



BLOCKCHAIN 101

// EXECUTIVE DECK

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Marcelo T. de Alvear 405
Oficina #9
Ciudad de Buenos Aires
Argentina

//

T +54 11 5352 1259
hi @ atixlabs.com
//
www.atixlabs.com

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IT'S NOT ABOUT IDEAS, IT'S ABOUT MAKING IDEAS HAPPEN



¿WHAT IS?

BLOCKCHAIN

- Data Base (LEDGER)
- Decentralised
- Cryptographically Secure

“Blockchain is a decentralized infrastructure that allows you to build on the internet and create another layer on people who are going to exchange value between them”.

Alex Preukschat

Blockchain consultant

BLOCKCHAIN PROPERTIES //



01.
OPEN SOURCE
Open Source Technology.

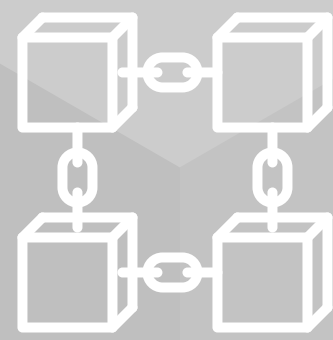


02.
SECURE
Mathematically and
cryptographically protected



03.
**TRANSPARENT
& PUBLIC**
Anyone can inspect and audit what is
happening.





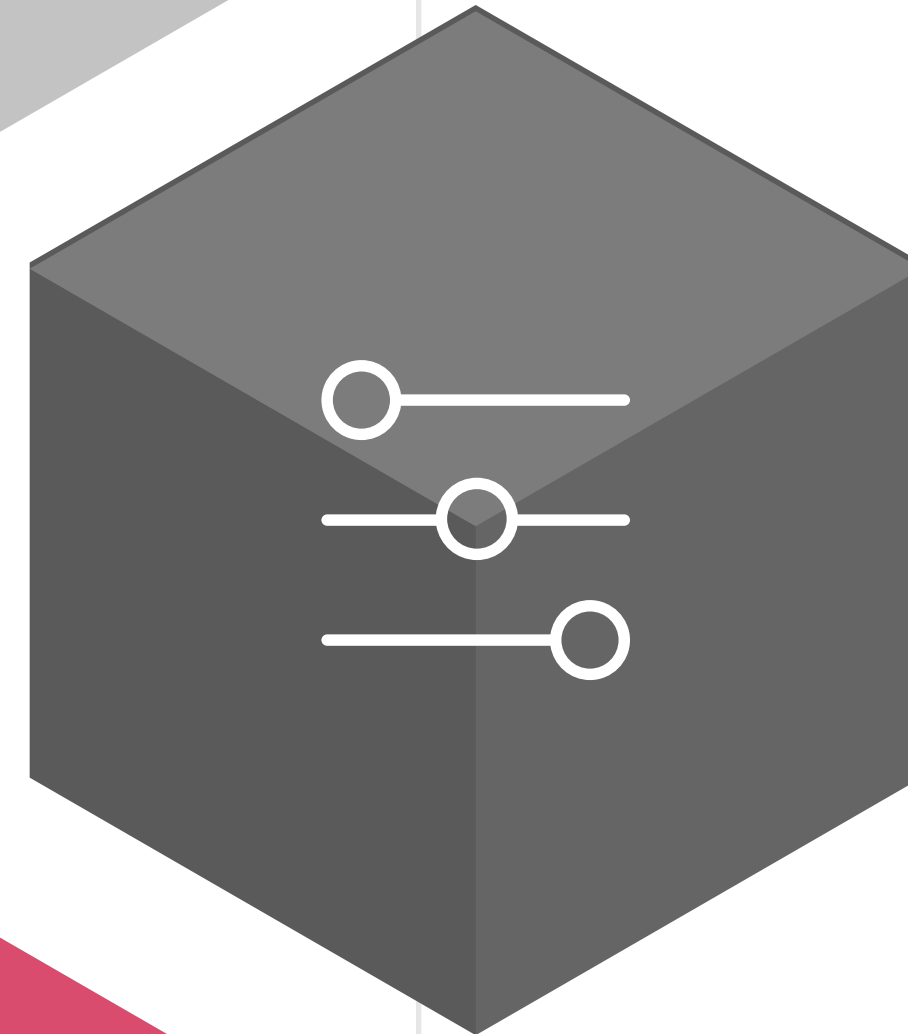
04. DECENTRALISED

All the nodes have a backup of the chain,
nobody can control it.



