

2020

www.aBey.com



ABEY

**Advanced
Blockchain for
Enhanced
Yields**

Foreword

ABEY was created as an Academic Research project by two Romanian doctorates: Ciprian Pungilă, PhD. & Viorel Negru, PhD. in Artificial Intelligence & blockchain technology, to undertake the original cryptocurrency model that is 10 years old, and bring it into the future.

ABEY is designed as a decentralized currency that is aimed for high-volume transactions (which are inherent to all major e-commerce systems), secure, scalable (with a new scalability model that is more efficient by a number of factors than that of classic currencies such as Bitcoin and Ethereum), and supports payment gateways by design (allowing easy merchant adoption in the future), while also being open-source. ABEY's source code will be published on Github (search phrase "ABEY-development" on www.github.com.)

The official whitepaper for the ABEY blockchain-based technology has been released. The solution proposed through ABEY aims to deliver results that stand at the very core of all enterprise-grade e-commerce systems: security, scalability, integrity and ease of use.





ABEY Co-Founder **Dr. Ciprian Pungila**

Dr. Pungila is a Computer Science assistant professor at the Faculty of Mathematics and Informatics from West University of Timișoara, Romania, and is a published expert in various fields of cybersecurity and high-performance computing.

He created a model of computation published in a top-3-in-the-world journal for reducing computational costs in various applications of cybersecurity and digital forensics, and was also acknowledged with his country's National Research Academy outstanding research award for his contributions to the field.

ABEY Co-Founder **Dr. Viorel Negru**

Dr. Negru is a Computer Science Full Professor at the Faculty of Mathematics and Informatics from West University of Timișoara, Romania.



He is currently a Prorector at the same university, and has directed or managed more than 60 international research projects, and over 150 scientific papers published in journals and conference proceedings. He is also a valued member of the National Research Council of Romania. He is a national expert in Computer Science and an expert in European programs (INTAS, FP6, FP7, Marie-Curie, H2020).

ABEY can be approximately understood as the next generation of Bitcoin, but with much better throughput than Bitcoin's model and the following advantages:

low-bandwidth

high-security

high-scalability

easily adoptable

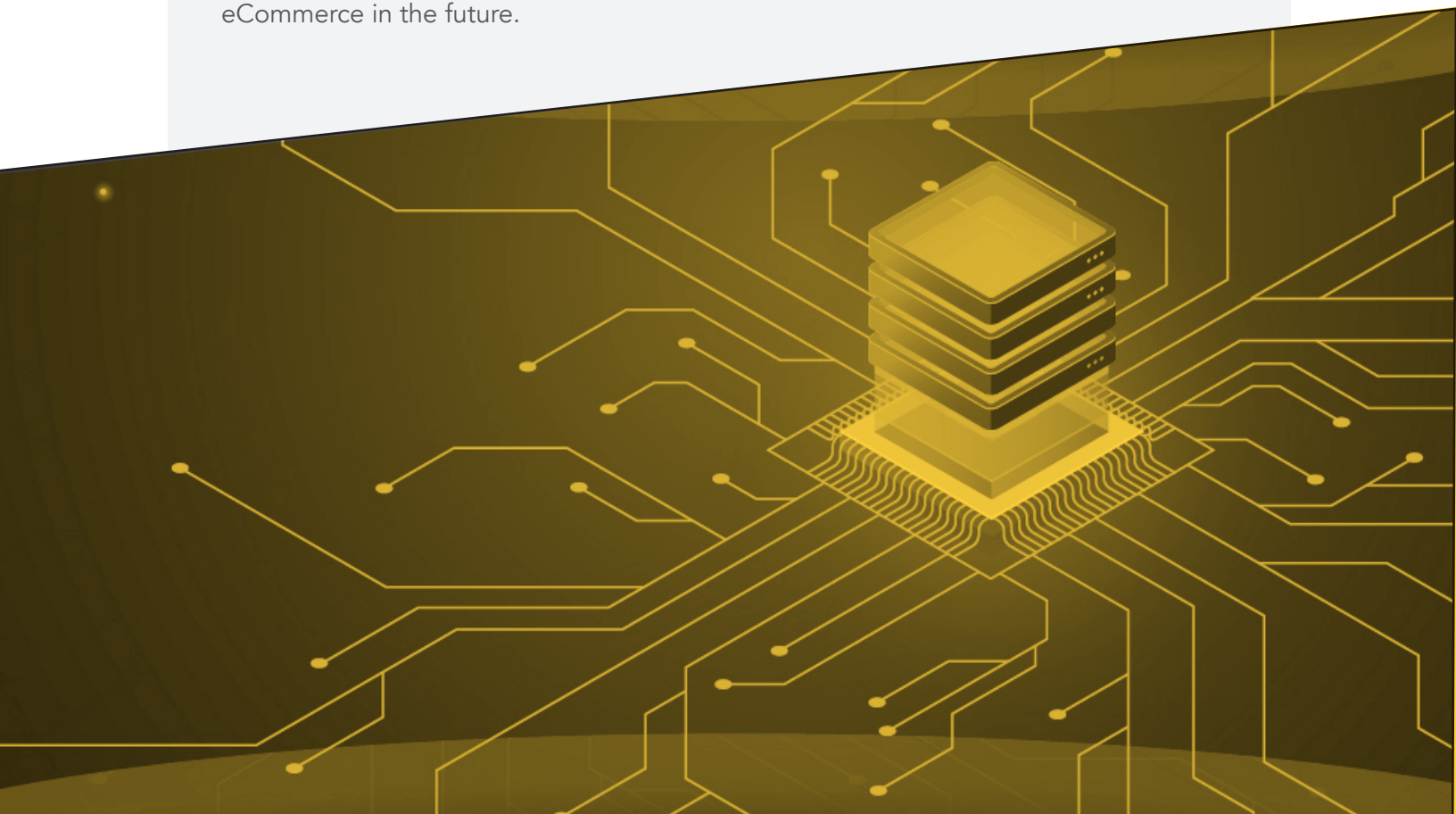
programmable (through the "multi-layer blockchain" concept)

