

Blockchain: The disruptive technology that is revolutionizing business in the 21st century.

Blockchain is a technology that allows the recording of transactions in a decentralized, secure and immutable way. Through the use of cryptography, the integrity and authenticity of the information is guaranteed, making it a fundamental tool for the digital transformation of companies. In this report, we will explore the successful context in which companies are leveraging this technology to improve their processes and increase their efficiency.

First, let's understand how the **Blockchain** works in six simple steps:



1.- A user creates and digitally signs a transaction.



2.- The transaction is validated and verified by the Blockchain's network of nodes.



3.- Transactions are grouped into blocks, each with a unique code that identifies it.



4.- The blocks are stored in all the nodes of the network.



5.- Blockchain technology uses a consensus mechanism to ensure that all nodes agree on the state of the database.



6.- Blockchain security is based on cryptography and information sharing.

The global Blockchain market size is expected to reach **\$72 billion** by 2026.



Having a year-on-year growth of 51.7% between 2021 and 2026.

(Source: MarketsandMarkets)

Blockchain technology has proven that it can reduce operational costs by up to **90%** for financial institutions.



(Source: Oracle)

55% of organizations consider **Blockchain** as one of their top five strategic priorities.



(Source: Deloitte)

55% of C-level executives expect the Blockchain to have a significant impact on their industry.



(Source: Deloitte)

20% of global commercial financial transactions currently use Blockchain technology.



(Source: World Trade Organization)

77% of companies that have deployed Blockchain technology have reported major improvements in operational efficiency.



(Source: Deloitte)

The top four industries for Blockchain adoption are:



By 2025, the **Blockchain** market in the transportation and logistics industry is expected to reach \$3.4 billion.



(Source: MarketsandMarkets)

The **cross-border payments** industry aims to be the fastest growing area for Blockchain adoption in the financial industry, with a **CAGR of 87.3%** from 2019 to 2026.



(Source: Allied Market Research)

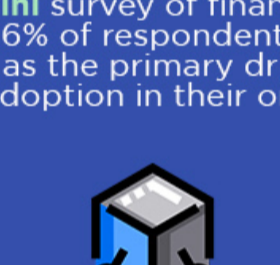
Blockchain technology has the potential to generate savings for financial institutions between \$15 billion and \$20 billion per year.



This due to the reduction in the cost of post-trade and settlement processes.

(Source: Santander InnoVentures)

In a **Capgemini** survey of financial executives, 56% of respondents listed cost savings as the primary driver for Blockchain adoption in their organization.



(Source: Capgemini)

The most successful brands prove that Blockchain is the key to success

These brands demonstrate that the Blockchain is the best option in any economic sector if it is properly adapted to their needs and those of their customers.



IBM and its Blockchain platform offer supply chain management and financial services solutions to a variety of industries, such as digital identity verification and trade finance.



<https://www.ibm.com/blockchain/industries/financial-services>

Walmart introduced a blockchain platform in 2018 to improve transparency and traceability in its food supply chain.



Walmart

Mastercard has a blockchain-based payments network that has processed more than 7 million transactions since 2016, reducing operational costs and increasing efficiency.



JPMorgan Chase created the Interbank Blockchain for enterprises-hype-vs-reality-whats-new-in-2018/

JPMORGAN CHASE & CO.

Sources

MarketsandMarkets. (2021). Blockchain market by component, provider, application, organization size, and industry vertical - global forecast to 2026. MarketsandMarkets.

<https://www.marketsandmarkets.com/Market-Reports/blockchain-technology-market-90100890.html>

Oracle. (n.d.). Blockchain technology. Oracle.

<https://www.oracle.com/blockchain/what-is-blockchain/>

Deloitte. (2019). Blockchain survey. Deloitte.

https://www2.deloitte.com/content/dam/Deloitte/se/Documents/risk/DI_2019-global-blockchain-survey.pdf

World Trade Organization. (n.d.). Trade and blockchain. World Trade Organization.

https://www.wto.org/english/res_e/publications_e/blockchainrev18_e.htm

PwC. (n.d.). Blockchain and smart contracts. PwC.

<https://www.pwc.com/m1/en/media-centre/articles/fintech-series-smart-contracts.html>

McKinsey & Company. (2018). Blockchain beyond the hype: What is the strategic business value?. McKinsey & Company.

<https://www.mckinsey.com/business-functions/digital-mckinsey/our-insights/blockchain-beyond-the-hype-what-is-the-strategic-business-value>

Topic: Blockchain. (2023, 28 abril). Statista.

<https://www.statista.com/topics/5122/blockchain/>

IBM. (n.d.). Blockchains for Financial Services.

<https://www.ibm.com/blockchain/industries/financial-services>

PwC. (2018). Blockchain is here. What's your next move?

<https://www.pwc.com/gx/en/industries/assets/pwc-blockchain-is-here.pdf>

Allied Market Research. (2019). Cross-border Payments Industry by Payment Type and End User: Global Opportunity Analysis and Industry Forecast, 2019-2026.

<https://www.alliedmarketresearch.com/b2b-payments-market-A08183>

Santander InnoVentures. (2015). The Fintech Paper 2.0: Rebooting financial services.

<https://www.finextra.com/finextra-downloads/newsdocs/the%20fintech%202020%20paper.pdf>

Capgemini. (2018). Blockchain in Financial Services: How the Disruptive Technology is Redefining Business Models.

<https://www.capgemini.com/in-en/insights/expert-perspectives/blockchain-for-enterprises-hype-vs-reality-whats-new-in-2018/>

MarketWatch. (2019). Blockchain Identity Management Market 2025 Emerging Trends and Competitive Landscape.

<https://www.marketwatch.com/press-release/blockchain-identity-management-market-research-methodologies-offers-high-business-outlook-growth-2023-2029-ibmawscivic-technologiescambridge-blockchain-2023-05-05>

IBM. (n.d.). Blockchains for Financial Services.

<https://www.ibm.com/blockchain/industries/financial-services>

PwC. (2018). Blockchain is here. What's your next move?

<https://www.pwc.com/jg/en/publications/blockchain-is-here-next-move.html>

Capgemini. (2018). Blockchain in Financial Services: How the Disruptive Technology is Redefining Business Models.

https://www.capgemini.com/ar-es/wp-content/uploads/sites/23/2018/03/blockchain_services_2016-13.pdf