



**Blockchain:  
The Next Frontier in  
Project Management**

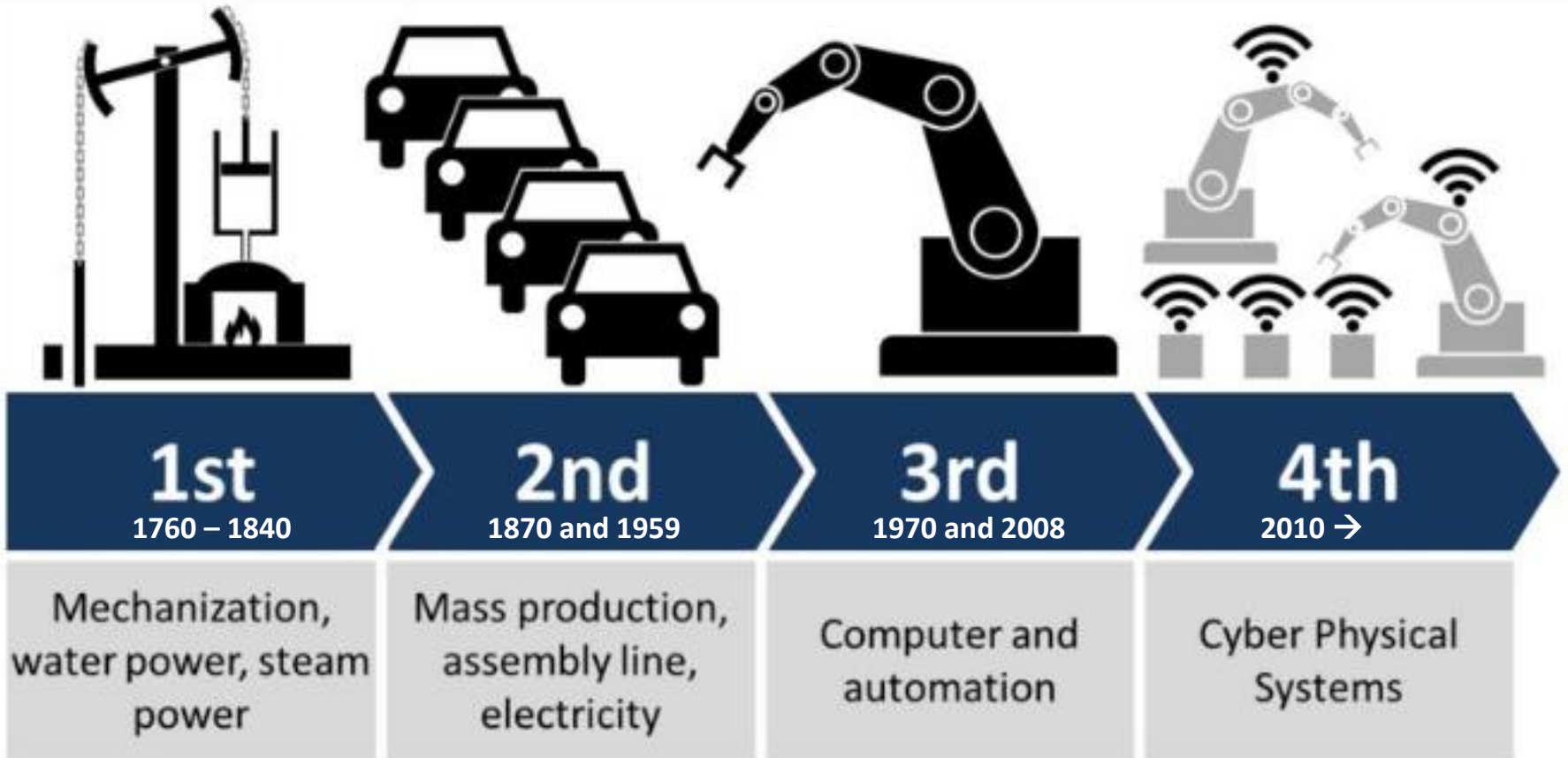
## What you will learn:

- ❖ What blockchain is...and what it is NOT?
- ❖ Why there is excitement around blockchain applications?
- ❖ What is a blockchain project?
- ❖ What are the current challenges with blockchain technology?
- ❖ What opportunities are available for Project Manager?



