



# Integrating AI to Blockchain Technologies for Enhanced Business Operations

---

**Mojisola Olawepo**



# Meet Me: Mojisola Olawepo

Senior Technology Strategist- Microsoft

Founder- EverythingonData . Global Data Mentors. WOGPEEF. MojisolaOlawepo.

## About

I am an experienced Data Analytics and Intelligence Manager with a strong background in team management and data management strategies across diverse industries. I have led large teams of graduate members in data analytics, business intelligence, data engineering, and AI. My expertise includes establishing enterprise data management foundations, driving data culture change, implementing AI strategies, and excelling in business strategy, analytics, machine learning, and research. I am dedicated to mentoring individuals, collaborating with organizations, and leveraging technology to shape the future of work. As a technology strategist, I assist C-level leaders in transforming their businesses through data, AI, and digital technologies. With over a decade of experience, I have successfully delivered data insights and governance projects in various industries.

## Expertise

Data Analytics	Business Intelligence	Machine Learning	Strategy	Data Governance	Data Science	Business Process Improvement	Process Automation	Cloud Computing	Digital Transformation
----------------	-----------------------	------------------	----------	-----------------	--------------	------------------------------	--------------------	-----------------	------------------------

## Recognitions

- Top 30 Global Outstanding Women in Data 2023
- Top 10 Outstanding Women in Data, Nigeria 2022
- Top 100 Career Women in Nigeria, 2022
- UK Exceptional Global Talent in the Field of Data & AI, 2023

I love building things and challenging myself to do more...





At the  
end of  
this  
session,

---

You will have a clear understanding of Blockchain Technologies

---

How does the Blockchain Technology work?

---

The Different type of Blockchain

---

Benefits of the Blockchain Technology

---

Considerations to leveraging a Blockchain Technology

---

Challenges for Adoption of the Blockchain Technology

---

How Businesses and Start-ups can leverage Blockchain

---

Global Use Cases

---

How AI is integrated into Blockchain

---

# Blockchain Technology Defined

In simple terms, blockchain technology is a way to store and share information securely across a network of computers

*Blockchain is a disruptive technology trend that enables a*

## Shared



Link organizations to share information on a distributed ledger.

## Secured



Uses strong codes to create transactions that are fraud proof and establishes a shared truth.

## Distributed



Spread across Multiple organizations and becomes more secure as more transactions are added.

## Ledger



Every Transaction is written into the ledger once and cannot be changed.



