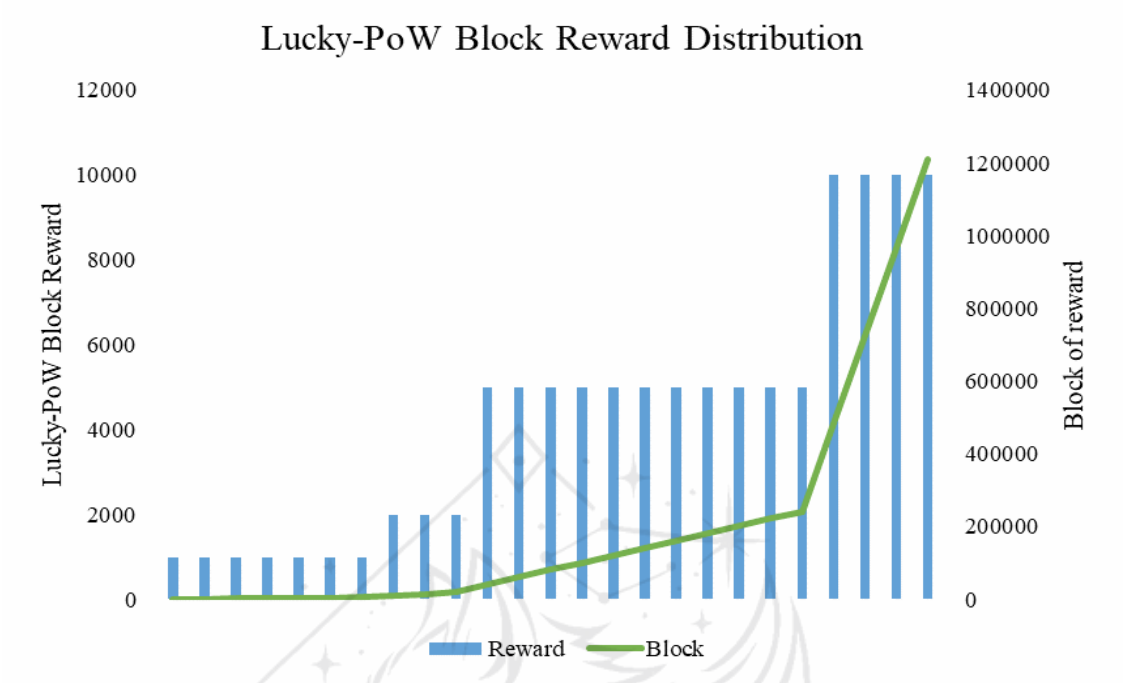
A quick start distribution incentivized early adopters and miners to help establish Polis. The initial block reward is 20 Polis. To encourage healthy rapid adoption, block reward remains fixed at 20 Polis for four years. Starting in the fifth year, the block reward is reduced to 2 until after the tenth year, upon which time the reward is obtained entirely from transaction fees.

4.9. Block Reward Chart



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4.10. Lucky Proof-of-Work Block Reward



The Polis protocol features a Lucky Proof-of-Work block. Similar to a superblock, Lucky PoW blocks have a special block reward. Polis Lucky PoW blocks occur on the following blocks: 720, 1440, 2160, 2880, 3600, 4320, 5040, 10080, 15120, 20160, 40320, 60480, 80640, 100800, 120960, 141120, 161280, 181440, 201600, 221760, 241920, 483840, 725760, 967680, and 1209600.

4.11. Polis Specifications

Specifications	Value
Ticker	POLIS
Algorithm	X11
RPC Port	21427
P2P Port	24127
Testnet RPC Port	24131
Testnet P2P Port	24130
Difficulty Algorithm	Dark Gravity Wave 3.0
Block Size	2 MB

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Block Time	120 seconds
Masternode Confirmation	15 blocks
Masternode Collateral	1000 Polis
Governance Fee	5 Polis
Governance Minimum Quorum	10 votes

5. Polis Roadmap

Polis has an aggressive roadmap for 2018. The Polis Development Team is dedicated to rapidly expanding the Polis technology and capabilities. Additions and suggestions to the roadmap are encouraged and welcomed.

