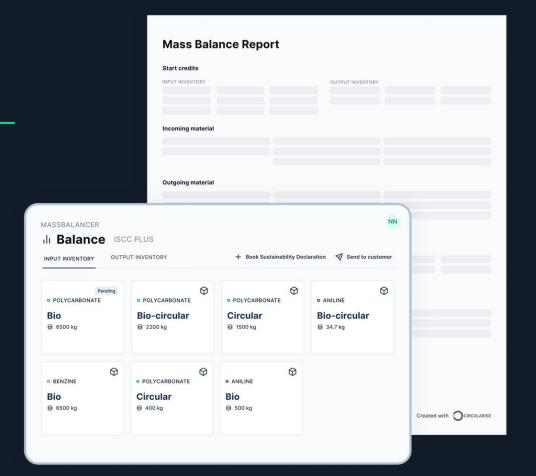


### MassBalancer

Smart and secure bookkeeping software for ISCC Plus certification

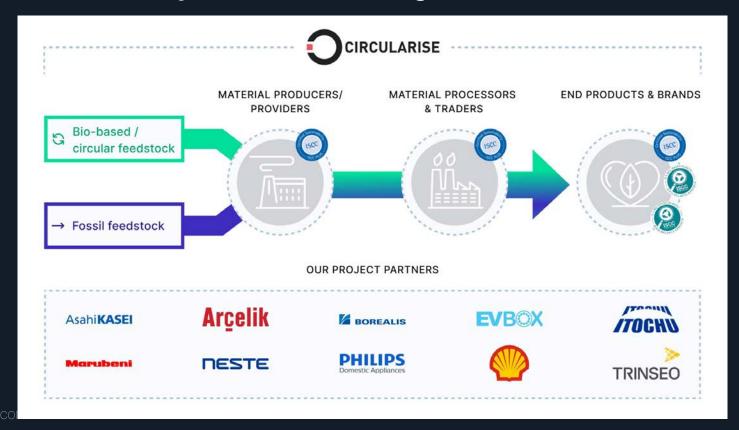
ISCC Event – Opportunities of sustainability certification in Japan

12 October 2022



### **PILOT PROJECT**

# **Pilot: Sustainability Certification using Blockchain**



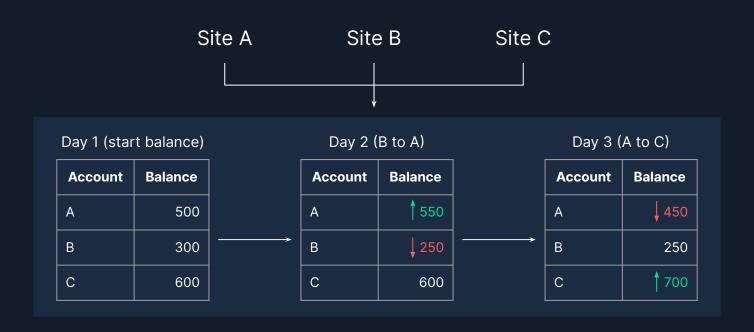
### MASS BALANCE BOOKKEEPING

# **Challenges & Opportunities**





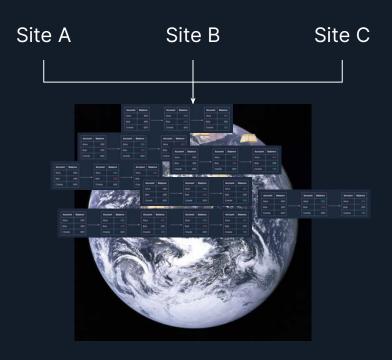
# Error/fraud > Verify correctness of data using a public blockchain





### BENEFITS OF BLOCKCHAIN BASED MASS BALANCING

# Error/fraud > Verify correctness of data using a public blockchain





# Error/fraud > Verify correctness of data using a public blockchain





# Error/fraud > Verify correctness of data using a public blockchain

### What Smart Contract can do:

- Double spend prevention
- Only handle input/output materials according to certification
- Use of correct conversion factors

```
Site A
                 Site B
                                               Site C
                         contract MetaCoin {
                          mapping (address => uint) balances;
                           function MetaCoin() {
                             balances[tx.origin] = 10000;
                          function sendCoin(address receiver, uint amount) returns(bool sufficient) {
                            if (balances[msg.sender] < amount) return false;</pre>
                            balances[msq.sender] -= amount;
                            balances[receiver] += amount:
                            return true:
                           function getBalance(address addr) returns(uint) {
                             return balances[addr];
```



