Career Paths in Blockchain

Stanly Johnson

Today's Discussion

What is Blockchain?
Career Paths
How to get started?
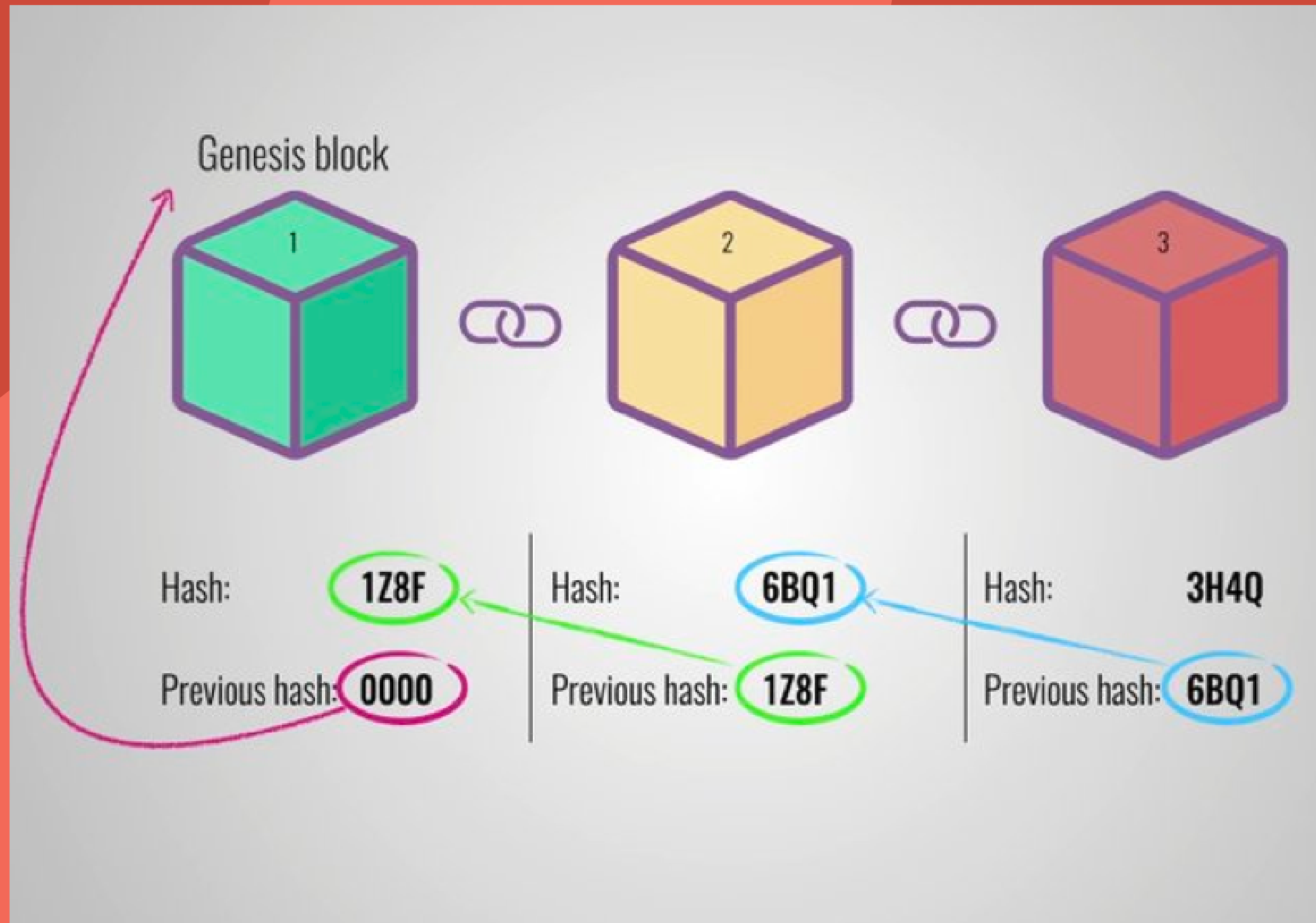
What is Blockchain?

