Efforts of DPP using the Tapyrus blockchain and problem-solving through individual contribution actions.

October 8, 2024 Teruaki MURAKAMI



Self Introduction

- Teruaki Murakami, 40 years old
- COO of Chaintope Inc.
- ▶ Web Engineer → Sales → Business Integration
- Blockchain projects (non-crypto assets)
 - Corporate coins and payment services
 - Traceability, Circular Economy
 - Environmental value visualization, Government DX,
 Real Estate, etc.
- Born and raised in Fukuoka





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Company Introduction

Company Name

Chaintope Inc.

Establishment Date

December 27, 2016

Representative

CEO Hideki Shoda

Head Office

576-14 B211, Koubukuro, Iizuka City, Fukuoka

Business Activities

- Blockchain foundational technology development
- Blockchain implementation
- Custom application development related to blockchain
- Related consulting services

Awards

Selected company for "J-Startup KYUSHU" in 2021

Excellence Award at the "20th Business Planning Clinic & Contest/BPCC20" hosted by the MIT Venture Forum Japan

Publication







"New Economy Opened by Blockchain"







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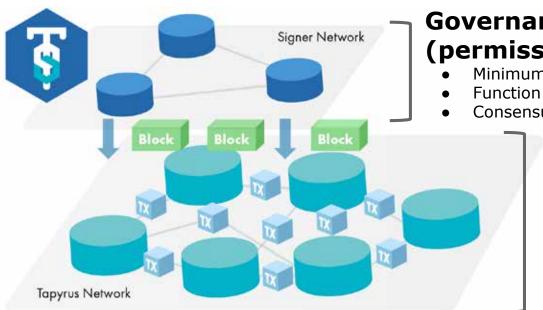






Tapyrus Blockchain

- Our self-developed Tapyrus blockchain features a two-layer structure.
- Governance Layer and Ledger Layer, enabling transparency suitable for enterprise use.



Governance Layer (permissioned):

- Minimum number of nodes: 3
- Function: Block creation
- Consensus Algorithm: Multi-signature

Ledger Layer (permissionless):

- Minimum number of nodes: 1 (full node)
- Functions: Transaction creation, Block verification, Block data retention





Philosophy

Purpose

Bringing
Trust to the
Data-Driven
Society

Customer Value

Enhancing Data
Transparency
and Driving
Transformation

Slogan

Implementing Blockchain in Society





Business Domains

Traceability

Sustainability

Trust Services

Digital Assets







Traceability

1

Tracking People, Products, and Events

Sustainability

1

Contribution to environmental value

Trust Services



Proof of circulation

Digital Assets



Promotion of behavioral change



Here are two initiatives:

DPP (Digital Product Passport)

ChaintopeGreeners



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DPP (Digital Product Passport)



