



Blockchain Industry and Innovation Labs

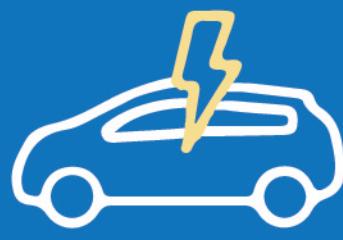
# Introduction



DLT



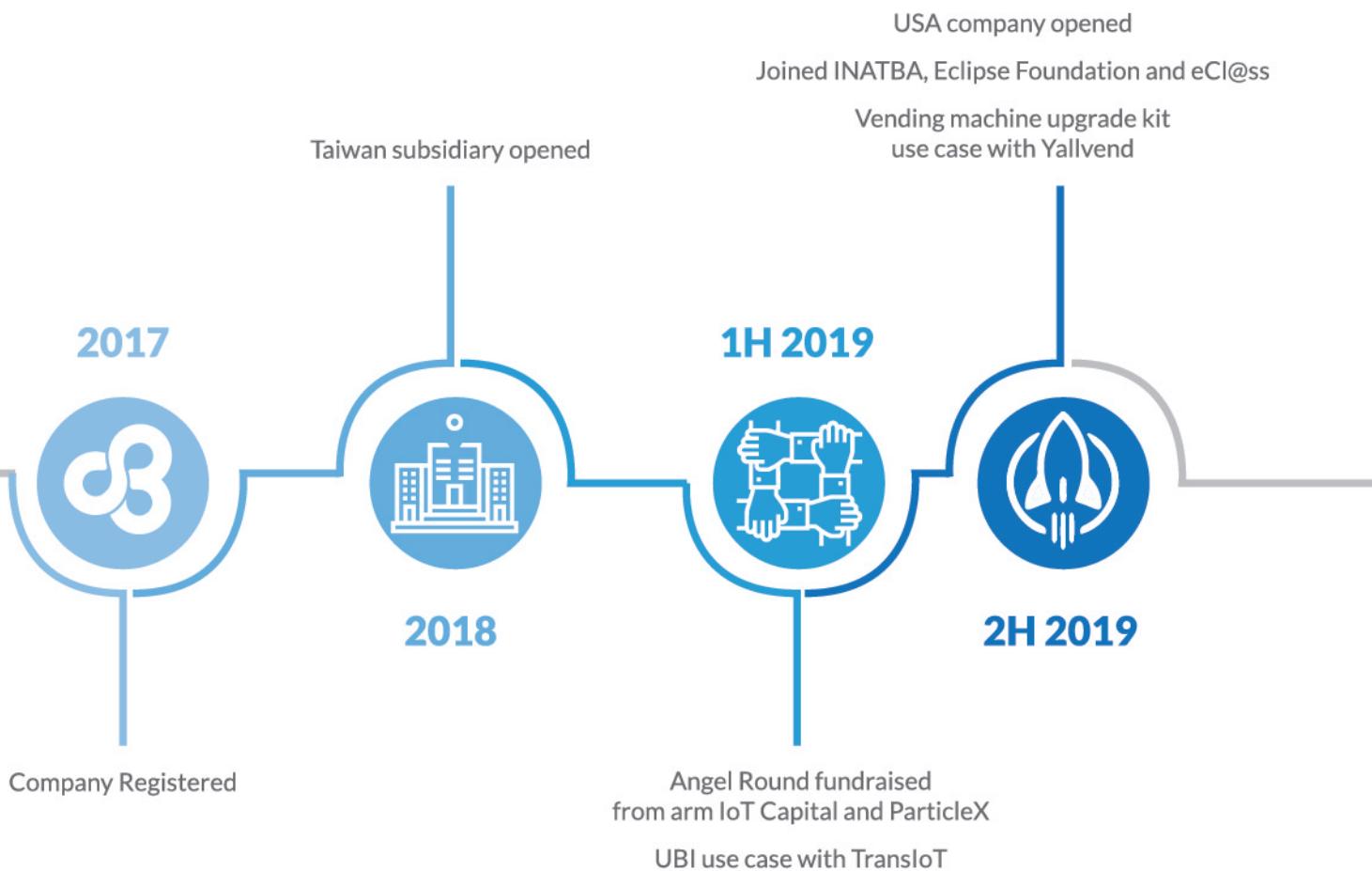
Data Marketplace



Energy & Mobility

BiiLabs is dedicated in developing distributed ledger technologies to overcome the challenges in the Internet of Everything era, including smart mobility and energy management, and more. Its core technologies assist the digital transformation of various industries, and to solve critical issues such as trust, security, growth and efficiency for our clients. BiiLabs aims to be a leading technology provider in the Internet of Everything world.