Q4 2017

Research & Development

Initial Polis 1.0 release

700 community members

Polis trading on 3 exchanges

Polis team established

Q1 2018

Release Whitepaper

Windows, iOS & Linux wallets

Polis trading on 4 exchanges

10,000 community members

Masternode development

Strategic plan formation

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Grow marketing team and plan

Decentralized governance

Community members join team

New dynamic website

Android and iOS wallets

Establish Polis Foundation

Community forum

Governance proposals

Release of Polis 1.1.2 – 1.2.2

Cryptopia listing

1000 Masternode milestone

PolisPay Card Development

Q2 2018

Launch PolisPay card globally

Partnership with GBX, XMCC & COLX

Release updated Whitepaper 2.0

Revise Roadmap and vision

Website development blog

Digital banner marketing campaign

Establishment of Polis offices

Polis team building

Q3 2018

Advertise Polis core values

Complete translation project

Launch on major exchanges

Fundraising for growth

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Q4 2018

Launch payment gateways

Social work initiatives picked by community

Widespread democratic input

Q1 & Q2 2019

Design Polis Marketplace

Polis brand image update

Film promotional videos

Social community projects

Launch on major exchanges

Q3 & Q4 2019

Polis Marketplace goes live

PR events and promotion

Release promotional advertisements

Launch Polis charity project

6. Cryptocurrency for a Better World

In under a decade, cryptocurrencies have revolutionized global finances. Every day, more people understand the change and benefits cryptocurrencies bring to our world. Cryptocurrency is inherently a morally-neutral technology. By aligning incentives in the Polis protocol, the neutrally moral nature of cryptocurrencies can be transformed into a positive and powerful force of change in our world. Instead of debating code changes, as is common with Bitcoin, Polis can quickly implement changes and then go on to debate more important issues, like how to fund disease prevention programs, how to help victims of a natural disaster or any other need that appears in the world.

Polis is a digital community running a digital currency. Polis uses hive-mind collaboration to understand the world's needs and to respond accordingly. Polis integrates

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into the real-world by allowing users freedom to move between digital and fiat currencies, giving people full autonomy over their financial futures. The Polis Marketplace establishes a thriving exchange of goods and services, promoting the mission of Polis and increasing adoption. Lastly, The Polis Foundation implements community governance proposals to allow completely democratic control over not just the direction of Polis, but also the specific impacts Polis has on our world.

7. PolisPay Card

The Polis Development Team is proud to announce the release of PolisPay Card, a payment card solution allowing anyone to spend Polis, Bitcoin and Dash at over 30 million merchants worldwide. Working in collaboration with other communities, the Polis Development Team has established formal partnerships with Gobyte, Monoeci and ColossusXT. These coins will be officially supported on the PolisPay platform and will additionally allow for conversion into fiat. These partnerships have been meticulously selected based on their impressive growth, technical development and community involvement. The PolisPay Card is being aggressively developed and collaboration with the developers of GBX, XMCC and COLX enables valuable cross-compatibility.

Additionally, The Polis Development Team has hired an experienced credit card merchant service provider for the physical release of PolisPay Cards. Available globally in Q3 2018 for 25 USD, PolisPay Cards offer convenience and reliability with multiple currency options. Several outcomes are foreseen from the release of PolisPay:

1. Greatly increased liquidity due to increased market throughput
2. Real-world use-case for Polis creating rising economic demand
3. Powerful word-of-mouth marketing from using cryptocurrencies in daily life
4. Industry recognition of Polis on the forefront of cutting-edge development
5. Easy conversion from Polis into fiat and vise versa

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Development and distribution of physical payment cards is a sizable undertaking. The Executive Team has assessed the feasibility of a global launch and have taken proper actions, including establishing partnerships across multiple industries, to ensure PolisPay is a success. The community will be heavily involved in the design, testing and vision of PolisPay. The first real-world Polis transactions mark a powerful milestone. PolisPay marks a positively significant shift in the development and future of Polis. Therefore, all published media has been updated accordingly.