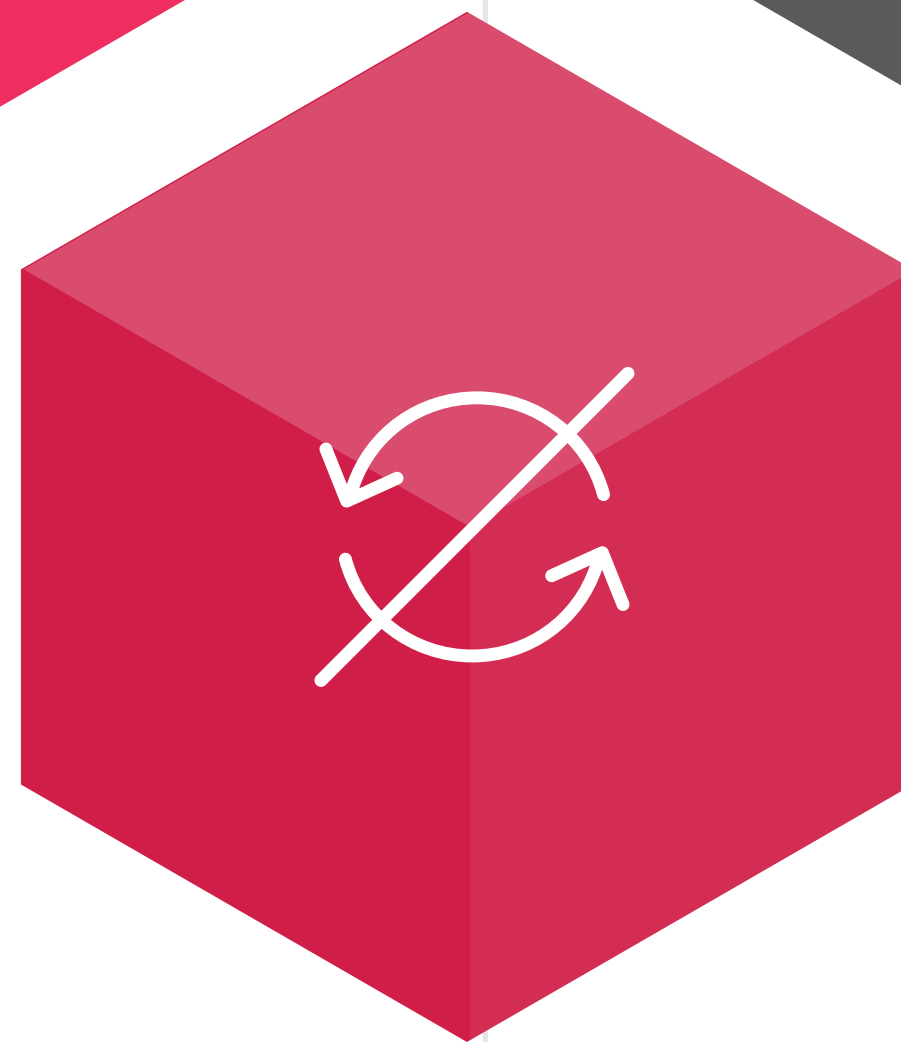
05. TRUSTWORTHY

Because is decentralised



06. TECHNOLOGICALLY FLEXIBLE

Programmable, extensible,
customizable.



07. IMMUTABLE

Nobody can modify.
The alteration of a block requires
consensus along the chain.



TYPES OF BLOCKCHAIN //

Blockchain Use Cases: What kind of transactions does each one allow?

1

VALUE TRANSACTIONS

Exchange crypto currencies, similar to a large ledger. It allows to buy goods and services, store the value (very similar to how we currently use gold).

✓ BITCOIN

2

DECENTRALIZED APPLICATIONS

It allows to execute smart contracts, applications that are executed exactly as they were programmed without the possibility of downtime, censorship, fraud or third party interference.

✓ ETHEREUM

“What Bitcoin does for money, Ethereum does for contracts”.

1.

Agreement between two or more parties, capable of being executed and enforced by itself, autonomously and automatically.

2.

Decentralizes trust relationships.

3.

We go from trusting an individual, company or institution, to trust in a decentralized, autonomous, distributed system, with some pre-established transparent rules (algorithms) that anyone can verify, and that no one can alter.

“We transfer the trust of a human being to a code”

01. TRANSACTION TRACKING

Tracking operations flows. Example: Energy - Energy flow from generators to consumers - Insurance - Follow up contracts.

02. TRANSPARENCY

Publication of data with more than one interested party. Example: Government - Publication of Indices - Banking - Loyalty Programs, Financial Market.

03. MULTIPLE ACCESS - PUBLIC

Access to shared data. Example: Government - Citizen records, Medicine - Patient's clinical history - Banking - Bank reconciliation.

04. NOTARIZATION

Registration and certification of property and documents. Example: Insurance - Signature of policies - Real Estate - Property registration.

05. TRUST

Validity of documents and transactions. Example: Financial Market - Safekeeping of documents - Banking - Trade finance services.

06. SECURITY

Privacy of sensitive records. Example: Government - Status information - Medicine - Medical records.

07. IMMUTABILITY

The data can not be manipulated. Example: Government - Identification of citizens - Financial Market - Purchase and sale operations.

08. CONSENSUS BETWEEN PARTIES

The approval of more than one party is needed. Example: Government - Resolution of summaries - Banking - Digital payments - Insurance - Signing of contracts.

09. AUDITABILITY

Data review. Example: Government - Review of public accounts - Banking - KYC - Energy - Reports of regulators and market operators.

10. IRREFUTABILITY

Ensure that what happens must happen. Example: Insurance - Execution of contracts - Real Estate - Property registration.

11. SAFEGUARD - DECENTRALIZATION

Safeguard information in more than one place, as if they were backup copies. Example: Financial Market - Protection of contracts.

12. FLEXIBILITY

Adapt the result according to the received inputs. Example: Insurance - Execution of contracts - Banking - Statements of account.

13. OPEN ACCESS

All public can access, for example through tokens. Example: Finance - ICO.

14. LOW COST TRANSACTION

Possibility of making microtransactions, money as streaming, microfinance. Example: Banking - Investments.



THANKS

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