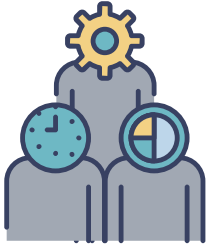# BiiLabs

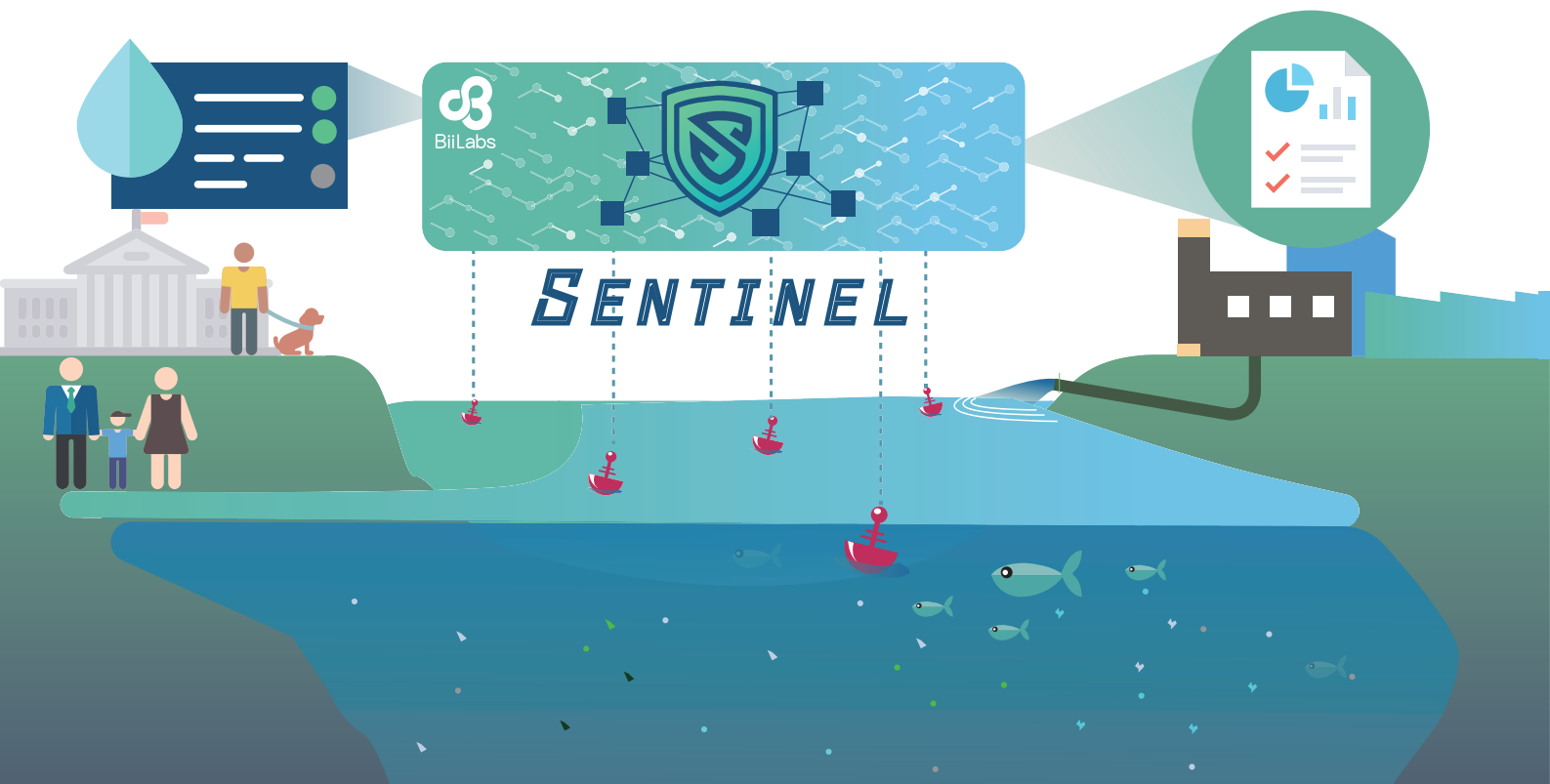**Blockchain Industry & Innovation Labs**
Company Profile

BiiLabs is dedicated to developing the distributed ledger technology
to overcome the challenges in the Internet of Everything era,
including smart cities, energy management. Our 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.

