



ETHTerakoya

June–August 2021
Overview for the Workshop on
Establishing Blockchain Scalability Benchmarks

About ETH Terakoya

ETHTerakoya's Objectives



- Focus on blockchain industry- and technology-related areas and delves into issues concerning the use of blockchain as well as making proposals to the Ethereum Foundation.
- Establish standards for blockchain in the context of practical application from multiple perspectives, including business, technology, and law.
- Share knowledge broadly through hands-on workshops, based on the know-how gained in the working group.

Working group (Every other week, 6 sessions in total)

Technology

- Feasibility
- Current technical issues
- Approaches to solutions

Business & Law

- Challenges in the industry domain
- Bottlenecks in laws and regulations
- Delving into why we use blockchain

Open workshop

- Target participants (assumption)
Engineers and businesses that are or plan to be implementing a blockchain project
- The goal of the workshop
The participants will be able to prioritize by themselves based on the decision criteria used for whether or not to adopt blockchain

Working with the Ethereum Foundation and large corporations

- Work with the official members of the Ethereum Foundation, the world's largest community of blockchain development
- Hold meaningful discussions and share information in Japan and across the world, in cooperation with major and emerging blockchain enterprises in Japan
- Identify challenges in Ethereum/blockchain and provide feedback to the main Ethereum development community to make use of the technology while delving into issues in the industry

Organizer

COUGER

Supported by

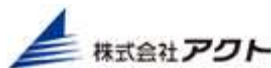


Participating companies

HITACHI
Inspire the Next

FUJITSU

Cybozu Labs



COMMONS



CollaboGate
DECENTRALIZED COLLABORATION PLATFORM

 **Cryptoeconomics Lab**

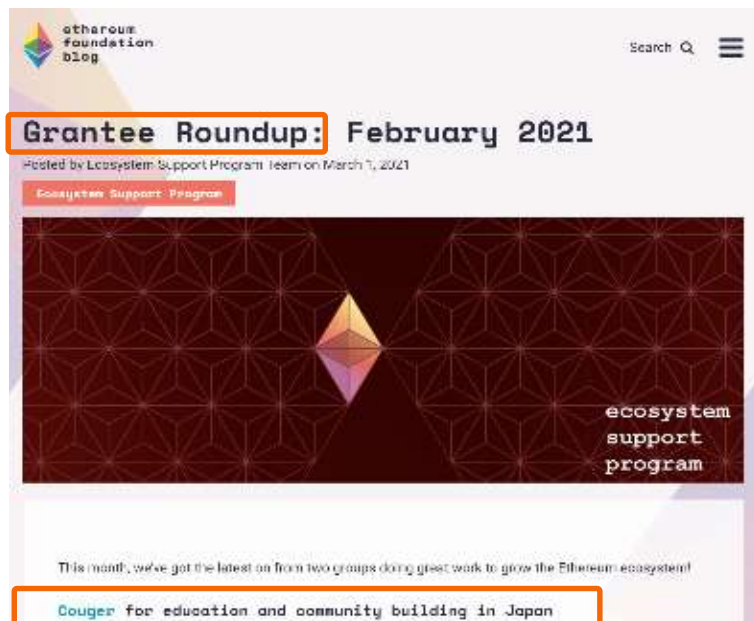
 **LayerX**

Hosted by Couger Inc. that has a close working relationship with the Ethereum Foundation and the Enterprise Ethereum Alliance



- Recognized by the Ethereum Foundation and received a grant. Our activities have been highly appreciated
- Our lead engineer Kazuaki Ishiguro is a representative of the Enterprise Ethereum Alliance (EEA) and has given presentations at many global events
- Moderated Asia's first Ethereum Conference "Ethereum in the Enterprise—Asia Pacific 2020"

<Well recognized grant recipient of the Ethereum Foundation>



<Strong presence in Enterprise Ethereum Alliance>



Past Activities

- Past activities include the use of blockchain technology in voting and a workshop focused on the technical aspects of Ethereum 2.0

Working Group 1: ID x Voting x Blockchain

- Ongoing since June 2020
- Open workshop was held on November 5, 2020



Working Group 2: Ethereum 2.0

- Ongoing since November 2020
- Hosted an open workshop on ETH 2.0 updates and scaling technology. Also joined by the creator of Ethereum, Vitalik Buterin, who made a speech



Today's Topic:
Establishing Blockchain Scalability Benchmarks

Issues and Objectives

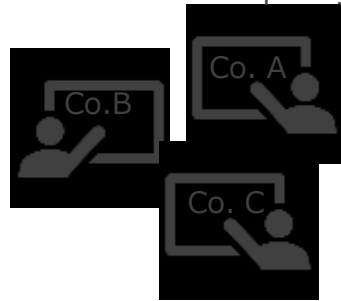
■ Issues

"There are no global benchmarks for measuring blockchain performance"

