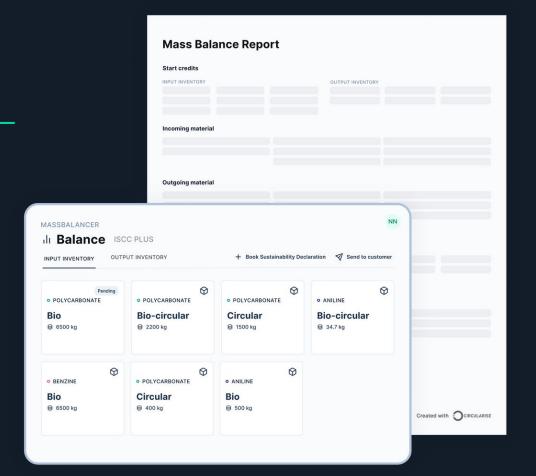


MassBalancer

Smart and secure bookkeeping software for ISCC Plus certification

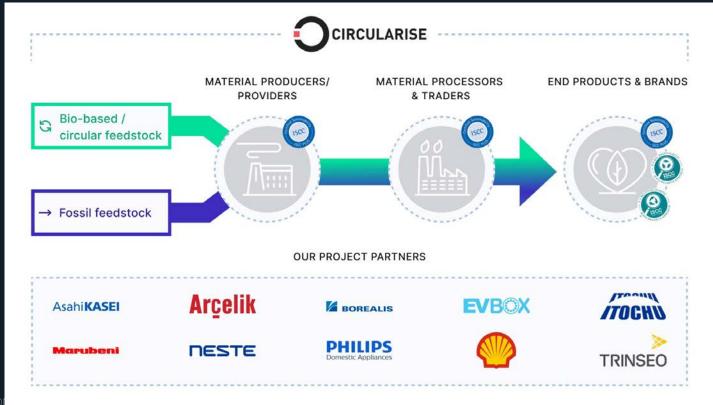
ISCC Event – Opportunities of sustainability certification in Japan

12 October 2022



PILOT PROJECT

Pilot: Sustainability Certification using Blockchain





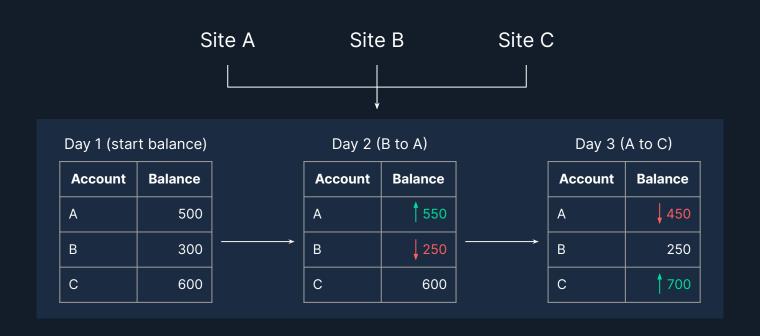
MASS BALANCE BOOKKEEPING

Challenges & Opportunities





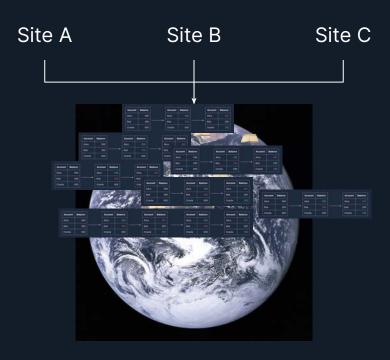
Error/fraud > Verify correctness of data using a public blockchain





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

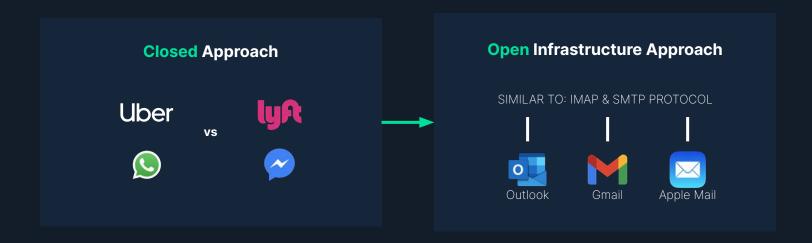
Challenges & Opportunities





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

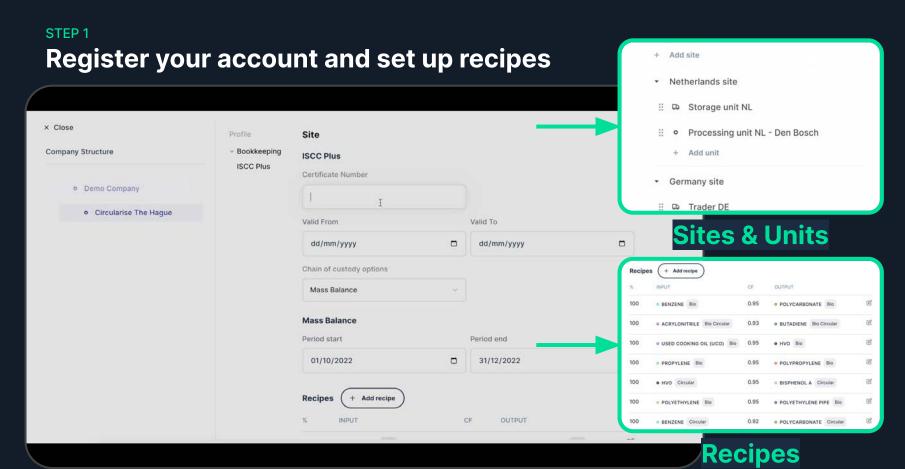
(starting with ISCC Plus)