## Milestone



## Partners



## Use Cases



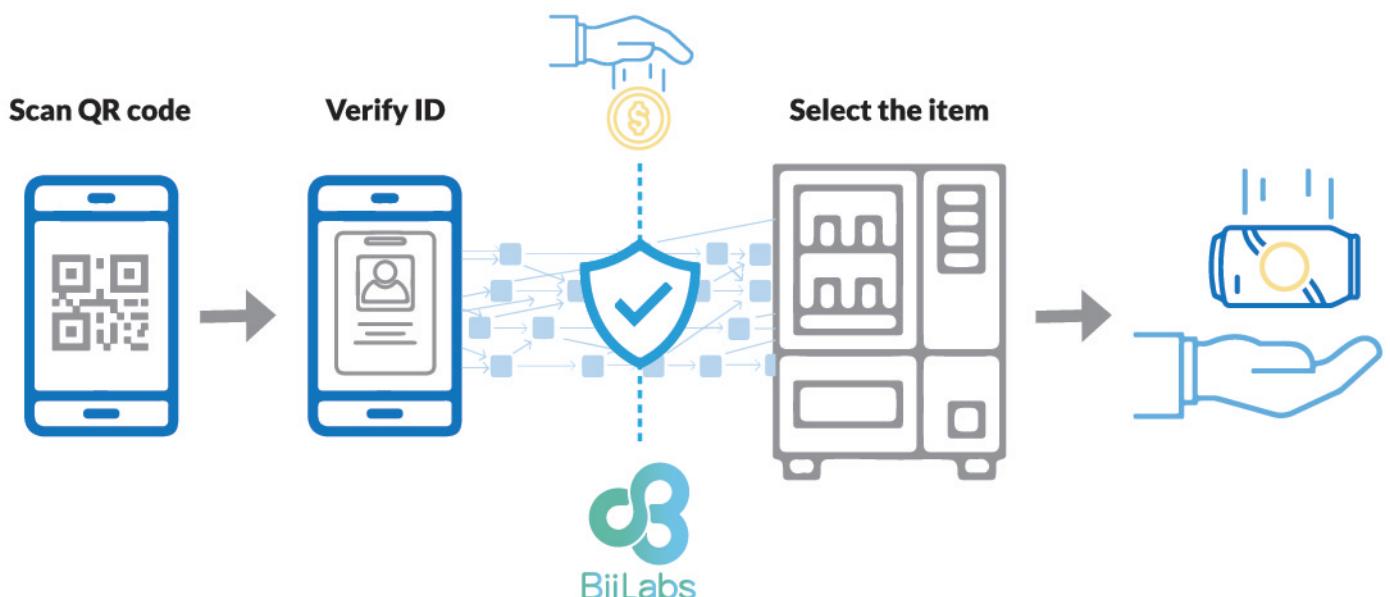
**Company** : Yallvend  
**Country** : Taiwan  
**Market Segment** : Retail  
**BiiLabs Product** : Alfred Series (API)

Yallvend has expertise in protocols of vending machine, coin changer and multiple kinds of unmanned business machine. Its global first Vending Upgrade Kit provides the perfect solution to upgrade traditional vending machines with the latest digital mobile payment.