### MASS BALANCE BOOKKEEPING

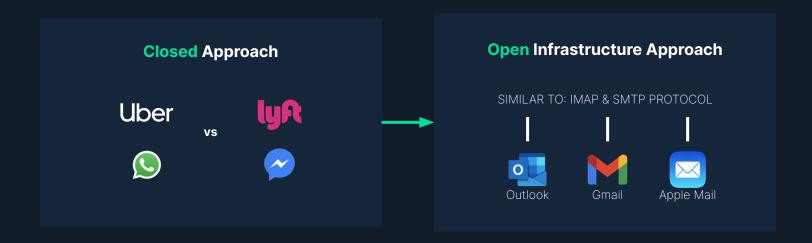
# **Challenges & Opportunities**





### BENEFITS OF BLOCKCHAIN BASED MASS BALANCING

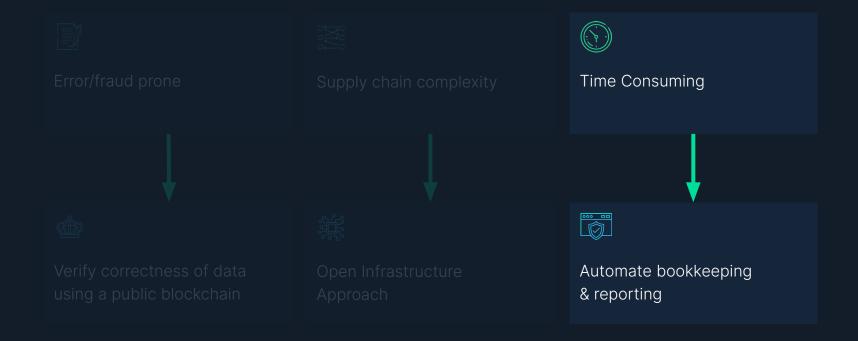
# **Supply chain complexity > Open Infrastructure Approach**



Enabled by a shared, public blockchain acting as the single source of truth

### MASS BALANCE BOOKKEEPING

# **Challenges & Opportunities**





# MassBalancer is a bookkeeping software for mass balance certifications

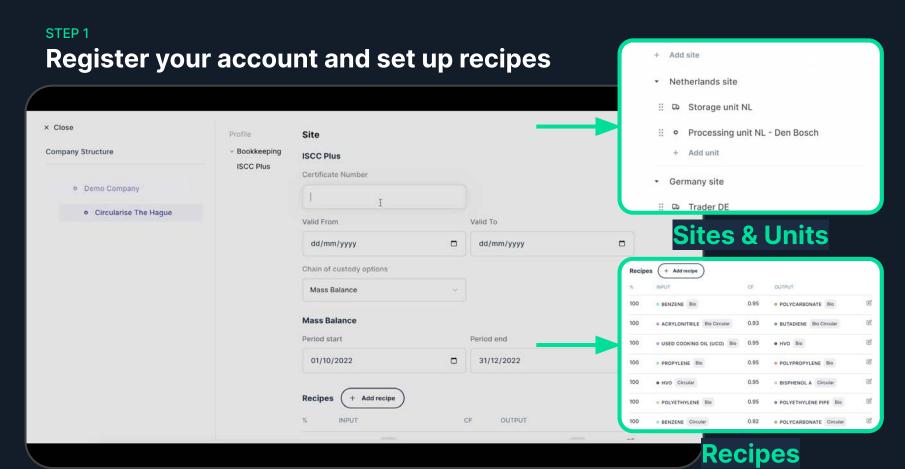
(starting with ISCC Plus)