ABEY can be mined on the computer, with the mining software being released as open-source soon after the whitepaper is released to the general public.

A complete set of instructions on how to use the software to mine ABEY will be published.

Shortly after ABEY was created, it has been adopted by dozens of thousands of trustees worldwide. The ABEY Foundation has created a global effort to incorporate the best and most advanced blockchain payment technologies for the benefit of all ABEY users and the entire world.

Please download the Whitepaper at www.ABEY.com to get the full understanding of this revolutionary and innovative new Blockchain design that will completely redefine eCommerce in the future.



Bottlenecks of today's blockchains

- Do not support high volume transactions
- Slow, inefficient
- Do not allow refundable e-commerce transactions
- Do not support affiliates and commissions
- Do not support other business use-cases – e.g. lending money

Where ABEY innovates

Open-source platform (Github)

Programmable and extensible, lightweight blockchain allows easy function upgrades

Allows instant, high-volume transactions

breaking shackles of mainstream blockchains

Highly secure

Thousands times more secure than Bitcoin, easily defends hackers

All-new adaptive mining process

all home computers can be used to mine, no more mining farms

Multiple layers of functionality

never a one-trick pony

ABEY's light-weight blockchain

The size of ABEY's blockchain, will remain unchanged to maintain its lightweightness.

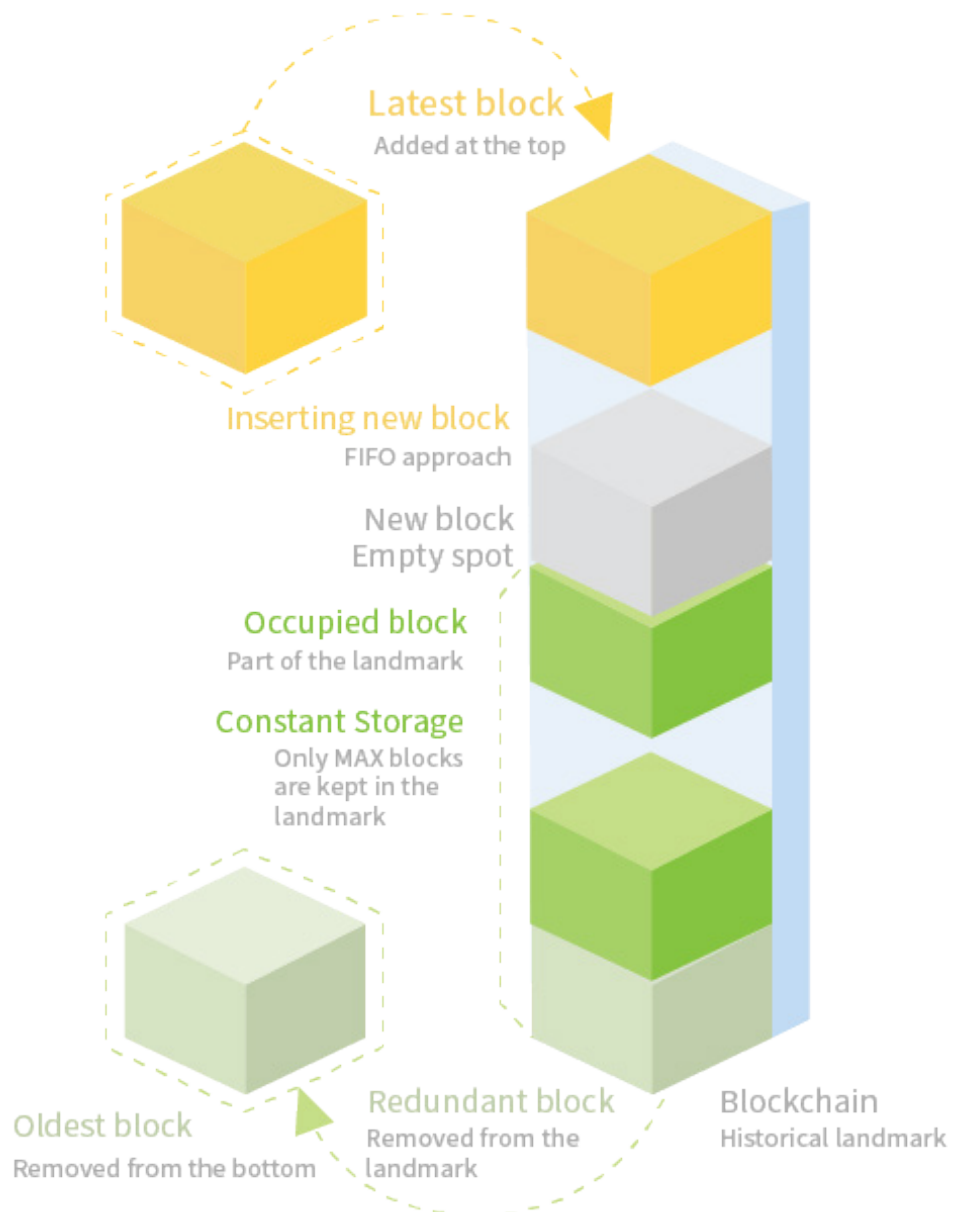
Older blocks are still kept by some historical nodes, but not by all nodes. New nodes only need to download 50 blocks therefore, but they could also download all blocks afterwards

Constant size blockchain (50 blocks). An old block is deactivated as a new one is added to ensure maximum lightness and responsiveness.

All historical blocks can still be downloaded and archived

High-throughput/low-bandwidth

Optimized for high-volume transactions



Multiple layers of functionality

Account ID (32-bit unsigned) The unique ID of this account	Account Name (string, up to 256 chars) The name associated with this account
Account Type (16-bit unsigned) The type of account (merchant, etc.)	Public Key (string, up to 256 chars) The public key of the owner of this account
Account Balance (64-bit unsigned) The actual balance of this account	Account Escrow Balance (64-bit unsigned) The escrow balance of this account
Number of operations (32-bit unsigned) Number of operations performed on this block	
Block metadata (32-bit unsigned) Contains last block ID that changed this account. Required for purging unused accounts.	
...	

