



# Blockchain and Cryptocurrency

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# Popular Crypto currencies and Crypto Platforms

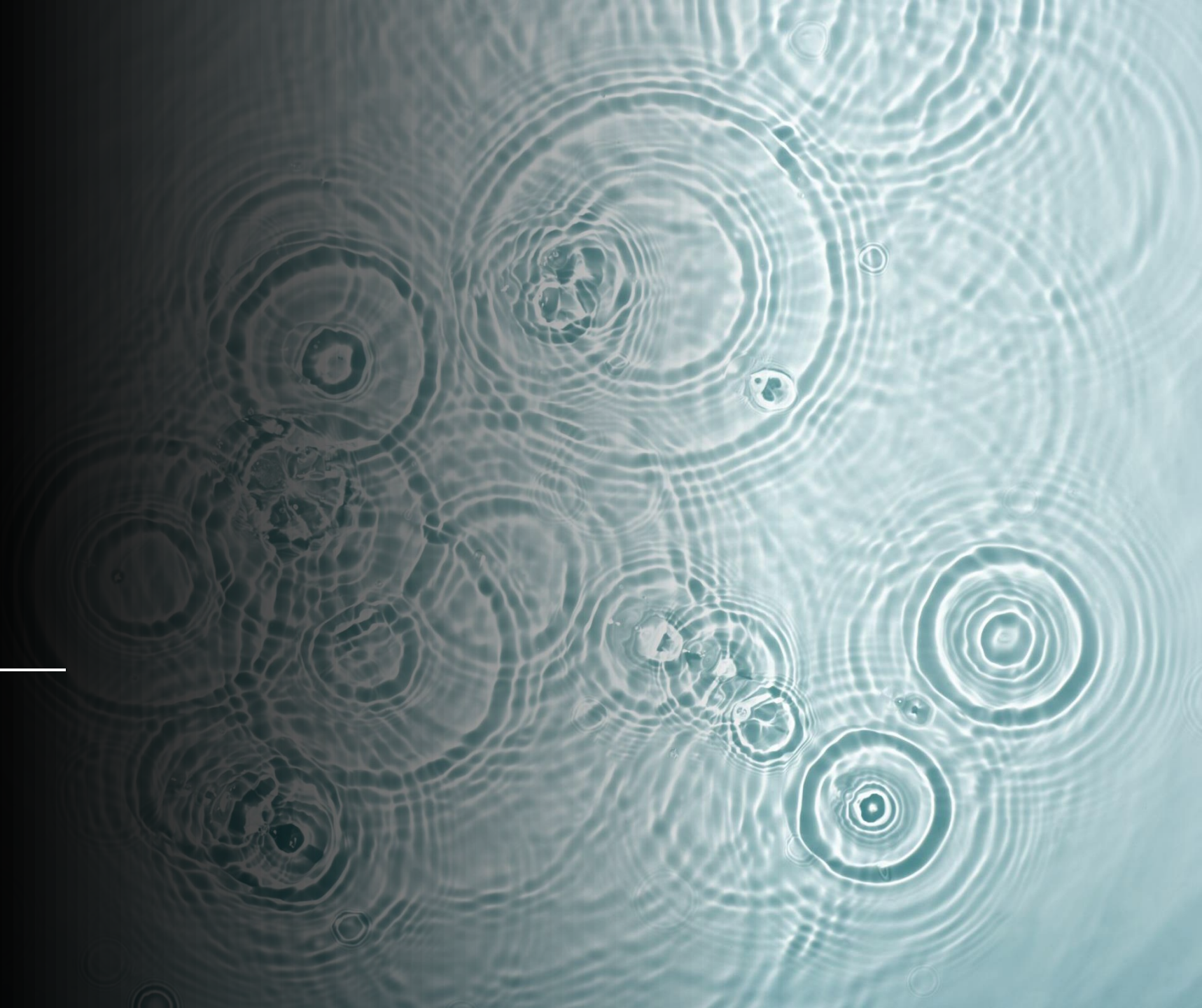






# Ripple

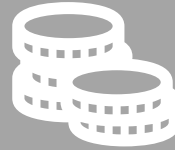
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# Ripple



Also known as XRP



Prominent and popular forms of cryptocurrencies today



Due to its impact in the banking sector, it can also be seen as one of the main disruptive technologies currently shaping the industry

