



Seminar Abstract

Topic: [Blockchain in health care](#)

By

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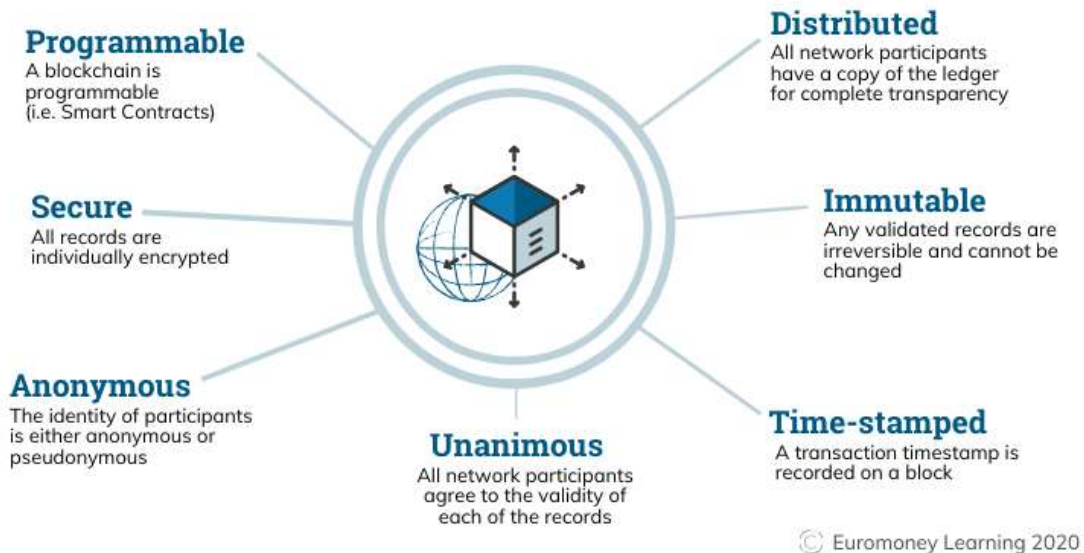
What is Block chain

Blockchain is a system of recording information in a way that makes it difficult or impossible to change, hack, or cheat the system.

A blockchain is essentially a digital ledger of transactions that is duplicated and distributed across the entire network of computer systems on the blockchain. Each block in the chain contains a number of transactions, and every time a new transaction occurs on the blockchain, a record of that transaction is added to every participant's ledger. The decentralised database managed by multiple participants is known as Distributed Ledger Technology (DLT).

Blockchain is a type of DLT in which transactions are recorded with an immutable cryptographic signature called a [hash](#).

The Properties of Distributed Ledger Technology (DLT)



Why is there so much hype around blockchain technology?

There have been many attempts to create digital money in the past, but they have always failed.

The prevailing issue is trust. If someone creates a new currency called the X dollar, how can we trust that they won't give themselves a million X dollars, or steal your X dollars for themselves?

Bitcoin was designed to solve this problem by using a specific type of database called a blockchain. Most normal databases, such as an SQL database, have someone in charge who can change the entries (e.g. giving themselves a million X dollars). Blockchain is different because nobody is in charge; it's run by the people who use it. What's more, bitcoins can't be faked, hacked or double spent – so people that own this money can trust that it has some value.

Block Chain in health care

Blockchain has a wide range of applications and uses in healthcare. The ledger technology facilitates the secure transfer of patient medical records, manages the medicine supply chain and helps healthcare researchers unlock genetic code.

Key Advantages:

Securing Patient Data

Keeping our important medical data safe and secure is the most popular blockchain healthcare application at the moment, which isn't surprising. Security is a major issue in the healthcare industry. Between 2009 and 2017, more than 176 million patient records were exposed in data breaches. The perpetrators stole credit card and banking information, as well as health and genomic testing records.

Medical Supply Chain Management and Drug Traceability/Safety

How much do we really know about our medicine? Can we be sure it hasn't been tampered with? Is it coming from a legitimate supplier? These questions are the primary concerns of the medical supply chain, or the link between the lab and the marketplace.

