MAHRACOIN

WHITEPAPER

Abstract

Mahra is a decentralized telemedicine platform that connects patients and doctors around the world. It allows patients to store their own data in a secure way and gives access to specialists anywhere, regardless of the payer network or EMR (Electronic Medical Record) used.

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Introduction

MAHRA is a decentralized healthcare record management platform with a vision to solve the problems in the fragmented healthcare industry as well as improved outcomes for patients. Our proposal involves the implementation of a blockchain, healthcare record as an overarching access control manager of electronic health records.

MAHRA provides an easy and secure access to the patient's health records through a robust mobile or web application. This can simplify the work of doctors, specialists and hospital staff as they can access the information on the go anywhere, anytime in case of emergencies or accidents. Access to good healthcare shouldn't depend on where you live.

When medical data are generated, for example from a doctor's note or patient's wearable device, a digital signature is created for verification. This data is then encrypted and sent to the encrypted cloud storage where a pointer to the health record is registers in the blockchain along with the user's unique ID.

Problems

I. In EMR, not only you must buy equipment to record and store patient charts (much more expensive than paper and file cabinets), but efforts must be taken to convert all charts to electronic form. Patients may be in the transitional state, where old records haven't yet been converted and doctors don't always know this. Further, training on electronic medical records software adds additional expense in paying people to take training, and in paying trainers to teach practitioners.

II. Another problem is that current electronic health record (EHR) systems use centralized databases in which medical data remains largely no portable. Centralization increases the security risk footprint, and requires centralized trust in a single authority.

III. Additionally there is not one electronic medical records system. There are many. Streamlining patient care can only be achieved when a single system is used, since two or more systems may not work together. If the hospital uses a different EHR system than your primary care physician, health records may not be available to the hospital, or vice versa from hospital to the physician. Electronic medical records may reduce office paperwork, but they may not coordinate care between several treating physicians, pharmacies, and allied health workers as they promise to do when different systems are used by each group.

IV. Another problem is that current electronic health record (EHR) systems use centralized databases in which medical data remains largely no portable. Centralization increases the security risk footprint, and requires centralized trust in a single authority.

V. Moreover, centralized databases cannot ensure security and data integrity, regardless of de-identification and controlled access requirements.

Solution

I. MAHRA is a decentralized healthcare record management platform with a vision to solve the problems in the fragmented healthcare industry as well as improves outcomes for patients. Our proposal involves the implementation of a blockchain healthcare record as an overarching access control manager of electronic health records (EHR).

II. Data can only be accessed by the patient's private key, even if the database is hacked, the data will be unreadable.

III. A patient will have full control over accessing their healthcare data. The patient will control who sees their data and what they see.

IV. Instantaneous transfer of medical data. Every member in the distributed network of the health care blockchain would have the same data of the patient's record.

V. MAHRA will provide innovation in electronic medical records (EMRs) by providing a free-to-integrate open source API to add MAHRA to any EMR without regulatory barriers.

VI. It adds a novel, decentralized record management system for EMRs that uses blockchain technology to manage authentication, confidentiality, accountability, and data sharing while storing data off-chain in a secure cloud.

What is MHRA Coin?

MHRA-COIN Is A Decentralized Cryptocurrency Or Digital Currency Based On (PoW/PoS) Hybride Technology. Mahra is a decentralized telemedicine platform that connects patients and doctors around the world. It allows patients to store their own data in a secure way and gives access to specialists anywhere, regardless of the payer network or EMR (Electronic Medical Record) used.

Mahra offers innovative blockchain based solutions to tackle health care's critical challenges. It is an initiative to bring widespread transparency and efficiency, has evolved into a full-scale ecosystem to revolutionize the health care services sector. The blockchain will do to health care what the internet did to the media; streamline it and create a more competitive environment, producing quality healthcare services which operate at the highest level of efficiency.

Features

Leading exchange platform:

MAHRA fund commercial center for apprentices and expert merchants, monetary establishments and institutional financial specialists.

