

Building a Sustainable Future Based on Innovation and Digitalization



CircularTree

CO₂ Transparency with Real Supply Chain Data

Climate Change has an increasing impact on companies!



Governments

Regulation, fees, taxes



Customers & Consumers:

Increasing awareness & changing buying behaviour



Banks & Investors:

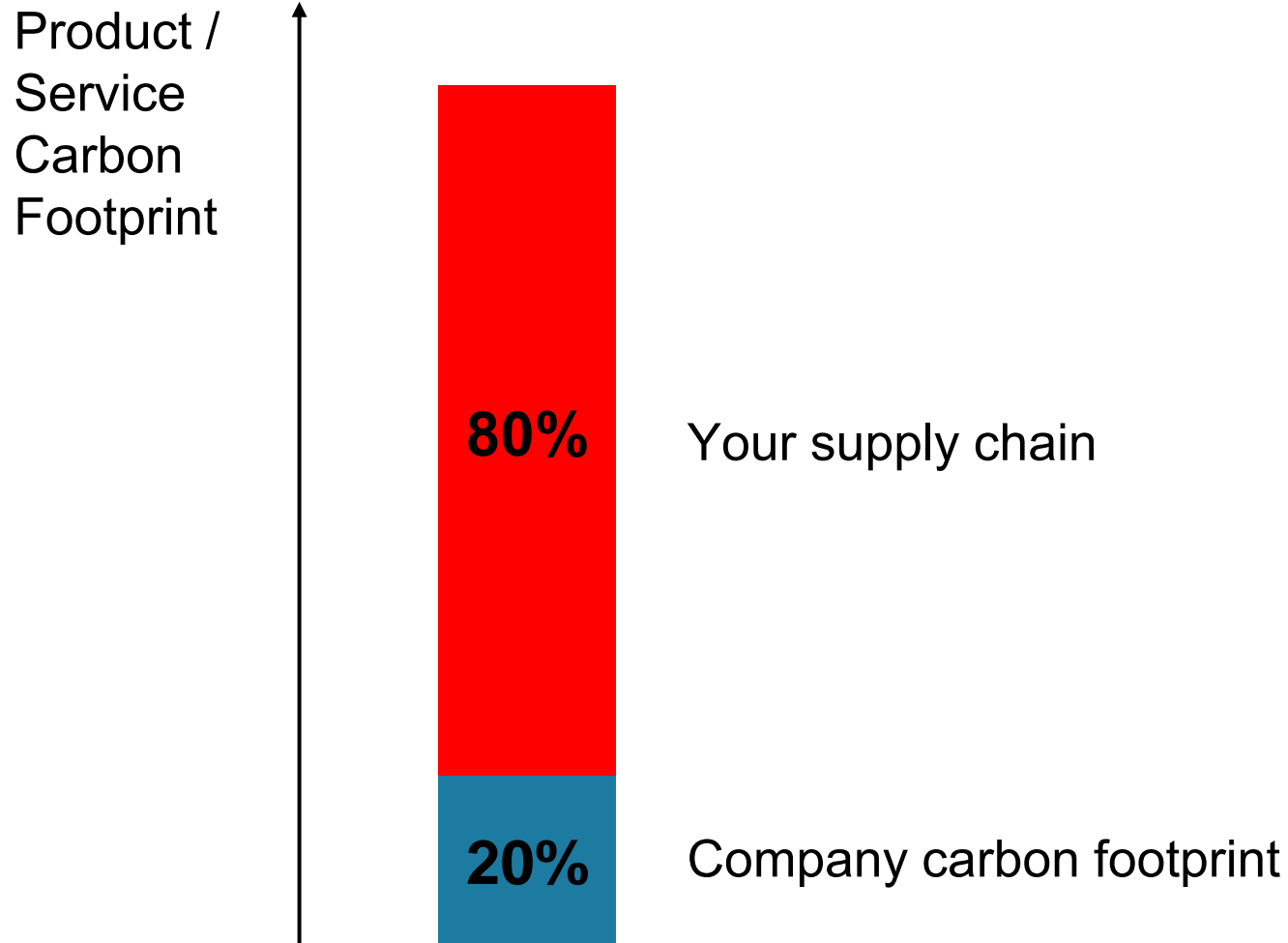
Shifting focus toward Sustainable Responsible Investing



