

Proposal of a Smart City Built on Application of Cryptocurrency

Student name: Saud Abdelaziz Alhammadi

Student number: G2120018

INTRODUCTION

- People have relied on fiat money to conduct daily business transactions for as long as it has existed.
- Bitcoin was created in 2008 by a group or individual known as Satoshi Nakamoto, allowing individuals to conduct daily transactions using a digital currency.
- Currency that is not centralized Bitcoin operates independently of banks or other financial institutions.
- Peer-to-peer exchange is possible because transactions can be conducted anonymously

History of Cryptocurrency

- When Satoshi Nakamoto first introduced Bitcoin, there were only 50 of them. At this early stage, only computer geeks worldwide dismissed the hype.
- When Mt Gox, a Japanese company, launched its Bitcoin trading platform in 2010, there were twenty Bitcoins available for trading at 4.951 cents each.
- The merchandise was approximately \$1.00 in value. When this paper was published, the value of Bitcoin had risen to an all-time high of \$6,777, making it the most valuable currency in history at the time. According to Bohme, scarcity is what gives bitcoin its value

LITERATURE REVIEW

1. The Innovation in Cryptocurrency Market

Cryptocurrencies such as Bitcoin and others are still a novelty in the world of payment systems and technology. While the term "cryptocurrency" is frequently used in domestic and international literature when discussing cryptocurrencies

2. The Emergence of Cryptocurrency and the Chronology of Its Development

Money has taken on a variety of forms throughout history, but it has always served the same fundamental functions: as a medium of exchange, a means of storing value

LITERATURE REVIEW

3. Forms of Cryptocurrency

Before a new monetary system can be widely adopted, it is necessary to conduct extensive theoretical and legal research into it. Malta, Japan, Germany, China, Belarus, Georgia, Estonia, Slovenia, Gibraltar, and Switzerland are just a few of the countries that have already enacted legislation to regulate cryptocurrencies.

4. Open Innovation with Cryptocurrency

Numerous researchers working with cryptocurrency in Open Innovation employ deep learning techniques in their selection processes.

CRYPTOCURRENCIES DATA AND CHARACTERISTICS

- CoinDesk is the primary source for information on cryptocurrency prices.
- We use data from January 1, 2011, to May 31, 2018, due to the early years of Bitcoin's lack of market liquidity and trading. The Ripple and Ethereum data series are available from August 4, 2013, to May 31, 2018.
- We generate cryptocurrency return data by using the cryptocurrency's price as a reference point. Google allows for the download of search data series.
- Crimson Hexagon tracks the number of downloaded tweets containing the term "Bitcoin."
- Blockchain.info provides the number of Bitcoin Wallet users.

ISSUES CURRENTLY ASSOCIATED WITH THE TERM

- 1. Role of cryptography in early Cryptocurrencies**
Technically, the ability to write and read transaction records can be used to categorise projects, according to the permissions granted.
- 2. Monetary characteristics of early Cryptocurrencies**
This has been a major concern for those who believe that cryptocurrencies can be used to create "digital cash" or "currency," and it continues to be so.

My Proposal

1. Overview of my smart city in UAE

- Cryptocurrency cannot be as it is cryptographically protected.
- Distributed Ledger technology used and are enforced by a distributed network of computers (Bitcoin & Ethereum).
- Conduct secure online transactions without the involvement of a third-party intermediary.
- Several methods are used to protect these entries, including:
 - Elliptical curve encryption
 - Public-private key pairs
 - Hashing functions



My Proposal

2. Importance of my smart city in UAE

Bitcoin is here to stay

- Quick and secure transactions
- The system can be maintained without the danger of data being stolen or hacked, compared to traditional currencies.
- Bitcoin will not cause inflation to occur.
- No central bank boost the overall amount of money in the system because the total number of bitcoins that may ever be created is capped to approximately 21 million.

My Proposal

3. Implementation of my smart city in UAE

My business plan centers on two main services:

-Intermediary services



I'll smooth out crypto-related transactions for both parties when cryptocurrency method of payment is involved & handle all legal issues.

Liquidation services



Convert cryptocurrencies to cash, and deposit into designated bank accounts. (Handle legal procedures and paperwork to open a UAE bank account for people out of country)

Implementation of my smart city in UAE

UAE already has a smart mobility system called “Salik” in place.

My smart city plan for the UAE would also include the following:

- Smart Utilities
- Smart Waste Disposal
- Smart Public Participation

Future works

The UAE can leverage urban smart city solutions like:

- Smart communications
- Smart public administration
- Smart security



CONCLUSIONS

- The cryptocurrency markets are constantly evolving in terms of their technical and technological systems, and this is reflected in their prices.
- Digital currencies, both new and old, are currently being developed and tested.
- Competitiveness in digital currencies can only be achieved if the currency can be used outside of a single system, which is currently not the case.
- Stable coins, alternative currencies (altcoins), and cryptocurrency systems have been identified as the three areas in which the development of cryptocurrencies will be divided.