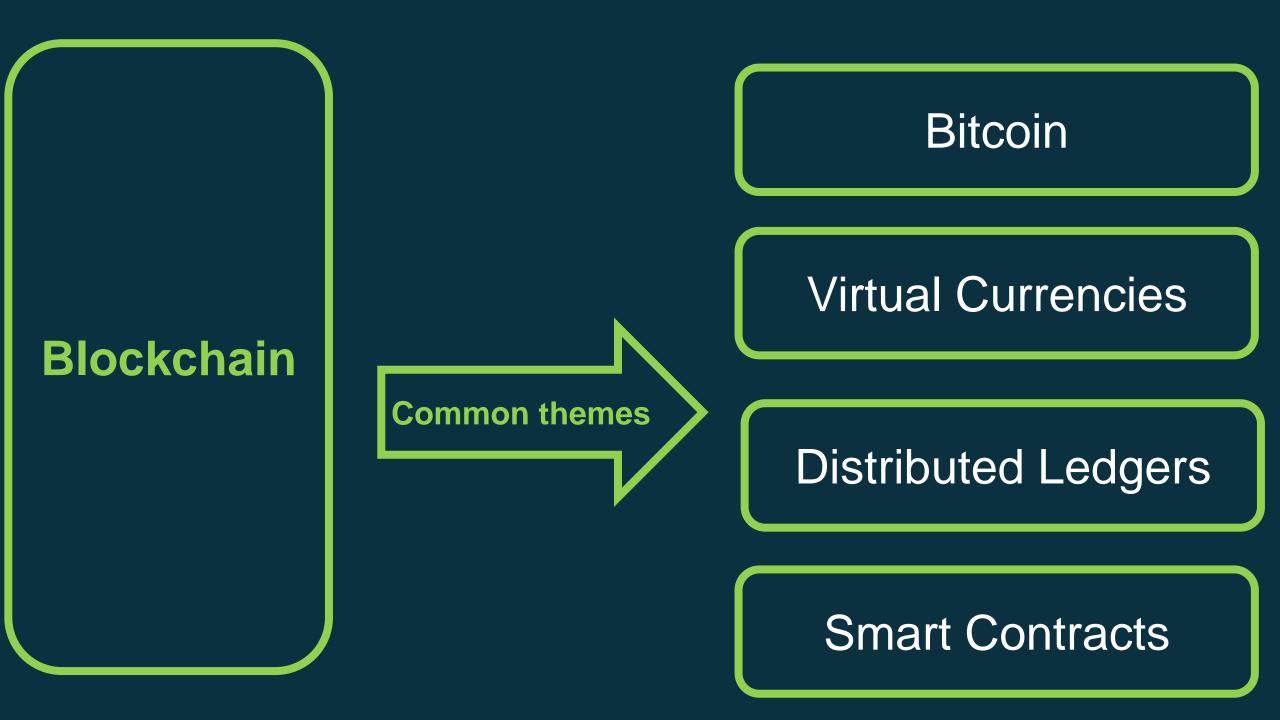




Nabeel Amjad – PTCL



Blockchain

Contains financial transactions

Replicated across multiple systems

Usually exist in peer-2-peer networks

hard to change historical records

Cryptography & digital signatures

Read/write roles

1. Networked

Do not operate in Isolation

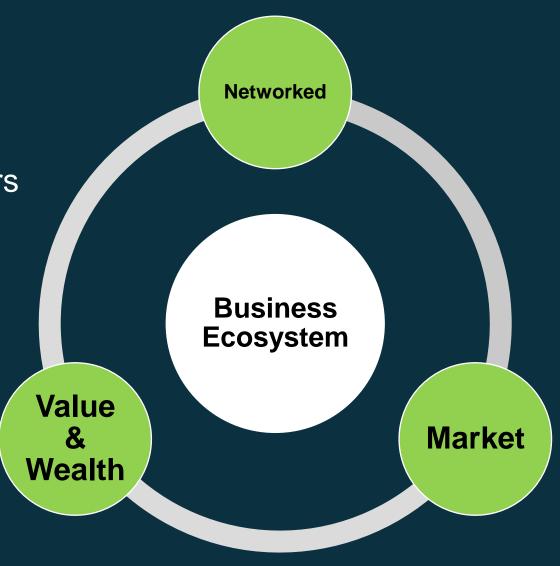
Bonded through Suppliers and traders

2. Generate Wealth and Build Value

- Trade
- flow of goods & services
- Transferring and owning assets

3. Transact through Markets:

Across the business network





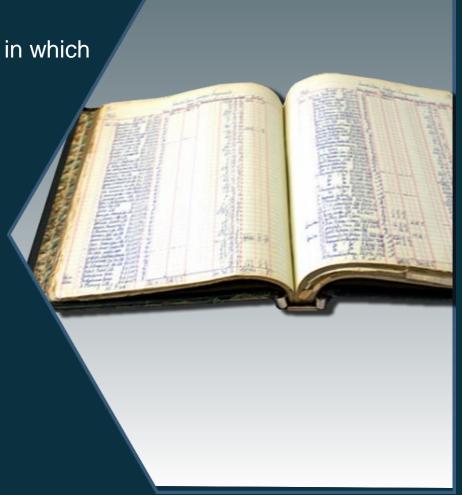
Wealth growth goes down in an inefficient network

Transforming the Ledger legacy

Today businesses have multiple ledgers for multiple business networks in which they participate

Hyperledger Project

Linux Foundation: open source collaborative effort



Blockchain – Applications in Business



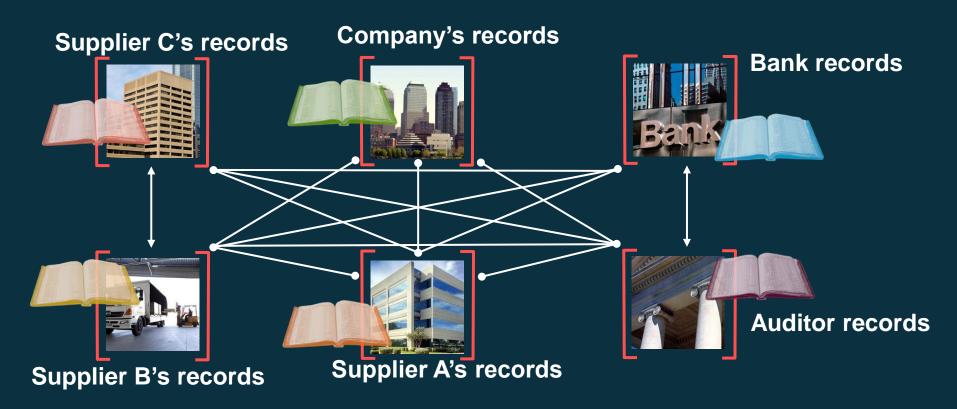
Blockchain - Underlying Technology for Bitcoin

First Blockchain application

Peer-2-Peer net is bit coin ated Database