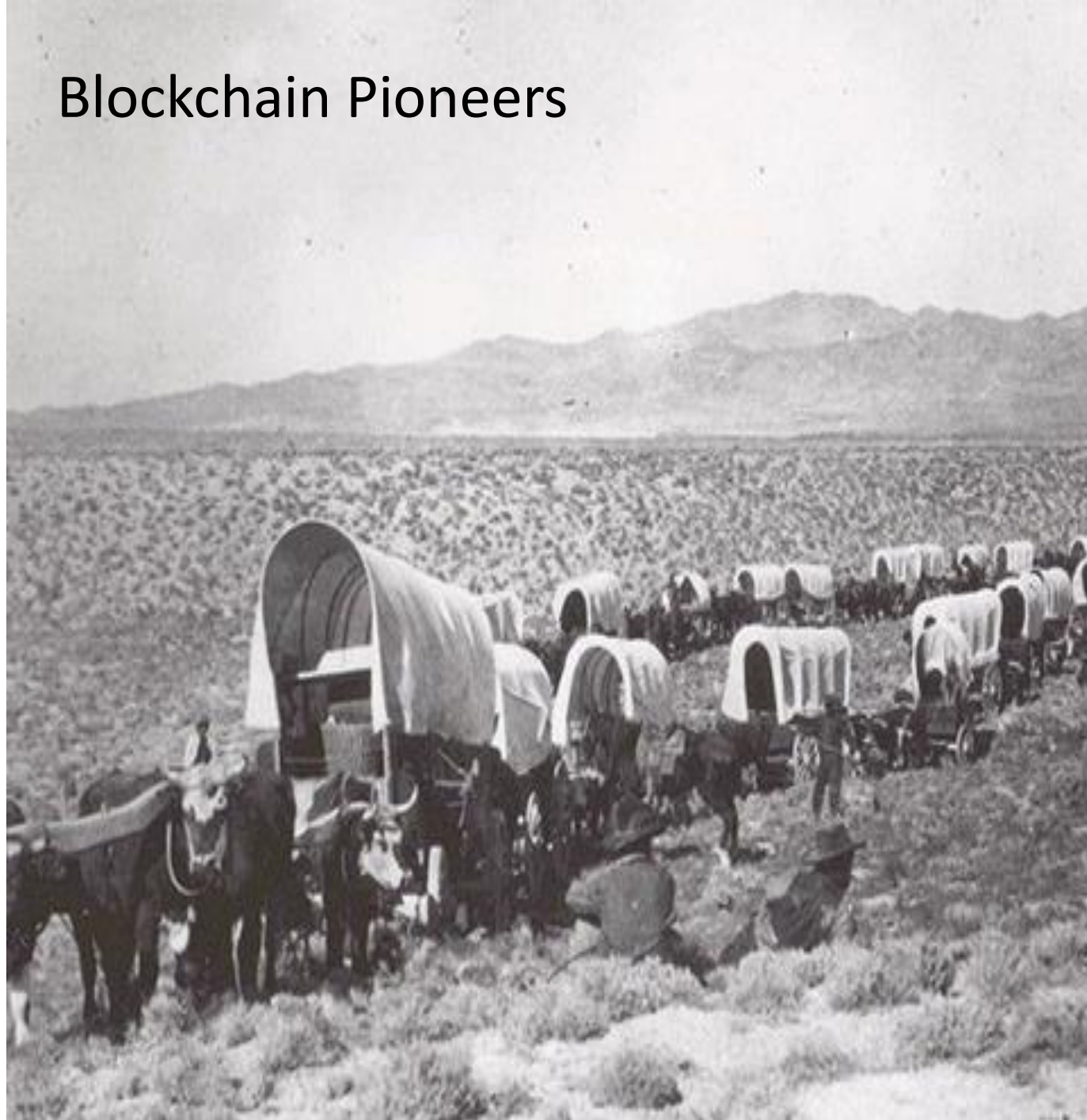


← We are here



The 4 Industrial Revolutions (by Christoph Roser at AllAboutLean.com)