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Project Examples

Case Example: Major Chemical Manufacturer Chemical Recycling and DPP

Case Example: Uniform Sales Company Medical Wear and DPP

Case Example: Elementary and Junior High Schools in lizuka City

PET Bottle Cap Recycling Project





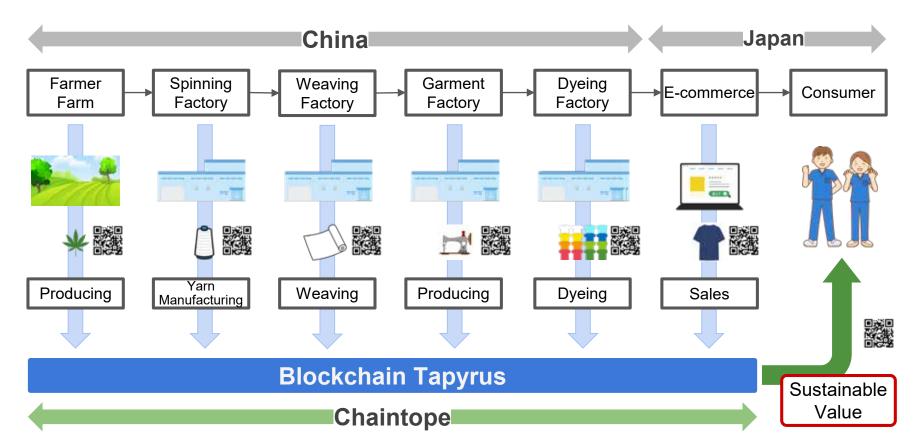
Case Example: Medical Wear and DPP







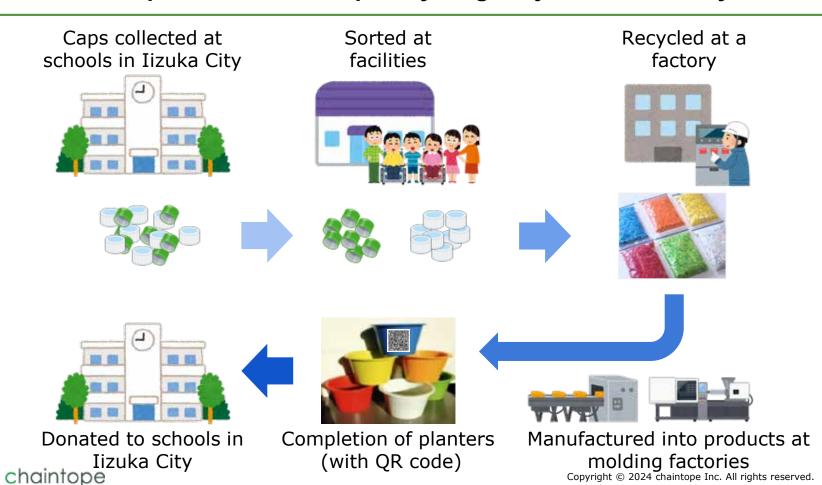
Case Example: Medical Wear and DPP







Case Example: PET Bottle Cap Recycling Project in lizuka City Schools

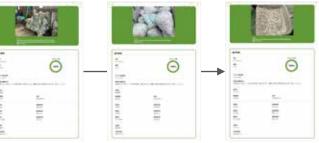




Case Example: PET Bottle Cap Recycling Project in lizuka City Schools











※Includes sample data.







- 1. Traceability from Resources to Products
- 1. Proof of Environmental Value

1. Activities of Individuals and Companies and Their Evidence

Ensuring the transparency and verifiability of the above, making them traceable.



ChaintopeGreeners





Solving Corporate and Societal Issues Through Individual Contribution Actions.

How it Works:

- Record actions as evidence and issue tokens.
- Visualize the contributions made (e.g., safety, community, etc.).
- Provide feedback on contribution actions.
- Promote actions through the above cycle.

Issues Addressed:

- Cultural heritage preservation.
- Human resource development.
- Building a sustainable society.





concrete example







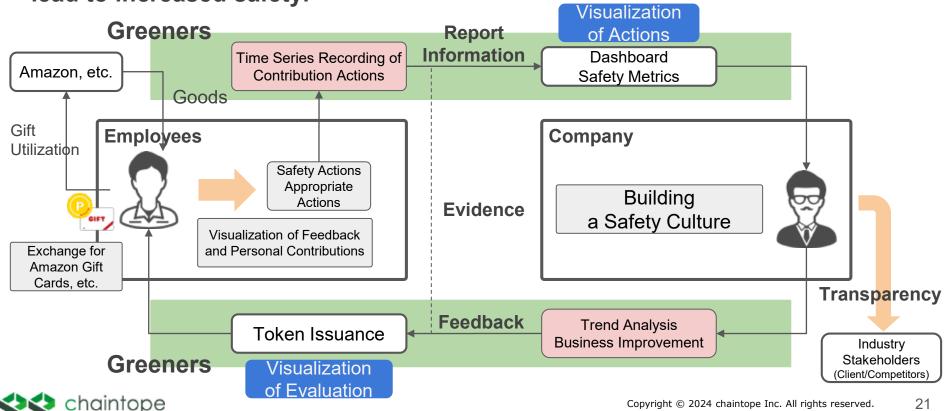






Utilization for Safety Culture

Companies conduct risk management, and as a result, individual activities lead to increased safety.





Case Example

Case Example of Evaluating Safety Contribution Actions

Adoption is being considered in industries such as shipping and construction.



Case Example of Evaluating Health and Environmental Contribution Actions

The contribution to the environment is visualized through actions such as employees walking to work instead of using cars or public transportation.





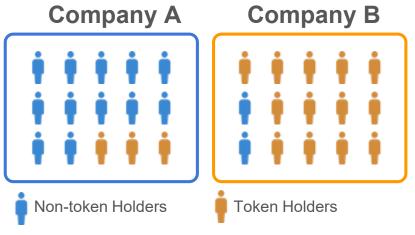




The Society Greeners Aims to Achieve

The evaluation of individuals who contribute is visualized through tokens. The more individuals holding tokens, the more highly the company is regarded by society, leading to a society where individuals who contribute are rewarded.

A society where those who work diligently are recognized and valued.



- Company B is recognized by society
- Company B improves the treatment of token holders.
- Token holders from Company B are also favored by other companies (e.g., when transferring to Company A).

