# Blockchain Use Cases

Use Cases: Finance

# Blockchain in Loans and Mortgages

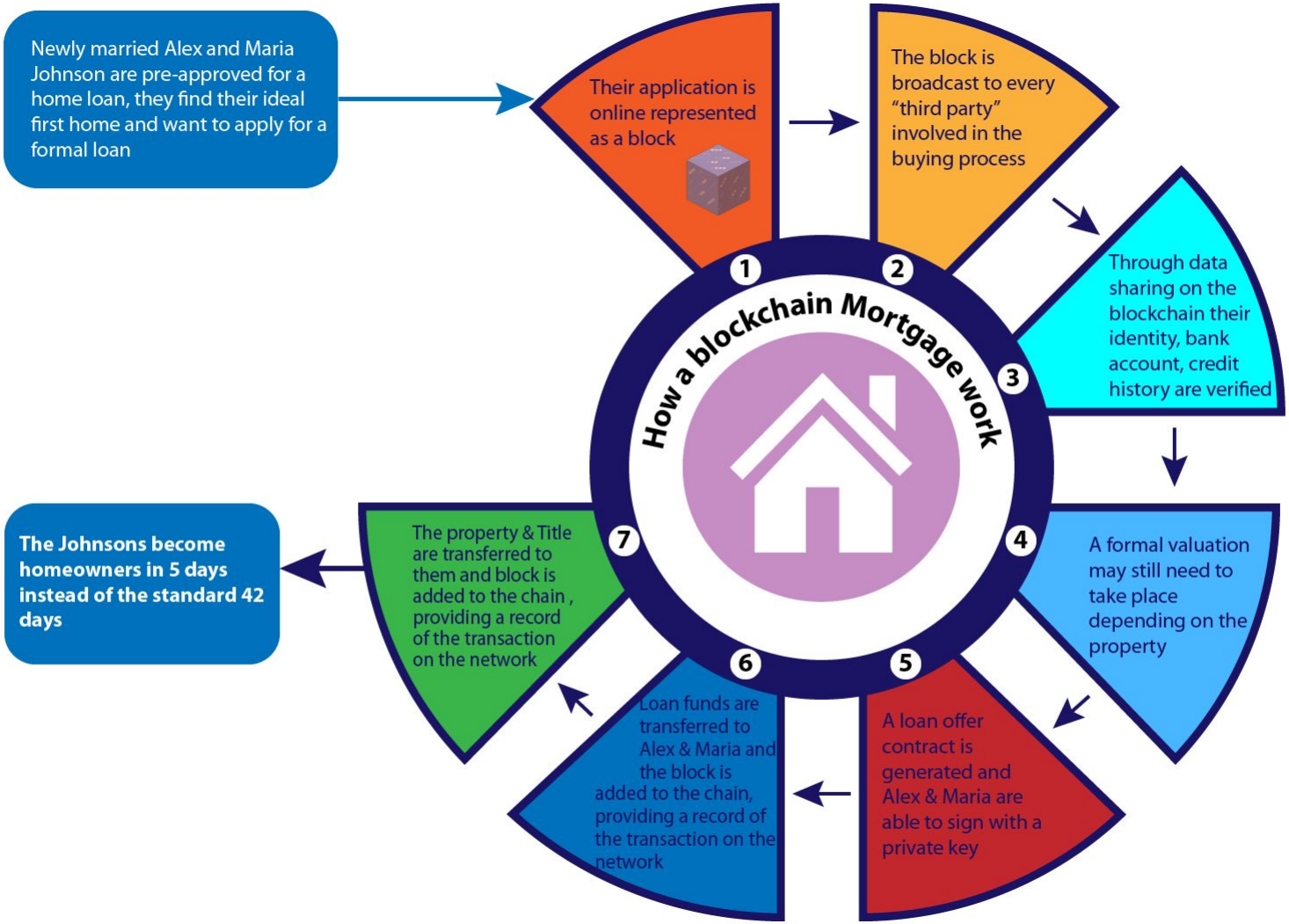
**PROBLEM:** Lot of intermediaries and Bank walls. Adding to that, complexity of the loan process is high.