# Blockchain Pioneers

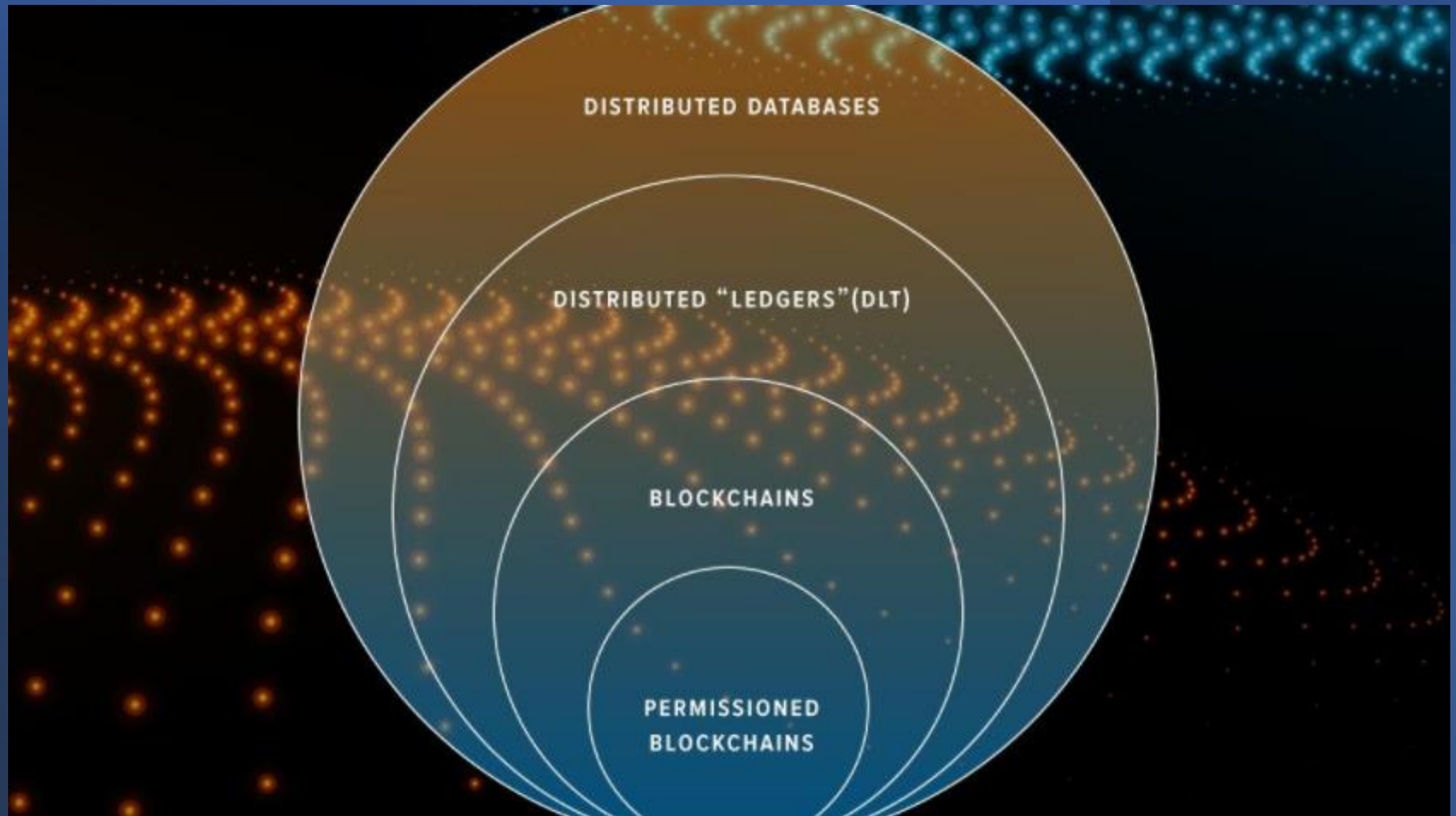


- Have a solid background in the agile methodology.
- Interest and acumen to take a very, very deep dive into learning all about blockchain technology.
- High tolerance to risk.

The background of the slide is a dark teal color with a semi-circular cutout on the right side. Inside the cutout, there is a complex financial data visualization. It features several overlapping line graphs in shades of blue and orange, a candlestick chart with blue and white bars, and various numerical values like '92.97', '1.38', and '1.33' scattered throughout. The overall aesthetic is high-tech and data-driven.

Quick definition:

**Blockchain technology** is a giant global spreadsheet of transaction entries





# The Properties of Distributed Ledger Technology (DLT)

## Programmable

A blockchain is programmable (i.e. Smart Contracts)

## Distributed

All network participants have a copy of the ledger for complete transparency

## Secure

All records are individually encrypted

## Immutable

Any validated records are irreversible and cannot be changed

## Anonymous

The identity of participants is either anonymous or pseudonymous

## Unanimous

All network participants agree to the validity of each of the records

## Time-stamped

A transaction timestamp is recorded on a block



# Textbook Definition: BLOCKCHAIN

## What is blockchain?

- blockchain is a shared, distributed digital ledger that is replicated among a network
  - ledger = list of entries to record transaction between parties.

