



FPT UNIVERSITY



ETHVIETNAM



# BLOCKCHAIN 101

Supported by





ETHVIETNAM is the blockchain event series with the participation of global large-scale iconic blockchain and cryptocurrency entities. The event aims to empower participants to shape this new world, while cementing the Vietnam community as a thriving hub of Ethereum and blockchain innovation.



Suci is an academy platform to help builders from 0 to 1 on Web3 journey. Students, developers, builders, founders can learn, share and build together.

Suci /suchi/ means pure in Pali language. We believe that the good will and purity is the good start of #BUIDL great projects which can make the world better.

# MENTOR



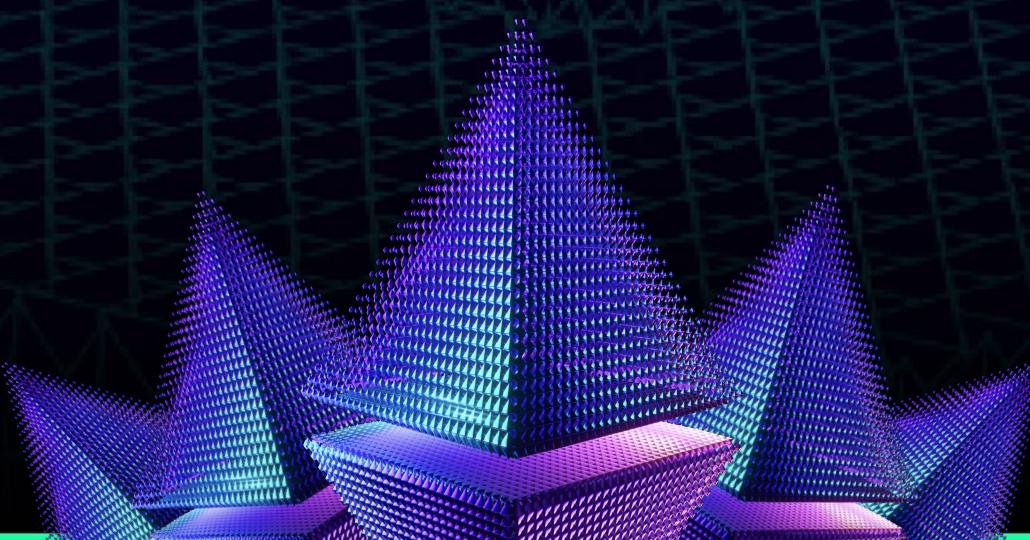
**SUE NGUYEN**

Developer Relation - SUCI Blockchain Hub

# ABOUT THE WORKSHOP

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This workshop is designed for university students who are interested in learning about blockchain technology or to start with blockchain development. This workshop helps to build a mental model of how each moving piece works and to get an understanding of the design principles which will govern your development experience.



# SYLLABUS

- 1 What is Blockchain Technology?
- 2 Accounts - Crypto Wallets & Smart contract - Cryptocurrencies
- 3 Blockchains Pt1 - EVMs
- 4 Blockchains Pt2 - Others & L2s
- 5 Smart Contracts - Token standards, IDEs, Faucets, Decentralized Storage
- 6 Consensus Algorithm
- 7 Programming Process & Tech Stack
- 8 Defi, NFTs, and Gaming in Web3.
- 9 Code Along: Build an NFT marketplace with Hardhat, IPFS, Typescript
- 10 Cont. Coding

**Have you ever thought of Blockchain in  
this way?**

**1. Blockchain is Bitcoin and Bitcoin is Blockchain**

**2: Blockchain is same as Cryptocurrencies**

**Blockchain is a Cloud-based Database**

**Tokens are the same as Coins**

**YOU ARE BUSTED !!!!!!**

# So what exactly is Blockchain Technology?



# LESSON 1: Introduction to Blockchain

01

What is Blockchain Technology?

02

How does it work?