Introduction

Service

Along with the Machine Economy, over 5 trillion transactions and microtransactions will be taking place on a daily base by the year 2020. BiiLabs aims to provide the distributed ledger technology (DLT) as the next-generation growing engine for all industries.

Distributed Ledger Technology Research

BiiLabs is one of the pioneers of distributed ledger technology (DLT) developers with smart contract engine on top of the DAG-based system which are just plain regular legal contracts, except their terms are stored on the distributed ledger and they are machine-readable, enabling their automatic verification by all peers.

Customized API

Based on DLT, BiiLabs is delivering the service including digital ID, ledger and settlement, micro-payment, digital forensic and many more, by providing and securing the sandbox for testing. That said, we have the ability to provide customized API.

Transaction Security

With the distributed system, all data would be cryptographically secured on multiple nodes so that even sensitive data can be transmitted safely and soundly in a quantum-proof system.

Scalability in Business

BiiLabs enables micro- and nano-transactions to be recorded with the application of distributed ledger technology and provides developers with an innovative set of tools for IoT applications.

Core Technology

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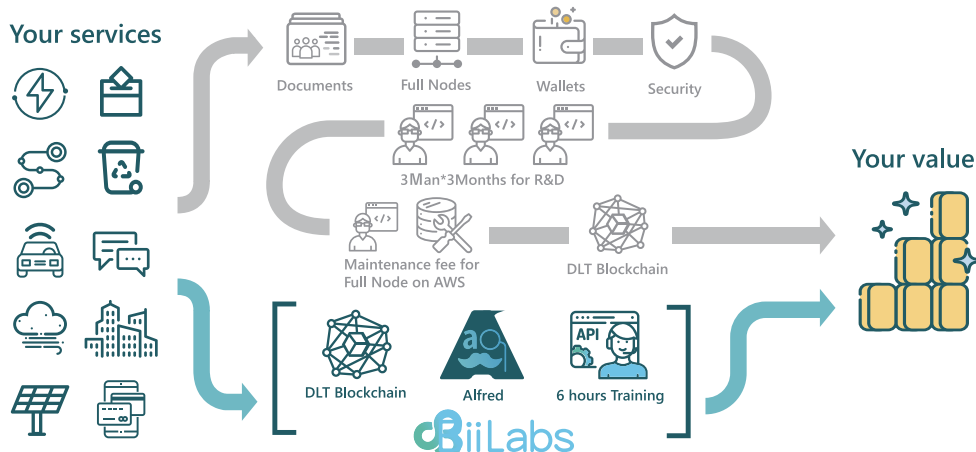
Distributed ledger technology (DLT)

The definition of blockchain by the World Bank is one type of distributed ledger technology (DLT) that synchronizes and shares all transactions among devices. By storing data in each block, connecting the block like a chain, distributing and recording all the data. It is impossible to tamper data. The feature of blockchain is the trust, the mechanism works and the trust is built in the ecosystem.

DAG technology and Tangle

Tangle technology uses a new decentralized ledger technology called Directed Acyclic Graph (DAG), which is different from the system adopted by Bitcoin and Ethereum. DAG technology records a series of transactions in accordance with topological sorting. Samewise, it is impossible to tamper the data recorded on DAG.

Our services can simplify the complicated operating procedures. You can easily reduce the processing costs.

