



# **THE PECU NOVUS NETWORK**

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## **INTRODUCTION**

Traditional banking methods are outdated for a global economy, they carry with them high transaction fees, limited privacy and delayed fund transfers due to multiple layers of internal and external protocols that need to be met. In short too many people are needed to facilitate both domestic and global transactions. These current issues that negatively impact all businesses globally have manifested the need for alternative solutions.

What has evolved over the past two decades are digital payment systems that are layered on blockchain technology and based on cryptography that creates transparent, immediate, irreversible and immutable transactions. This allows two parties to engage in a transaction that can be concluded in minutes or seconds as opposed to hours or days. The technology has advanced over the years and global markets have begun to widely embrace them as an alternative to the current outdated systems available. The integration of digital asset payment systems and traditional banking methods are inevitable, this evolution will lead to faster transactions, limited third party involvement, increased transparency, wider acceptance and increased regulation.

There are both decentralized and centralized networks that exist today. Decentralized networks offer very high security due to the enormous amount of computing power

needed for mining in order to secure the network. They also reveal more information publicly about the users of the network which can make it less private. Centralized networks can also offer very high security due to the level of cryptography used to secure the network. Networks that utilize public ledgers that make transactions transparent and immutable but also keeping sensitive data secure are most desirable. Centralized networks have evolved over the past few years, with the inclusion of proprietary security protocols, providing users with publically viewable immutable ledgers, increased features and functionality as well as being prepared for future financial regulation, this evolution is sure to continue for the benefit of the users of the network.

## **PECU NOVUS**

### *The Digital Asset for the Digital Age*

Pecu Novus is a blockchain technology powered network incorporating a digital asset that enables businesses and individuals on the network to conduct zero cost coin based transactions globally. It's a safe, secure and private method to conduct confidential transactions with confidence. The Pecu Novus network features a Secure Escrow System, Smart Contract Enabled, Internal Messaging, Dual Confirmation, Transparent Transactions and more in development which increases user control, safety and privacy in a connected world. The network features a larger and scalable block size which provides virtually instantaneous transaction confirmations, better storage efficiency and functionality for users of the network.

#### **I. Why was Pecu Novus developed?**

With traditional banking methods being outdated and businesses in need of an alternative means of performing various transactions in a cost effective, timely and secure manner, the birth of the Pecu Novus was inevitable. Pecu Novus was developed primarily for business use, giving businesses globally a platform where they can perform transactions in the most efficient, secure and cost effective way. There are currently a set of business tools available for use with more features in development for the Pecu Novus network that will allow businesses to get the most out of using the Pecu Novus network.

Although Pecu Novus was developed primarily for business use the network is not limited to businesses. Most of the functions are also available for individual use with limited restrictions. The goal of the network was to allow any business or individual, anywhere in the world to have access to a powerful and secure transactional tool.

#### **II. Megahoot**

On March 14, 2018 Megahoot LLC took over the responsibilities of future development, maintenance, marketing and transaction fulfillment of the Pecu Novus network. This shift has allowed Pecu Novus to become a more secure, user friendly and viable network that will continue to grow over time.

### **III. What's In a Name?**

The name Pecunia Novus was chosen for a very specific reason, for what it stood for and how it symbolized the network to the world. In Latin Pecunia mean "MONEY" and Novus means "NEW", so in short Pecunia Novus = NEW MONEY.

### **IV. The Pecunia Novus Asset Fund**

The Pecunia Novus Asset Fund LLC was created in order to hold any and all assets related to the Pecunia Novus network. The asset fund would be best described as a "Hybrid Fund", whereby, the fund's investment strategy is to invest over a wide variety of investment classes, including but not limited to, equity in both public and privately held companies, debt, real estate, other digital assets, precious metals, derivatives and more. The main goal of the fund is growth, increasing the value in the assets invested in for the benefit of the entire network.

### **V. Initial Coin Offering "ICO"**

Pecunia Novus was never an Initial Coin Offering "ICO" by design. There have been a vast majority of such offerings being offered to the public that didn't have the actual system built until the offering was completed, so they are basically detailed ideas at first. The Pecunia Novus network needed to be built in order for the benefits to be seen, not on paper but in reality. There were investments made to allow this to occur for the benefit of entire network and its users. The integrity of the Pecunia Novus network is paramount and will remain that way as it has been since inception.