Charts:

Cryptographic money knows no limits, which is the reason we give our clients an entire scope of exchanges, mirroring the trade postings progressively and other important information, from our stage, and also other digital money trades.

Trading terminals:

Cross Platform exchanging terminal (Web, Mobile (iOS, Android), Desktop (Linux, MacOS, Windows) with the full help of trade capacities, with an extensive variety of explanatory potential outcomes, with the help of various sorts of requests, online-postings, intuitive designs and specialized markers, exchanging signs and duplicates of exchange. The intense exchanging framework enables brokers to acknowledge convoluted techniques.

Wallet:

The wallet provides a simple method to manage accounts in real time and in any place. Buy exchange and send currencies to friends securely and quickly.

Global Overview

Health information proliferation, anticipating an overall increase in health data of 48 percent annually. The report pegs the volume of healthcare data at 153 Exabyte's in 2013. At the projected growth rate, that figure will swell to 2,314 Exabyte's by 2020. To paint a picture, the authors of the report suggest storing all of that patient data on a stack of tablet computers. By the 2013 tally, that stack would reach nearly 5,500 miles high. Seven years later, that tower would grow to more than 82,000 miles high, bringing you more than a third of the way to the moon.

At these projected growth rates, healthcare data is soon expected to reach the zettabyte and yottabyte scale. For reference sake, 1 zettabyte is equivalent to 152 million years of UHD 8K video format and 1.4 yottabytes, which is the largest decimal unit prefix in the metric system, is roughly equivalent to the mass of all the oceans. Further, about 80 percent of the world's healthcare data is unstructured which means there is a lot of room for technology advances.

Healthcare organizations are faced with managing this tremendous amount of patient medical data along with an increased demand for real-time access to complete patient records. In conjunction, they must streamline their application portfolios to decommission legacy applications and keep protected health data stored and accessible for compliance, research and reporting. A legacy EHR medical data storage archive is an intelligent decision as part of an overall health data management strategy for saving on legacy system maintenance cost, labor burden and technical risk.

Blockchain Function

The Blockchain technology is radically changing the future of entire healthcare industry, weaving together critical data from every stage of the continuum care. It provides a new foundation and structure for health information management by making electronic medical records more efficient, without intermediaries and empowering patients to be the owners of their own records. Now share data with various stakeholders without compromising data security and integrity along with accurately tracking data provenance and changes made.

With the advent of the MAHRA public blockchain and its related sub-protocols forming the backbone of transparency, and speed, for peer-to-peer communication, we can now provide users a medium of agreements that is decentralized, permission less, trustless, with fair access and is cryptographically

verifiable. A medium that maintains an ‘immutable’ transaction record as long as the majority of the MAHRA blockchain network collectively agrees.

MAHRA blockchain the healthcare possesses the technology necessary to build a better model for the speed. We believe the MAHRA public blockchain will continue to permeate all future need for healthcare. We at MAHRA decided to work on this blockchain based.

MAHRA Coin Model

When the payment for the data purchase service is done, MAHRA Company converts received fiat funds into Coins and transfers them to a smart contract. The smart contract receives Coins with an attached message on an order.

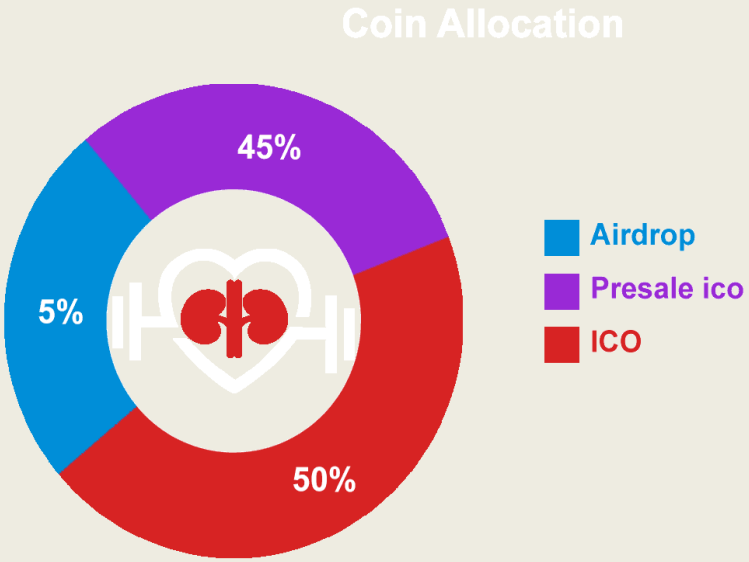
MAHRA Coins will allow access to the MAHRA platform and the ability to invest in MAHRA projects. MAHRA platform is Ultrafast, User friendly and Secured and it uses scrypt algorithm of type PoW/PoS/Hybrid, which is a password-based key derivation function.