# How does the Blockchain Technology work?

## A and B Finance – Start-up



1 Frank wants to send money to Lilian. Both are on the blockchain platform.



2 Details of Frank's transaction is created as a 'block'.



3 The transaction block is 'SHARED' and 'DISTRIBUTED' to everyone in the network.



4 The network approves and validates the transaction to ensure it is correct.

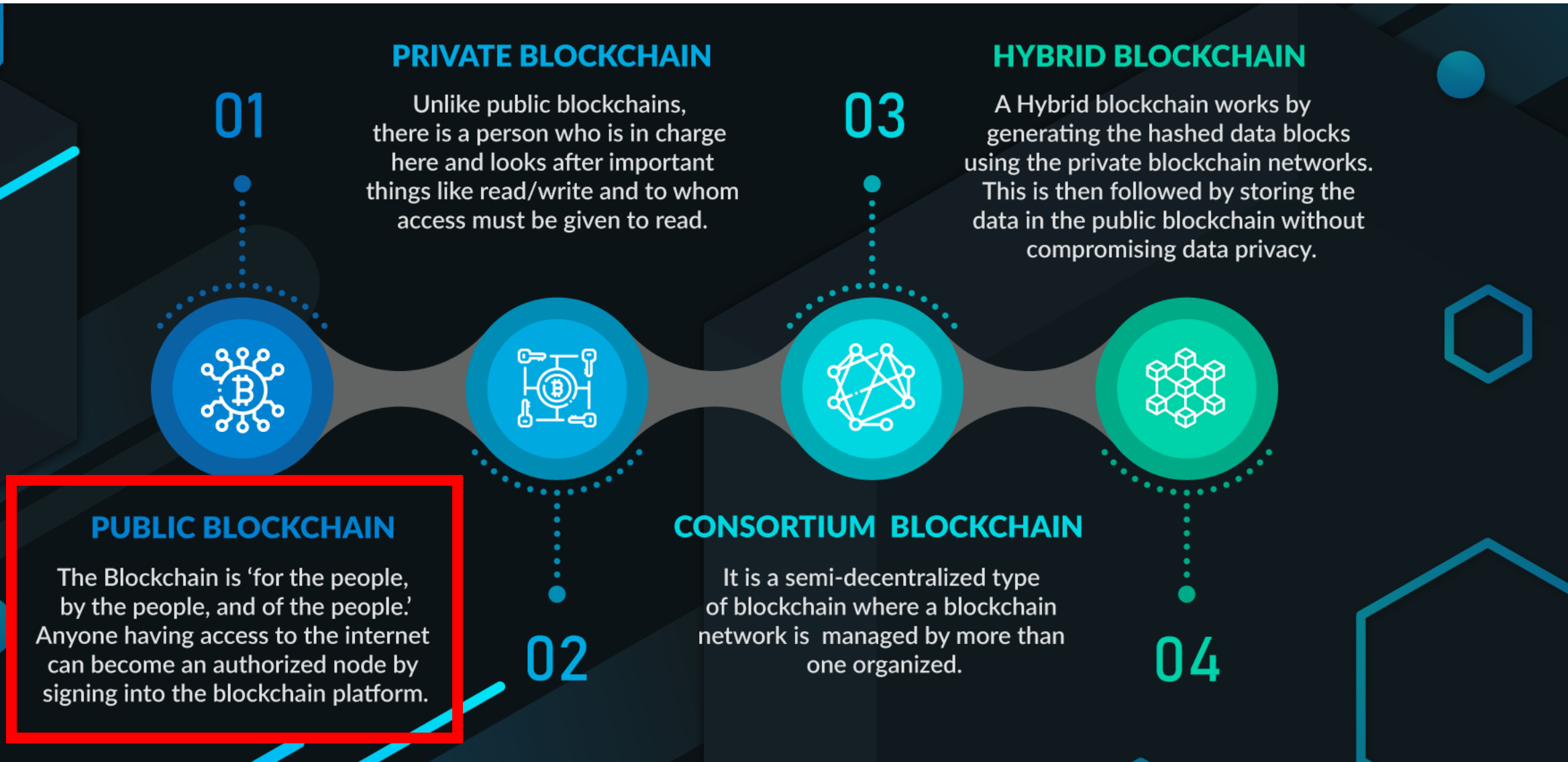


5 Once approved by the network, the block is added to the existing 'blockchain' which provides a permanent, and transparent record of the transaction



6 Lilian receives the money

# The different Types of Blockchain



# Benefits of the Blockchain Technology



**Simplifies Operations**  
by reducing cost and time related  
to reconciliations and disputes



**Eliminates Intermediaries**  
Increasing efficiency and Speed



**Enables New Business Models**  
Increasing revenue and  
savings



**Access Control**  
Only stakeholders  
access data



**Cryptographic  
Security**  
Each transaction is  
encrypted



**Transparency**  
Entire ledger of  
transactions  
visible by all  
participants

# What a Start-up should consider before leveraging the blockchain technology

Problem-  
Blockchain Fit

Business Use  
Case

Technical  
Feasibility

Cost-Benefit  
Analysis

Regulatory and  
Legal  
Considerations

User Adoption

Partnerships  
and Ecosystem

Risks and  
Limitations

Proof of  
Concept (PoC)  
or Pilot

Long-Term  
Strategy



# Challenges for Adoption of the Blockchain technologies

The adoption of blockchain technologies faces several challenges that can impact its widespread implementation. Here are some key challenges:

Scalability

Interoperability

Energy  
Consumption

Regulation and  
Compliance

User Experience  
and Education

Security and  
Privacy

Governance and  
Consensus

Perception and  
Trust

Legacy System  
Integration

Cost and Return  
on Investment  
(ROI)

# How can businesses and Start-ups leverage Blockchain Technology to drive maximum and rewarding results?

Businesses and startups can leverage blockchain technology to drive maximum and rewarding results by considering the following strategies:

Identify  
Appropriate Use  
Cases

Enhance  
Efficiency and  
Cost Reduction

Improve  
Transparency  
and Trust

Enable New  
Business Models

Enhance Data  
Security and  
Privacy

Foster  
Collaborations  
and Partnerships

Education and  
Talent  
Development

Regulatory  
Compliance and  
Standards

Proof of Concept  
and Iterative  
Development

Long-Term  
Vision and  
Flexibility

# Global Industry Use cases

## – Start-ups Leveraging Blockchain Technologies



### Supply Chain Management

VeChain, a blockchain platform, provides solutions for supply chain management, allowing businesses to track and verify the origin, quality, and authenticity of products.