### **VI. Total Supply of Coins**

The total supply of Pecunia Novus coins are 100 million coins and they are broken down into three parts by design as no mining is allowed on the network:

**A)** The first are 80 million coins that are issued but not in public circulation, they are solely for investment purpose by the Pecunia Novus Asset Fund for the benefit of the Pecunia Novus network.

**B)** The second are 10 million coins that are issued and not in public circulation, which are for escrow purposes. When a business chooses to use the Pecunia Novus network for its escrow feature these coins are utilized. The other utilization of these coins are for payment guarantees of various business related transactions. This is an additional revenue source for the Pecunia Novus Asset Fund.

**C)** The third is the actual number of coins in public circulation, that is 10 million coins that are freely in the public circulating supply.

## **VII. Is Pecu Novus Seen as an Investment?**

As with any store of value, whether it be digital or physical, the possibility of it accruing in value over time is evident. The key word is "VALUE" and with the Pecu Novus coin supply capped at 100 million coins and 80 million of those coins are slated solely for investments by the Pecu Novus Asset Fund, it gives it additional value as the use grows globally by both a businesses and individual. As the underlying assets accrue in value so does the strength of the entire network. So like gold, silver, certain stocks or bonds, holding digital assets such as Pecu Novus have proven to be growth situations.

The best point of reference as far as digital assets are concerned would be Bitcoin itself. In December 2011 it was valued at a minimum of \$2 per coin just a year later, in December 2012, it was valued at a minimum of \$13 per coin. Now flash forward as it became more widely adopted globally, basically became a household name and paved the way for an evolution in digital assets, Bitcoin in December 2017 was valued at a minimum of \$13,000 per coin and went as high as the mid \$19,000 per coin by year end, The acceptance of digital assets as a viable alternative to other investments as well as its transactional value brought futures contracts to being born based on Bitcoin on the CBOE, CME and soon the NYSE and NASDAQ may be possible. With major investment banks such as Goldman Sachs creating trading desks solely for cryptocurrency trading as they have for equities, bonds and commodities, it shows that the future is very bright for alternative assets such as Pecu Novus. It's a very strong possibility that these same major financial institutions in the near future will also recognize other viable digital assets, such as Pecu Novus, and pave the way for a continued evolution in alternative assets.

With that said, alternative assets such as Pecu Novus are still very young and the space itself is a fragmented economy and there can be extreme volatility with many of these alternative assets, so as a safety precaution its never recommended to hold all your savings in any digital assets at this point. See them as a high risk alternative asset that is maturing over time.

## **VIII. Key Points of the Pecu Novus Network**

- Total supply limited to 100 million coins;
- Total circulating supply is 10 million coins;
- A coin is divisible down to 8 Decimal places;
- There is no mining however designated community members will be assigned for larger transactions requiring triple confirmation;
- A variety of assets are currently being added to the Pecu Novus Asset Fund that will grow over time and strengthen the entire network. These assets may include but are not limited to: stocks, bonds, precious metals, altcoins, real estate;
- 80 million coins are designated for investment purposes, adding value to the network
- The Pecu Novus Asset Fund is managed by an experienced management team in Falcon Global Acquisitions;
- The Pecu Novus digital wallet is easily managed and multi-functional, offline cold storage of coins will be added soon;

- Timed escrow capability with an automatic dated release for various business transactions;
- 1 megabyte blocksize limit that is expandable as system grows;
- Dual confirmation feature for acceptance of transactions;
- Pecu Novus was never an Initial Coin Offering by design;
- SHA512 bit encryption and proprietary security protocols are used for the highest level of security on the network;
- Advanced blockchain technology;
- The network allows for additional text for legalese, links or other information to be included within a transaction and permanently incorporated into a block. In the near future transactional documents will be able to be scanned for a transaction and connected to that block.

## **IX. Pecu Novus 101**

Pecu Novus sees itself as a major disruptor in the alternative asset world. The network was created in order to make it as simply as possible for anyone to use no matter their level of technical knowledge. Pecu Novus is not just for speculators and the tech savvy, but it's for average individuals and businesses conducting everyday transactions. This is the key of the network, having it simple enough to understand and making it not for some but for everyone.

Before we show some technical information, its important to go over how simple the network is to use.

