

# Cradle to Cradle® Design Innovations

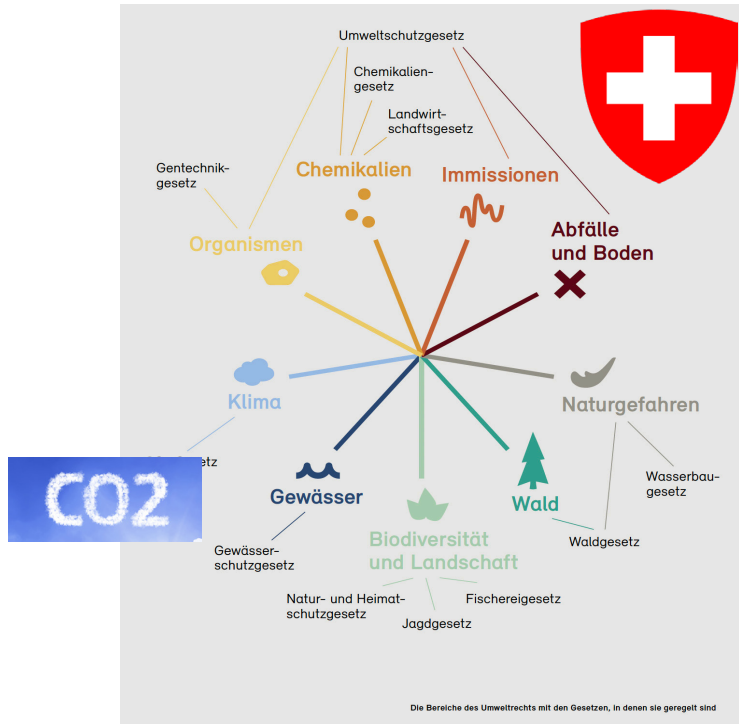
*Rethinking the way we make things*

epeaswitzerland



EU

UN



CO2

**Umweltrecht (1875-)**

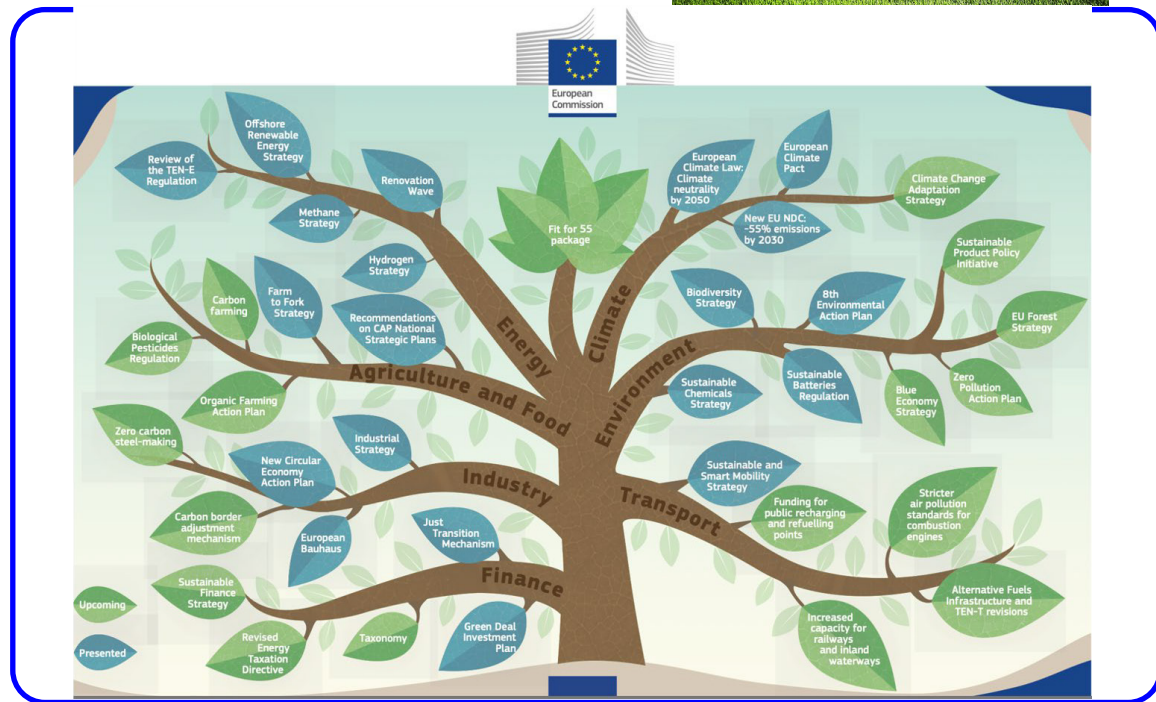
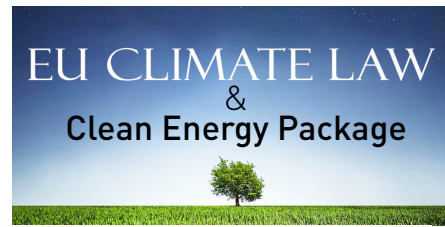
- CO2 Gesetz
- Gewässerschutz
- Abfälle und Boden
- Chemikalien
- Biodiversität und Landschaft