**SOLUTION:** A Blockchain based peer to peer mortgage lending platform.

- Initiating a smart contract between borrowers and lenders.
- Token-based loan issuance.
- Real-time reporting through Blockchain.

**BENEFITS:**

- Cost effective and free from the middleman.
- Increasing transaction performance and reducing the time taken for transactions.
- Provide transparency for borrowers and lenders.
- Streamlined and efficient processing of mortgages, thus reducing process time.


Newly married Alex and Maria Johnson are pre-approved for a home loan, they find their ideal first home and want to apply for a formal loan
How a blockchain Mortgage work
1
Their application is online represented as a block
2
The block is broadcast to every "third party" involved in the buying process
3
Through data sharing on the blockchain their identity, bank account, credit history are verified
4
A formal valuation may still need to take place depending on the property
5
A loan offer contract is generated and Alex & Maria are able to sign with a private key
6
Loan funds are transferred to Alex & Maria and the block is added to the chain, providing a record of the transaction on the network
7
The property & Title are transferred to them and block is added to the chain , providing a record of the transaction on the network
The Johnsons become homeowners in 5 days instead of the standard 42 days

# Blockchain in Cross-Border Payments

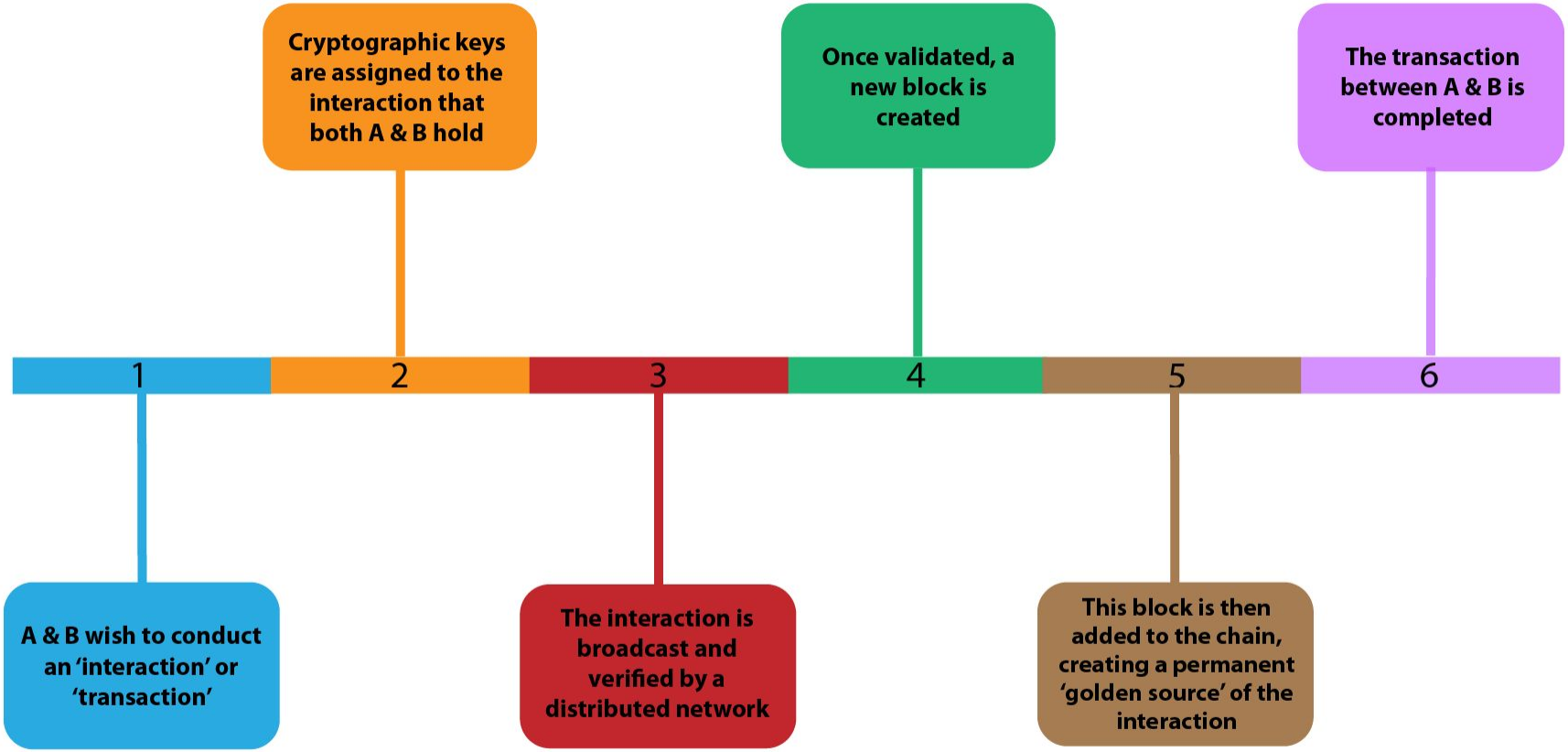
**PROBLEM:** Opaque process. Cost and time for the transactions are high.