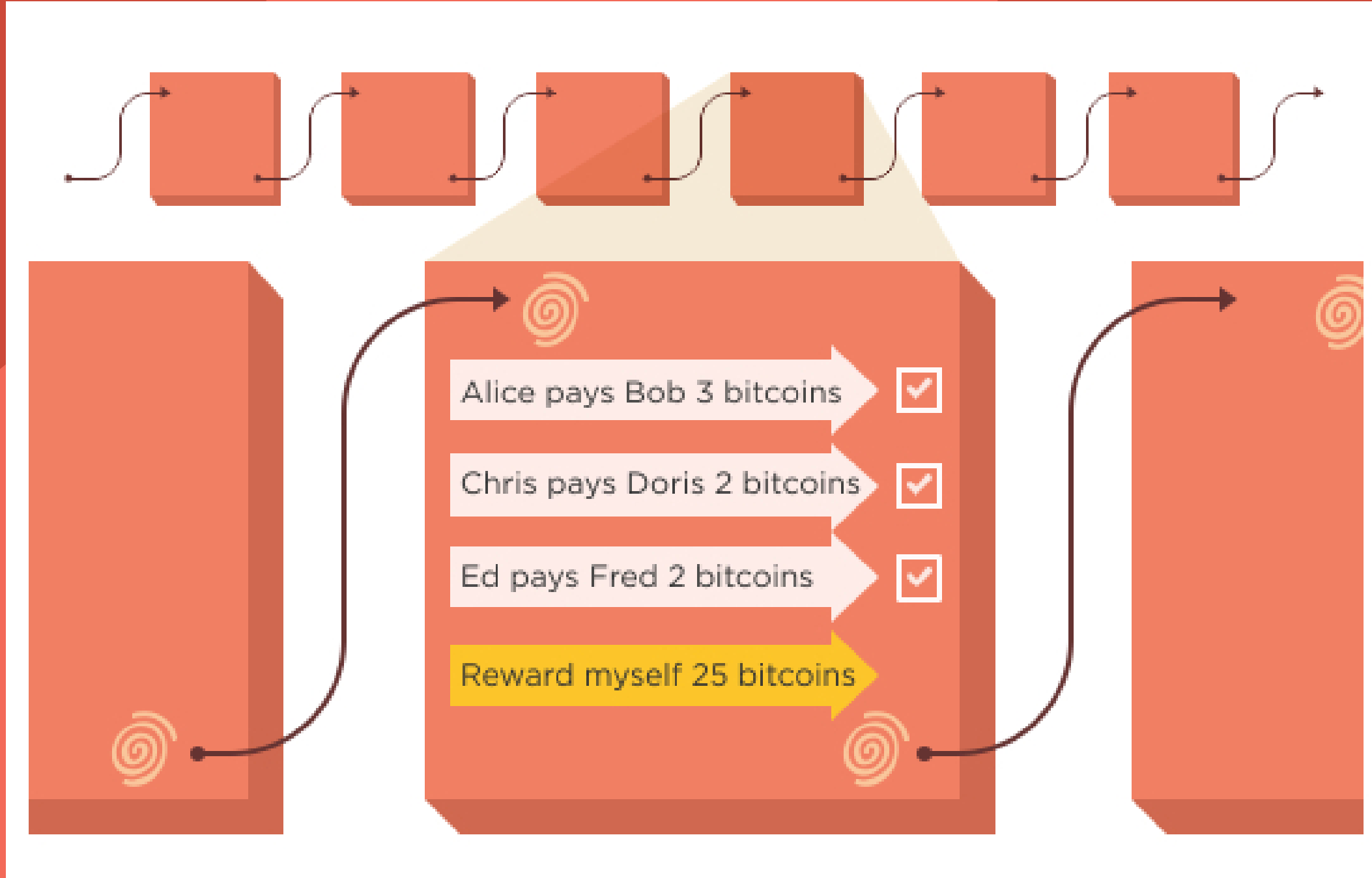# Bitcoin: A Peer-to-Peer Electronic Cash System

