

Ethereum

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Alternatives Division

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Agenda



Overview

- What is Ethereum

Analysis

- Thesis
- Catalyst
- Risks and Mitigations

Conclusion



Ethereum

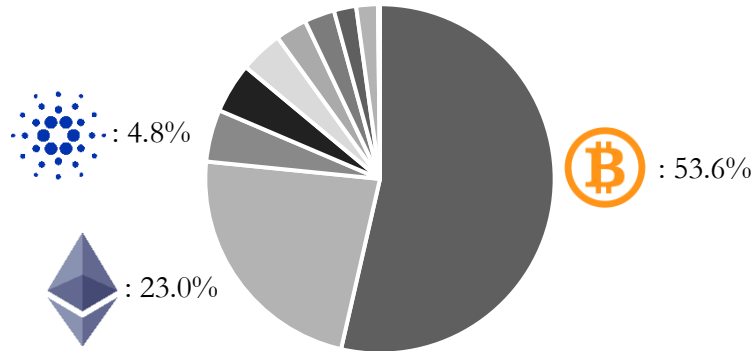
What is Ethereum?

- Ethereum is a blockchain platform that is a decentralized public ledger for verifying and recording transactions
 - Build smart contracts and dApps without the risks of downtime, fraud, or interference
 - Co-founded by Joe Lubin & Vitalik Beterin (2015)

Grayscale Ethereum Trust (OTCMKTS: ETHE)

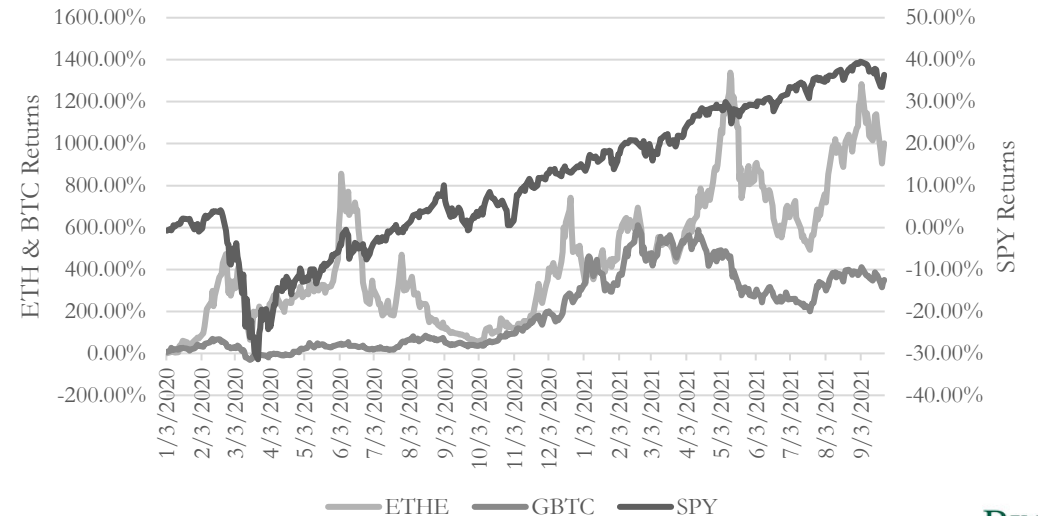
- Current Price: \$28.65
- AUM: \$9.1 bil
- 52-wk high: \$43.23
- 52-wk low: \$4.23
- ETH per share: 0.010109 ETH

Cryptocurrency Market Cap



- Bitcoin
- Ethereum
- Cardano
- Tether
- Binance Coin
- XRP
- Solana
- USD Coin
- Polkadot
- Dogecoin

ETH vs BTC vs S&P 500 Historical Prices





Understanding Ethereum

How does Ethereum work?

- Blockchain technology uses cryptography to keep the network secure and verify transactions
 - Computers solve complex mathematical equations that confirm transaction and add new blocks to the blockchain
- Gas – vary on amount of computational power

Ethereum vs Bitcoin

	Ethereum	Bitcoin
Concept	Platform for all kinds of applications	“Digital dollar”
Transaction	Send from Bob to Jill if the date is Sep. 6, 2021	Send from Bob to Jill
Release Date	July 2015	January 2009