By implementing BiiLabs' DID technology into the module, users are able to process the ID authentication by their own mobiles. It unifies the secure ID authentication system, which can be applied in the vending machines that sell products with age limits, as well as upgrading existing systems.

### How BiiLabs benefits our partner:

- Easy to process ID authentication by their own mobiles
- Generate time-stamped electronic receipt with permanently recorded tamper-proof data
- Enable cost-effective ID authentication for upgrading existing vending system without redesign



**Company** : TransIOT, a FOXCONN company  
**Country** : Taiwan  
**Market Segment** : Insurance  
**BiiLabs Product** : Alfred Series (API)

**TRANS IOT**

創星物聯科技股份有限公司

As the expertise in IoT telematics, TransIOT's solution utilizes the vehicle's onboard diagnostics (OBD-II) to acquire various vehicle data. The volume of data from vehicles can serve as the foundation to various other automotive-related applications. Ensuring the authenticity and security of the data is where BiiLabs distributed ledger technology (DLT) comes in. It encodes the acquired data and stores them on Tangle, a peer-to-peer distributed (decentralized) database. This makes the data extremely safe or immutable and the Blockchain-DLT UBI (Usage Based Insurance) contracts offer other benefits such as claim process automation; reliable and transparent payout mechanism and enforcement of contract-specific rules.

## How BiiLabs benefits our partner:

- Better transparency of the insurance evaluation process
- Enhanced personal data security with fewer risks of tampering
- Improved traceability by unique hash values to avoid insurance fraud
- Increased claim/ compensation efficiency through machine-to-machine (M2M) mechanism
- Reduced costs by removing human intervention
- Encourage safe driving and reduce insurer repair costs



Distributed ledger technology (DLT), our core technology, supports digitization of all industries and solves issues related to customers' reliability, security, growth potential, and efficiency.