Satoshi Nakamoto
satoshin@gmx.com
www.bitcoin.org

Abstract. A purely peer-to-peer version of electronic cash would allow online payments to be sent directly from one party to another without going through a financial institution. Digital signatures provide part of the solution, but the main benefits are lost if a trusted third party is still required to prevent double-spending. We propose a solution to the double-spending problem using a peer-to-peer network. The network timestamps transactions by hashing them into an ongoing chain of hash-based proof-of-work, forming a record that cannot be changed without redoing the proof-of-work. The longest chain not only serves as proof of the sequence of events witnessed, but proof that it came from the largest pool of CPU power. As

Alice pays Bob 3 bitcoins

Chris pays Doris 2 bitcoins

Ed pays Fred 2 bitcoins

Reward myself 25 bitcoins

The Ethos

DECENTRALISED

IMMUTABLE

TRANSPARENT

The Current Landscape

Blockchain UseCases
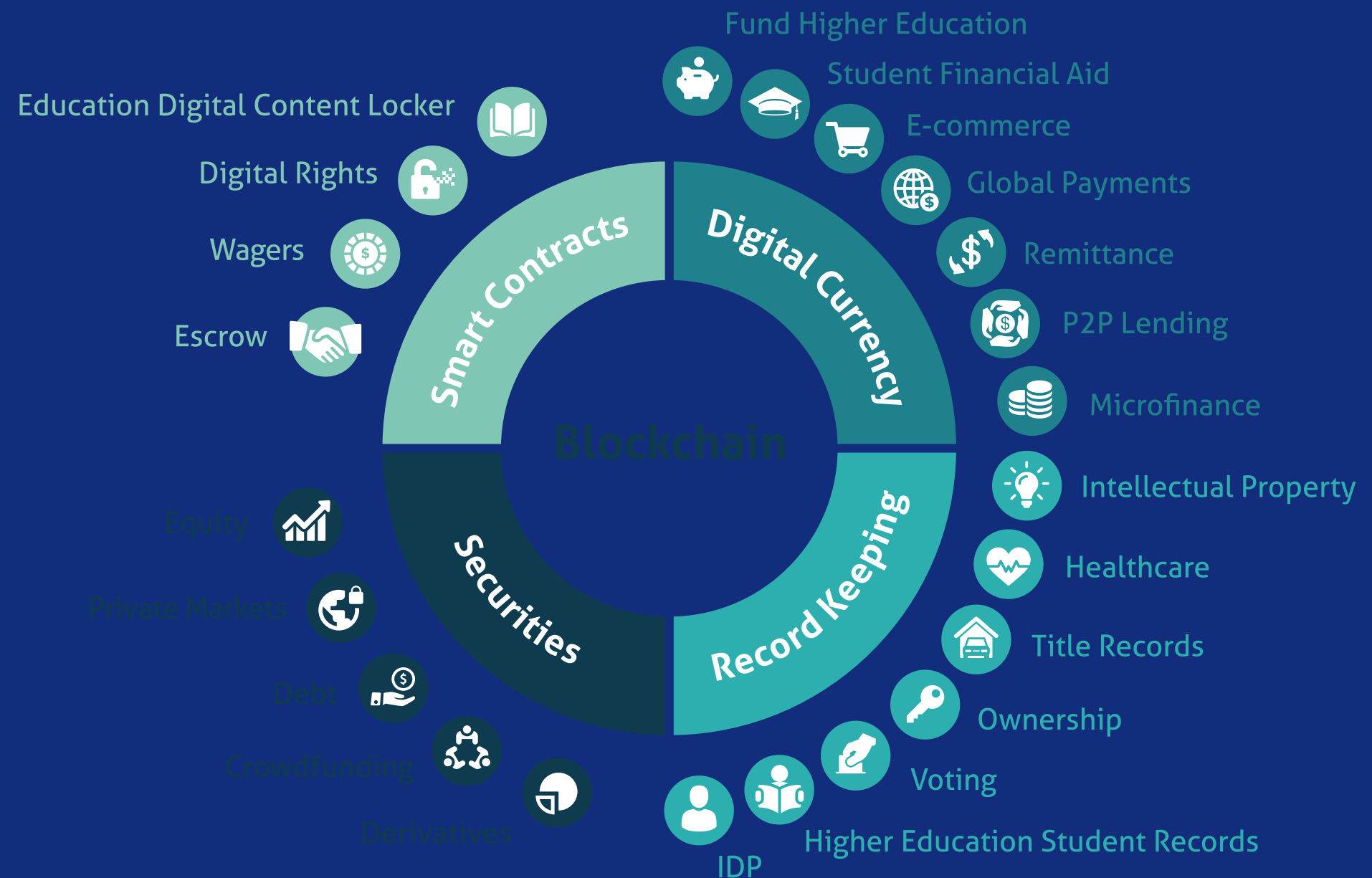
CHALLENGES AND OPPORTUNITIES