Construction Industry – Use Case



Multiple companies, dependencies & systems of record

Tedious to manage using standard ERP

Vulnerable, expensive & inefficient



Blockchain So What is the Solution

Blockchain - DNA



Append-only

distributed system of record

shared across business network





Business terms embedded in transaction database & executed with transactions

Ensuring appropriate visibility; transactions are secure, authenticated & verifiable

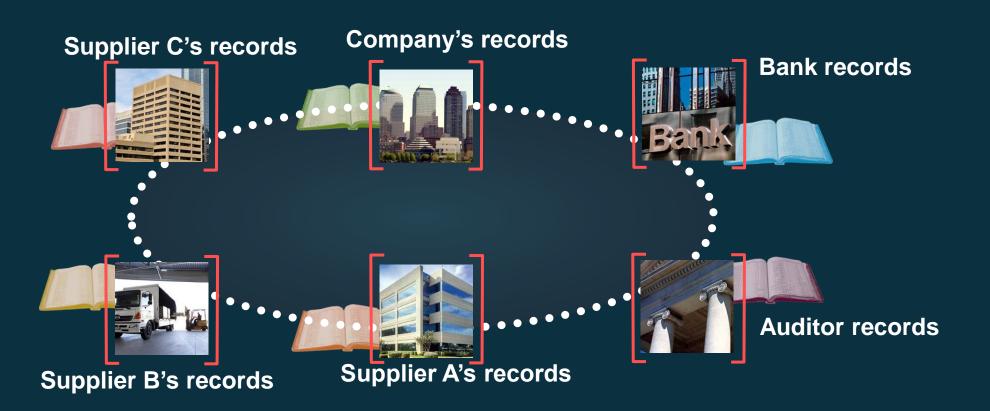




All parties agree to network verified transaction

Broader participation, lower cost, increased efficiency

Construction Business – Blockchain Use Case



Unified Records

Privacy

ONE Place

Same Participants **Transaction Consensus**

No Tampering **Provenance**

Benefits









Saves time

Transaction time from days to near instantaneous

Removes

Overheads and cost intermediaries

Reduces risk

Tampering, fraud & cyber crime

Increases trust

Through shared processes and recordkeeping

What Internet did for IT

is what **Blockchain** will do for trusted transaction

Thank You