

# OPEN SOURCE FOR BLOCKCHAIN DEVELOPMENT

Speaker: Minh Mai Phan

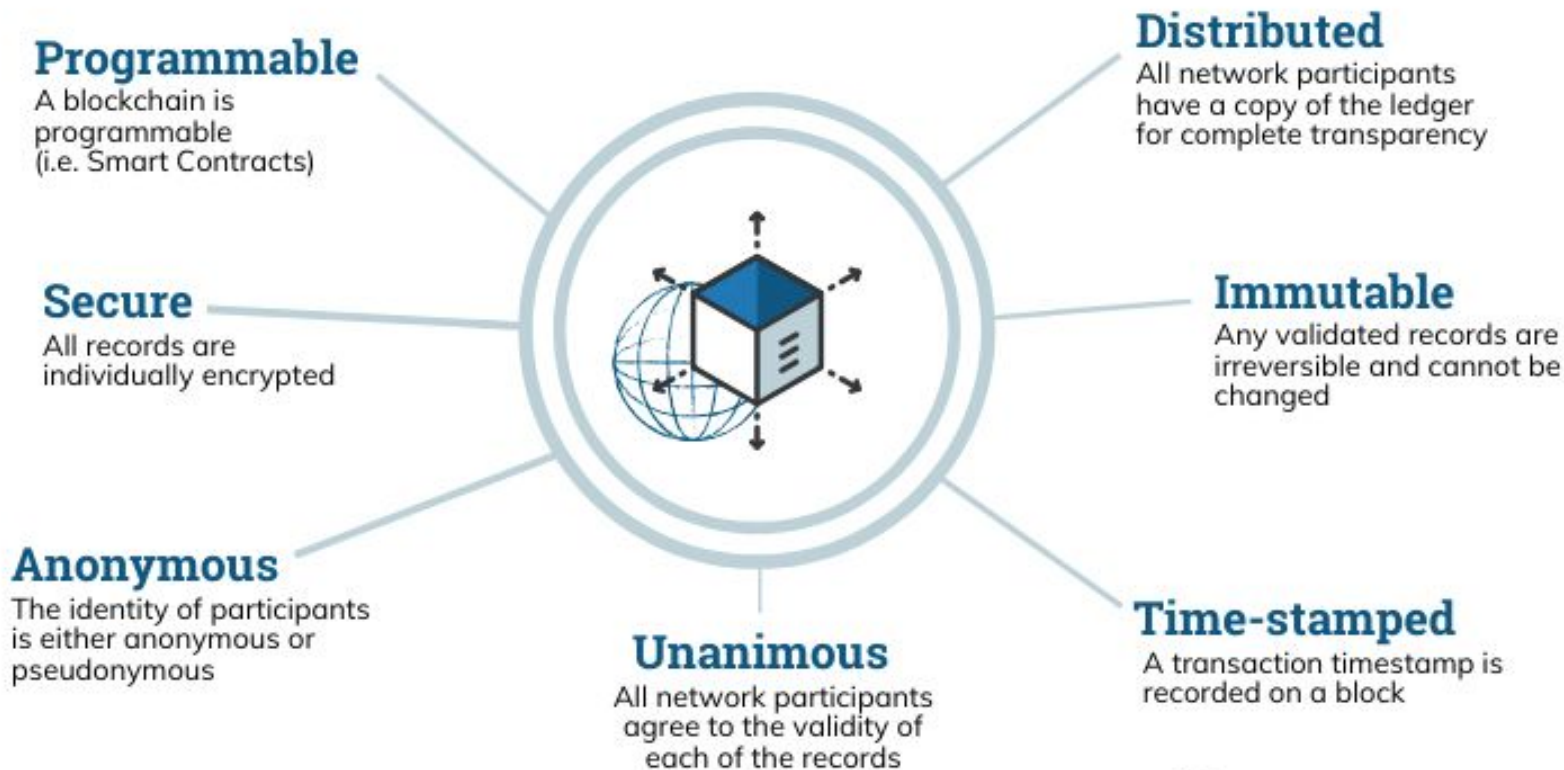


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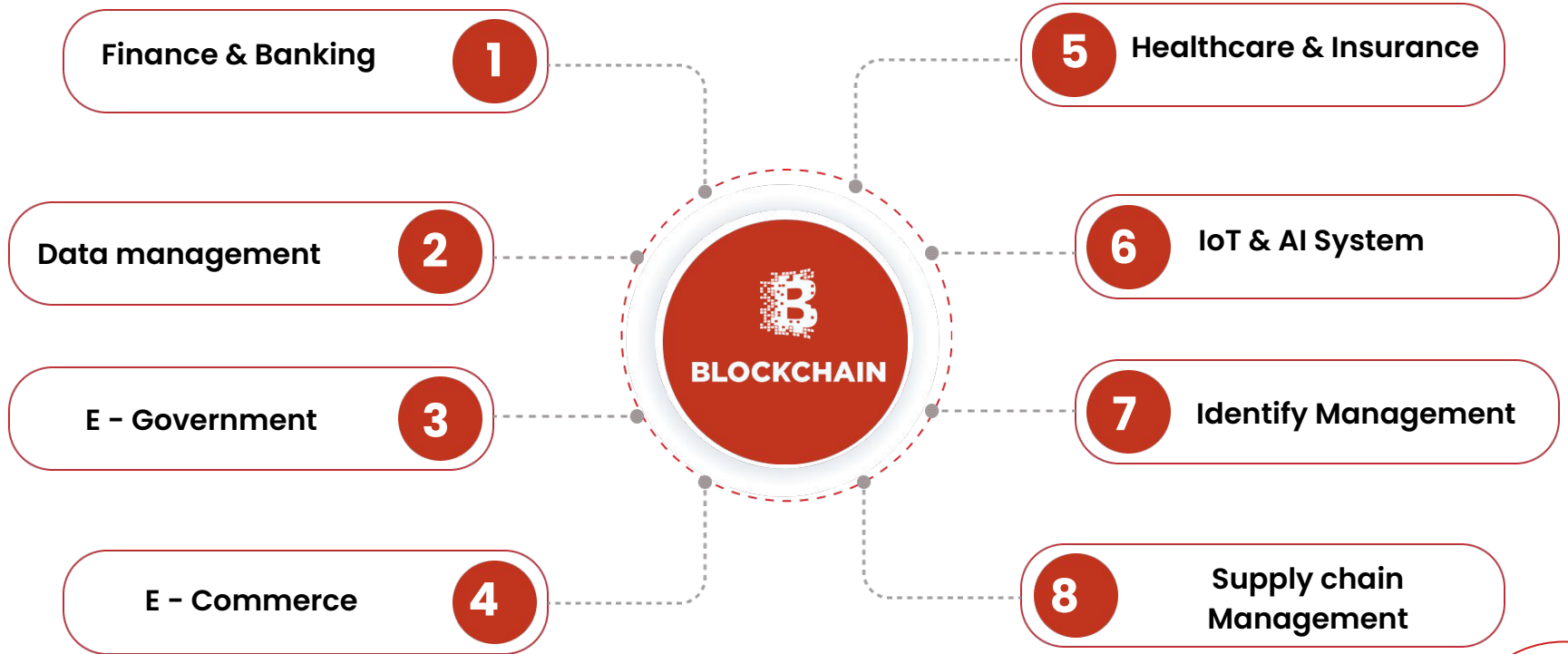
1. **Blockchain's properties**
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# Blockchain's properties



# Blockchain's Application Industries



# Open Source Software

Open source software is software with source code that anyone can inspect, modify, and enhance.

## ***Transparency***

The founding principle of open source is to make the source code of the project public

## ***Modifiability***

Open source software can be modified and re-distributed to solve different problems



## **Open - Source Software**

## ***Enhanced security***

Easy to find security loopholes in the software, raise public awareness about the potential security related pitfalls.

