Blockchain 101

Understand what blockchain is and how it works

Why do we need it?

- Free up capital flows
- Speed processes
- Provide security and trust
- Lower transaction cost
- Optimize ecosystems
- Streamline business processes and the exchange of value along your ecosystem
- Reduce risk
- Replace uncertainty with transparency and a trusted decentralized ledger
- Create new value
- Exploit new business models and eliminate inefficiencies

How does blockchain work?

Transactions are complex. They lack a single version of the truth.

Blockchain makes it better.

- Distributed: Each member of the network has access rights so that confidential information is shared on a need-to-know basis.
- Permissioned: Consensus is required from all network members and all validated transactions are permanently recorded. No one, not even a system administrator, can delete.
- Secured: Transactions are tamper-evident. Once recorded, transactions cannot be altered.

Building a blockchain.

Transactions are blocked together.

The benefits of blockchain are critical to enterprises.

- Transactions take place every second — orders, payments, account tracking. Often, each participant has his own ledger — and, thus, his own version of the truth.
- Having multiple ledgers is a recipe for error, fraud and inefficiencies.
- The goal is to see a transaction end-to-end and reduce those vulnerabilities.

Blockchain can enable enterprises across many industries to:

- Reduce fraud and errors
- Provide greater transparency
- RNK> 389: Faster transaction processing
- Protect assets and identity

Want to know more?

Visit ibm.com/blockchain