**Strategische Nachhaltigkeitsentwicklung 2030**



Förderung Kreislaufwirtschafts:  
**Abfallwirtschaft, Abfallvermeidung, Abfallplanung, Messung** (Feb. 2023)

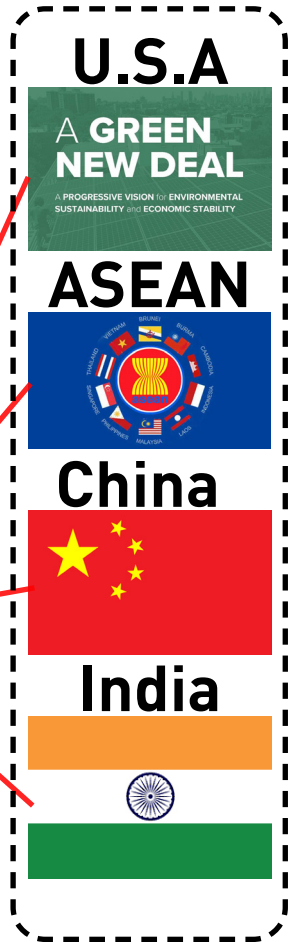
**The European Green Deal**



- Circular Economy Action Plan
- Green Deal Investment Plan
- Strategy for Sustainable Products
- Chemical Strategy for Sustainability
- Corporate Sustainability Due Diligence
- CSRD 2023; 2024 first reporting
- ESRD - European Sustainability Reporting Standard
- Digital Product Passports



**Initiatives**



## ORIGINAL

- 1987 → EPEA International
- 1992 → Climatex - first C2C Product
- 2007 → EPEA Netherlands est.
- 2009 → epeaswitzerland est.

## GLOBALE ANERKENNUNG

Cradle to Cradle certified products

- EPA - US, öffentliche Beschaffung
- Gebäude Zertifizierung Leed, Breeam, DGNB
- Einzige Zertifizierung für Kreisläufe
- 27 awards epeaswitzerland , Albin Kälin

