iExec

**Data Governance,
Data Confidentiality &
Trusted Execution Solutions
for the Web3 Economy**

Use Cases

Industry 4.0

Green Mobility & Mobility Platform

Remote Identity Verification & e-KYC

Data Sharing & Data Marketplace

Industry 4.0

Problem

The major issue for Industry 4.0's is its security, including threats like network breaches, IoT identity theft and the use of forged information. The trust on collected data and the security of the IoT infrastructure are both required to ensure proper operations of the smart industry.

Solution

iExec solves the cybersecurity problem of industrial IoT, specifically of Industry 4.0, by providing a Blockchain infrastructure allowing the tracking of data generated by IoT devices and machines, as well as an access control managed by smart contracts.

Success Story

iExec helps CETIM (French Technical Centre for Mechanical Industry) in the implementation of a consortium blockchain to secure data from manufacturing facilities, test benches and data transfer from remote IoT system

The iExec proposition

1 Certifies data integrity and authenticity

2 Guarantees transparency on access control and management

3 Makes IoT (system/platform) trustworthy with smart contracts

4 Provides immutable proof of every action

Green Mobility & Mobility Platform

APRR

Problem

The collection and management of geolocation data is a big concern for mobility service providers, particularly in Europe, where regulations impose lots of new standards aimed at defining how personal data is processed (GDPR).

Solution

To meet the regulatory requirements, iExec has combined its Blockchain and Confidential Computing capabilities to provide a new way to share, process, and monetize data while maintaining complete confidentiality. This solution provides a gateway for new business models based on the tokenization of employees' eco-friendly journeys to work and the development of an ecosystem around the token.

Success Story

iExec assisted APRR (Eiffage Group) in the development of a platform that rewards (through tokens) employees of a business park for using eco-friendly modes of transportation to get to work .

The iExec Proposition

1 Allows each participant to manage the governance of their mobility data

2 Tokenizes journeys and develop an ecosystem of service providers

3 Guarantees the confidentiality of the real identity of each user

4 Manages all mobility data without revealing it

Remote Identity Verification & e-KYC

EVERIAL

Problem

KYC service providers are facing increasingly rigorous regulations. These guidelines aim to define, for service providers, the rules for setting up trusted spaces for exchanging personal data, managing consent, obtaining proof of processing and results, as well as guaranteeing the purpose of processing personal data.

Success Story

iExec helped Everial in the design of a solution to reinforce the trust and confidentiality of its document recognition and remote identity verification products for its users and customers.

Solution

iExec solves the problem by reinforcing trust and confidentiality on the document recognition and identity verification services by using Confidential Computing coupled with data encryption. Also by providing a Blockchain infrastructure allowing the Traceability, gouvernance and security.

The iExec Proposition

1 Processes all personal data without ever revealing it

3 Provides immutable proof of every action

2 Allows each individual to manage the governance over their identity data

Data Sharing & Data Marketplace

KnowledgeX
trusted data science in the cloud

Problem

Companies' valuable data is very often sensitive or even confidential, and it must be protected in order to avoid any chance of misuse or leaking. That's why a large portion of this data remains untapped (80% according to the European Commission).

Success Story

iExec worked with KnowledgeX in the creation of a decentralized marketplace that puts Data Scientists and Data Owners (companies that own data) in a trustworthy collaboration, which allows the processing of confidential data by external partners.

Solution

By relying on the Blockchain and Confidential Computing, iExec solves this problem by providing a customized marketplace allowing each authorized actor on the network to share, process and even monetize its data in a secure and confidential manner, without losing ownership.

The iExec Proposition

1 Sets up a Blockchain-based Marketplace

2 Processes all data without revealing it using Confidential Computing

3 Enables data owners to manage the governance of shared data

4 Allows data owners to monetize their data while maintaining ownership

Reach the team

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