Your services

Documents Full Nodes Wallets Security

3Man*3Months for R&D

Maintenance fee for Full Node on AWS

DLT Blockchain

Your value

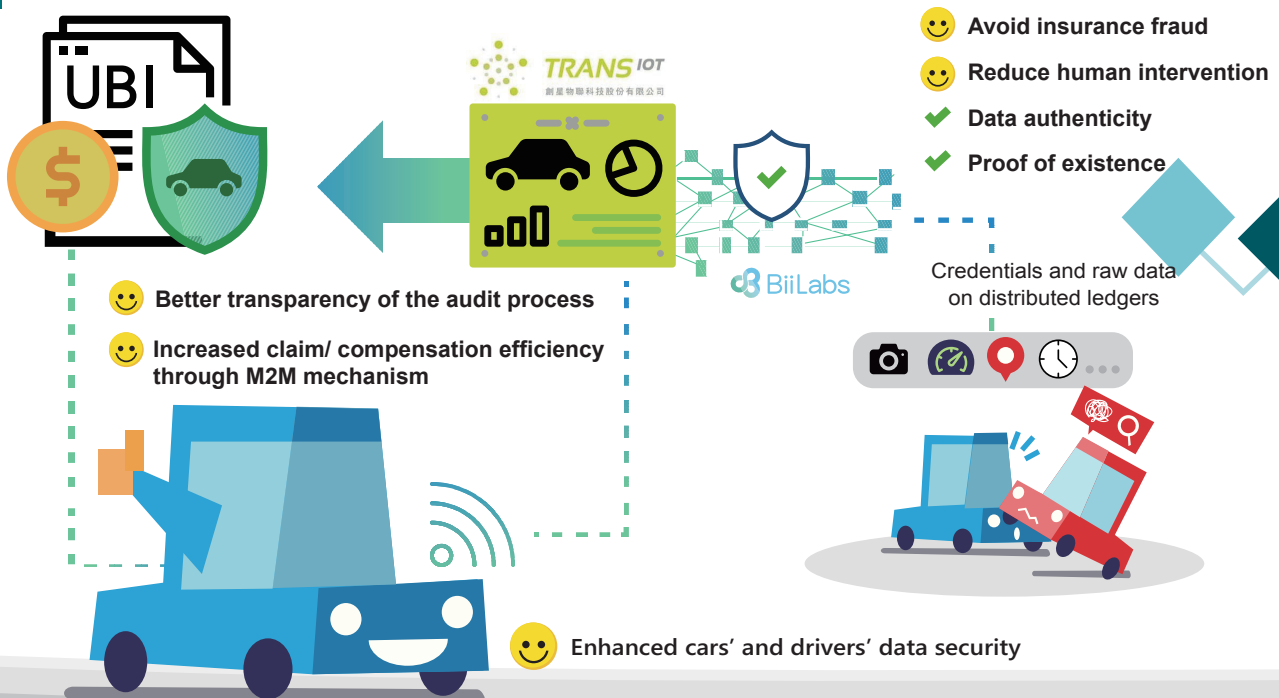DLT Blockchain   Alfred   6 hours Training

BiiLabs

TangleID: Digital Identity

TangleID is a system that enables users to self-manage their personal information. This system is built on a distributed ledger, DAG, the personal digital identity is encrypted and connected with off-chain data storage. Each digital identity stores a hash of data files such as Google Cloud, Azure, AWS, Dropbox, so you can check if the content that is displayed by its hash.

This system uses the mechanism of M2M, it is possible to automatically update the digital identity itself. Also, you can temporarily grant read/write access to specific files to others. Because this system is connected to the Tangle network, the digital identity on TangleID can also manage digital assets such as virtual currency and tokenized assets.

Distributed ledger technology and energy industry

Distributed ledger technology has features of efficiency, transparency. In the energy industry, it is an urgent matter to develop better technologies for recording microtransactions and processing micropayments, and decentralized ledger technology can be said to be the best technology to solve them. In recent years, the number of new enterprises entering the energy market is increasing,, and companies with excellent system development technology are working on electricity trading business and others.

UBI

TRANS IOT
創星物聯科技股份有限公司

BiiLabs

Avoid insurance fraud

Reduce human intervention

Data authenticity

Proof of existence

Credentials and raw data on distributed ledgers

Better transparency of the audit process

Increased claim/ compensation efficiency through M2M mechanism

Enhanced cars' and drivers' data security

Products and Services

BiiLabs redefines "trusted economy" through distributed ledger technology.

EVOLVE YOUR BUSINESS WITH BLOCKCHAIN

Secure data and build up a trustful IoT system with DLT

Energy

Elements of smart cities include smart charging, smart building, and smart mobility. However, massive facilities come with enormous costs of centralization, whether energy generation or transmission. Thus, the concept of smart energy Community is to meet self-sufficiency by the incentive called smart grids, a type of cryptocurrency, and eventually to shape into an innovative business model.