03

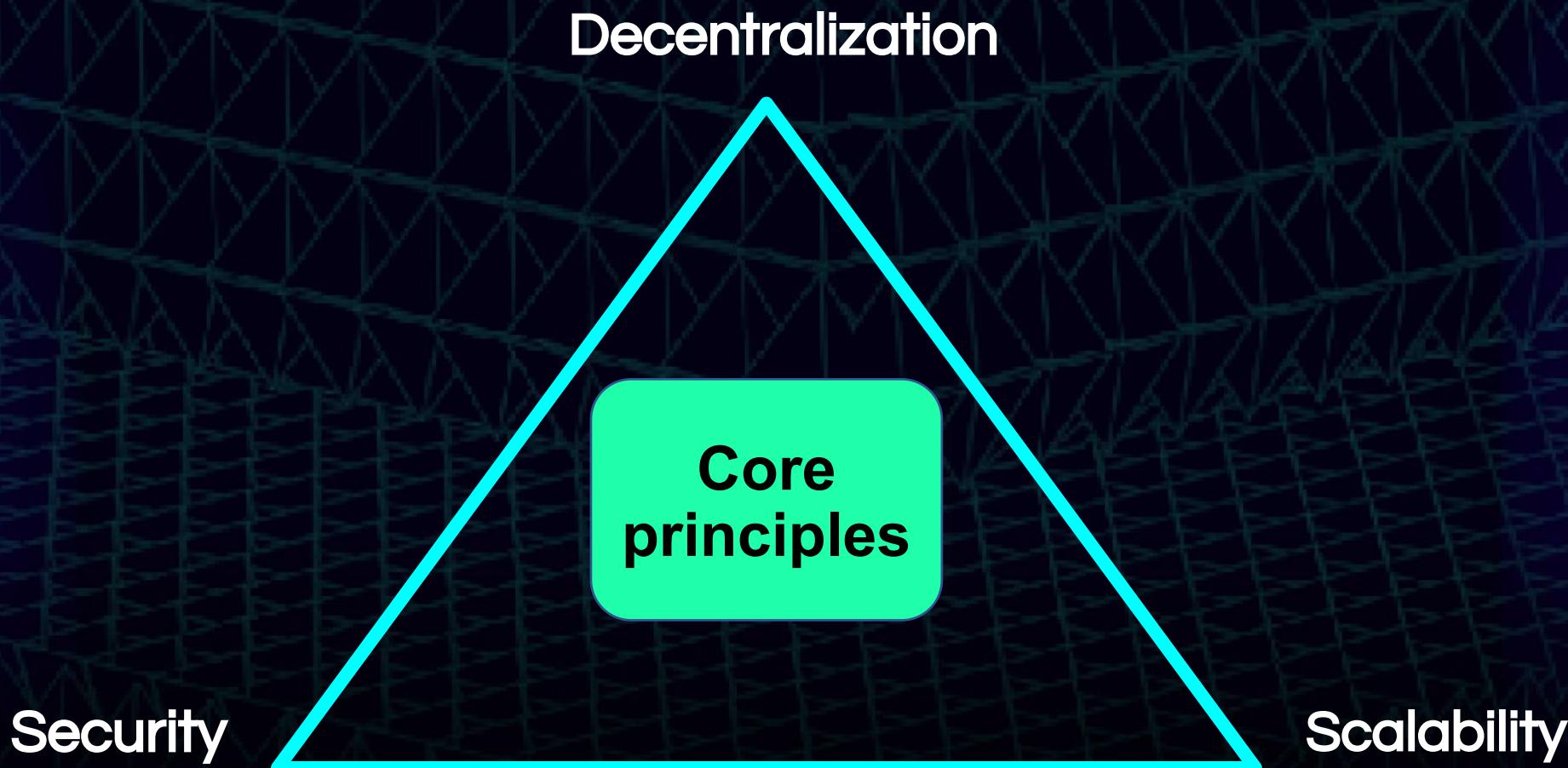
What are the benefits of using blockchain

# What is Blockchain Technology?

## Definition

- A blockchain is a database of transactions that is updated and shared across many computers in a network.
- Every time a new set of transactions is added, it's called a "block" – hence the name blockchain.
- Most blockchains are public, and you can only add data, not remove. If someone wanted to alter any of the majority of computers on the network or cheat the system, they'd need to do so on the majority of computers on the network. That is a lot! This makes established blockchains highly secure.