Notable Uses



NFT

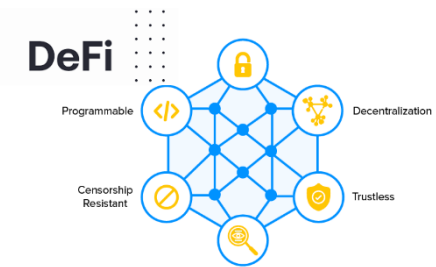


Bancor

Creation of Crypto



Wallets

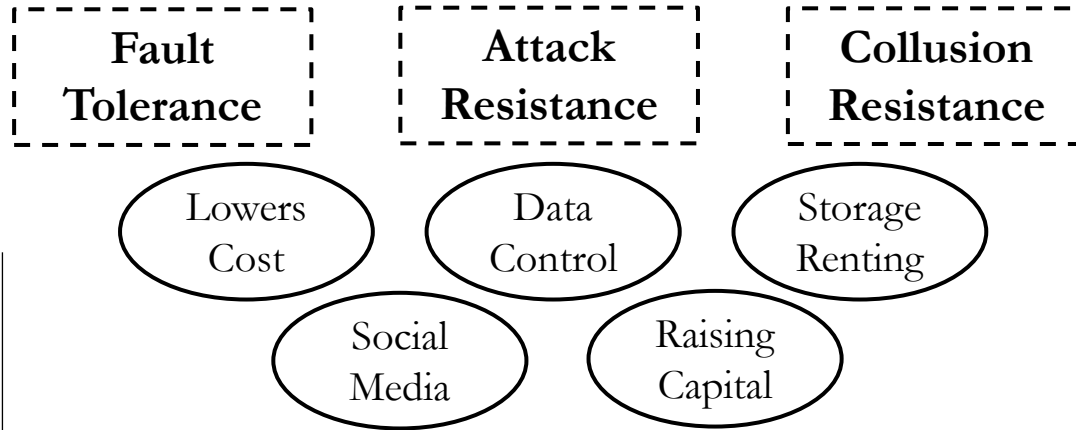


Decentralized Finance



ETH Catalysts

Creation of a Decentralized World



Non-Fungible Token (NFT) Revolution

- Tokenized to create a digital certificate of ownership
 - Music, drawings, videos
 - \$1 bil in monthly traded volume
- Tax benefits: Intangible capital asset
- Transition into bigger assets
 - Ex: Real apartments



Everydays: The First 5000 Days, Beeple
(\$69 mil)

Ethereum 2.0

- Ethereum 1.0 has made it difficult for the network to scale due to high gas fees and slow transaction times
- Ethereum 2.0 is more scalable, secure, and sustainable
 - Proof of work -> Proof of stake
 - 30 transaction/sec vs. 100,000 transaction/sec

China Banning Cryptocurrency

- China banned all crypto trading and mining
 - Ethereum fell 9% after the news released
- Chinese government has struggled to stop internet users from evading its control
 - Banned crypto transaction in 2017
 - Miners will go to different countries
- Companies will still adopt crypto products and services



Risks and Mitigations

Risks	Mitigations
Mining Ethereum is very energy intensive	Ethereum 2.0 is 99.95% more environmentally friendly and it will be more environmentally friendly than Bitcoin
There are security threats with people trying to hack Ethereum	Hackers tried to steal ETH in 2016 and the community responded by doing a hard fork to make the crypto more secure
Regulation for cryptocurrency will negatively affect Ethereum	More legitimate traders will be prioritized and usually increased regulatory interests follows increased investor interests*



Conclusion



Questions?

Binghamton University

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Appendix A: Decentralized Finance

