Understand what blockchain is and how it works

What is blockchain?

It's a shared ledger for recording the history of transactions - that cannot be altered.

Why do we need it?

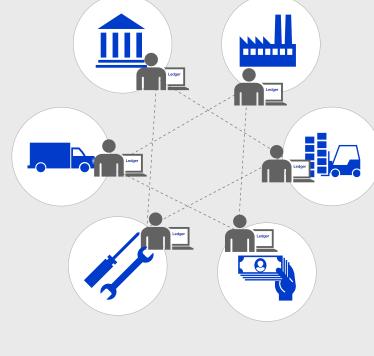


Transactions take place every second - orders, payments, account tracking. Often, each participant has their own ledger - and thus, their own version of the truth.

for error, fraud and inefficiencies. The goal is to see a transaction end-to-end and reduce those vulnerabilities.



How does blockchain work?



Transactions are complex.

- Each participant has his own, separate ledger - increasing the possibility of human error or fraud Reliance on intermediaries for
- validation creates inefficiencies
- Can be a paper-laden process, resulting in frequent delays and potential losses for all stakeholders

A Single shared ledger that is tamperevident. Once recorded, transactions

added to the network

C Eliminates or reduces paper

Blockchain makes it better.

- cannot be altered **B** All parties must give consensus before a new transaction is
- times and increasing efficiencies

processes, speeding up transaction



As each transaction Each block is occurs, it's put into connected to

Building a blockchain.

a block.



Each block is

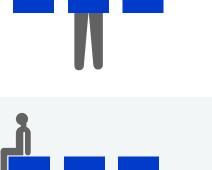
added to the

next in an

chain.

irreversible

the one before and after it.



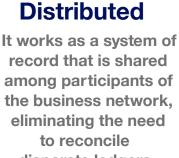
Transactions

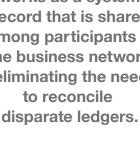
are blocked

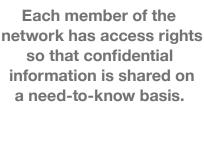
together.









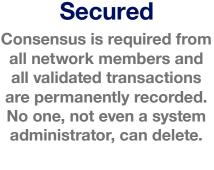


Blockchain is creating extraordinary

opportunities for businesses to

come together in new ways

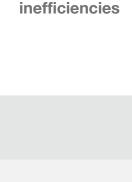
Permissioned



Optimize Create Reduce **New Value** Risk **Ecosystems**

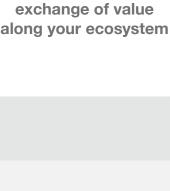
Streamline business

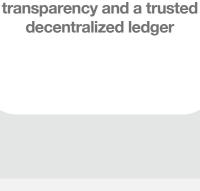
processes and the



Exploit new business

models and eliminate





Replace uncertainty with

Let's see how it works in one industry. Tracking diamonds from mine to final customer is complex. Diamond smuggling, fraud, counterfeit diamonds and unethically mined stones pose real challenges. With blockchain, it's possible to:

diamond at every touchpoint along its journey.



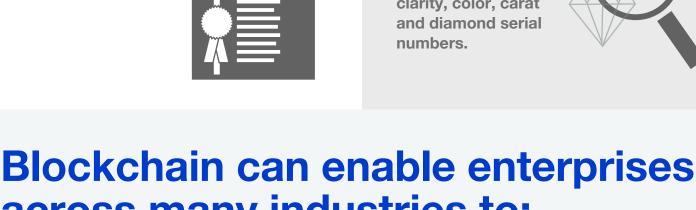
Hold certificates of

authenticity.

Keep a record of

high-resolution

photos of each



numbers.

Maintain product

details like cut, clarity, color, carat and diamond serial

Track real-time

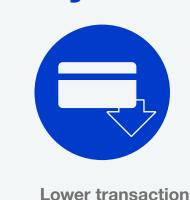
records of every

payment transaction.



across many industries to:





cost



Visit



Want to learn more?

blueskytp.com/what-is-blockchain