LAYER 4

Allows for lending fiat currency by using cryptocurrency as collateral

LAYER 3

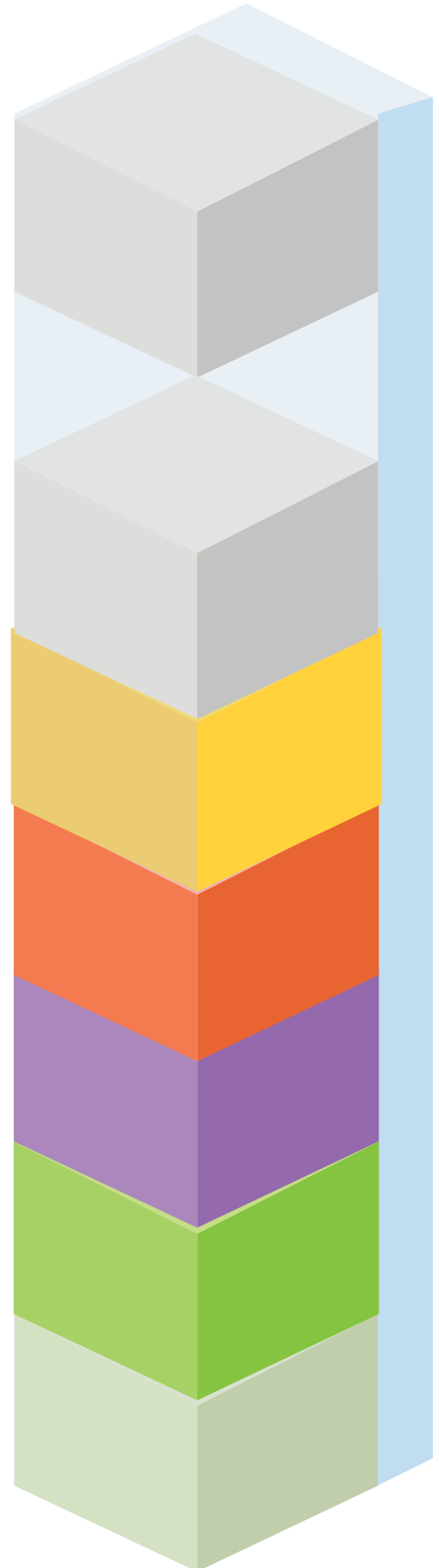
Allows commissions to be paid to each affiliated party in e-commerce situations

LAYER 2

Supports refund of digital currency transactions

LAYER 1

A digital currency applicable in high-volume e-Commerce transactions

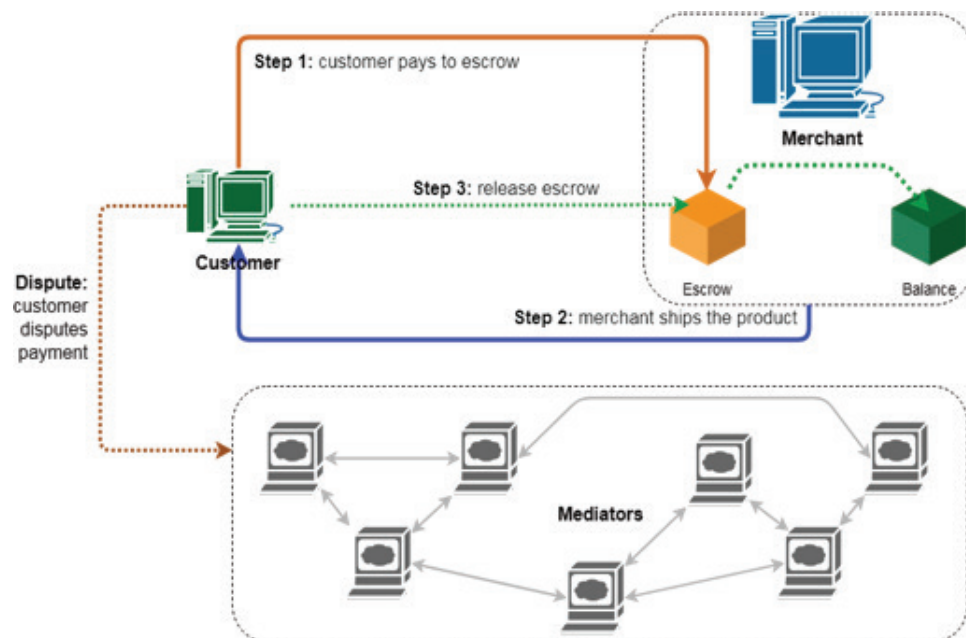


ABEY Layer 2

Supports refund of digital currency transactions

ABEY allows refundable transactions. A first in cryptocurrency e-commerce transactions