## What is a blockchain ledger?

- distributed:
- immutable
- transparency
- efficiency
- traceability
- security



### Blockchain Senior Solution Architect

Keo World  
Miami, FL (On-site)

Top applicant

Promoted • 20 applicants • Easy Apply



### Senior Frontend Engineer, Blockchain

AktaryTech  
United States (Remote)

401(k) benefit

Actively recruiting

Promoted



### Senior Product Manager

Gate.io  
United States (Remote)

Actively recruiting

1 day ago • Easy Apply



### Technical Project Manager

Pollen Mobile  
San Francisco Bay Area (On-site)  
Medical, Vision, Dental, 401(k)

## Technical Project/Program Manager:

- At least 10+ year experience in Project and Program Management
- Have managed multiple interfacing teams across multiple projects
- Ability to do code reviews with developers
- Can share product discussion with any kind of stakeholder business or technology
- Excellent Verbal and written communication
- Blockchain
- Shell Scripting
- Agile model
- Jira Admin skills

## Metaverse Technology Innovation Strategy Associate Director

Accenture • Philadelphia, PA 1 week ago

## We are DoinGud

NFTs empowering meaningful creation

We're hiring →



### Business Developer

Elk Finance

Remote · Sales · Full-Time · \$45K – \$52K

Blockchain Business Development Cross-Chain DeFi Non-Tech Partnerships



### Head of Business Development & Partnerships

Mnemonic

Remote - North America · Sales · Full-Time

API Business Development Data Infrastructure NFT Non-Tech Operations Partnerships Web3



### Marketing Manager

Stackup

Remote · Marketing · Full-Time · \$80K – \$120K



### Marketing Manager

Lisk

Berlin, Remote · Marketing · Contract, Freelance, Full-Time

Content Marketing Marketing Manager Non-Tech Project Management Social Media Marketing



### HR Generalist

HotDAO

London, Remote - UK · Operations · Full-Time · £40K – £50K

HR Non-Tech People Operations



### Community Manager - Ambire Wallet

Ambire

Remote · Marketing · Full-Time

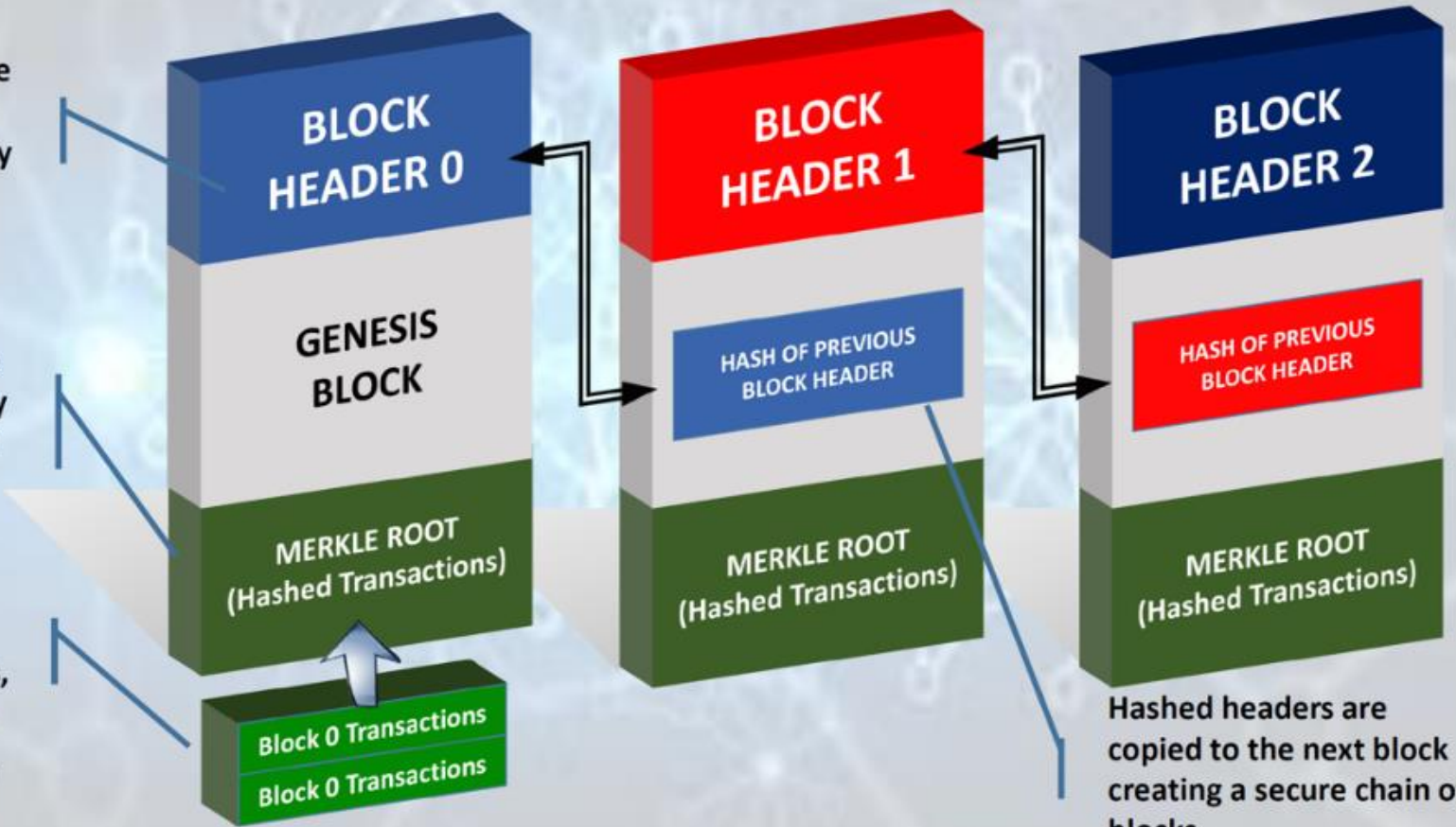
Community Manager Crypto Wallet DeFi Non-Tech Social Media Marketing