**SOLUTION:** A Blockchain based solution with Digital assets and Smart Contracts.

- Digital assets will cut the operational as well as capital compliance cost.
- Smart Contracts help parties to engage in financial agreements.
- Multiple currencies can be exchanged between Banks.

**BENEFITS:**

- Greater speed and affordability.
- Transparency and security.
- Reduce economic risks.
- Digital currencies will also solve the cross-border liquidity issues.


1
2
3
4
5
6
A & B wish to conduct an 'interaction' or 'transaction'
Cryptographic keys are assigned to the interaction that both A & B hold
The interaction is broadcast and verified by a distributed network
Once validated, a new block is created
This block is then added to the chain, creating a permanent 'golden source' of the interaction
The transaction between A & B is completed

# Blockchain in Stock Trading

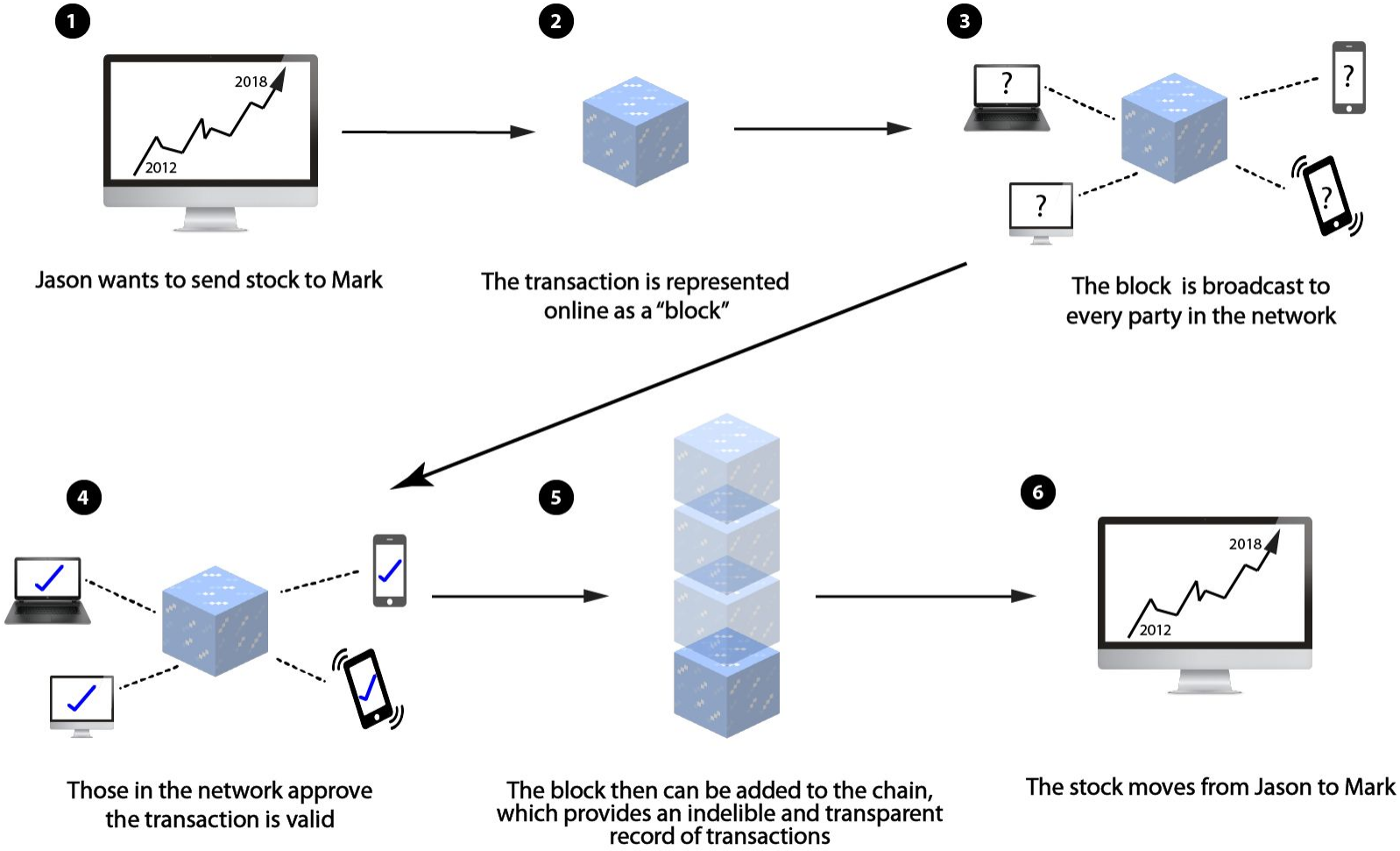
**PROBLEM:** The current functioning of stock exchanges involve complex procedures that can be time-consuming, cost inefficient, cumbersome, and prone to risks.

**SOLUTION:** A Blockchain private trading platform that would allow private companies to represent ownership of shares digitally.

- Complete and record private-securities transactions for a private investor over the Blockchain.
- Smart Contracts can be initiated to agree on the validity of a specific stock movement.
- Settlement of securities can be based on digital tokens.

**BENEFITS:**

- Traceability of stock provenance.
- Eliminating 3rd parties.
- Faster Settlements.


1
2018
2012
Jason wants to send stock to Mark
2
The transaction is represented online as a "block"
3
?
?
?
The block is broadcast to every party in the network
4
Those in the network approve the transaction is valid
5
The block then can be added to the chain, which provides an indelible and transparent record of transactions
6
2018
2012
The stock moves from Jason to Mark