The Problem



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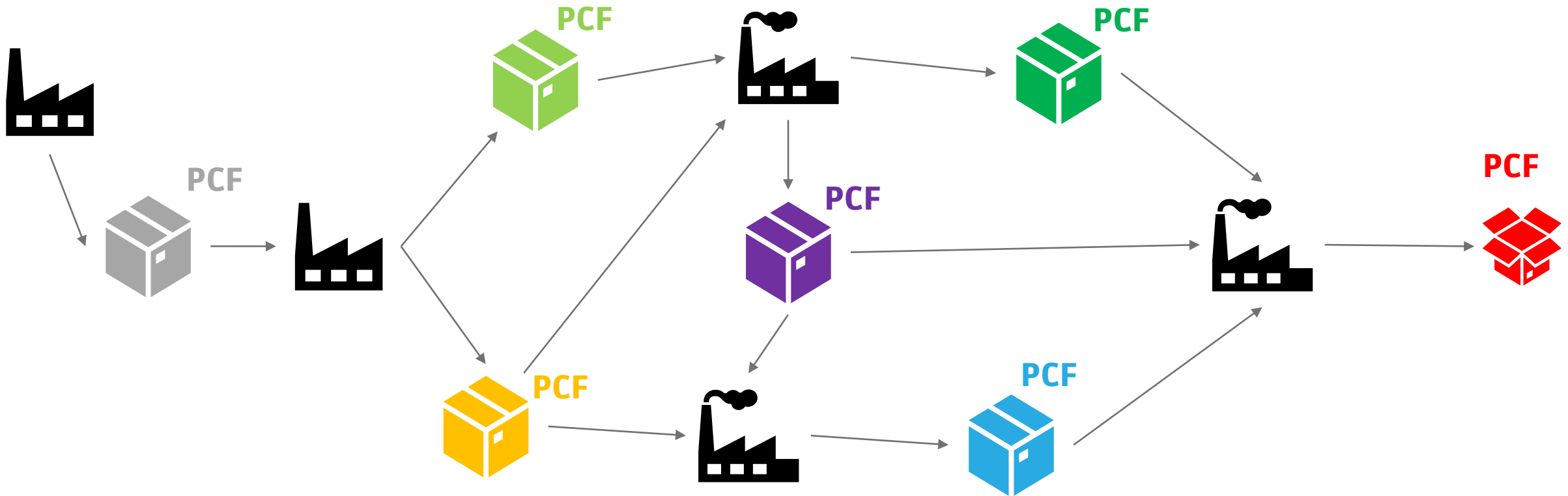


Challenge:
Supply chain data
not available

The Solution: CarbonBlock



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PCF: Product Carbon Footprint

Measure & reduce the **real carbon footprint** of your supply chain

How does it work?



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Carbon footprint assigned to product