# Anatomy of a Block

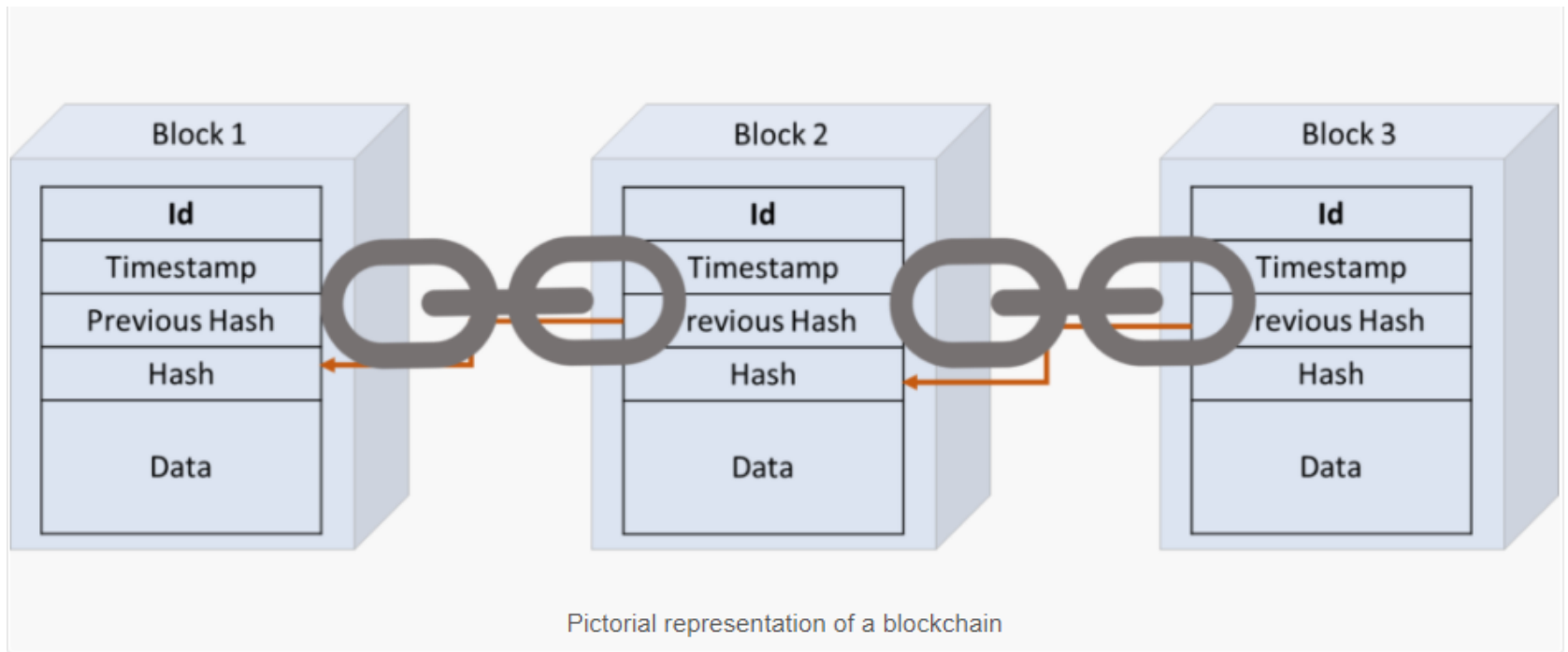
Headers are time stamped and cryptographically "hashed"

Transactions are cryptographically "hashed" into a Merkle Root

One or more transactions:  
data, instructions,  
smart contracts



Hashed headers are copied to the next block creating a secure chain of blocks.