Mainstream coins like Bitcoin, Ethereum (including Ethereum 2.0) and Litecoin do not support this function



ABEY Layer 3

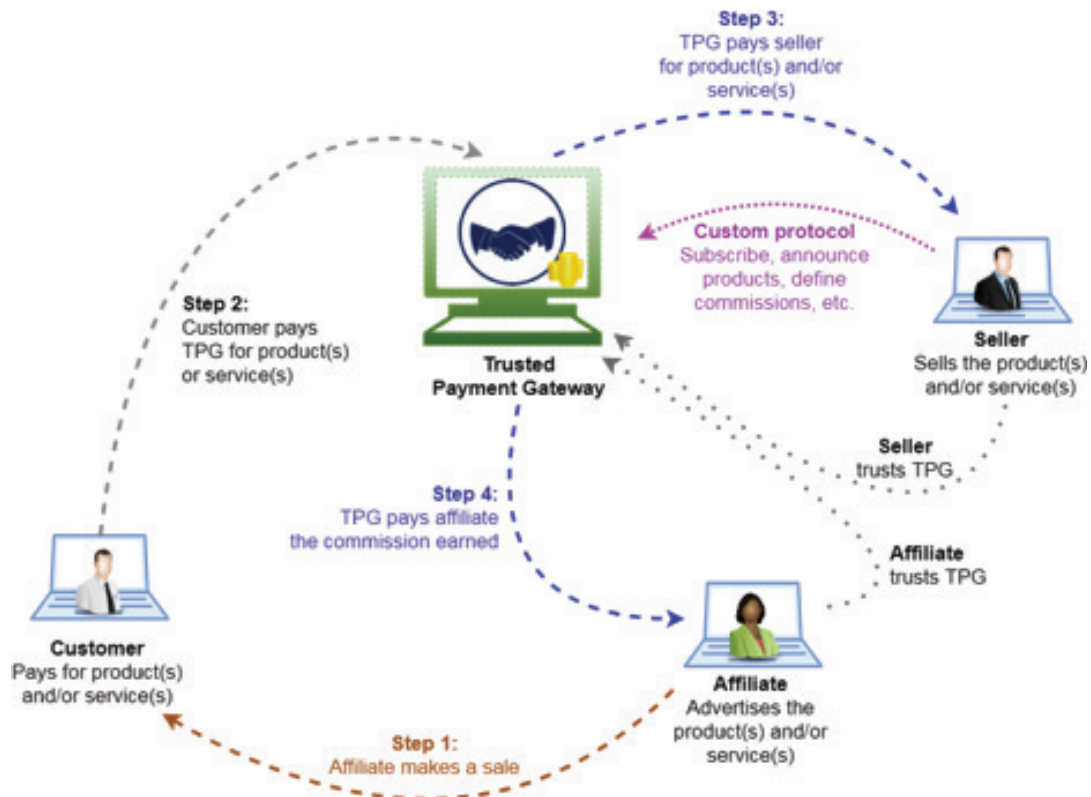
Allows commissions for affiliated parties in e-commerce situations

ABEY allows commissions to be paid to each affiliated party in e-commerce

Stimulates e-Commerce activity

Not supported by any other blockchain, including Bitcoin, Ethereum, Litecoin etc.

Winning miner gets 25 accounts --> Winning miner also gets 25 accounts, in addition to the mining reward & the mining fees.