## INNOVATIONEN

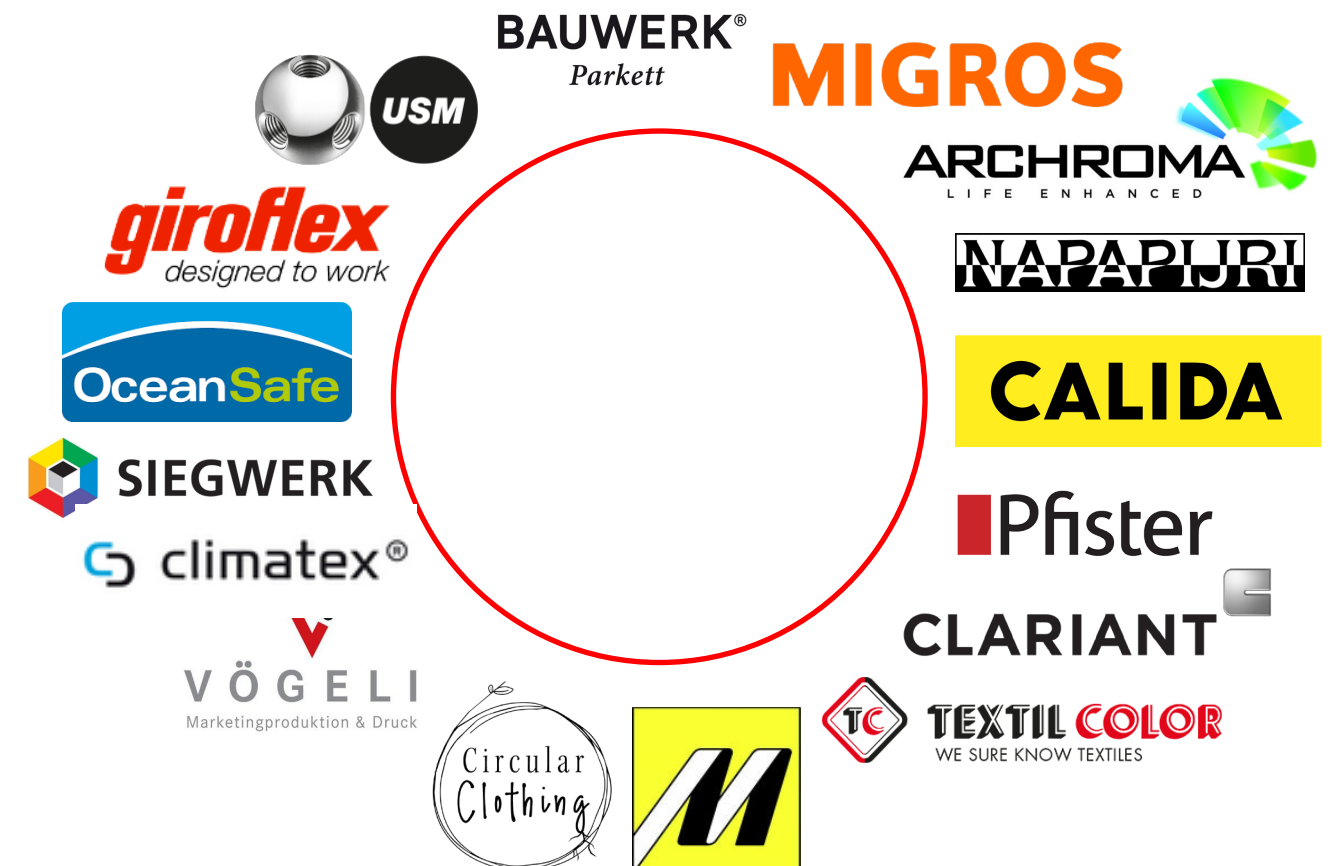
## SCHWEIZER FIRMIEN



EXPERTISE: 32 JAHRE

[www.epeaswitzerland.com](http://www.epeaswitzerland.com)

<http://c2ccertified.org>





# Roles of epeaswitzerland

## Knowledge Trustee

### → Transparent Supply Chain

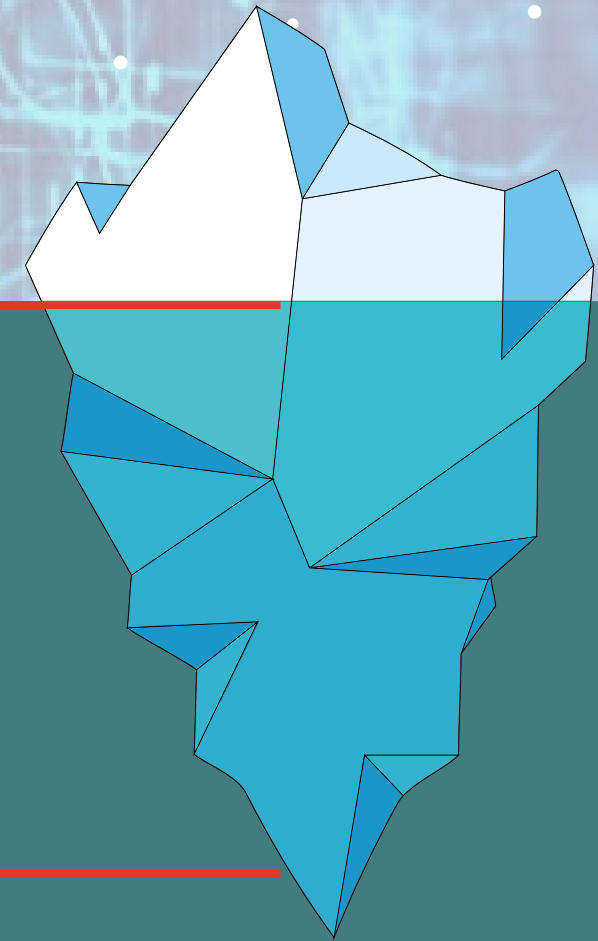
- Transparent Network
- Transparent Products