MASSBALANCER

Set up a scalable mass balance bookkeeping in four easy steps

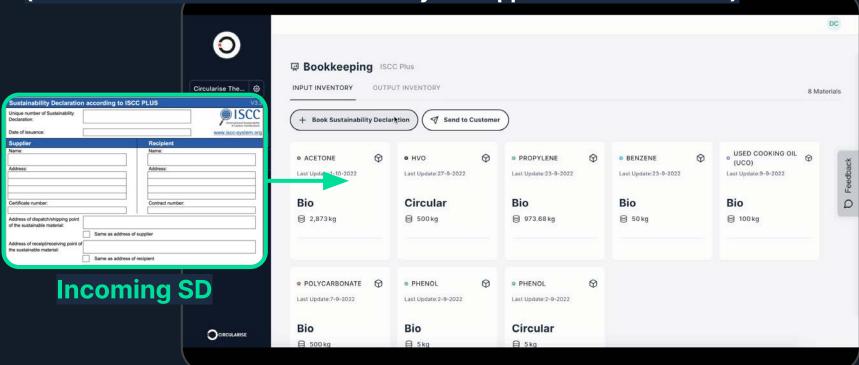
- Register your account and set up recipes
- (Automatically) book incoming Sustainability Declarations
- Allocate balances and generate outgoing Sustainability Declarations
- Generate quarterly & annual reports with unit-level granularity





STEP 2

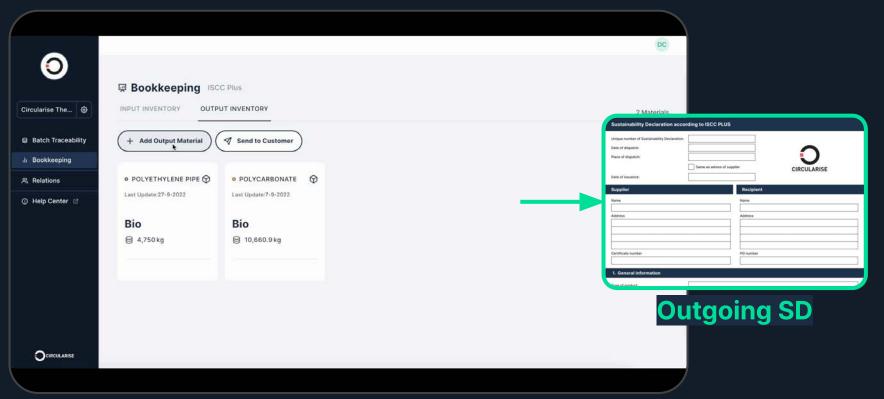
Book incoming Sustainability Declarations(automatic from unit to unit or in case your supplier uses Circularise)





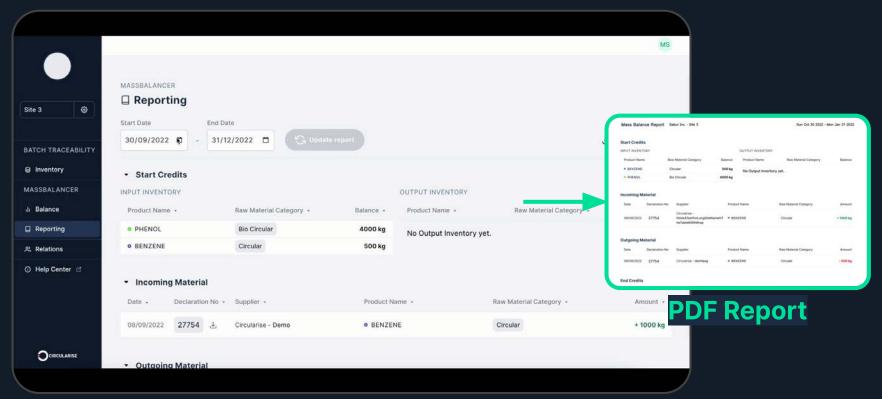
STEP 3

Allocate balances and generate outgoing Sustainability Declarations



STEP 4

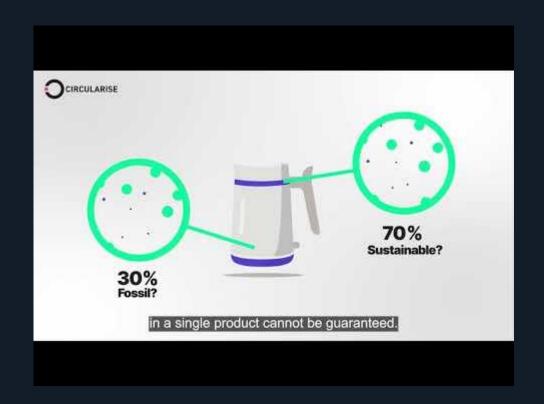
Generate quarterly & annual reports with unit-level granularity





PILOT VIDEO

Pilot: Sustainability Certification using Blockchain







Contact us to start using **MassBalancer**

WWW.CIRCULARISE.COM INFO@CIRCULARISE.COM +31 (0)85 303 39 72

LINKEDIN

www.linkedin.com/company/circularise

TWITTER

@circularise