# Blockchain in Online Identities

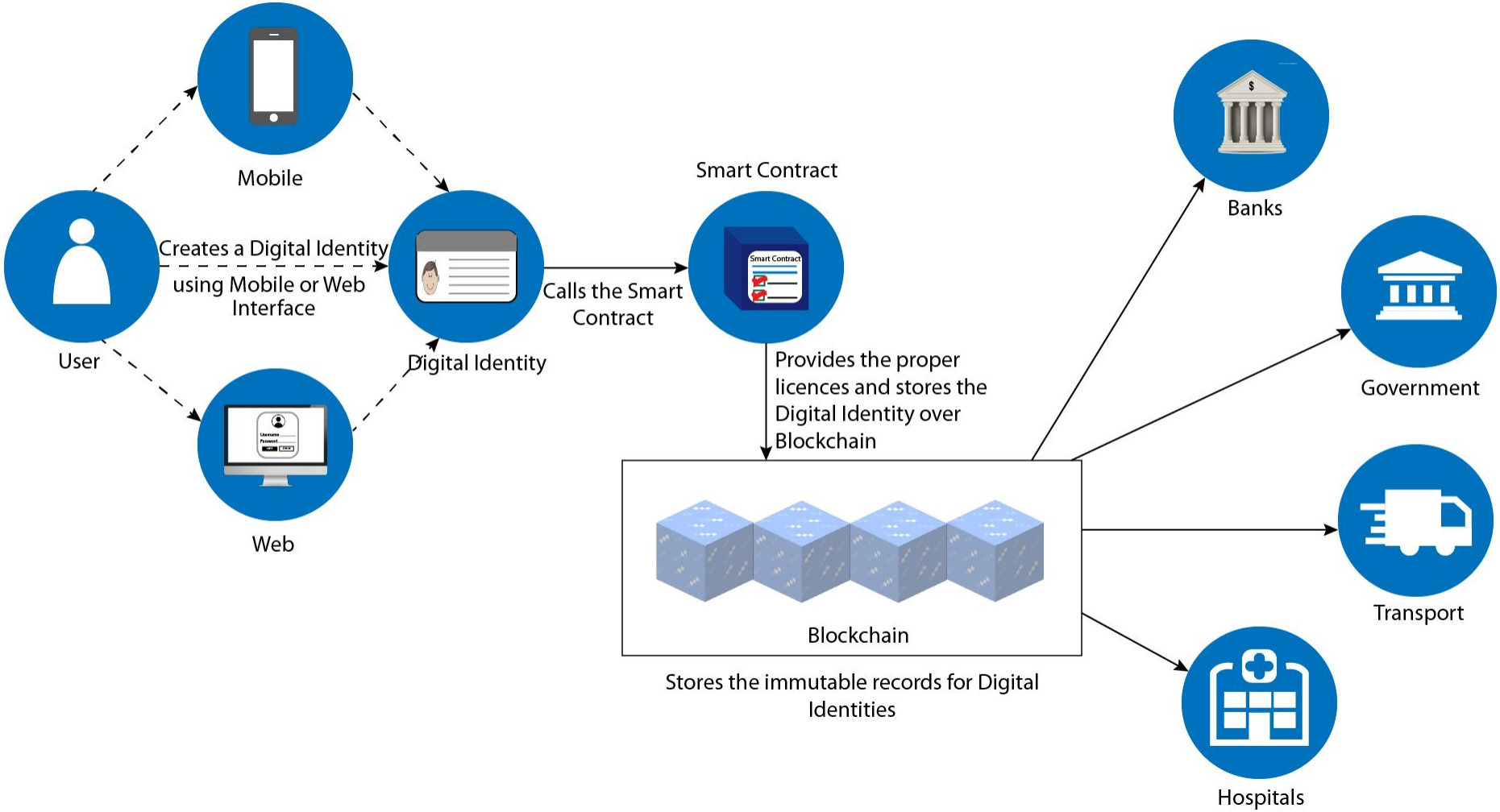
**PROBLEM:** Online identity management is a time-consuming and costly process.

**SOLUTION:** A permission based Blockchain solution to store digital identities.

- Immutable storing of user identities, which would provide a tamper-proof solution.
- Users can choose how they identify themselves and with whom their identity is shared.
- Sharing of ledger between banks to maintain a single source of identity.

**BENEFITS:**

- Remove the middleman and provide every party to access the same source of truth.
- Real-time information.
- Authentication and Authorization.


Mobile
User
Creates a Digital Identity
using Mobile or Web
Interface
Digital Identity
Web
Smart Contract
Calls the Smart
Contract
Provides the proper
licences and stores the
Digital Identity over
Blockchain
Blockchain
Stores the immutable records for Digital
Identities
Banks
Government
Transport
Hospitals

# THANK YOU

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