## Innovation Trustee

## Accredited Certification Assessment Body

1000 PPM (0.1%)  
SAFETY DATA SHEETS (SDS)

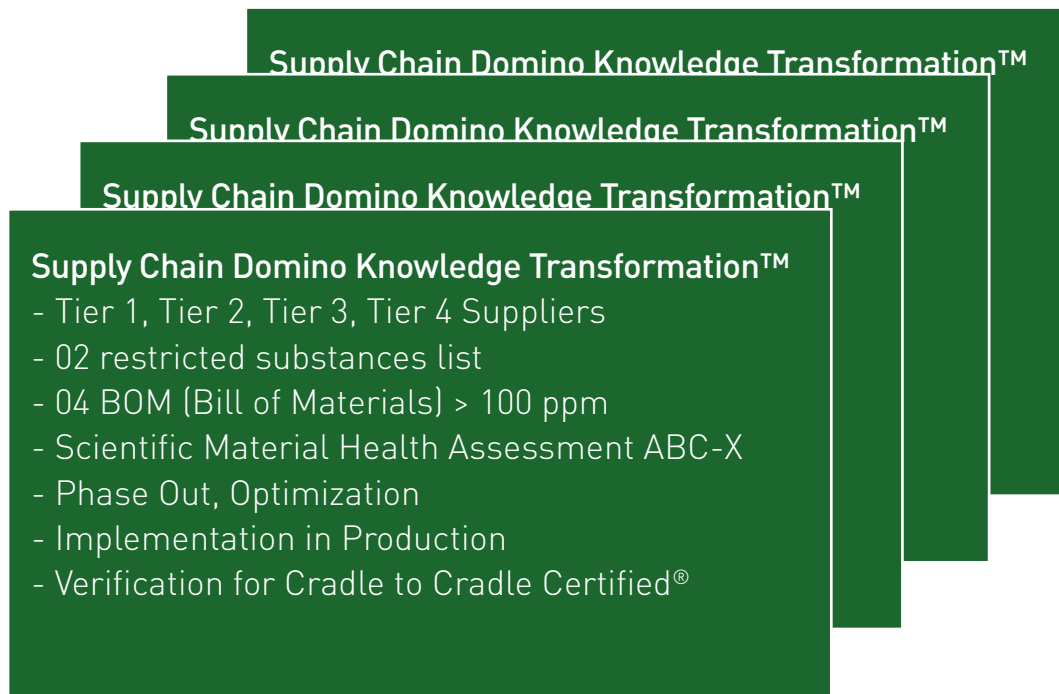
100 PPM (0.01%)  
CRADLE TO CRADLE CERTIFIED™



# Reference Modell Cradle to Cradle

## Supply Chain Domino Knowledge Transformation™

a trademark of epeaswitzerland gmbh



### PRODUCTION

- Audit / Site Visit (last Manufacturing Stage)
- 02 restricted substances list
- 04 BOM (Bill of Materials) > 100 ppm
- Verification for Cradle to Cradle Certified®
- Scientific Material Health Assessment ABC-X
- Phase Out, Optimization
- Verification for Cradle to Cradle Certified®

### PRODUCT

- Defining Purpose of Product
- Determining the Metabolism: biological or technical
- Definition Areas of Innovation (chances/risks)
- Development of Product Criteria & Product Purposes
- Reference Model Cradle to Cradle™
- Design for Disassembly
- Positive List of Materials Implementation
- Product Design Implementation
- Closing the Loop Scenario Strategy (Circularity)

### TRANSPARENT SUPPLY CHAIN

#### CLOSING THE LOOP

- Design for Disassembly
- Modifications of Materials for Reintegration into the Supply Chain or other Industries
- Integrate Business Model into Supply Chain
- Integrate Materials into Supply Chain