New users simply set up a digital wallet on PecuNovus.org via a computer or mobile phone; this digital wallet will store your Pecu coins, similar to an online bank account. Once the digital wallet is created a "Pecu Address" (Public Key) is automatically generated. These public keys are what is a permanent part of the public ledger, this is why it's a good idea to change your public key after each transaction, for security reasons. So as with most digital wallets, the transfer works as simply as an email would, in the "Send Coins" area place the amount that is to be sent, paste the "Pecu Address" (Public Key) in the appropriate slot, in the "Note" section you can add a description for the transaction if you so choose, this becomes a permanent part of the transaction the public ledger (blockchain). Last step just press "SEND" and the Pecu coins will arrive to the receiver within seconds. It's that simple.

## **X. The Blockchain**

A blockchain is a public ledger, a true public account of activity; this is the foundation of Pecu Novus. Each and every transaction is included in the public ledger for transparency and security. All transactions are permanent within the blockchain and can never be altered, as they are completed they form a chronological order of transactions enforced by cryptography. The Pecu Novus digital wallet which holds the PECU coins calculates your balances as you use it and as the price adjusts. You have the ability to print an account statement of your Pecu Novus account for your records whenever needed.

## **XI. The Development Team**

The development team behind the Pecu Novus network consist of highly skilled engineers who are focused on advanced cryptography. As of March 14, 2018 Megahoot LLC took over the responsibilities of the future development and maintenance of the network so this added to the development team. The team includes L.Velazquez, R. Waga, A. Achida, S. Fayis, R. Hidayat, T. Smith and others.

## **XII. The Advisors**

The current plan is to target advisors by the end of the 2018 calendar year to assist with guidance to continued growth of the network.

## **XIII. The Asset Managers**

The firm Falcon Global Acquisitions is the manger of the Pecu Novus Asset Fund.

## **XIV. Definitions/Technical Information**

### **Definitions:**

#### **Public Key:**

Unique key that is attached to each account. It's Used to deliver any transaction / communications directly to that account.

Users are able to Refresh their Public Key and receive a new one (*automatically generated by the network*). This feature provides additional security and privacy for users.

#### **Private Key:**

It's a unique permanent key that is attached to each account. Private keys should not be shared with anyone except the account owner. Private Keys will never be shown on any transactions view layer, it will only be used to execute and finalize a specific transaction / communication.

#### **Escrow:**

Contract Based Transaction, Coins are locked for scheduled future date and will be executed or released automatically when the contract terms are fulfilled or date is reached.

**Transaction Note:**

Notes for a specific transaction which will be shown publicly.

**Private Transaction Note:**

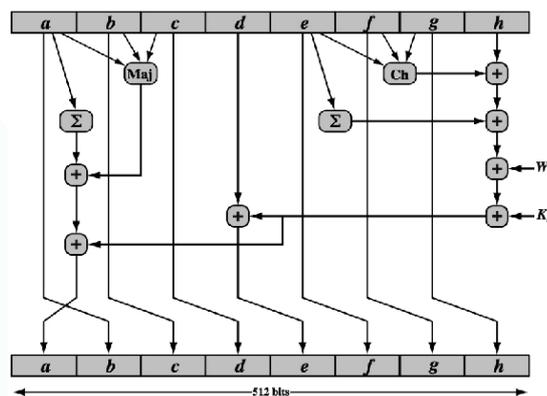
Notes for a specific transaction which will only be viewable by the sender and receiver.

**SHA512**

SHA512 is a cryptographic hash function that when applied to the provided input results in a 128-digit hexadecimal number that is highly unlikely to match the value produced for a different input. SHA512 is a variant of the SHA-2 set of cryptographic hash functions designed by the United States National Security Agency (NSA).

**Technical:****HASH / Key generation method:**

- Customized Algorithm (*Generating key with a random length of numbers and letters, between 64 to 128, a combination of String, Integers and time stamp*).
- SHA512 The SHA-2 family is built from a block cipher in a Davies-Meyer construction, where the message is considered the key and the current hash value the plain text. The 2nd set of constants in the SHA-512 round function is 14, 18, and 41. Rotations are also performed in the message expansion (key schedule), and are also important. The block cipher at the center of the compression function must behave in a secure manner, and the rotational constants were chosen in such a way that the block cipher is resistant to standard cryptographic attacks. The round count was then fixed to meet the security requirement of the hash digest, plus some wiggle room for new attacks.