Coin Specification

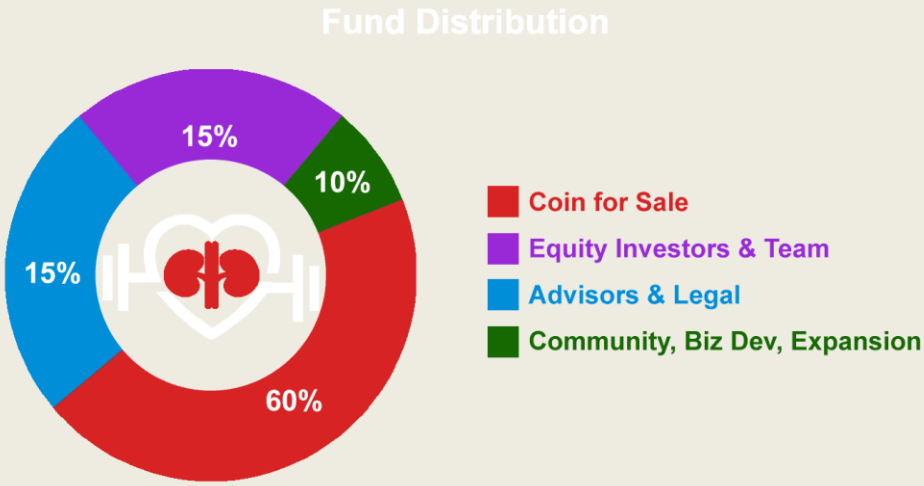
Metric		Parameter
Coin Name	:	MAHRA
Coin Ticker Symbol	:	MHRA
Total Supply	:	190 Million
ICO Supply	:	15.2 Million
Airdrop	:	0.76 Million
PreSale ICO Supply	:	6.84 Million
Block Reward	:	58 MHRA
Coinbase Maturity	:	24 Blocks
Target Spacing	:	178 Seconds
Algorithm	:	Script
Type	:	PoS / PoW

MAHRA Coin Supply Distribution

Coin Allocation



Fund Distribution



Road Map

JULY 2017 : MAHRA Coin concept developed by its Advisors and Founders

FEB 2018 : MAHRA Coin concept and Roadmap developed and its Program as well

MARCH 2018 : Website and Whitepaper launch and Airdrop Start with supply 0.76 Million

MARCH-APRIL 2018 : Website Update and Presale ICO Start With supply 6.84 Million

APRIL 2018 : ICO Start with supply 7.6 Million

MAY 2018	: ICO End
JULY 2018	: Own Crypto currency Exchange Website Launch
AUG 2018	: Listing of Well Known Exchange and Start Trading
OCT 2018	: Event and International Promotion
JAN 2019	: Mobile App Launch with Exchange

MAHRA Team

Dr. Tyler Woods	:	CEO and Founder
Elena Antonova	:	Software Engineer
Edward Brooks	:	UX/UI Designer
Ryan Patterson	:	Blockchain Engineer
Anna Bobekh	:	Marketing Manager
Brian Torres	:	Business Development
Lisa De Jong	:	Consultant

Advisors

Dr. Roderik Williams	:	Legal Advisor
Bridget Greenwood	:	Financial Advisor

THANK YOU