PCF*

Granulate



Transportation



Carbon footprint assigned to product



PCF*

Granulate

PCF*

Bumper



Transportation



Carbon footprint assigned to product



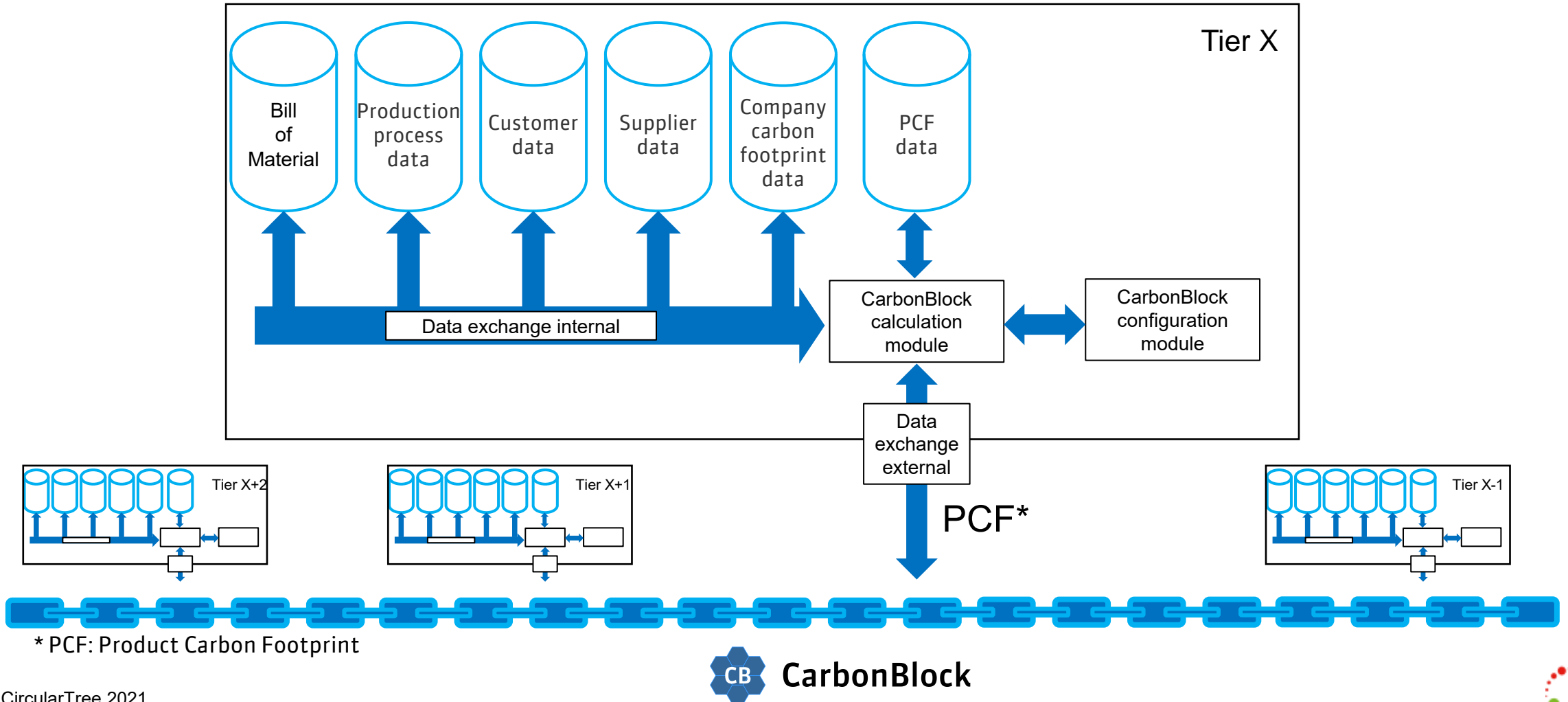
PCF*

Bumper



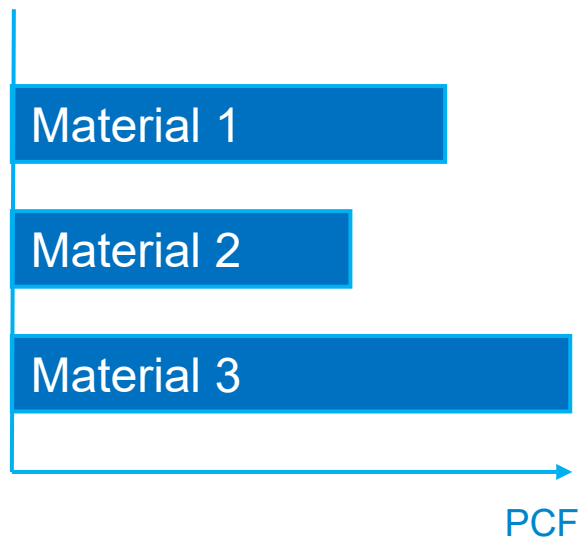
* PCF: Product Carbon Footprint

CarbonBlock architecture for automated PCF calculations