Blockchain

Smart Contracts
- Education Digital Content Locker
- Digital Rights
- Wagers
- Escrow

Digital Currency
- Fund Higher Education
- Student Financial Aid
- E-commerce
- Global Payments
- Remittance
- P2P Lending
- Microfinance

Record Keeping
- Intellectual Property
- Healthcare
- Title Records
- Ownership
- Voting
- Higher Education Student Records
- IDP

Securities
- Equity
- Private Markets
- Debt
- Crowdfunding
- Derivatives

Dubai Sets Its Sights On Becoming The World's First Blockchain-Powered Government

Suparna Dutt D'Cunha Contributor
Asia
I cover startups & enterprises in India and the UAE.
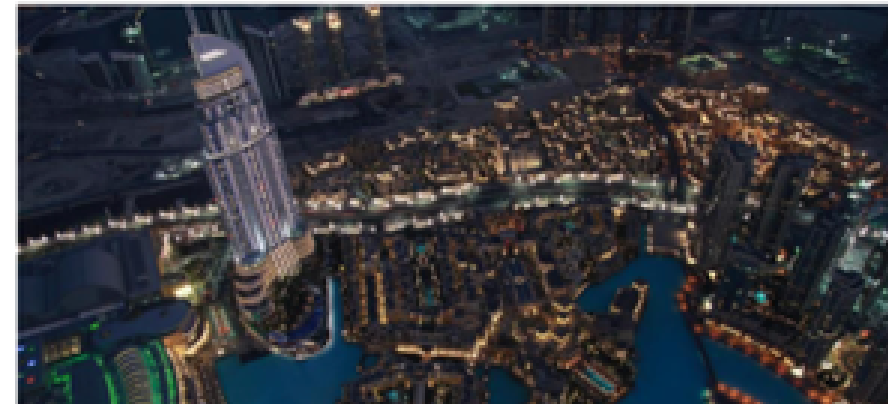
JUST IN   ASIA

Most of China's biggest banks are already using blockchains

by Celia Wan

April 22, 2020, 12:32PM EDT · 1 min read

AirAsia launches a blockchain-based air cargo network

7 hours ago   Last Modified date - April 24, 2020

Malaysian airline AirAsia has launched a blockchain-based air cargo network, that aims to make it easy and convenient to book for cargo space on its airlines.

mer pays for groceries at a supermarket in the Zaatari refugee camp.

Connectivity

Inside the Jordan refugee camp that runs on blockchain

Syrian refugees could regain legal identities that were lost when they fled their homes.