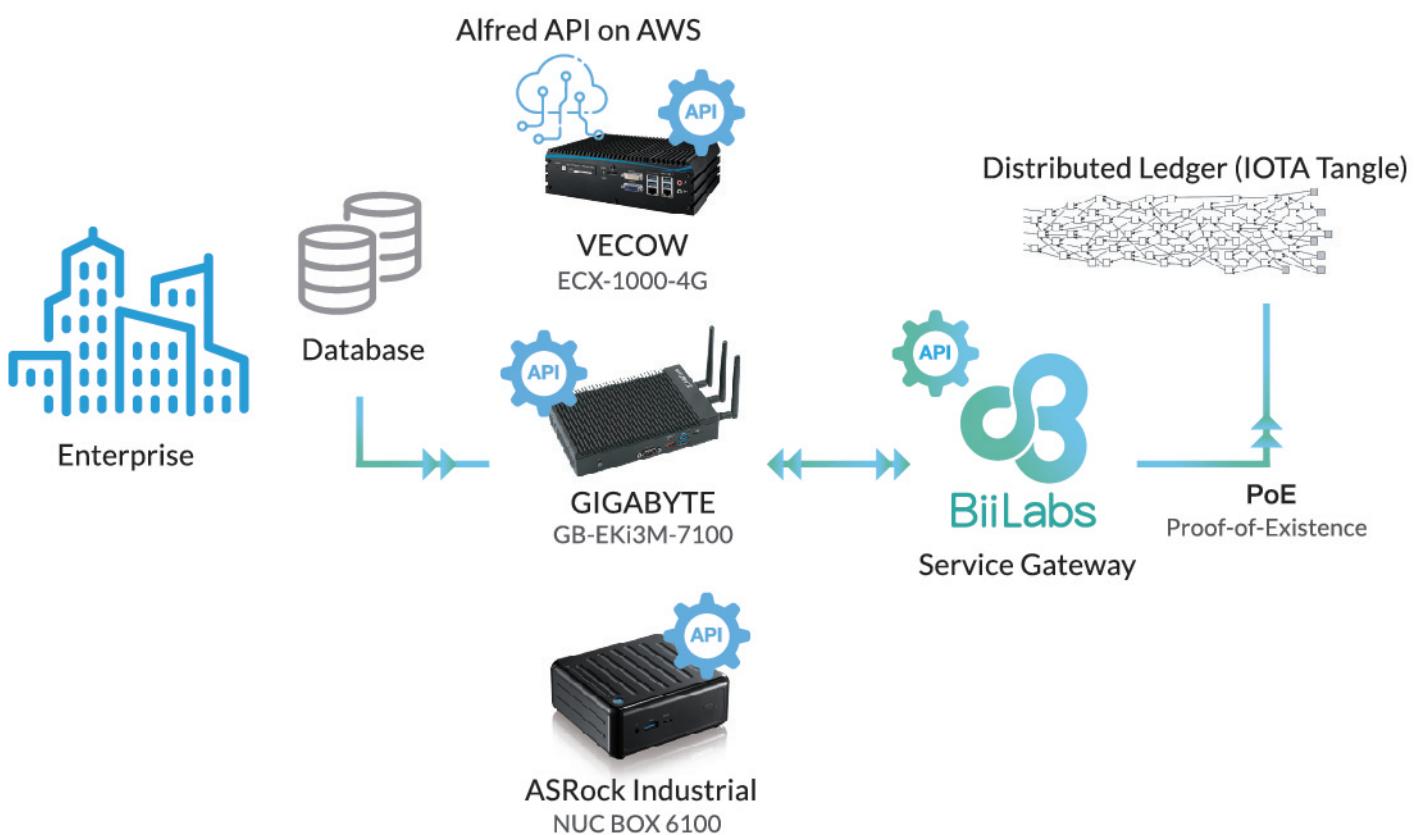
## Alfred Series

Alfred Series is a software tool for corporations to establish Proof-of-Existence (PoE). Alfred API abstracts the complexity over several crucial blockchain and decentralized components which differentiate existing hybrid solutions. Via the distributed ledger technology, the API can record personal or corporate IoT (Claim) data onto IOTA Tangle with time stamp in real time. The "Claim" or PoE data will be forever recorded in distributed ledgers.



## Sentinel Appliance

Extended from Alfred API, BiiLabs Sentinel Appliance make it simple to deploy software instances through virtualization, which enables industrial computers with specific computing requirements to operate Alfred API based services on various vertical scenarios. Sentinel Appliance integrate hardware protected trusted execution environment (TEE) to make sure all data is trusted.



# Products

## BiiCert



BiiCert is a certification SaaS service that provides a efficient, immutable and traceable way to issue, distribute and verify certificates for both credentials and digital copy of documents applications. Based on blockchain technology and incorporates TangleID, VC(verifiable claims) standards, it is aimed to build up a world without fake personal information by removing frictions during introducing trust web through BiiCert utility and APIs for education business.

## BiiTrail



BiiTrail is a end-to-end traceability solution for small and medium enterprises (SME) that provides customizable checkpoints, rich media format support and hassle free web frontend. It is a shortcut for those enterprises to share the traceability power of blockchain without big IT investment effort. BiiTrail combines blockchain technology, quality management essentials and off-chain storage to build up a affordable traceability service.