# What is Blockchain Technology?



# How does Blockchain work?

## Key Terminologies

*- Brief Explanation -*

1. Blocks
2. Transactions
3. Nodes
4. Hash



## Blockchain

*— Simply explained —*

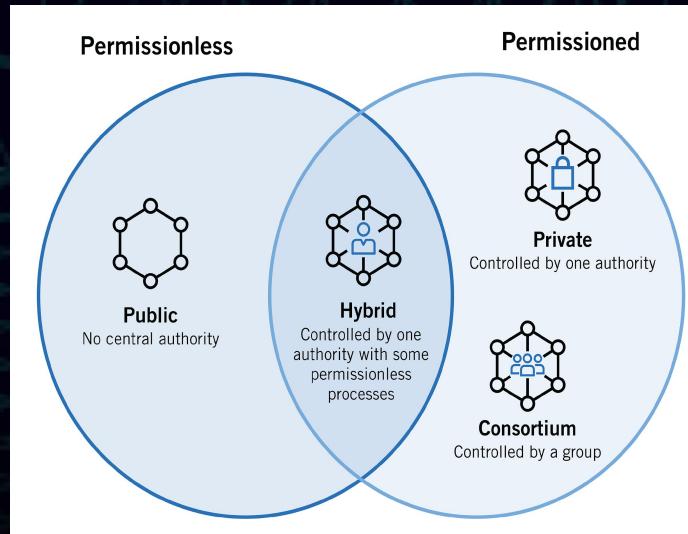
# The benefits of using blockchain? Why decentralization matters?

## Types of Blockchains

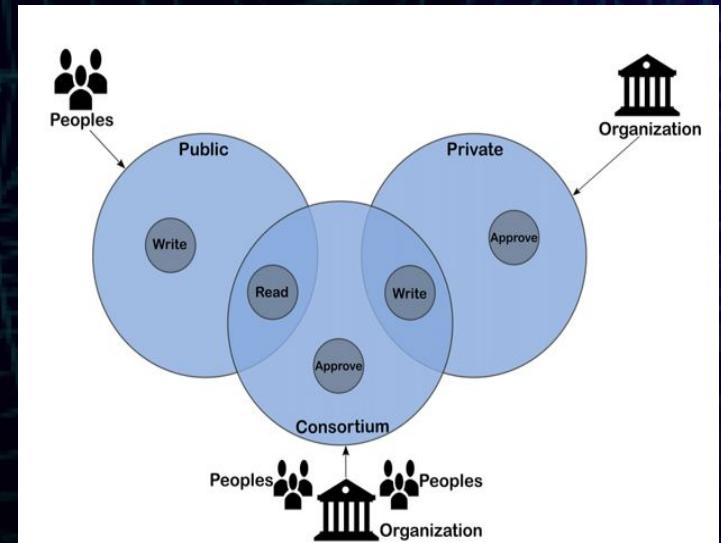
Public



Private



Consortium Blockchains



*Different use cases and considerations for each type*

# SUMMARY



01

Blockchain Technology

02

Mechanism

03

Benefits of using blockchain

# Further Readings

[Blockchain 101  
- A Visual Demo -](#)

[But How Does Bitcoin Actually  
Works?](#)

[The Blockchain Trilema](#)

[Bitcoin whitepaper](#)

[Consensus Algorithm - Thuật Toán  
Đồng Thuân Blockchain Là Gì?](#)

[Ethereum Learn Hub](#)



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## FPT WORKSHOP W1: BLOCKCHAIN 101

WEDNESDAY, 24TH MAY, 2023

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