# 101 Blockchains

KNOW EVERYTHING ABOUT

**LAYER 1  
BLOCKCHAIN**

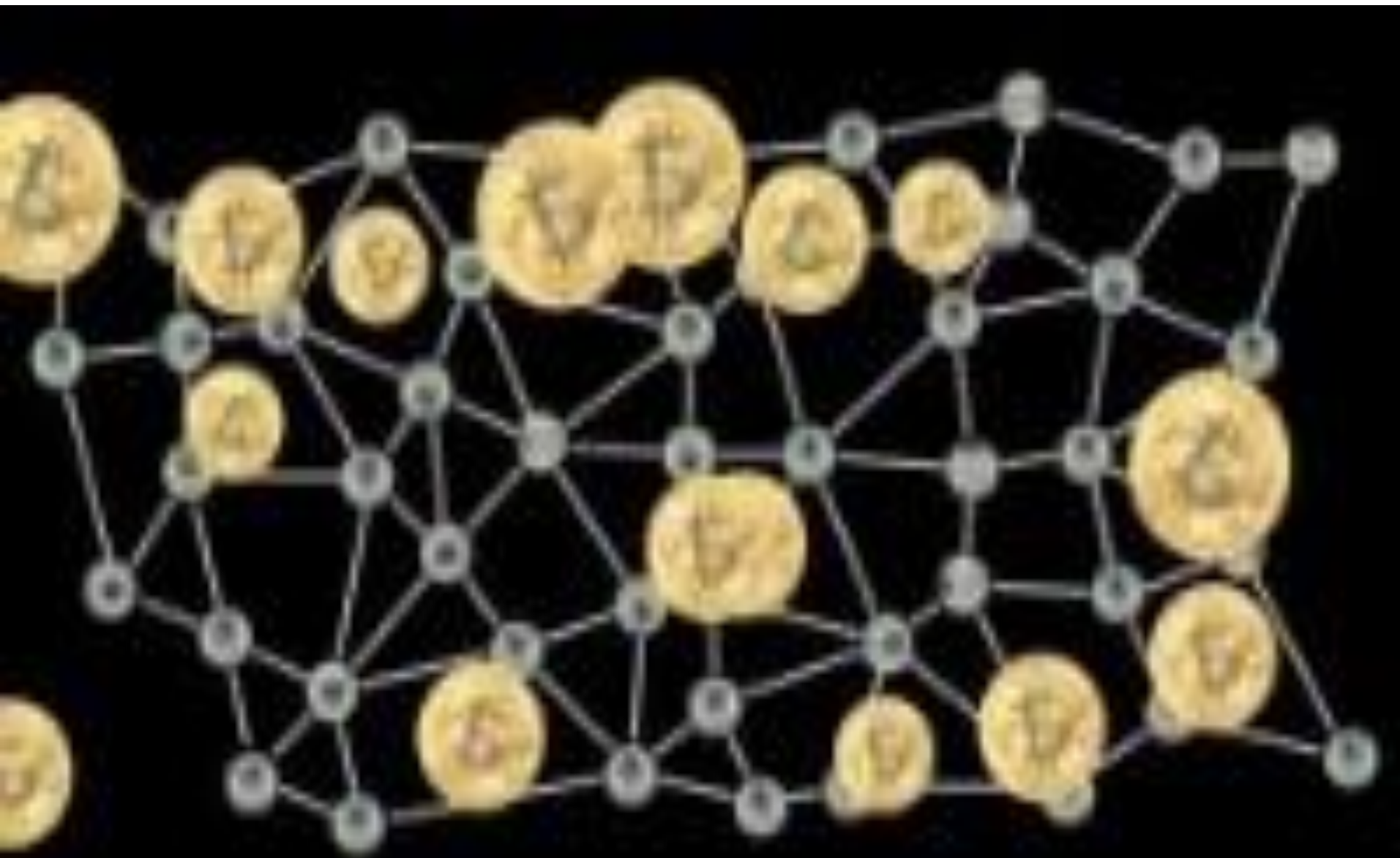


# History of Blockchain

- **1991** → A cryptographically secured chain of blocks is described for the first time by Stuart Haber and W Scott Stornetta
- **1998** → Computer scientist Nick Szabo works on 'bit gold', a decentralized digital currency
- **2000** → Stefan Konst publishes his theory of cryptographic secured chains, plus ideas for implementation
- **2008** → Developer(s) working under the pseudonym **Satoshi Nakamoto** release a white paper establishing the model for a blockchain
- **2009** → Nakamoto implements the first blockchain as the public ledger for transactions made using **Bitcoin**
- **2014** → Blockchain technology is separated from the currency and its potential for other financial, interorganizational transactions is explored. Blockchain 2.0 is born, referring to applications beyond currency