#### TAKE BACK CONCEPT

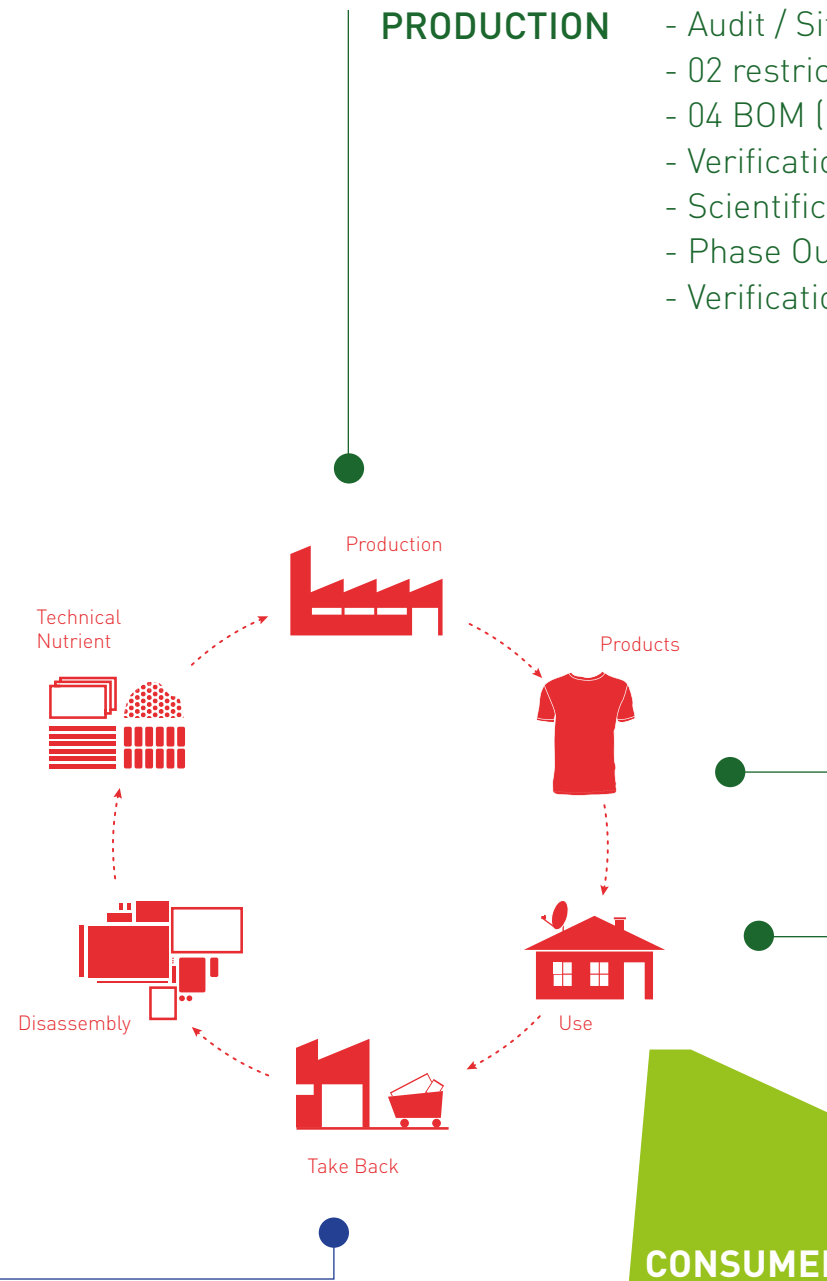
- Implementation Take Back Concept
- Logistics - Collecting Systems
- Integrate Business Model

### CONSUMER USE PHASE

- Consumer Communication
- Consumer Behaviour
- Give it Back after Use
- Consumer Incentives

### MARKETING / BUSINESS MODELLS

- Cradle to Cradle Certified® Certification (Yes/No)
- Business Model for a Circular Economy
- Consumer Behaviour towards Circularity
- Marketing Focus
- Financial Investments
- After Sales Services



# MIGROS

Migros creates  
M-Check transparency for Near Non-Food  
Products *in cooperation with epeaswitzerland*



M-Check Material Health & Product Circularity



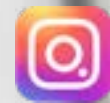
# MIGROS

Material Health &  
Product Circularity





Follow us  
**epeaswitzerland**



**epeaswitzerland gmbh**

Seestrasse 119  
CH-8806 Bäch / SZ  
[www.epeaswitzerland.com](http://www.epeaswitzerland.com)

Contact Link: [www.epeaswitzerland.com](http://www.epeaswitzerland.com)

Contact Link: [www.c2ccertified.org](http://www.c2ccertified.org)

Cradle to Cradle Certified®, C2C Certified®, and C2C Certified Material Health Certificate™ are trademarks of Cradle to Cradle Products Innovation Institute (C2CPII). Cradle to Cradle® and C2C® is a trademark of MBDC LLC.

The C2CPII accredited epeaswitzerland gmbh as general assessment body.

Reference Model Cradle to Cradle™, Reference Model™ for Cradle to Cradle, Supply Chain Domino Knowledge Transformation™, C2C Vision for a Safe and Circular Future™, Cradle to Cradle DNA Buildings + Facility Management™, Compass Cradle to Cradle™, Network of Trust epeaswitzerland™, Circular Accounting epeaswitzerland™, Cradle to Cradle for Professionals™, Toolbox Cradle to Cradle™ are trademarks of epeaswitzerland gmbh.