**Public Key:**

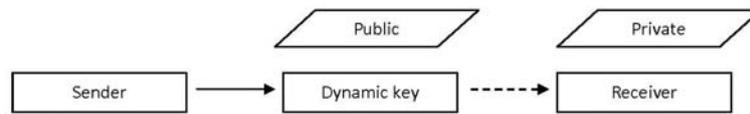
Random lengths of numbers and letters, between 64 to 128, a combination of Strings, Integers and a time stamp.

**Private Key:**

Combination of:

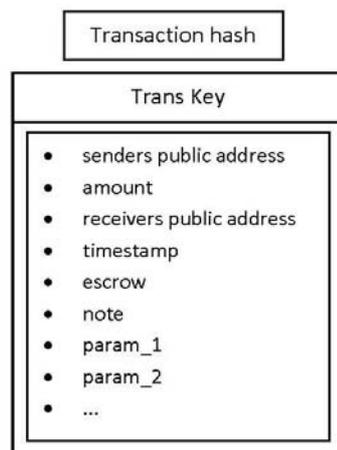
- SHA512 Hashed information.

- Mixed with Random length of numbers and letters, between 60 to 102, a combination of Strings and Integers.



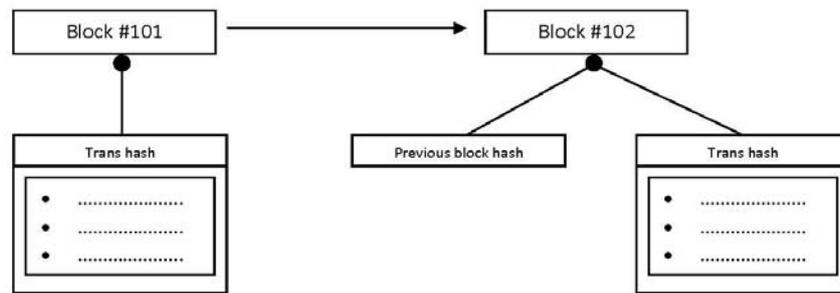
**Block Address:**

Communication / Transaction Information's Hashed with SHA512



**Block Time:**

- 2-4 Hours
- may change in the future

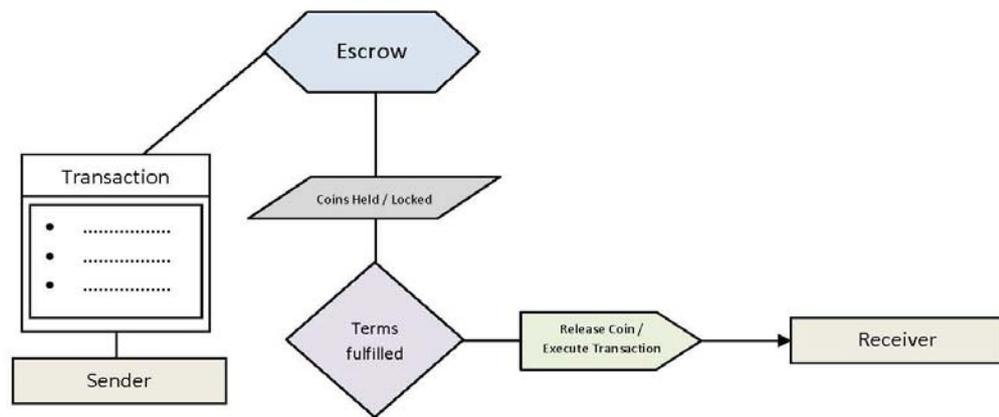


### **Escrow:**

The transactions that occur with digital assets such as Bitcoin, Ethereum, Litecoin, Pecu Novus and others are final, there are no reversals of a transaction, when the sender initiates the transaction and its completed then the receiver owns those coins even in the event of an error on the senders part. The only way that coins in that case would return to the sender is if the receiver would send them back. We saw a major flaw in this system and considered it a high risk situation when performing any transaction, using a digital asset to purchase goods or services. This is why we developed a comprehensive escrow system on the Pecu Novus network to avoid the pitfalls that may come from initiating a transaction on the network.

The escrow feature was developed to protect both the sender and receiver of Pecu Coins. So as opposed to just sending coins free and clear for a transaction, no matter what the size, a user can send them with a dated release option on the Pecu Novus network. For example if the Pecu coins were being used for a real estate transaction or an import/export transaction, basically the coins and highlights of the contract would be included when initiating the transaction. When the transaction is completed on the designated date then the coins are automatically released, the sender also has the option to release the coins earlier than the dated release or if the transaction doesn't go through then the transaction can be canceled for cause.