## BiiMe

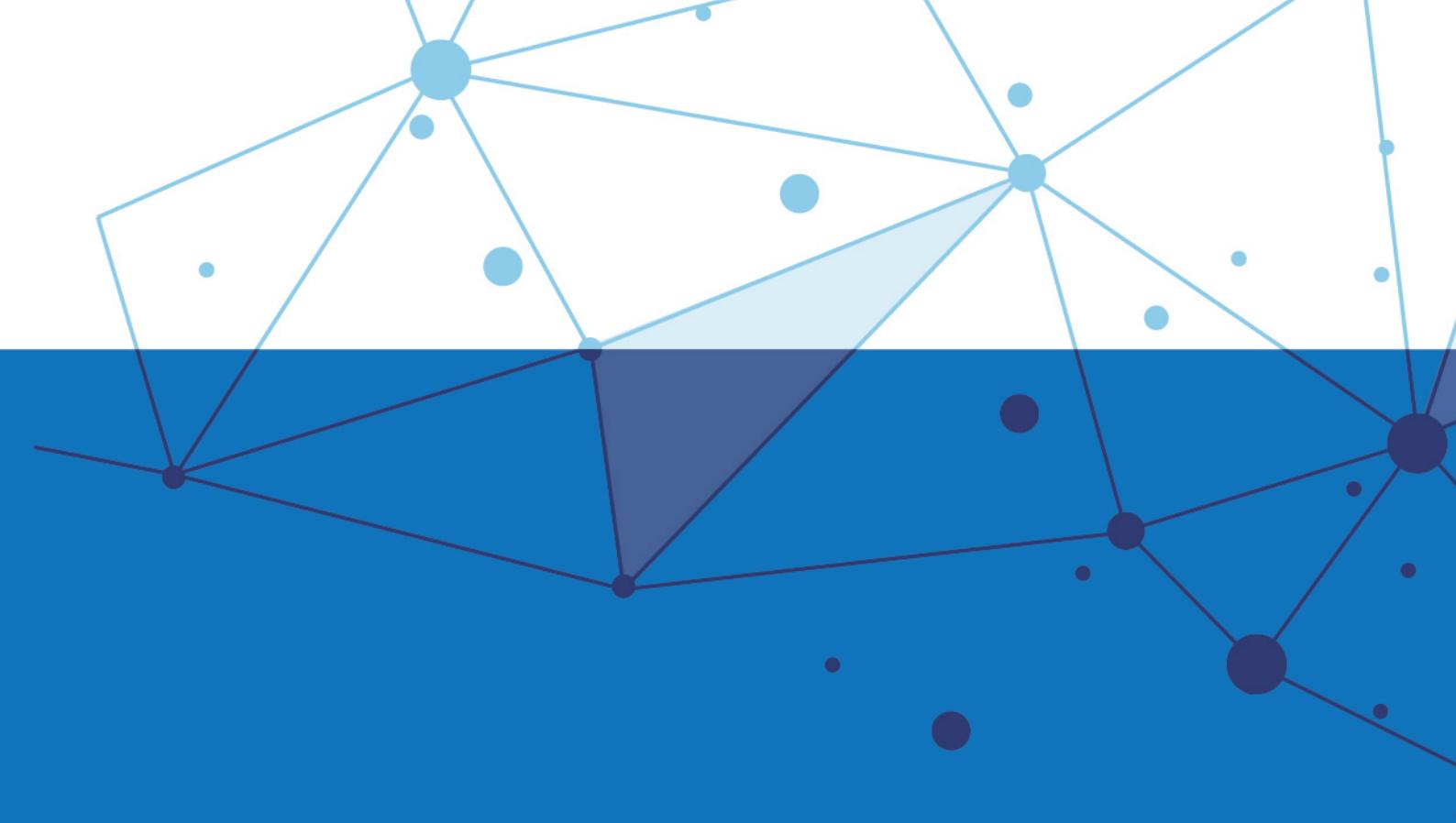
BiiMe is a membership management SaaS service that provides off-shelf, integrable and extendable DIDs(Decentralized Identifiers) building blocks to alliance bonus point, coupon, credentials management applications, solving multi entities user authentication and authorization to expend federal business scale. BiiMe is based-on BiiLabs' open source project: TangleID plus extensive interfaces to link external KYC provider, create identity, attach bonus and verify/consume offers.



## DropKit

DropKit is a distributed database service with some notable blockchain features such as immutability, traceability and decentralization while keeping distributed database capabilities including scalability, performance and controllability for audit trail applications with chronological record security requirements. It is to solve trust issues of the silo database and to improve blockchain performance that enable small and medium enterprises (SME) to deal with audit trail with dramatically IT cost reduction.





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