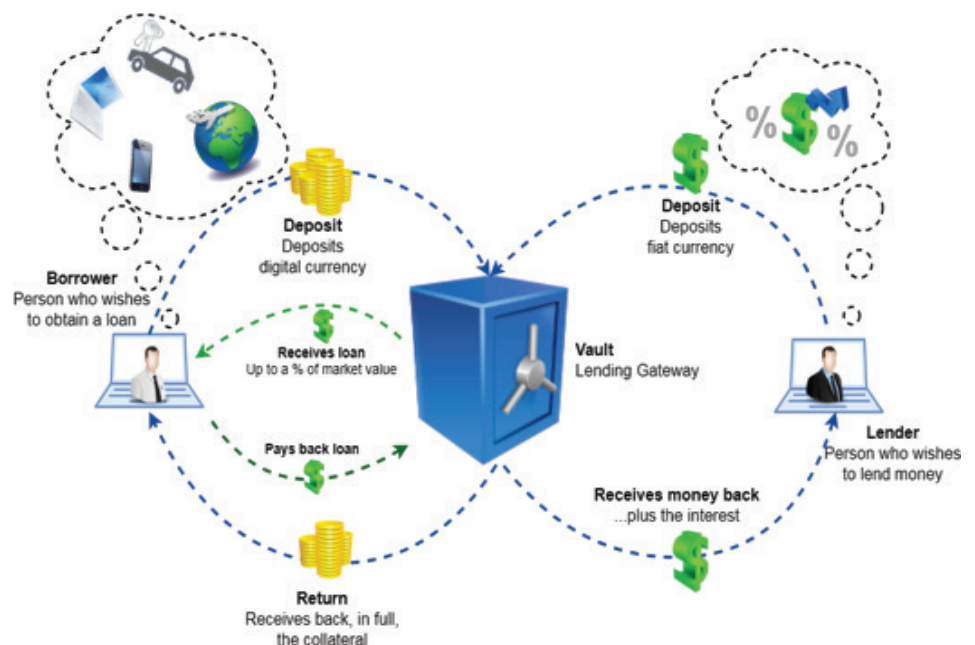
ABEY Layer 4

Lending fiat currency by collateralizing cryptocurrency

Allows for lending fiat currency by using cryptocurrency as collateral

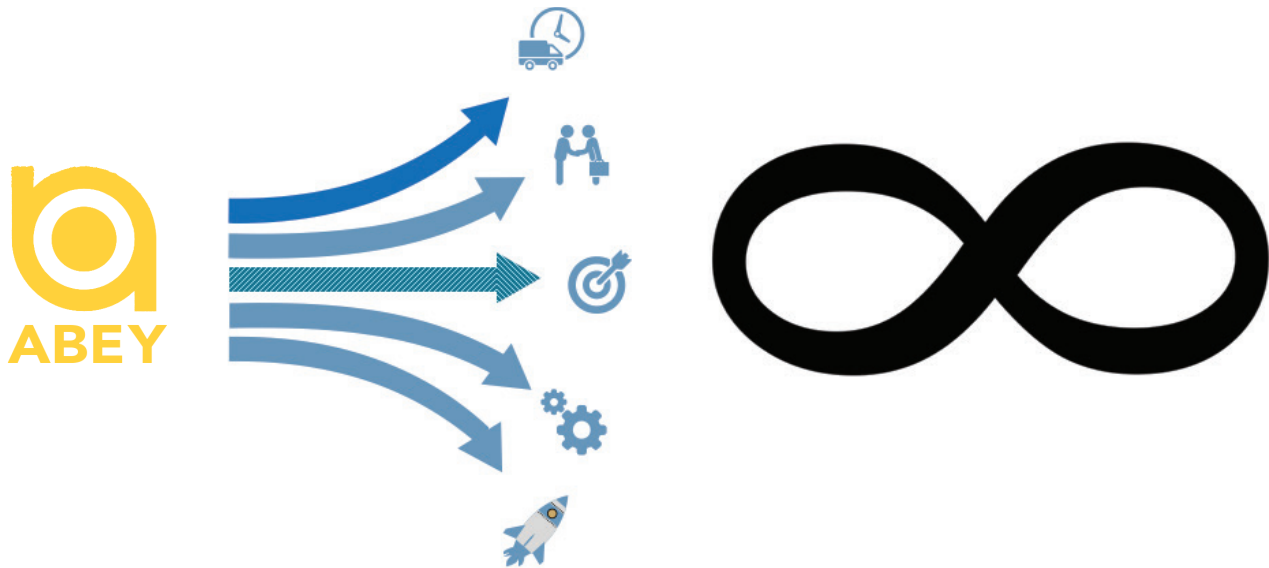
ABEY's vault protects the digital assets

Interest generated as income for lenders



ABEY Layer 5

Programmable blockchain



*Allows expansion of more functions anytime –
infinite number of possibilities*



Use cases

The aPay Payment Processor



Your bridge between cryptocurrency and the real world

aPay wallet - How to use

1. Send your cryptos to your aPay wallet and convert it to ACT
2. Load the ACT to the aPay card and spend it anywhere that accepts credit cards, or withdraw fiat currency from any ATM!