### Finance and Payments

Ripple, with its blockchain-based payment protocol, enables fast and low-cost cross-border transactions for financial institutions, reducing settlement times and costs.



MEDICALCHAIN

### Healthcare and Medical Records

Medicalchain is a startup that utilizes blockchain to store and share patient records securely, allowing patients to have control over their health data and grant access to healthcare providers as needed.



### Digital Identity Management

Civic is a startup that uses blockchain to create digital identities, allowing individuals to control and share their identity information securely, improving user privacy and combating identity theft.



Power Ledger

### Energy Trading and Grid Management

Power Ledger is a blockchain-based energy trading platform that allows individuals and businesses to trade excess energy in a peer-to-peer manner, promoting renewable energy adoption.



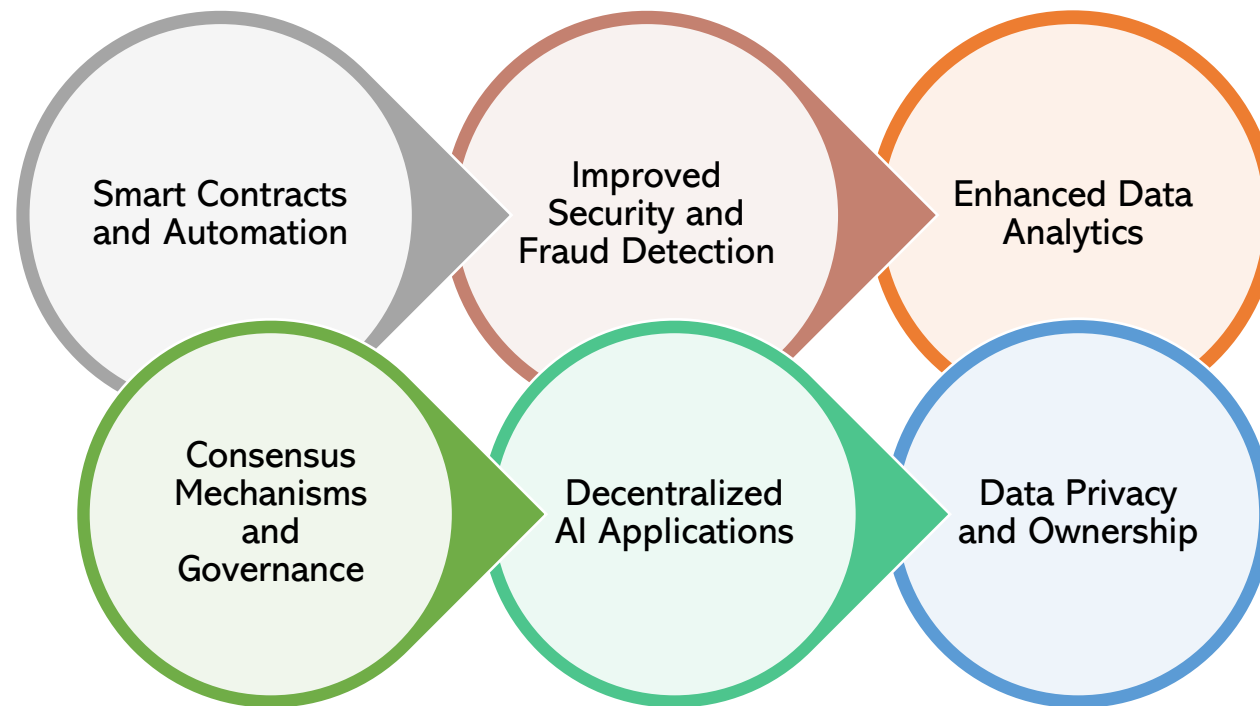
Binded

### Intellectual Property Rights

Binded (now called "Domm") is a startup that utilizes blockchain for copyright registration, enabling creators to protect their digital content and manage licensing and monetization.

# How AI is integrating into the blockchain landscape

Artificial intelligence (AI) is playing a significant role in integrating into the blockchain landscape, enabling new capabilities and enhancing the potential of blockchain technology. Here are some ways AI is being integrated into the blockchain landscape:





# Next Steps

1. **Think:** Do I need to create a blockchain platform for my business?
2. If **YES**, Review what to consider for success.
3. Identify what areas to leverage the blockchain technology to achieve maximum ROIs.
4. Think AI and how you can embed same on the Blockchain platforms to drive exponential growth.



Thank you!