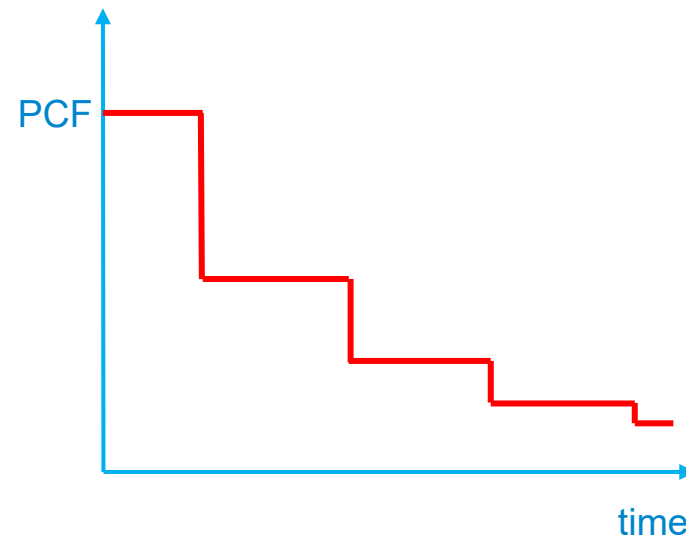


Companies get choices to reduce carbon footprint based on real data

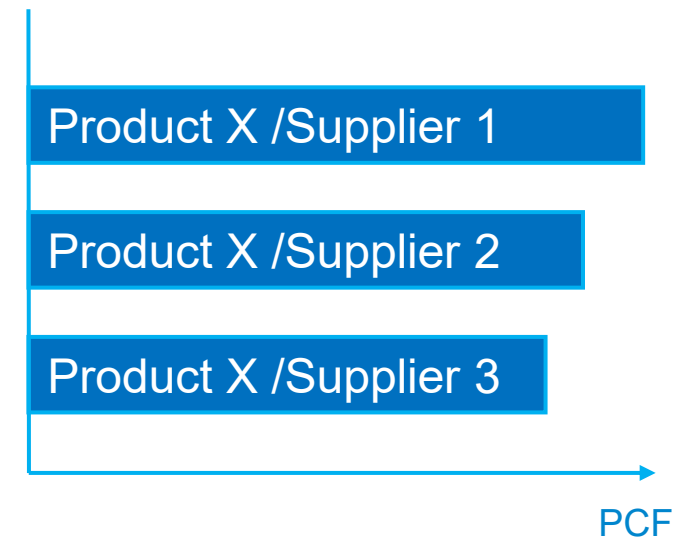
Product comparison



Supplier agreement



Supplier comparison





Dashboards

Overview

Procurement Dashboard

Logistics Dashboard

Production Dashboard

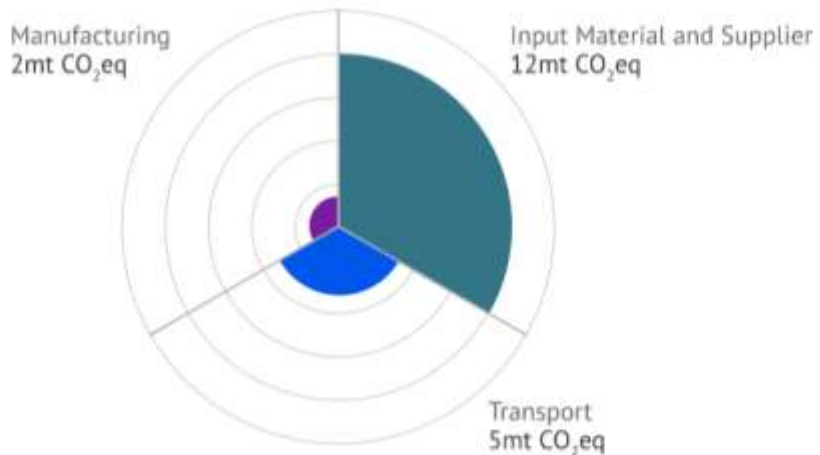
Sales Dashboard

Welcome to CarbonBlock!