ACT –
stable coin used in aPay



The New aPay Card

Introducing the new aPay Card, use at any ATM or merchant who accepts Visa or Mastercard, worldwide





Supported cryptocurrencies:



ethereum



ONLINE PAYMENT
SOLUTIONS FOR
THE FUTURE

Bringing the Virtual World to the Real World.



ABEY's mining process

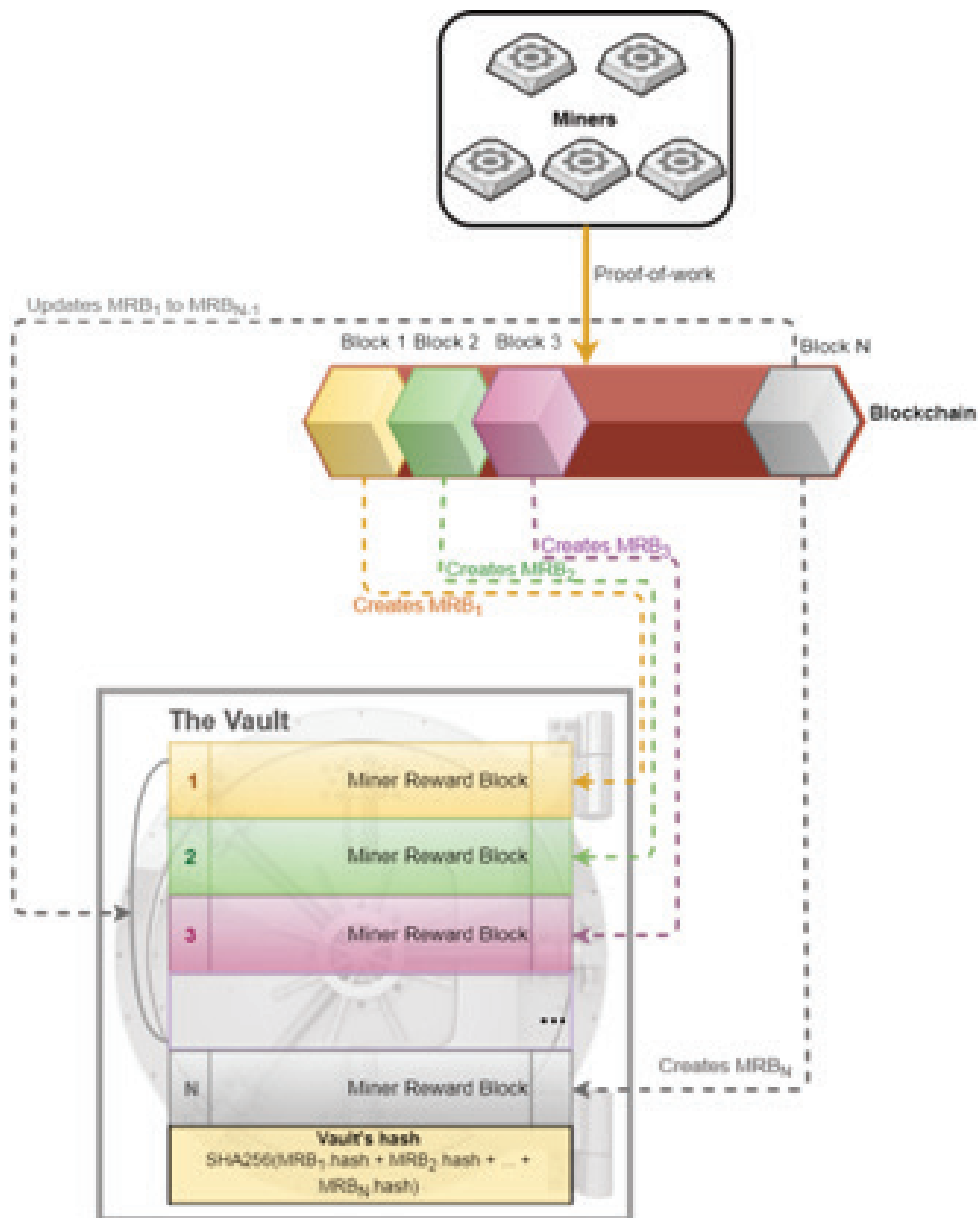
ABEY currently adopted the mining with Proof-of-Work (PoW) model for mining

Miners can use open-source mining software for personal computers to mine. No need for mining farms to produce the token!