Digital Identity

Digital Identity, application of distributed ledger technology, is greatly suitable for online voting, medical record management, data exchange between cities, and so on.Centralization in digital identity hardly works in the future with the alarming awareness of self-sovereignty. As a result, DLT would be the best alternative technology to realize online voting, medical record management, and inter-city data exchanges.
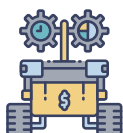
Supply Chain

Supply chain management emphasizes on the transparency, authorized participations and immutable records. Therefore, DLT gets its role here to strike the trust balances in consumers, producers, transporters, retail and public institutions in the contribution of the integration of global trades.

Data Market

DLT could achieve the need of self-sovereignty, which indicates that users could control their personal data as well as keep the traceability of private information at will. We can foresee that there would be a new marketplace of data.

Machine Economy

A revolutionary peer-to-peer network gets rid of transaction fees and goes further into a machine-to-machine world. In other words, machines with independent wallets could automatically make the transaction with non-humans, which means a new machine-centered business model is emerging.

Certificates

Certificates, representatives proving an individual, have a big issue on reliability and blockchain technology can make good use of distributed ledger to create the trust ecosystem in certificates, not to mention more efficient management in digital forms.

Partners

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台灣人工智慧實驗室

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CARTESI

GIGABYTE™

IOTA EVANGELIST NETWORK

IOTA

insto

nextDrive

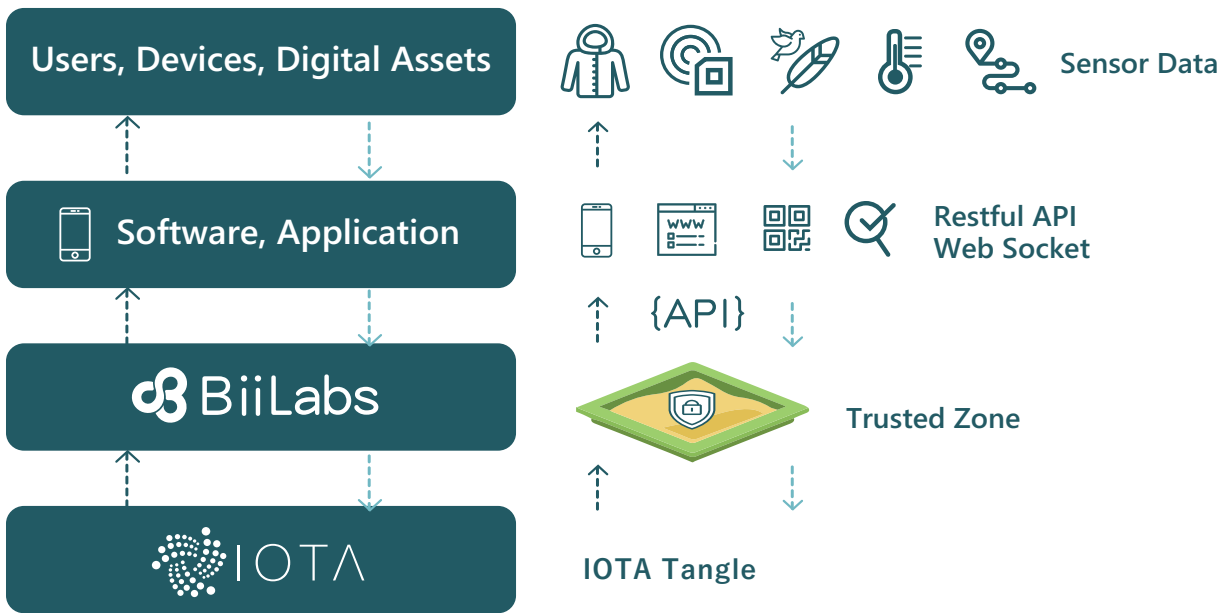NCKU DLT LAB

SMART OPTZ

TWO

TRANS IOT

Users, Devices, Digital Assets		Sensor Data
Software, Application		Restful API Web Socket
BiiLabs	{API}	
IOTA	Trusted Zone	
	IOTA Tangle	

aws partner network

Standard

Technology Partner

contact us

@BiiLabsRocks #BiiLabs

Facebook "#BiiLabs"

service@biilabs.io

BiiLabs.io