8. Team Members

Ares **Chief Executive Officer**

CEO of Polis and member of the Board of Directors, Ares has years of experience managing socially oriented companies. He has worked internationally as an advisor to different organizations. Ares has been President of non-profit organizations focused on education and technology. He is dedicated to the Polis mission: to create humanitarian impact through cryptocurrency. Also, Ares has vast experience in the implementation of total quality systems. His leadership skills and administrative experience make him well equipped to lead Polis into the future.

Cronos **Chief Technology Officer**

Cronos is the original creator of Polis. As CTO and Board of Directors member, Cronos uses his passion for technology and cryptocurrency to lead Polis technical development. He is an expert in multiple programming languages and digital economies. Cronos became involved in cryptocurrency in 2011 and instantly understood the potential of this emerging technological field. In 2017, Cronos and the Polis Development team created Polis to empower people. He currently leads Polis research and development to create new protocol including the upcoming Metropolis.

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Apollo **Chief Business Officer**

Apollo is a Chief Business Officer and Board of Directors member. He earned a Masters in Business Management and has served as Director of various companies. Apollo has experience as a corporate lawyer and has founded his own non-profit civil association. An entrepreneur at heart, Apollo has directed a startup accelerator in Silicon Valley. He has a wide resume including real estate development and building a business empire in the communications industry.

Poseidon **Chief Business Officer**

Poseidon is a Chief Business Officer and Board of Directors member. He has generated rapid business growth as a General Director at numerous service companies. Poseidon has co-founded companies in the technology, services and humanity sectors. He has also taught as an international lecturer and worked in strategic planning as a consultant. A specialist in corporate finance and a passionate marketer, Poseidon brings many skills to the team. He is also a real estate developer and a member of the American Marketing Association.

Hephaestus **Community Manager**

Hephaestus is our community manager. He has experience fostering collaborative communities both off and online.

Cooldude **Digital Manager**

Cooldude manages and creates digital content for Polis. He is also an advisor to the Polis team.

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Tomflex **Cryptocurrency Advisor**

Tomflex is a founding member of the Polis community. He has collaborated with the Polis team from our earliest days.

JackMa **Community Marketing Advisor**

JackMa is our community marketing advisor who focuses on marketing initiatives and promotions.

YoYae **Node API Manager**

YoYae worked with the Polis Development team to create the Polis node API. He has experience creating APIs for Insight, Bitcored and Copay.

Evolbyte **Tech Support Lead**

Evolbyte leads our tech support team. He holds a Masters in Computer Science.

9. Acknowledgments

This project would not be possible without the previous work of the Bitcoin and Dash development teams. We appreciate their efforts greatly. We are excited to belong to an open source community and appreciate the opportunity to contribute to this growing technological field. In addition, we thank the passionate members of the Polis community who have grown this project and participated actively in the evolution of Polis.

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10. Legal

Cryptocurrency investments are inherently high risk. Before using any cryptocurrency, it is important to consider the nature, complexity and risk. Do not invest more than you can afford to lose. It is important not to use coins without taking into account the possible loss, since the type of change in these currencies is highly volatile and the Polis team is unable to regulate market-defined prices. We strongly suggest seeking advice from your own financial, investment, tax, or legal adviser. The Polis Development Team will always act in good faith and is not liable for the use of Polis by other community members, persons or institutions.

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References

1. Bitcoin: A Peer-to-Peer Electronic Cash System: https://bitcoin.org/bitcoin.pdf

2. Dash White Paper:
https://dashpay.atlassian.net/wiki/spaces/DOC/pages/5472261/Whitepaper

Thank you for being a member of the Polis community.



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