Accounts are mined through PoW. Winning miner gets 25 accounts

Miners can sell & buy accounts in the blockchain

System will purge unused accounts automatically to maintain lightness of blockchain



ABEY - supported by academia across the globe



BlueGene/P supercomputer



Meeting with Co-Founder of Ethereum Mr. Mihai Alisie



Interchain operability - ABEY & ETH



E-commerce-centric Blockchain aBey Announces Startling Adoption

Business Wire July 29, 2019



E-commerce-centric blockchain aBey posts 8X growth over Bitcoin, when comparing first year of adoption.

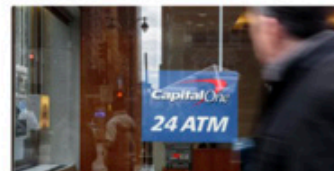


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列支敦士登瓦杜兹--(美国商业资讯)--2019年7月30日讯aBey基金会今日宣布，史上首个专注于电子商务的快速区块链aBey公开发布一年以来用户增长速度惊人。aBey的首席科学家兼联合创始人Ciprian Pungila博士宣布：“自从2018年7月30日aBey发布以来，我们在一年之间已经积累了逾10万活跃用户。aBey的增长速度较早期的比特币高出八倍有余。”

位于马耳他的早期使用者aPay Systems每天需要处理大量在线支付请求，因此选择aBey区块链作为技术平台。公司CEO Philipp Saurborn表示：“作为支持跨链操作和每秒最多可达十万笔交易的支付处理企业，我们的B2B和B2C客户都要求快速完成交易。向其他热门区块链写入交易往往需要几小时甚至几天才能完成，迁移到aBey区块链后，处理每笔交易只要几毫秒。世界上再没有第二种区块链可

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列支敦士登瓦杜兹--(美国商业资讯)--2019年7月30日讯 aBey基金会今日宣布，史上首个专注于电子商务的快速区块链aBey公开发布一年以来用户增长速度惊人。aBey的首席科学家兼联合创始人Ciprian Pungila博士宣布：“自从2018年7月30日aBey发布以来，我们在一年之间已经积累了逾10万活跃用户。aBey的增长速度较早期的比特币高出八倍有余。”

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Saurborn先生说：“对于任何依赖用户提供数据的企业，未来最重要的营收模式都是向在公司平台上完成互动并自愿提供数据的用户发放奖励。aBey区块链功能强大，允许零售商向贡献数据、共享信息、填写问卷、使用优惠、引荐新客户、参与投票、比价、评测、点赞、推广、测试、使用产品的用户发放奖励，可以说为企业打开了无限可能。aBey区块链有助于零售商吸引新客户、保留和激励现有客户，并与客户建立信任关系，这都是提高客户转化率和保有率的关键。”

aBey的主要功能特性包括每秒可处理十万笔交易的超高速度（经SpringerNature和Academia.edu验证）、交易退款（全球首次）、基于金库借贷网关（VLG）实时合规检查的借贷功能（全球首次）、基于信任支付网关（TPG）的联盟营销推荐和佣金支付支持（全球首次）、链上处理支付，以及简单易用的加密钱包。用户可选择用自定义账户名称替代冗长

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aBey正式发布一周年，增长速度惊人，
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Saurborn先生表示：“我们的aPay许可区块链集成了aBey非许可区块链和分布式记账技术之后，我们公司、我们的客户以及监管方的工作都轻松了许多。”

“aBey的设计初衷就是成为全球速度最快、弹性最高的开源区块链。”Pungila博士说，“目前电子商务、借贷、联盟营销领域的用户增长速度极快，我们期待看到基于aBey的更多应用。”

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Conclusion

We have analyzed the major challenges and limitations of existing blockchain-based digital currencies, and have identified the most important aspects for transactional processing in modern e-commerce systems nowadays.

As a result of the analysis, we have proposed a **multi-layered, scalable and high-throughput focused programmable blockchain model** for digital currency, whose aim is to provide a **feasible solution** to the growing needs of common e-commerce solutions today, while also benefitting from a secure, blockchain-focused implementation.

