



Observatorio

Blockchain & Smart Cities

Blockchain Chair

Seoul, South Korea • June 2018

Smart City

Concept

A Smart City takes advantage of the Technologies of Information and Communication (ICT) to manage, in a sustainable way, functioning of the city, governance and citizens' quality of life.



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Smart City

Features

- Greater resource efficiency use and citizens' quality of life improvement.
- Contributes to public services management and operation from all perspectives: energy management, mobility, environment, local services, administration, citizen and local government relationship, information, etc.
- Generates policies for access and use of technologies to reduce the digital divide in our society, making **smart societies for smart cities**.



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Smart City Technologies

Implementation

- Internet of Things (IoT).
- Artificial Intelligence.
- Big Data/Small Data.
- Machine Learning.
- Deep Learning.
- Data Mining.
- Predictive Analytics.
- Blockchain.



Blockchain Technology

Concept

It is a distributed, public database, immutable that keeps a continuously growing list of records or “blocks” which are linked to facilitate the recovery and verification of the information.



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Blockchain Technology

Applications

- Peer-to-peer payments and lending.
- Internet of Things (IoT).
- Voting systems.
- Currency exchange and remittance.
- Collaborative transport.
- Decentralized markets.
- Proof of authorship and ownership.
- Energy distribution.
- Trustworthy endorsements and proof of identity.



Blockchain Technology

Applications

- Data storage.
- Custodian services.
- Smart contracts.
- Prediction platforms & online gaming.
- Digitization of documents and contracts.
- Digital security trading.
- Luxury and medical goods authentication.
- Governmental services.



Blockchain Technology

Benefits

- Trading without intermediaries.
- Strength and reliability of decentralized networks.
- High quality data.
- Information control by users.
- Process integrity.
- Transparency and immutability.
- Simplify accounting system.
- Transaction efficiency.



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Possibilities

Allows to have a common transversal platform that connects the different services of the city, providing more transparency and security to all the processes.

It can improve public administration management, urbanism, collaborative economy and sustainable policies, within the framework of 'smart cities'. [2]

[2] Stefan Junestrand, Blockchain: The industrial revolution of the Internet.



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Initiatives

ESTONIA



Since 2012, distributed ledgers have been used in Estonia's national health, judicial, legislative, security and commercial systems. The technology has already gone beyond the scope of experimentation and has reached mass adoption. In particular, the Estonian government has introduced blockchain to provide its citizens access to control their personal data.



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Initiatives

DUBAI



A pilot program is being developed to track, ship and deliver imported and exported goods using blockchain technology. The main idea of its integration into the foreign trade of the city is to create a single safe and transparent platform.



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Initiatives

CHINA



Currently, Chinese authorities are actively studying blockchain in terms of more orderly data storage. On April 24, the National Audit Office of China discussed the use of the technology to solve problems inherent in centralized storage infrastructure.



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Smart City

Bolivarian
Republic
of Venezuela



The Bolivarian Republic of Venezuela has been playing a transcendental role in the generation of innovative, productive and self-sustaining proposals that pay tribute to the country's technological development. An example is the project called "**Smart Campus**" to leverage the processes of change in the field of knowledge, research, productivity and resources use efficiency, through Blockchain technology.



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Blockchain Observatory of Venezuela

¿What is it?

It is a center for analysis, development and innovation of strategies and national and international measures related to Blockchain Technology and its financial environment to strengthen Venezuela's economic sovereignty.



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Areas of investigation

- Goods and services models.
- Legal and regulatory framework on cryptoactives and mining.
- Technological infrastructure.
- International cooperation.
- Socialization and mass use of cryptoactives.



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