[Understand the Blockchain in Two Minutes - YouTube](#)



**Project  
Management  
Terminology  
Used on  
Blockchain**

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**Project**

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**Use Cases**

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**MVP**

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**Daily Stand Ups**

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**Governance**

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**RISK**

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**Compliance**

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# Types of Blockchain Projects

Distributive Ledger Technology

DeFi/Cryptocurrencies

Non-Fungible Token (NFT)

Metaverse

Decentralized Autonomous Organization (DAO)

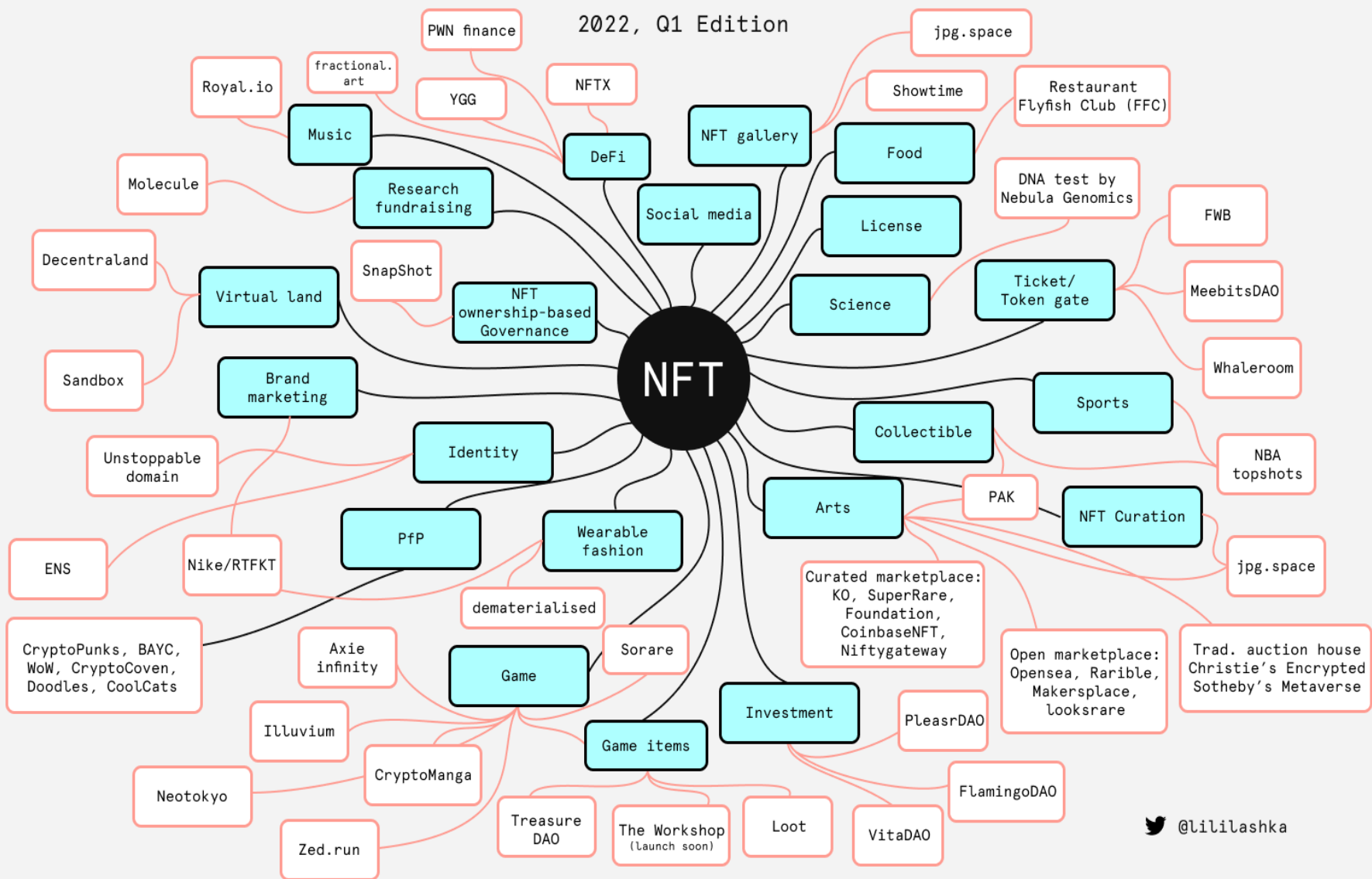
Tokenization/Wallets

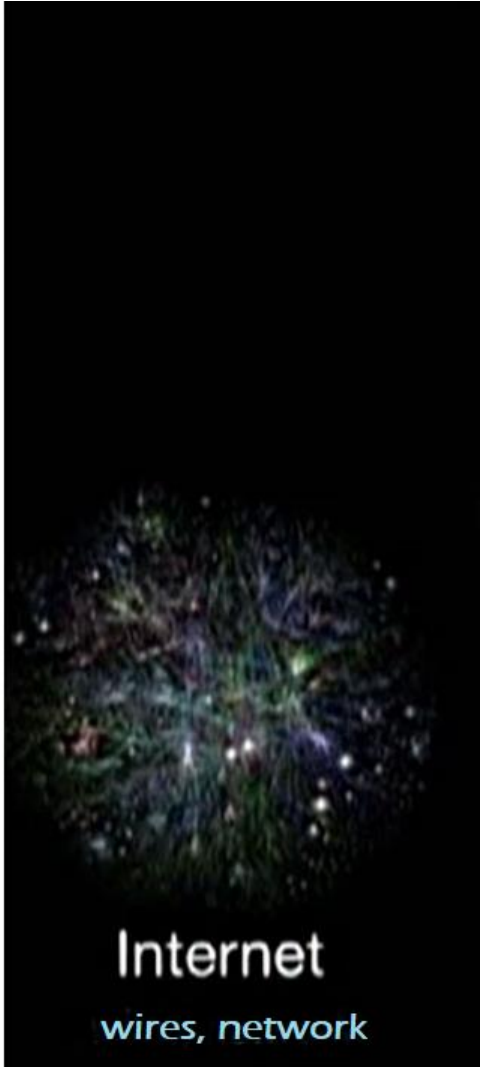
Web3

- Supply Chain Management
- eSports
- Real Estate
- Healthcare
- Voting Options
- Identity Management

# NFT use cases 2022

2022, Q1 Edition





# Internet

wires, network



## Web 1.0

read-only  
static



## Web 2.0

read-write  
interactive



## Web 3.0

read - write - trust  
verifiable

# Life's Pain Points



- Vaccination Status
- Victim of Identity Theft
- Questionable Accuracy of the 3-Credit Agencies
- Obtaining Proof of Government Documents:
  - Birth & Death Certificates
  - Driver License
  - Veteran Status
  - Student Transcripts
- Probating Last Will & Testament
- Verifying Property Title Deeds
- Transferring Medical Records
- Challenges Foreign Currency Exchanges

# Blockchain Applications:



Entertainment