Alternatives Division Pitch 09/27/21

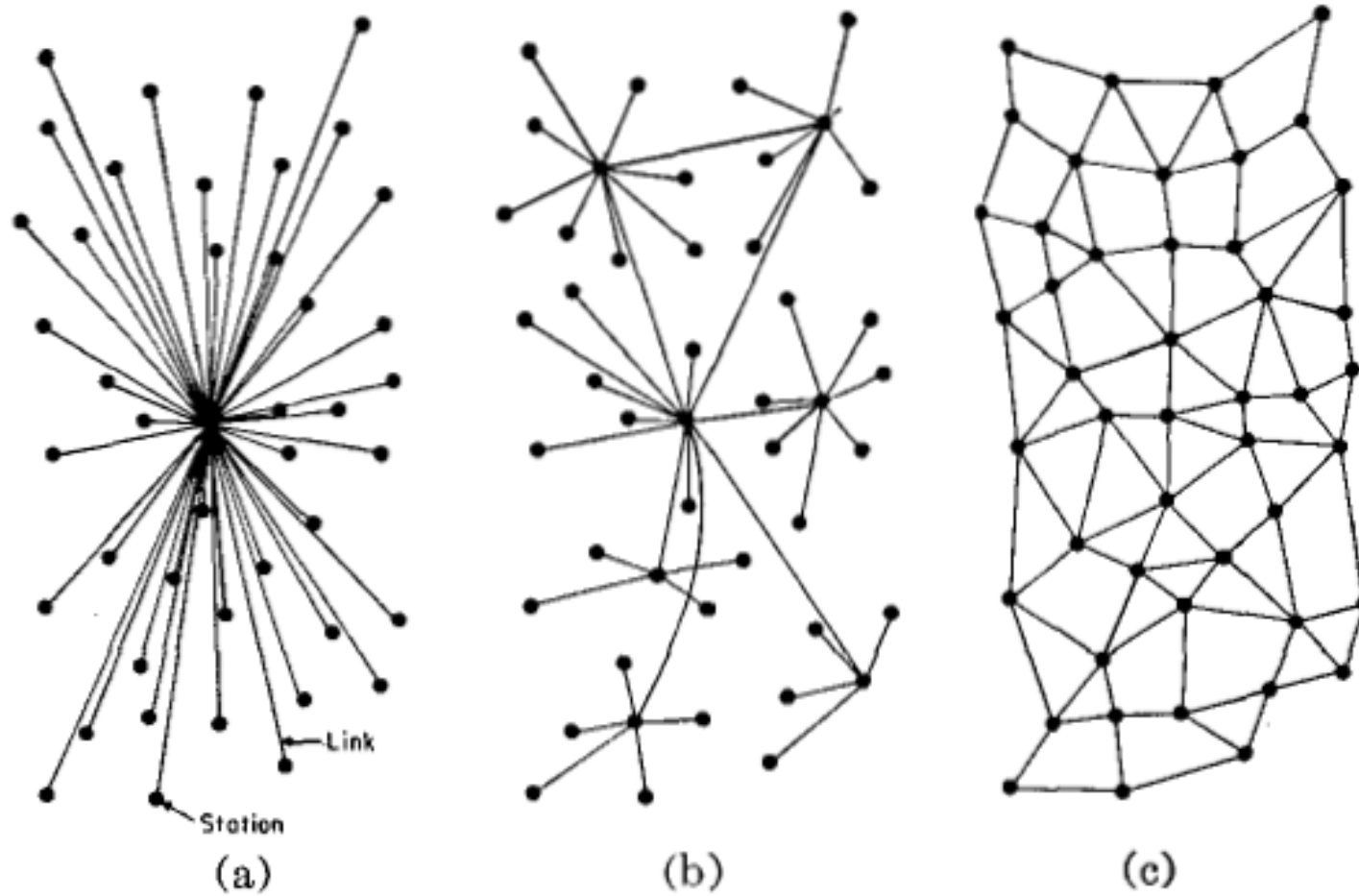


Fig. 1—(a) Centralized. (b) Decentralized. (c) Distributed networks.



Appendix B: Applications of Ethereum

Lending and borrowing



Aave

Lend your tokens to earn interest and withdraw any time.

Go



Compound

Lend your tokens to earn interest and withdraw any time.

Go

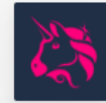


Oasis

Trade, borrow, and save with Dai, an Ethereum stablecoin.

Go

Token swaps



Uniswap

Swap tokens simply or provide tokens for % rewards.

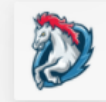
Go



Matcha

Searches multiple exchanges to help find you the best prices.

Go



1inch

Helps you avoid high price slippage by aggregating best prices.

Go

Payments



Tornado cash

Send anonymous transactions on Ethereum.

Go



Sablier

Stream money in real-time.

Go

Crowdfunding



Gitcoin Grants

Crowdfunding for Ethereum community projects with amplified contributions

Go



Appendix B: Applications of Ethereum

Trading and prediction markets



Polymarket

Bet on outcomes. Trade on information markets.

Go



Augur

Bet on outcomes of sports, economics, and more world events.

Go



Loopring

Peer-to-peer trading platform built for speed.

Go



dYdX

Open short or leveraged positions with leverage up to 10x. Lending and borrowing available too.

Go

Investments



Token Sets

Crypto investment strategies that automatically rebalance.

Go



PoolTogether

A lottery you can't lose. Prizes every week.

Go



Index Coop

A crypto index fund that gives your portfolio exposure to top DeFi tokens.

Go

Insurance



Nexus Mutual

Coverage without the insurance company. Get protected against smart contract bugs and hacks.

Go



Etherisc

A decentralized insurance template anyone can use to create their own insurance coverage.

Go

Portfolios



Zapper

Track your portfolio and use a range of DeFi products from one interface.

Go



Zerion

Manage your portfolio and simply evaluate every single DeFi asset on the market.

Go



Rotki

Open source portfolio tracking, analytics, accounting and tax reporting tool that respects your privacy.

Go