by Russ Juskalian   Apr 12, 2018

A few times a month, Bassam pushes a shopping cart through the aisles of a

tory from Markets →

Apple Hints at Behind-the-Scenes Blockchain Work in New SEC Filing

eb 15, 2019 at 16:15 UTC · Updated Feb 15, 2019 at 16:37 UTC

Apple has submitted what might seem like an arcane filing with the
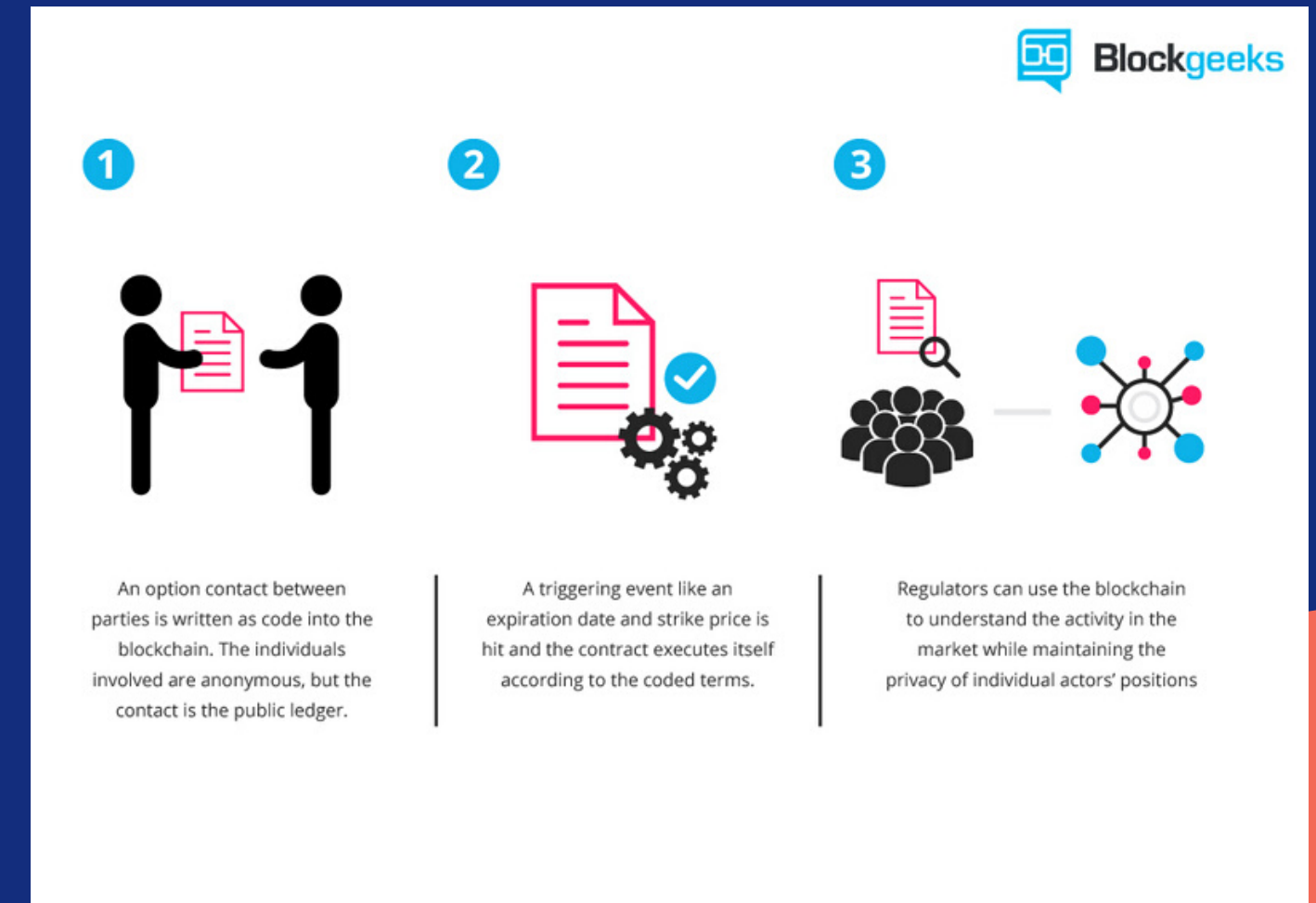
The Evolution

BLOCKCHAIN 1.0

Bitcoin 2009

BLOCKCHAIN 2.0

Programmable Blockchain

BLOCKCHAIN 3.0

Scalable DAG

Career Paths

Do not choose a career because its the hottest in town!

Linked in Learning

The Skills Companies Need Most in 2020

Top 5 Soft Skills
1. Creativity
2. Persuasion
3. Collaboration
4. Adaptability

Top 10 Hard Skills
1. Blockchain
2. Cloud computing
3. Analytical reasoning
4. Artificial intelligence

Career Paths

Blockchain Developer

Smart Contract Developer

Blockchain Architect

DApp Developer

Protocol Engineer

Blockchain Researcher

How to get started?

WHAT YOU NEED TO KNOW?