Cradle to Gate Overview

Scope 3 Emissions
17mt CO₂eq Scope 1+2 Emissions
2mt CO₂eq



- Scope 3 Emissions**
 - Input Material and Supplier
 - Transport
- Scope 1+2 Emissions**
 - Manufacturing

Input Material and Supplier



Makes up 70.6% of scope 3 emissions

[Go to Procurement Dashboard](#)

Transport



Makes up 29.4% of scope 3 emissions

[Go to Logistics Dashboard](#)

Manufacturing



Scope 1 Emissions: 13%
Scope 2 Emissions: 87%

[Go to Production Dashboard](#)

Output Products



Total Product Carbon Footprint:
19mt CO₂eq

[Goto Sales Dashboard](#)



iPoint

- Dashboards
- Overview
- Procurement Dashboard**
- Logistics Dashboard
- Production Dashboard
- Sales Dashboard

Welcome to CarbonBlock!  Brought to you by CircularTree


Tons of CO₂eq per Supplier in 2020

Supplier: CO₂eq + Trend:

Metal & CO AG	↓ 40
Metal Berlin	↓ 35
Prastics Flow AG	↘ 26
Lightitup AG	↓ 11

Total Records: 4 Selected: 0 << < 1 / 1 > >>

Supplier Performance (YOY)

 Vision 2025 Target: Reduce carbon footprint by 50%

Carbon Footprint Reduction (%)

Supplier	Reduction (%)
Metal & CO AG	~ -60
Metal Berlin	~ -45
Plastics Flow AG	~ -40
Lightitup AG	~ -30

Tons of CO₂eq per Material

Supplier: CO₂eq + Trend:

Metal fixture	↓ 4
Light box	↓ 11
Granulate	↘ 2

Total Records: 3 Selected: 0 << < 1 / 1 > >>

Material Performance Per Unit

Select a material and a supplier to compare its performance with other suppliers

Material:

Supplier:

mt CO₂eq

Year	Metal Fixture (mt CO ₂ eq)	Supplier Average (mt CO ₂ eq)	Target (mt CO ₂ eq)
2018	~ 4.5	~ 3.5	~ 2.5
2019	~ 4.0	~ 2.5	~ 1.5
2020	~ 3.5	~ 1.5	~ 1.0

Metal Fixture Supplier Average Target



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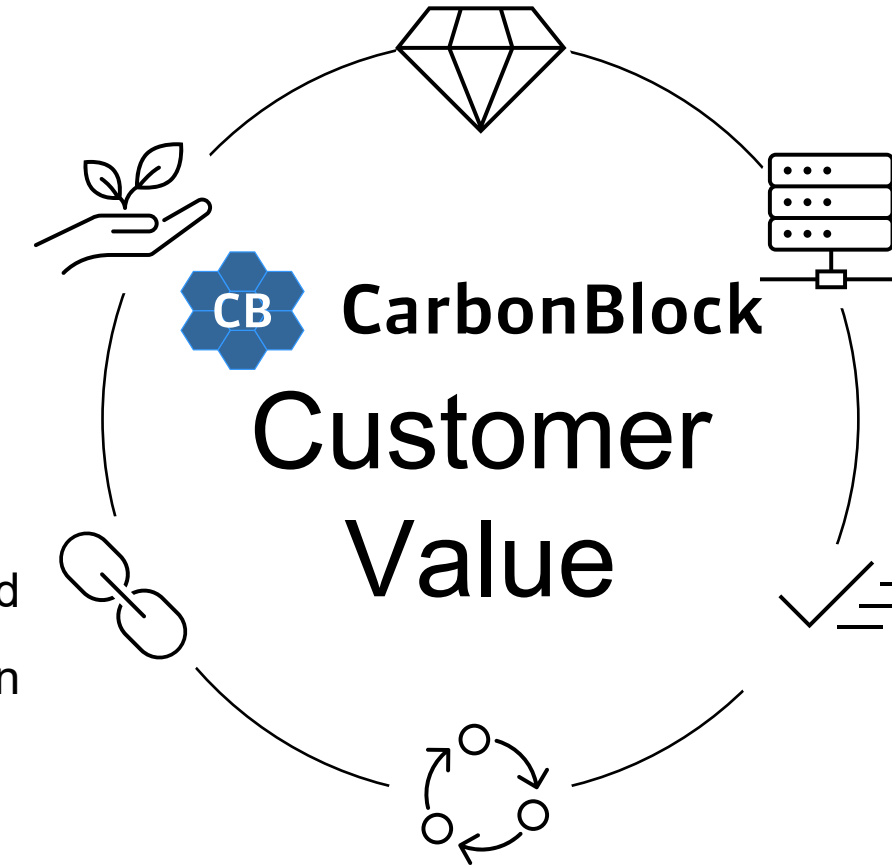
First solution to track real
carbon footprint information