On the technical side, in line with all the high security features of the network, the escrow uses a random length of numbers and letters, between 64 to 128, a combination of strings, integers and a time stamp.



**Communication / Connection Protocol:**

- HTTPS
- OAuth 2.0
- Private Session and Token (*custom algorithm*).

**API**

**Required Information:**

- Token
- Host
- IP Address
- Type (*module request*)
- *Other Parameter depends on module type*

**Language & Method:**

- PHP - cURL
- JS - AJAX

*\* The technical information in this document is for the general public and any information contain herein features a simplified version of the running flow, process code and implementation, which is proprietary to the Pecunia Novus network. Releasing such information could lead to a breach in security protocols which are the backbone of the network.*

**XV. Brief History of Cryptocurrency**

In 1998, Wei Dai published a description of "b-money", an anonymous, distributed electronic cash system. Shortly thereafter, Nick Szabo created "bit gold". Like bitcoin and other cryptocurrencies that would follow it, bit gold was an electronic currency system which required users to complete a proof of work function with solutions being cryptographically put together and published. A currency system based on a reusable proof of work was later created by Hal Finney who followed the work of Dai and Szabo.

The first decentralized cryptocurrency, bitcoin, was created in 2009 by pseudonymous developer Satoshi Nakamoto. It used SHA-256, a cryptographic hash function, as its proof-of-work scheme. In April 2011, Namecoin was created as an attempt at forming a decentralized DNS, which would make internet censorship very difficult. Soon after, in October 2011, Litecoin was released. It was the first successful cryptocurrency to use scrypt as its hash function instead of SHA-256. Another notable cryptocurrency, Peercoin was the first to use a proof-of-work/proof-of-stake hybrid. IOTA was the first cryptocurrency not based on a blockchain, and instead uses the Tangle. Many other cryptocurrencies have been created though few have been successful, as they have brought little in the way of technical innovation.

The legal status of cryptocurrencies varies substantially from country to country and is still undefined or changing in many of them. While some countries have explicitly allowed their use and trade, others have banned or restricted it. Likewise, various government agencies, departments, and courts have classified bitcoins differently. China Central Bank banned the handling of bitcoins by financial institutions in China during an extremely fast adoption period in early 2014. In Russia, though cryptocurrencies are legal, it is illegal to actually purchase goods with any currency other than the Russian ruble.

On March 25, 2014, the United States Internal Revenue Service (IRS) ruled that bitcoin will be treated as property for tax purposes as opposed to currency. This means bitcoin will be subject to capital gains tax. One benefit of this ruling is that it clarifies the legality of bitcoin. No longer do investors need to worry that investments in or profit made from bitcoins are illegal or how to report them to the IRS. In a paper published by researchers from Oxford and Warwick, it was shown that bitcoin has some characteristics more like the precious metals market than traditional currencies, hence in agreement with the IRS decision even if based on different reasons.

#### Risk Factors Associated with Owning Cryptocurrencies

1. **Loss or destruction of the private key:** Cryptocurrencies are stored in a digital wallet and are controllable only by the possessor of both the public key and the private key relating to the digital wallet in which the cryptocurrencies are held, both of which are unique. If the private key is lost, destroyed or otherwise compromised, an investor may be unable to access the cryptocurrency held in the related digital wallet which will essentially be lost. If the private key is acquired by a third party, then this third party may be able to gain access to the cryptocurrency.
2. **Other cyber-security risks including malicious activity:** Trading platforms and third-party service providers may be vulnerable to hacking or other malicious activities. For example, in August 2016, nearly 120,000 units

representing US\$72 million-worth of bitcoins were stolen from the Bitfinex exchange in Hong Kong, which led to an immediate 23% drop in pricing. One year earlier, in September 2015, BitPay lost approximately \$1.8 million of bitcoins due to a phishing attack. Also, if one or more malicious actor(s) obtain control of sufficient consensus nodes on the Bitcoin Network or other means of alteration, then a Blockchain may be altered. While the Bitcoin Network is decentralized, there is increasing evidence of concentration by creating of “mining pools” and other techniques, which may increase the risk that one or several actors could control the Bitcoin Network or other similar Blockchain.