Networking
Cryptography
Distributed Systems

First Steps

Learn about networking and distributed systems

Basic understanding of cryptography

Learn a programming language

Programming Languages

Golang   https://gobyexample.com
Rust   https://www.rust-lang.org/learn
Python   https://www.learnpython.org
NodeJs (Javascript)   https://nodejs.org/en/docs/guides/getting-started-
                                    guide/

Solidity (Ethereum Smart   https://solidity.readthedocs.io/en/v0.5.3/solidity-by-
Contracts)   example.html
Java
C/C++

Blockchain Reading

CodeAcademy - https://www.codecademy.com/learn/introduction-to-blockchain
Ethereum - https://ethereum.org/learn/

Satoshi's White Paper - https://bitcoin.org/bitcoin.pdf
Blockchain Research Papers -https://github.com/decrypto-org/blockchain-papers

Dapp University - https://www.youtube.com/channel/UCY0xL8V6NzzFcwzHCgB8orQ

Open Source Projects

Ethereum - https://github.com/ethereum

Hyperledger - https://hyperledger-fabric.readthedocs.io/en/release-2.0/

Cosmos - https://github.com/cosmos/cosmos

Corda - https://github.com/corda/corda
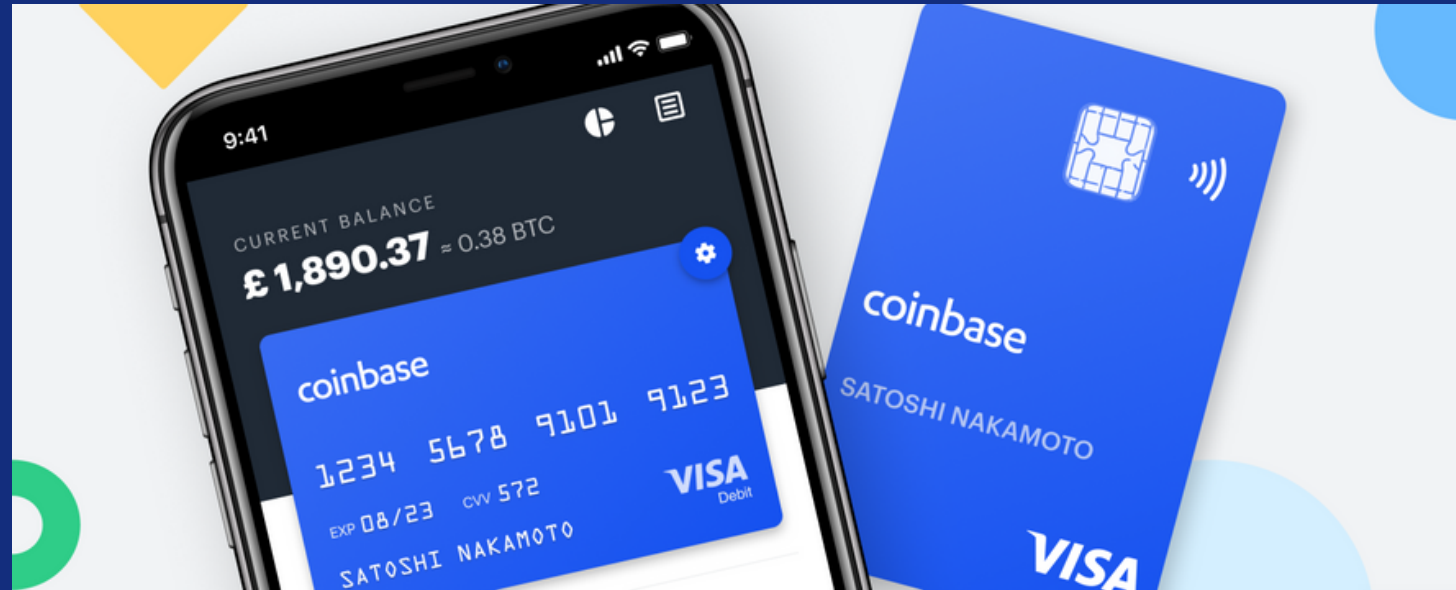
GREAT COMPANIES IN THIS SPACE

Leading blockchain/crypto companies

Questions?

Get this ppt https://cutt.ly/sjcet-bc

Get in touch at stanlyjohnson@outlook.com