# Ripple



- The company building the Ripple protocol, OpenCoin, was co-founded by CEO Chris Larsen and CTO Jed McCaleb.
- Originally released in 2012
- Written in C++
- Network can operate without the Ripple company
- Uses XRP currency code





NEO

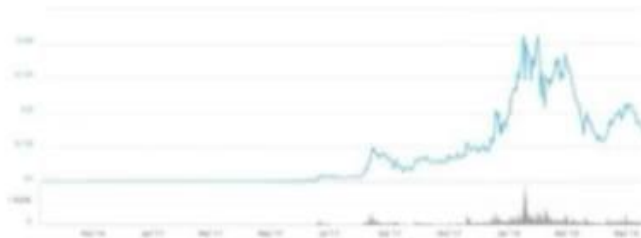


企业级区块链解决方案

**onchain**  
*Blockchain Solutions*

Released in 2014

Designed to build a scalable network  
of decentralized applications



Market cap: \$4.1B USD



- Rebranded from AntShares to NEO in June 2017
- Given green light by Chinese government in August 2017
- Distributed tokens to be used to vote on governance issues in March 2018



„Chinese Ethereum“





Litecoin





Market cap: \$7.5B USD

The background of the image features a light gray geometric pattern of interlocking diamonds. Four larger diamonds in the corners are colored: yellow in the top-left and bottom-right, and blue in the top-right and bottom-left. The word "Cardano" is centered within a large white diamond in the middle of the composition.

Cardano

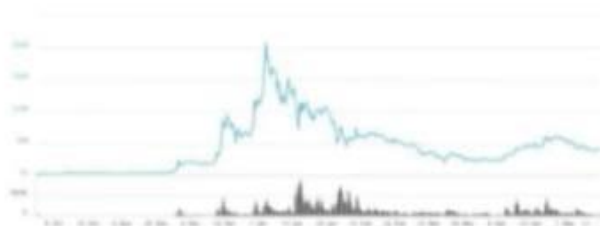
# Cardano



Released in 2017



Fully open source smart contract platform.



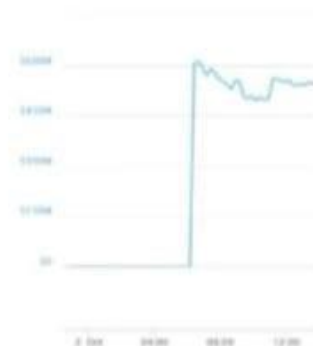
Market cap: \$6.9B USD



Proof-of-stake mining



Multi-layer architecture



- Launched in September 2017, instant \$600M market cap
- Wallet Daedalus released in April 2018





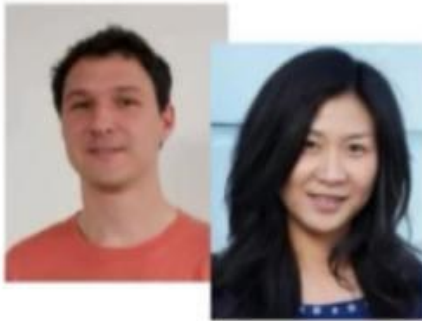
Stellar



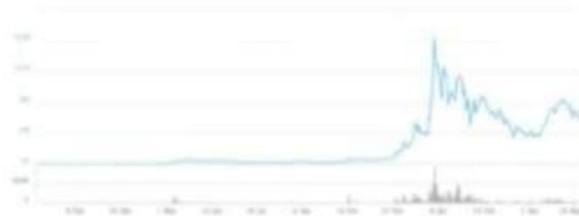
# Stellar



Released in 2014 by  
NPO Stellar.org



Open-source (hosted on GitHub) protocol  
for value exchange.



Market cap: \$5.8B USD



It allows multi-currency transactions

- NPOs in developing countries have been implementing it since February 2015
- Announced cooperation with IBM in May 2018, which could challenge Ripple