## ***Collaboration***

OSS encourages other developers to collaborate and contribute to the development of the software. This makes open source development, by nature, a community experience.

## ***Decentralisation***

OSS can be modified under proper licensing, this gives the developer the autonomy to use the software as and how desired thus making the process decentralised.

# The Importance of Open Source for Blockchain Technology

## ***Faster Innovation and Better User Experience***

- Almost all the prominent cryptocurrencies in the market, including Bitcoin and Ethereum, are open source
- Company can choose open source to integrate blockchain into its operations.
- It provides flexibility and diversity of technology

## ***Security and Transparency***

- The open-source nature of blockchain technology helps to protect and maintain that all important transparency
- Because everything is publicly audited, security is improved.

## ***Decentralizes***

- Open source facilitates that decentralization meaning no one central "source of truth" can become corrupted or make decisions that impact everyone.

**The Blockchain revolution is being powered by Open Source.**

# Top blockchain open source projects



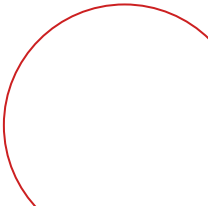
## ***Bitcoin Core***

- The Bitcoin Core work by more than 450 developers that have more some 15,000 code contributions
- These developers are unaffiliated and the public software is free for use



## ***Ethereum***

- Its codebase is the work of 120+ software repositories which focus on different parts of the code, such as smart contracts, network clients, or end-user graphical browsers



# Top blockchain open source projects

## Hyperledger

- Developed by The Linux Foundation
- It contains various blockchain open source projects and develops solutions for enterprises
- Blockchain networks developed using Hyperledger architecture are private and permissioned





# Top blockchain open source projects

## Enterprise Ethereum

- Enterprise Ethereum is the private or permissioned blockchain version of the public Ethereum codebase
- Governed by the Enterprise Ethereum Alliance
- Open-Source Standard Instead of a Product

Enterprise Ethereum alliance is a member-driven organization which offers open source development of Enterprise Ethereum according to organizations need.

**300+**  
Member Companies



**45+**  
Countries



**1,400+**  
Individual Members



**19**

Legal Advisory, and  
Technical Industry  
Groups



### OPEN SOURCE STANDARD INSTEAD OF A PRODUCT

EEA wants to make enterprise Ethereum an open-source standard, not just a commercial product. This way any industry can use this standard to develop technologies.



### GOVERN AND FACILITATE CROSS-INDUSTRY DEVELOPMENT

EEA would govern any type of Enterprise Ethereum deployment and facilitate it according to the enterprise requirements.



### EVOLVE SIDE BY SIDE WITH THE PUBLIC ETHEREUM

Enterprise Ethereum will evolve in parallel to the public Ethereum. It will also get the best features from the public blockchain of Ethereum.



### USE EXISTING STANDARDS


EEA would facilitate all the experience form old standards into the new enterprise Ethereum blockchain. It also wants to harness open-source standards from other developments as well.

# Top blockchain open source projects

## **Corda**

- Corda is distributed ledger software that processes and records data to promote a decentralized network
- Mainly Corda is geared toward the financial sectors
- Since 2016, Corda is one of the blockchain **open-source software** for everyone to use freely

### Corda Architectural Standards




- Scale**  
Corda is highly scalable. So, it can support billions of transactions every day.
- Longevity**  
There will be multiple version of Corda running on the same network side by side. And any application will run on the latest version of Corda; you won't have to change the code for that.
- Secure**  
A great deal of security protocols from the adversarial security environment will look after the network.
- Stable**  
Evolving will be done really carefully. Each version will maintain the consensus critical network standards to avoid any bugs.
- Interoperable**  
You can use multiple applications on the same network and have interoperability among them.


# THANK YOU FOR LISTENING



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# For Further Q&A

 0906 412 484

 [minh.phan@enouvo.com](mailto:minh.phan@enouvo.com)

 [www.enouvo.com](http://www.enouvo.com)