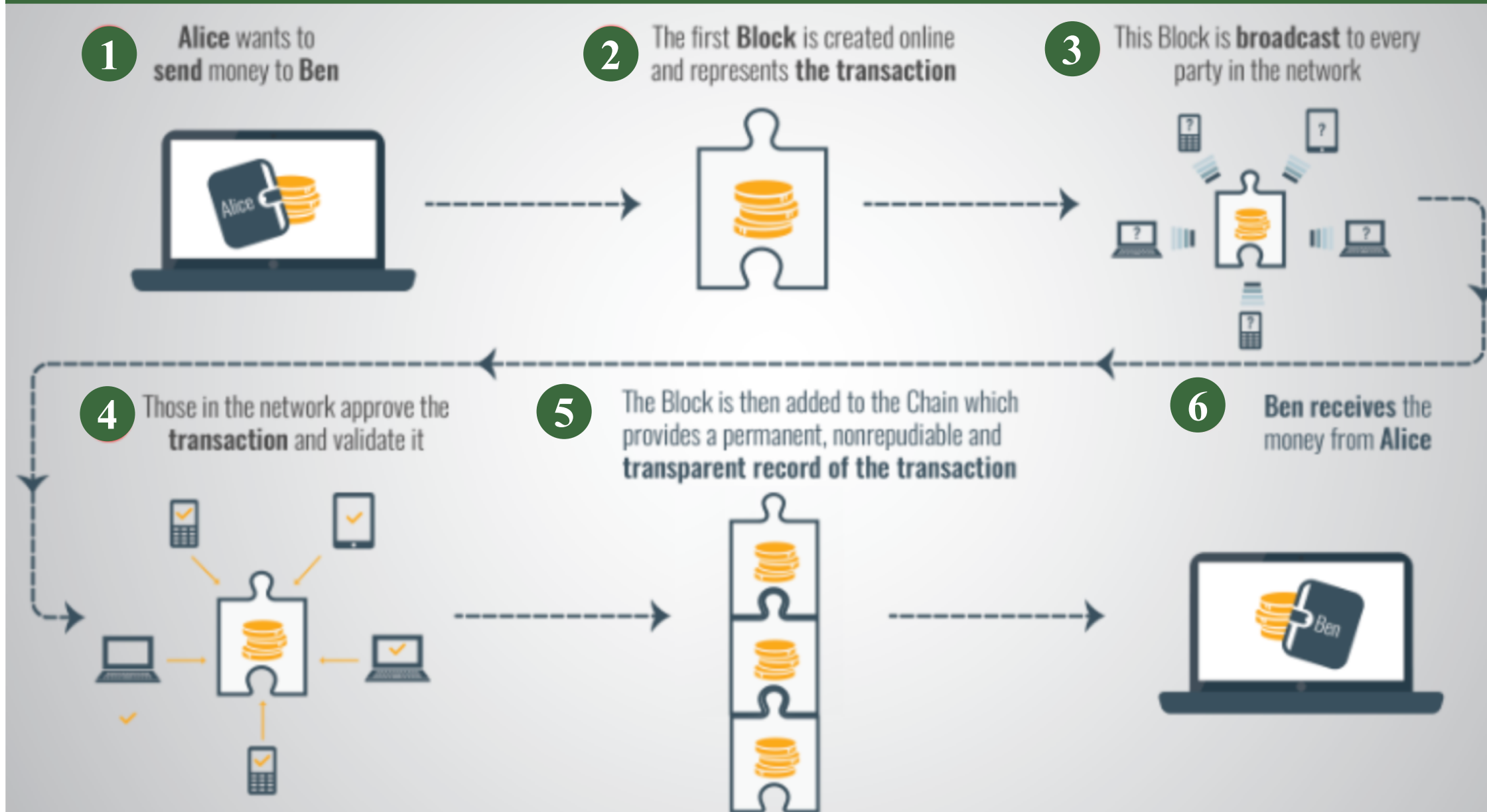


# InDaChain – The Blockchain Technology

## A transparent Supply Chain

Pedro Herrera

The Blockchain is a distributed transaction database that provides secure digital signatures by hashing transactions into blocks. Blocks are verified across the network forming a chain of immutable blocks.


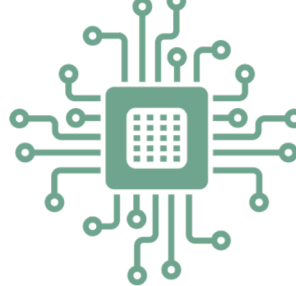
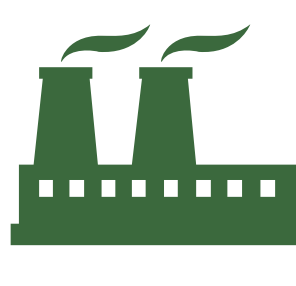


Source: Fidel Vaquez. Medium. Blockchain for dummies

### Main Benefits

- ❖ **Trust & Transparency** All transactions are visible to the whole network and are validated by each participant (node).
- ❖ **Security** Each block is cryptographically encrypted making it a secure network.
- ❖ **Decentralization** The validation mechanism (PoW) for each transaction is consensuated. The PoW removes the need for a central authority to manage them.
- ❖ **Traceable** Once a block is created, it cannot be modified. By being immutable, a blockchain facilitates audit trails whilst constituting a tamper-proof system.

### Smart Contracts

-  Programmable functions deployed on the blockchain that are triggered when certain conditions are met.
-  The contract is immutable and will be executed automatically. Remove human interaction (less fraud and errors).
-  Due to security and adaptability, Smart contracts are used in different industries including finance, health and supply chain

### Technologies involved



### Current Use Case

Bring transparency to a Gluten Free Oat process to ensure customers with corresponding standards