Rights Protection



Government



Charity



Technology



Human Resource



Digital Content



Retail, F&B



Business



Education



Finance



Power



Healthcare



Real Estate



Tourism



Social



Marketplace



Identity



Mathematics















Transport





## Traditional contracts

## Smart contracts

 1-3 Days	Minutes 
 Manual remittance	Automatic remittance 
 Escrow necessary	Escrow may not be necessary 
 Expensive	Fraction of the cost 
 Physical presence (wet signature)	Virtual presence (digital signature) 
 Lawyers necessary	Lawyers may not be necessary 

CRYPTO



**HOW DO SMART  
CONTRACTS WORK?**



# BLOCK – Value – CHAIN: Preparing for the Future of Project Management

Professional Development Day (PDD)



September 2022						
S	M	T	W	T	F	S
				1	2	3
		6	7	8	9	10
	13	14	15	<b>16</b>	17	
	20	21	22	23	24	
	27	28	29	30		



**Keynote Speaker**

**Mark Wheeler** · 1st

Chief Information Officer for City of Philadelphia

**THANK YOU**

A photograph of wooden blocks spelling out 'THANK YOU' on a wooden plank. The blocks are light-colored wood with dark, bold letters. The plank is resting on a dark surface. The background is a blurred green and yellow, suggesting an outdoor setting with foliage. The entire image is framed by a white border, which is itself set against a dark green background.

[www.linkedin.com/in/nikiweiss](https://www.linkedin.com/in/nikiweiss)

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**Niki Weiss, PMP, PMI-RMP, SSM**

Program Mgt | Product Delivery | Blockchain/Web3 Educator

Philadelphia, Pennsylvania, United States



Cigna International



Drexel University's Thomas R.  
Kline School of Law