### **MASSBALANCER**

# Set up a scalable mass balance bookkeeping in four easy steps

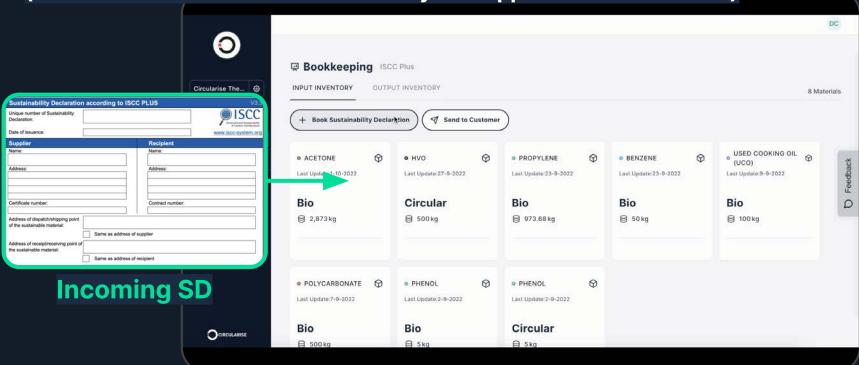
- Register your account and set up recipes
- (Automatically) book incoming Sustainability Declarations
- 3 Allocate balances and generate outgoing Sustainability Declarations
- Generate quarterly & annual reports with unit-level granularity





### STEP 2

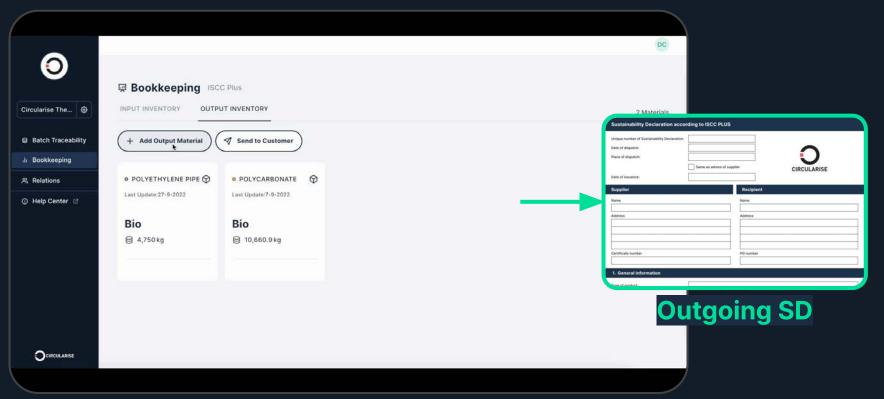
# **Book incoming Sustainability Declarations**(automatic from unit to unit or in case your supplier uses Circularise)





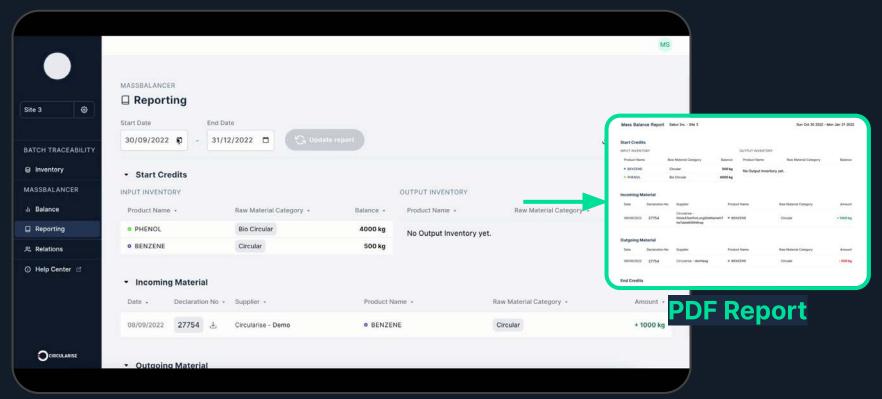
### STEP 3

# Allocate balances and generate outgoing Sustainability Declarations



### STEP 4

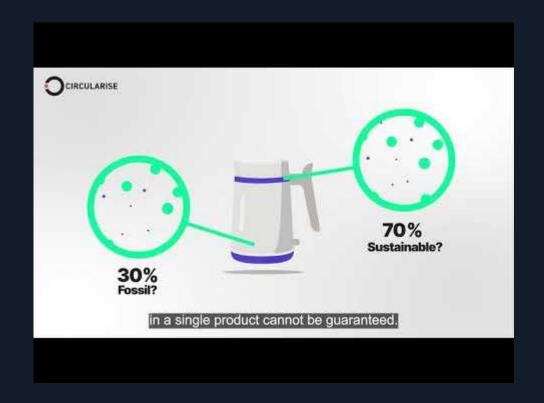
# Generate quarterly & annual reports with unit-level granularity





### **PILOT VIDEO**

# **Pilot: Sustainability Certification using Blockchain**







# Contact us to start using **MassBalancer**

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