Each company sets its own metrics



Inconsistent evaluation criteria
= Prevents from comparing fairly



Currently, each company sets its own metrics to measure performance

It is unable to make fair comparison as there are cases like measuring transactions with empty data and presenting the maximum value seen for a moment

■ Objectives

"Establish the performance metrics, which will be the Ethereum's official metrics"

Establish Metrics for practical use



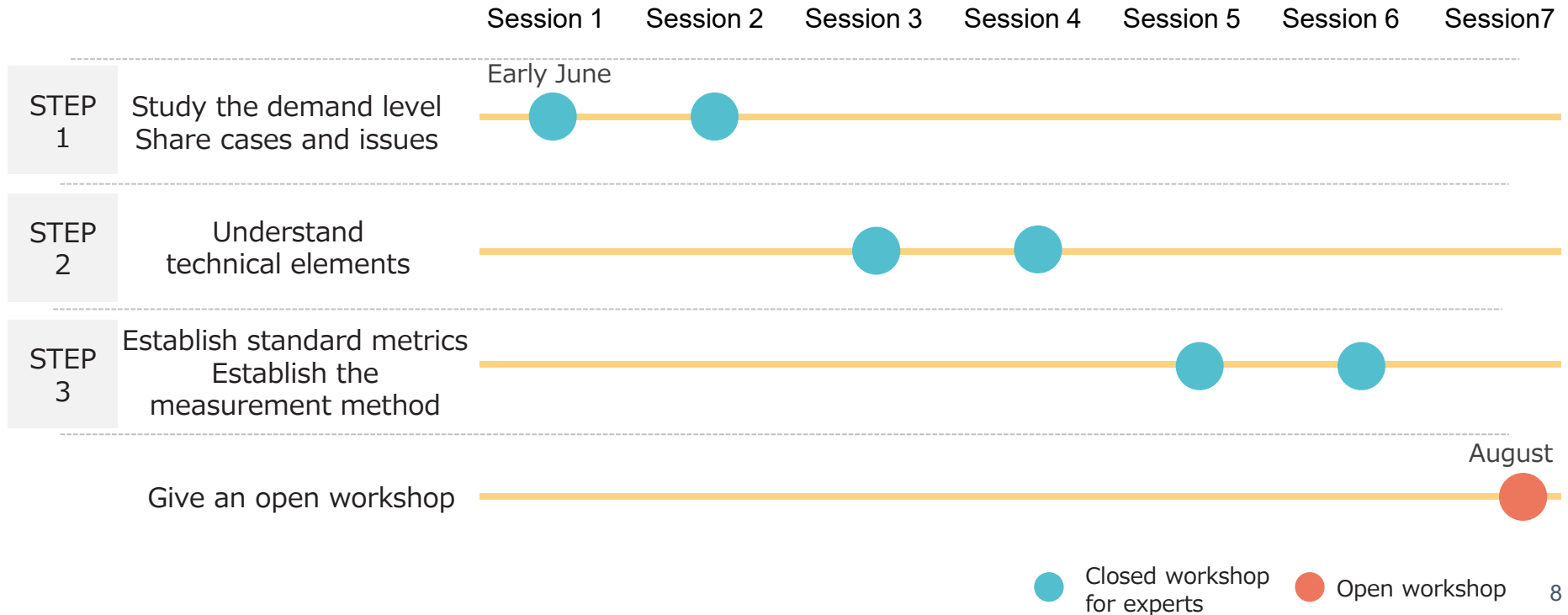
Allow users to look up and compare the performance



Companies that are users and developers discuss "practical" performance requirements and establish appropriate metrics

Schedule

- Bi-weekly workshop sessions for experts only will be held from the end of May, and an open workshop will be held in August



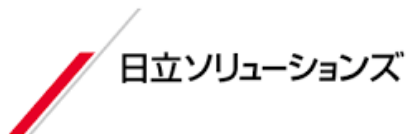
Activities

- Based on the areas of expertise, each participating company will present its activities related to one of the initiatives

		Activities
STEP 1	Study the demand level Share cases and issues	<ul style="list-style-type: none">■ Share project examples, issues, and the demand level of improving performance measurement for specific products or use cases
STEP 2	Understand technical elements	<ul style="list-style-type: none">■ Introduce technical elements that help improve performance measurement
STEP 3	Establish standard metrics Establish the measurement method	<ul style="list-style-type: none">■ Have discussions on metrics based on STEP1■ Establish standard metrics and select measurement tools/software■ Measure performance
	Give an open workshop	<ul style="list-style-type: none">■ Present our activities above (STEP 1–3) at the open workshop

Participating Companies

- Participating companies of our working group are as follows:



Contact Us



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