

# MoCo 2024

T O K Y O

19 February 2024 | AWS Tokyo

## Circular Economy Implementation Roadmap

Use Case: Cross-Industry Interoperable  
Global Battery Passport System



# Introduction

In the face of escalating environmental challenges, industry leaders worldwide confront an urgent mandate: to slash emissions and curtail environmental impact in their business processes and value chains. This imperative comes amid a growing demand for a **circular economy**—a sustainability-first paradigm rooted in reuse and waste reduction principles.

Modern supply chains pose a formidable challenge. These networks, comprising hundreds or thousands of stakeholders, operate within fragmented silos, hindering the scalability of shared solutions. Enterprises today seek innovative solutions to bridge these gaps. Yet, current centralized/Web2 systems prove inadequate in fostering the interoperability needed for a successful transition.



## Why Web3 Implementation for the GBP?

- Reduces the cost of trust & data sharing between intended recipients.
- Facilitates standardized and verifiable access and coordination between disparate organizations.
- Enables selective disclosure, giving entities the ability to choose which data to share in transactions
- Ensures permissioned traceability of tamper-evident battery data at scale.
- Unlocks easy horizontal expansion, enabling seamless addition of new use cases and stakeholders.



This is where the transformative potential of Web3 technology comes into play. Leveraging shared standards in a privacy-preserving Web3 framework, industry players can unlock trusted identities and verifiable transactions for cross-industry interoperability, ensuring that data moves seamlessly between verifiable sources and intended recipients for end-to-end permissioned traceability. Through initiatives like the **Global Battery Passport (GBP)**, **MOBI and its members** seek to catalyze a Web3-enabled circular economy in value

chains worldwide. On 19 February 2024, MOBI hosted MoCoTokyo in collaboration with **Amazon Web Services (AWS)**, offering a one-of-a-kind summit for industry leaders to network; share solutions; and collectively explore critical challenges and opportunities at the forefront of the circular economy transition.

# Colloquium Highlights

The day unfolded with a wealth of industry insights and buzzed with discussions surrounding the potential for a Web3-enabled roadmap to a circular economy. Presentations from key industry players delved into diverse use cases such as decentralized energy systems and electric vehicles, all underscored by the imperative of integrating Web3 technologies for the decentralized implementation of the Global Battery Passport (GBP).

For attendees, it was an unprecedented opportunity to hear about emerging solutions, discuss the ever-evolving regulatory landscape, and explore firsthand the true value proposition of leveraging Web3 for enterprise applications.

Throughout the day, panels and presentations showcased the concerted efforts of MOBI and its partners, particularly the **Circular Economy and Global Battery Passport (CE-GBP) Working Group**. Attendees gained valuable insights into the group's endeavors to establish cross-industry interoperability standards and lay the groundwork for circularity within the global battery value chain, including plans to develop a Minimum Viable Product for the GBP in 2024.



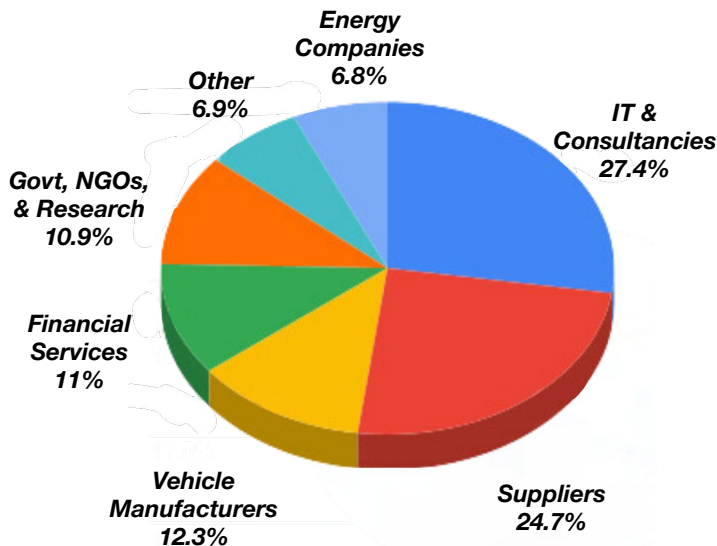
## Speaker Topics Included:

- Battery Circular Economy Network for Sustainability
- Complex Identity and Verifiable Transactions for Web3 Interoperability and Digital Commerce
- Achieving Carbon Neutrality in the Mobility Sector
- Accelerating Decentralized Energy with Web3 Technologies
- State of MOBI Web3 Infrastructure (Citopia and ITN)
- Decentralized Traceability to Drive Circularity & Sustainability

# MoCoTokyo Industry Profile

MOBI is a **global nonprofit alliance** of the world's largest vehicle manufacturers, along with startups, NGOs, industry associations, transit agencies, insurers, toll road providers, smart city leaders, financial institutions, and tech companies.