3. **Risks associated with peer-to-peer transactions:** Digital currencies can be traded on numerous online platforms, through third party service providers and as peer-to-peer transactions between parties. Many marketplaces simply bring together counterparties without providing any clearing or intermediary services and without being regulated. In such a case, all risks (such as double-selling) remain between the parties directly involved in the transaction.
4. **Other risks related to trading platforms and exchanges:** Digital currency trading platforms, largely unregulated and providing only limited transparency with respect to their operations, have come under increasing scrutiny due to cases of fraud, business failure or security breaches, where investors could not be compensated for losses suffered. Although one does not need a trading platform or an exchange to trade bitcoins or other cryptocurrencies, such platforms are often used to convert fiat currency into cryptocurrency, or to trade one cryptocurrency for another.
5. **Loss of confidence in digital currencies:** Digital currencies are part of a new and rapidly evolving “digital assets industry”, which itself is subject to a high degree of uncertainty. For a relatively small use of digital currencies in the retail and commercial marketplace, online platforms have generated a large trading activity by speculators seeking to profit from the short-term or long-term holding of digital currencies. Most cryptocurrencies are not backed by a central bank, a national or international organization, or assets or other credit, and their value is strictly determined by the value that market participants place on them through their transactions, which means that loss of confidence may bring about a collapse of trading activities and an abrupt drop in value.
6. **Regulations preventing or restricting trading of digital currencies:** There are significant inconsistencies among various regulators with respect to the legal status of digital currencies. Regulators are also concerned that bitcoin and other cryptocurrencies may be used by criminals and terrorist organizations. In the future, certain countries may restrict the right to acquire, own, hold, sell or use digital currencies.
7. **Currency-conversion risks:** Policies or interruptions in the deposit or withdrawal of fiat currency into or out of the trading platforms may impact the ability of certain investors to convert. For example, when two of the largest trading platforms in China stopped margin lending and withdrawals in February 2017 and started implementing stricter anti-money laundering policies following discussions with Chinese authorities, this immediately triggered a decrease in pricing and trading volume.
8. **Taxation of digital currencies:** For investors in cryptocurrencies, it should be noted that there is substantial uncertainty with respect to the tax treatment of

an investment in digital currencies. Bitcoins and other cryptocurrencies may be considered assets in certain jurisdictions and currency in others. Sales or value-added taxes may be imposed on purchases and sales of digital currencies. The investors, based on their home jurisdiction, may require specific tax advice on a regular basis to ensure the tax treatment of their investments in digital currencies.

9. **Slow-down of network:** For bitcoins, mining is the process by which bitcoins are created and transactions verified. Through downloading a specific software, the user's computer becomes a "node" that validates blocks (i.e. details of some or all of the most recent transactions). Miners which are successful in adding a block to the Blockchain are automatically awarded bitcoins (plus transaction fees for transactions recorded). However, if the rewards for solving blocks and transaction fees are not sufficiently high, or if a high volume of transactions occur at the same time, the Blockchain may experience a slow-down. A slow-down is also possible for other cryptocurrencies, if the number of transactions on the blockchain is very high.
10. **Dilution due to competition or "fork" in the Blockchain:** Last but not least, cryptocurrencies are based in protocols which govern the peer-to-peer interactions between various users. Dissent between users as to protocols to be used may result in a "fork", opening two separate networks. For example, in 2016, Ethereum experienced a permanent fork in its Blockchain that resulted in two versions of its digital currency, Ethereum (ETH) and Ethereum Classic (ETC), which trade very differently. Very recently, Bitcoin also experienced its first fork, leading to the creation of Bitcoin Cash (BCC), a new cryptocurrency.

## **XVI. Conclusion**

Alternative assets are exploding at an exponential rate, there are over 1500 coin and token networks that exist today, some viable and some not. There is no question that the alternative asset arena is cluttered with cryptocurrency platforms, so being different is a key component of the Pecunia Novus network. As a relatively newly introduced digital asset that is asset backed, easy to use with innovative and functional features for global transactions, we feel that the network will appeal to the masses. Again not just for businesses but for individuals from all walks of life worldwide. The unique functions on the Pecunia Novus network along with the asset backed feature are unlike that of existing alternative assets such as Bitcoin, Ethereum or Litecoin.

As such Pecunia Novus' appeal will be to:

- Long term asset holders looking for appreciation;
- Cryptocurrency enthusiasts;
- Small, medium and large businesses looking for alternative cost effective and secure methods of transacting business.

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