Blockchain applications for the Internet of Things

info@alpha-cyber.com

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The company

- Innovative start-up funded in 2017

- Strong relationship with research entities

- Advanced knowledge in the following fields:
  - Blockchain
  - Internet of Things
  - Cyber-security

Internet of Things

- Internet of Things contexts:
  - Domotic IoT
  - Industrial IoT

	Domotic	Industrial IoT
Power supply	Powerline, battery	Powerline
Low cost components	Typically	Rare
Real-time requirements	No	Yes
Wireless communication	Yes	Rare
Technologies	Ethernet, wireless	Industrial ethernet
Protocols	Wi-Fi, ZigBee, Z-Wave	PROFInet, PROFIbus, PROFIsafe

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A simple ledger with the following characteristics:

- Distributed

- Shared (publicly or privately)

- Not tamperable

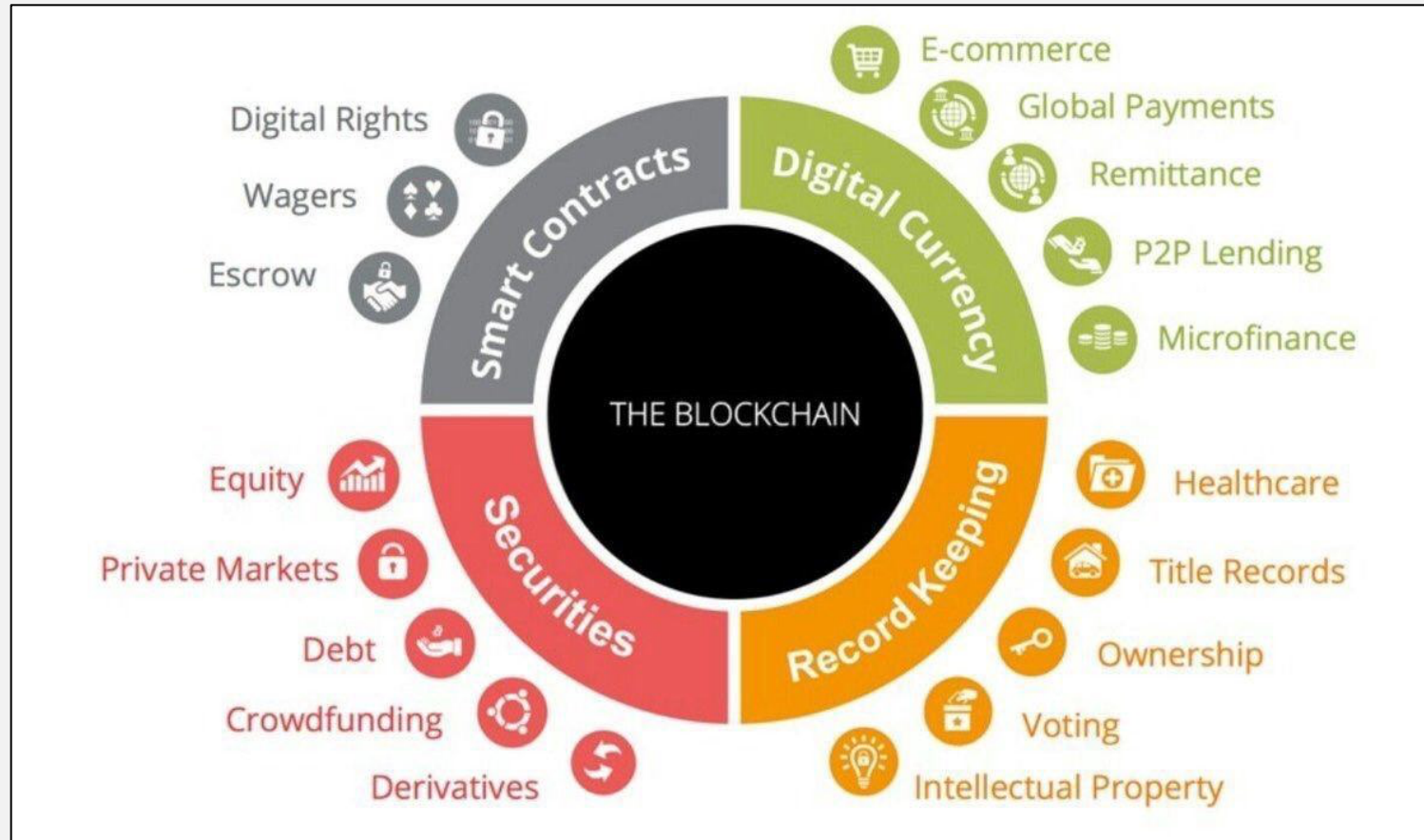- Able to aggregate data coming from etherogeneous sources

An example: ₿ bitcoin

- The first application of the blockchain technology

- A distributed crypto-currency without central governing entities

- Exponential grow

- It is the currency used to exchange altcoins

- Several applications of the same technology:

  - Crypto-currency is the first of different applications

  - Storage and supply chain applications already exist

Other blockchain applications

Available services

Alpha-Cyber offering in the blockchain sector includes:

- Consulence on business development using new technologies

- Identification of real scenarios accustomed to integrate the blockchain technology

- Design and development of solutions based on the blockchain technology

- Migration of existent systems to the blockchain

- Development of novel IoT+blockchain solutions

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www.alpha-cyber.com

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