MoCoTokyo hosted representatives from several leading technology companies, along with vehicle manufacturers and suppliers, financial institutions, research institutes, and NGOs. The MoCoTokyo lineup featured 15 speakers from 10 leading global organizations. The event was attended by 156 individuals from 73 organizations worldwide. See the industry makeup below!



“It was a wonderful opportunity to gain insights into MOBI's efforts toward creating a marketplace for cross-industry coordination and data sharing. Through this experience, I learned that **Web3 technologies hold promise as a viable solution** for scalable enterprise endeavors.”

Tsuyoshi Nishi,  
**Kawasaki**

“Attending MoCoTokyo was a very fulfilling experience. In particular, I learned a lot from being able to hear from a variety of people working on various initiatives related to battery passports all at once.”

We believe **MOBI's collaborative approach to driving enterprise adoption is critical** and look forward to the expansion of their continued efforts.”

Kobayashi Atsushi,  
**Nexchain**

“At MoCoTokyo, I had the privilege of hearing **diverse perspectives on the future of mobility and battery passports.**”

Hiroshi Okamoto,  
**TEPCO Power Grid**

“MoCoTokyo was **one of the most informative sessions** I have ever attended.”

**OEM Participant**

# Speaker Roster

## **B**

Berg, Roger - DENSO

## **C**

Challa, Sri - Infosys

## **F**

Freund, Andreas - MOBI

Fukao, Sanshiro - ITOCHU Intl

## **I**

Iwata, Kazuyuki - Honda R&D Co

## **K**

Koebel, Christian - Honda R&D  
Europe

Kumar, Amit - AWS

Kubo, Masaaki - Nissan

## **N**

Nair, Sanal J. - Infosys

Narmat, Varsha - AWS

## **O**

Okamoto, Hiroshi - TEPCO Power  
Grid

## **R**

Rajbhandari, Rajat - MOBI

## **T**

Tada, Naosumi - ZF Japan

Tokeiji, Michitaka - Zeroboard

## **V**

Vo, Tram - MOBI



# Companies in Attendance

## **A**

AIOI Nissay Dowa Insurance  
Anritsu  
Asahi Kahei Corp.  
AUCNET  
Amazon Web Services (AWS)

## **B**

Baycurrent

## **C**

Connections Insights  
Connexx Systems Corp

## **D**

Deloitte  
DENSO

## **F**

Fujitsu  
Fuyo Auto Lease

## **G**

GS Yuasa Corporation

## **H**

Hakobune Corp  
HCCR KK  
Hero Motocorp  
HIOKI  
Hitachi  
Honda Motor  
Honda R&D  
Horiba

## **I**

Infosys  
ITOCHU Intl.  
ITOCHU Research

## **K**

Kandenko  
Kaula  
Kawasaki Heavy Industries  
Komatsu  
KPMG  
KRI Co Ltd.  
Kumamoto Prefecture Industrial  
Federation  
Kyocera

## **M**

Marubeni  
Mazda  
Meidensha  
Mitsubishi  
Mitsubishi UFJ Bank  
Mitsui Chemicals  
Mitsui Sumitomo Insurance  
MOBI

## **N**

Nagase and Co  
Nexchain  
Nikkei  
Nissan  
NTT Data

# Companies in Attendance

## **O**

Orient Corporation  
Osaka Soda Co

## **P**

Panasonic Holdings Co  
Plug and Play Japan  
PUES Corporation

## **S**

SBI Holdings  
SC-Abeam  
Schneider Electric Holdings Japan  
SCSK Co  
Settlemint  
Shimadzu Co  
Siemens KK  
Solera  
Sompo Japan  
Sony Group Co

## **T**

Team Taketombo  
TEPCO Power Grid  
The Newspaper Division of the  
Japan Electrical Manufacturers'  
Association  
Toshiba  
Toyokeizai  
Toyota  
Trade Log

## **U**

Upstream Security

## **V**

Vitesco

## **Y**

Yamaha Motor  
Yazaki Co

## **Z**

Zeroboard  
ZF Japan