# Hyperledger



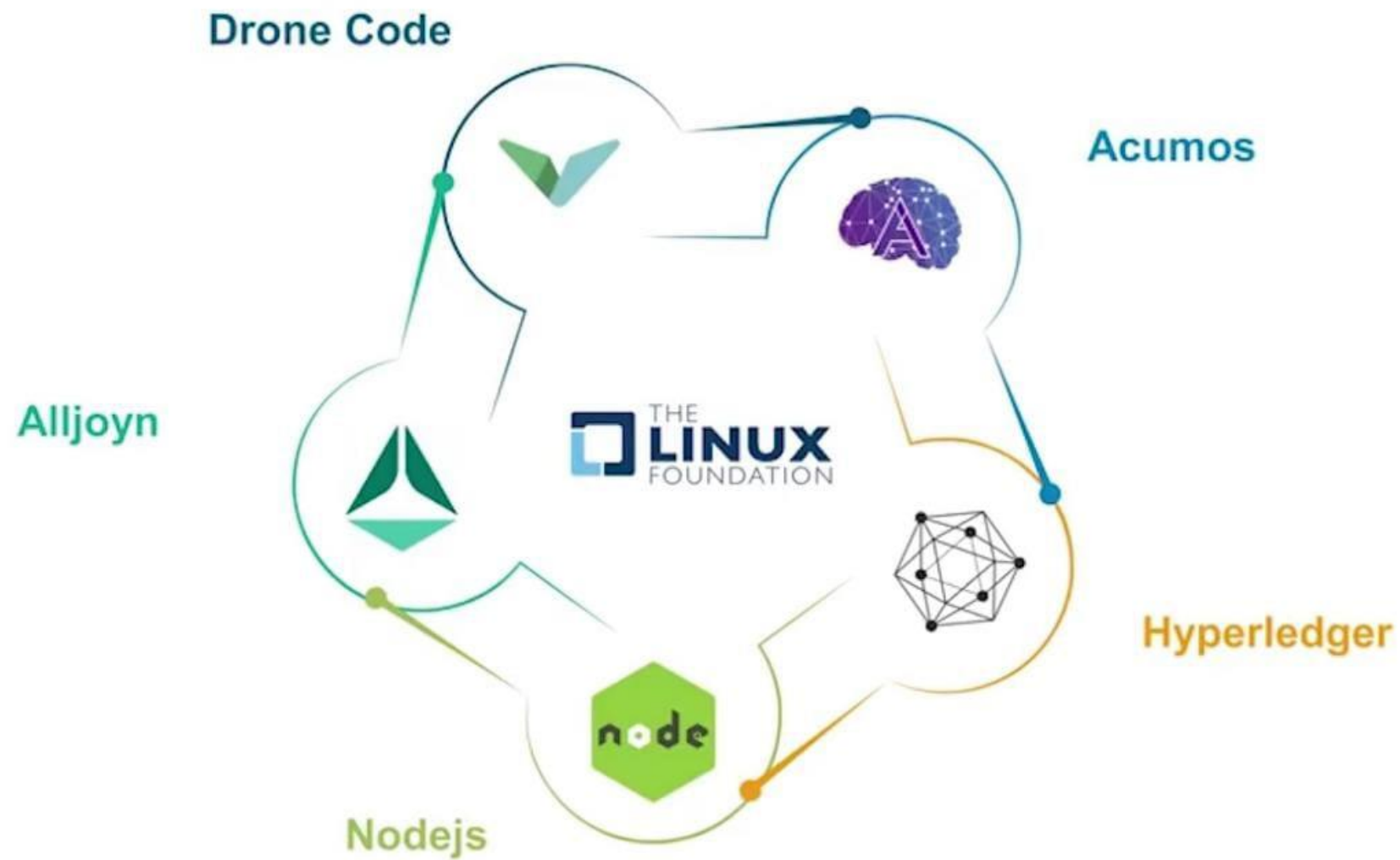


# Hyperledger

Project under  
the Linux  
foundation

Open-source  
development  
project

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“Hyperledger is an open sourced community of communities to benefit an ecosystem of Hyperledger based solution providers and users focused on blockchain related use cases that will work across a variety of industrial sectors.” –

Brian Behlendorf

(Executive Director, Hyperledger)





Why we need Hyperledger?

In simpler terms, Hyperledger can be thought of as a software which everyone can use to create one's own personalised blockchain service.





Parameters	Bitcoin	Ethereum	Hyperledger
Cryptocurrency	Bitcoin	Ether	None, but can be implemented when required
Network	Public	Public	Permissioned
Consensus	Proof of Work (SHA256)	Proof of Work (Ethash)	PBFT (practical byzantine fault tolerance)
Smart Contract	None	Yes (Solidity)	Yes (chaincode)
Language	C++	Golang, Python	Golang, Java





# Is Blockchain Really Secure?

cryptography, immutability, and decentralization

cryptographic security and  
immutability



tamper-proof account  
of transactions

# Acknowledgement and Source:

- <https://www.udemy.com/course/build-your-blockchain-az/>