Determines the best levers
to reduce product carbon footprint

Automated Processes for
data collection & transfer

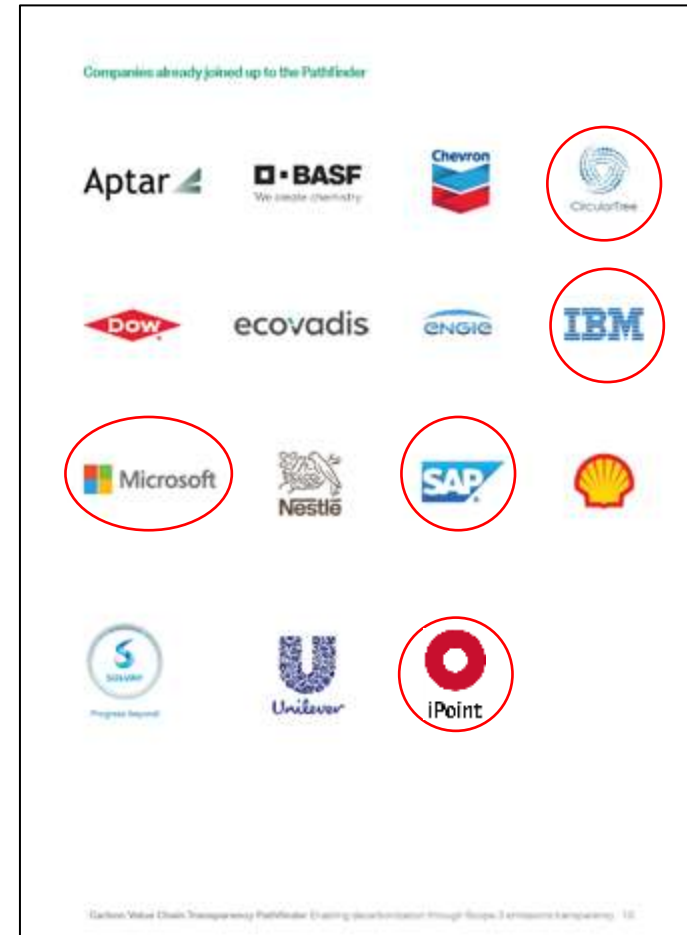
Supports structured
collaboration

Greater accountability
for data reliability



One standard – one tool:
efficiency between customers and suppliers

CircularTree building an Ecosystem of partners within the WBCSD SOS 1.5 Pathfinder project



WBCSD approach: carbon exchange network based on consistent methodology and open tech infrastructure



Building a consistent methodology that enables generation of comparable, verified product-level primary emissions data



Developing open technology standards that allow for secure data exchange across different technology solutions



Reaching to a wide ecosystem – piloting in the Fast-Moving Consumer Goods sector and scaling to multiple industry value chains

