**What is Blockchain and Algorand?**

**Blockchain**
Tamper-resistant system of records, duplicated and distributed over the network of computer systems.

**Algorand**
Scalable – **6000 TPS**, Billions of users

**Fast** < 3.9s | **Instant Finality** | **EVM Compatible**

Pure Proof of Stake (PPoS) | minimal HW requirements
Low Fees (less than 0.0001 Euro) | Carbon Neutral
First Post-Quantum Secure Blockchain

**Founder**
Silvio Micali
Professor MIT, Turing Award holder
& Strong team!
WHAT IS BLOCKCHAIN AND ALGORAND?

DIGITAL IDENTITY AND ITS CHALLENGES

**Personal ID**
- Single signature?
- Combination of multiple sources?
- Is it really me?

**Institution/Company**
- Misuse?
- Transparency?
- Whose data do I have?

**Application/Device**
- Certificate of origin/version
- Bill of materials – Manufacturing traceability
- Are the correct parts used?
**Possible Scenarios**

- **Data analytics**
  - Evaluate available on chain data
  - Identify identity behavior

- **Research piece**
  - Design new protocol for electronic credentials
  - Look into cryptographic primitives
  - Analyse current solutions and their applicability to Algorand

- **Infrastructure/Tooling**
  - Build your own identity management system
  - Bridge functionality to other systems
Setup your local environment
Communicate with the blockchain
Use Docker containers
We provide infrastructure for the data and more!

Choose you favorite language SDK
Java, JavaScript, Python, Go
Community SDKs
C#, Rust, Dart, PHP, Swift

Write smart contracts
TEAL, PyTEAL, Reach
EVM Compatibility ➔ Solidity

Support on the booth/seminar room and Online by Algorand Dev Rel

DEV ENVIRONMENT
WHAT IS BLOCKCHAIN AND ALGORAND?

AFTER THE HACKATHON

Keep BUIDL!
- Projects
- Grants
- Bootcamps

Research!
Interested to find out more about the blockchain stack?
Cryptography, P2P networks, smart contract languages, consensus, game theory…

Found a startup!
Incubator connections
Pitch & Ideas
WHAT IS BLOCKCHAIN AND ALGORAND?

KEY TAKEAWAYS

Learn something new

Build a cool team and find future co-founders

Create a new solution that can make our lives better
HAPPY HACKING!
ALGORAND FOUNDATION HACKATUM CHALLENGE