

#### **Objectives**=

- Have a clear understanding on how Blockchain technology works
  - → Evolution from Traditional Centralized Decentralized Structures.
- Explore blockchain applications in various fields
  - → Finance
  - → Energy, Climate, Supply Chain, Identity...
- Imagine real **DECENTRALIZED FUTURES**

# Session 1: Introduction to Blockchains 1. Required Viewing and Reading 2. History of digital cash 3. How does Blockchain work? 4. Public or private, permissioned or permissionless? 5. What type of token? 6. Custodial and non custodial wallet?

### Session 2: Bitcoin, Ethereum & beyond

- 1. Bitcoin: What are the Environmental Concerns of Bitcoin?

  Collective discussion
- 2. What is Ethereum and who's behind? What is Proof-of-Stake?

  A Smart Contract? EVM? What are gas fees? What is an ERC-20 token? What is a NFT? What are decentralized applications?

  What is a DAO? What is an Oracle?
- 3. What is the blockchain trilemma?
- 4. What is a layer 1, a layer 2? A native and non-native token?

#### Session 3: Decentralized Finance

- 1. What is Decentralized Finance (DeFi)?
- 2. What is the difference between Traditional Finance (TradFi), Centralized Finance (CeFi) and Decentralized Finance (DeFi)?
- 3. What is a Decentralized Exchange (DEX) and a Centralized Exchange (CEX)?
- 4. What is a stablecoin? A centralized or decentralized one?
- 5. What does tokenization mean and what is Real World Assets (RWA)?

## Session 4: Energy, Climate and Supply Chains

- 1. What does tokenomics mean? Bitcoin, Ethereum, Lido, Filecoin comparison
- 2. Working group on Decentralization & (A) ... Energy, (B) ... Climate & environment, (C) ... Supply Chain

## Session 5: Decentralization & Identity

- 1. Energy, Climate and Supply Chain use cases
  Discussion
- 2. Decentralized identity and verifiable credential in the surveillance capitalism. What is it? How does it work?
- 3. Final Discussion