Cradle til Cradle certificering

Brandpåvirkning af bio-baserede facadesystemer

12. oktober 2016

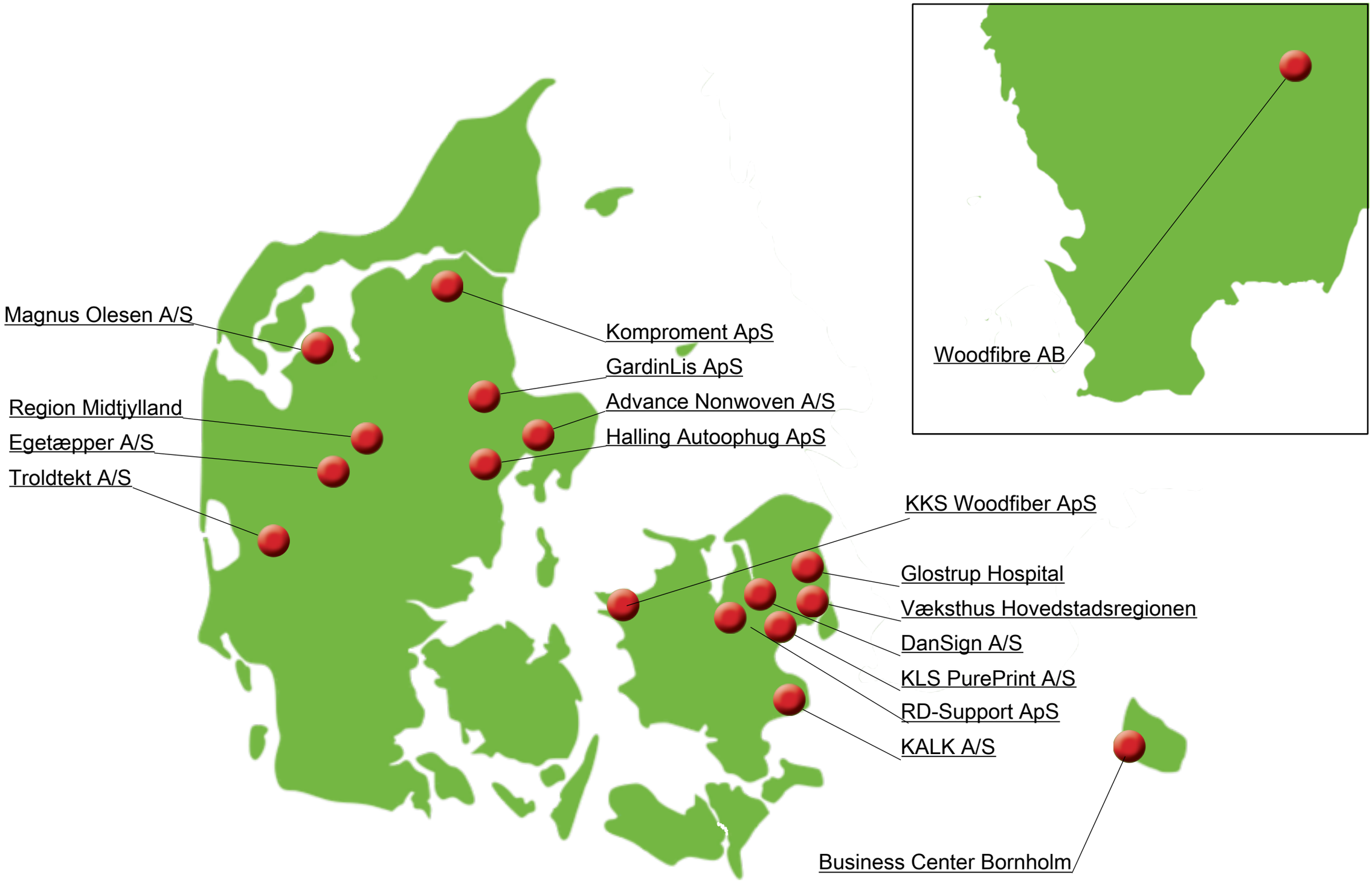
Agenda

- Hvem er Vugge til Vugge ApS
- Hvorfor Cradle to Cradle og ikke anden tilgang til bæredygtighed?
- Introduktion til Cradle to Cradle Certified™
- Case: KKS Woodfiber
- Fordele ved C2C certificering ift. byggeri

Vugge til Vugge ApS

- Cradle to Cradle certificering
- Udvikling af grønne forretningsmodeller
- Cradle to Cradle i byggeri
- Fundraising
- Projektledelse
- Foredrag og workshops om C2C og cirkulær økonomi

Udvalgte kunder



Teamet bag Vugge til Vugge ApS

Annette Hastrup
CEO & ejer

Kaare Hinz
Projektmedarbejder

Cecilie Louise Bitsch
Studentermedhjælp

Morten de Fine Olivarius
Studentermedhjælp

Kim Jensen
Senior konsulent

Annelise Ryberg
Senior konsulent

Henrik Sørensen
Senior konsulent

Annette Jensen Smith
Senior konsulent

Internationale Samarbejdspartnere

Cradle to Cradle Products Innovation Institute

McDonough Braungart Design Chemistry

Environmental Protection Encouragement Agency

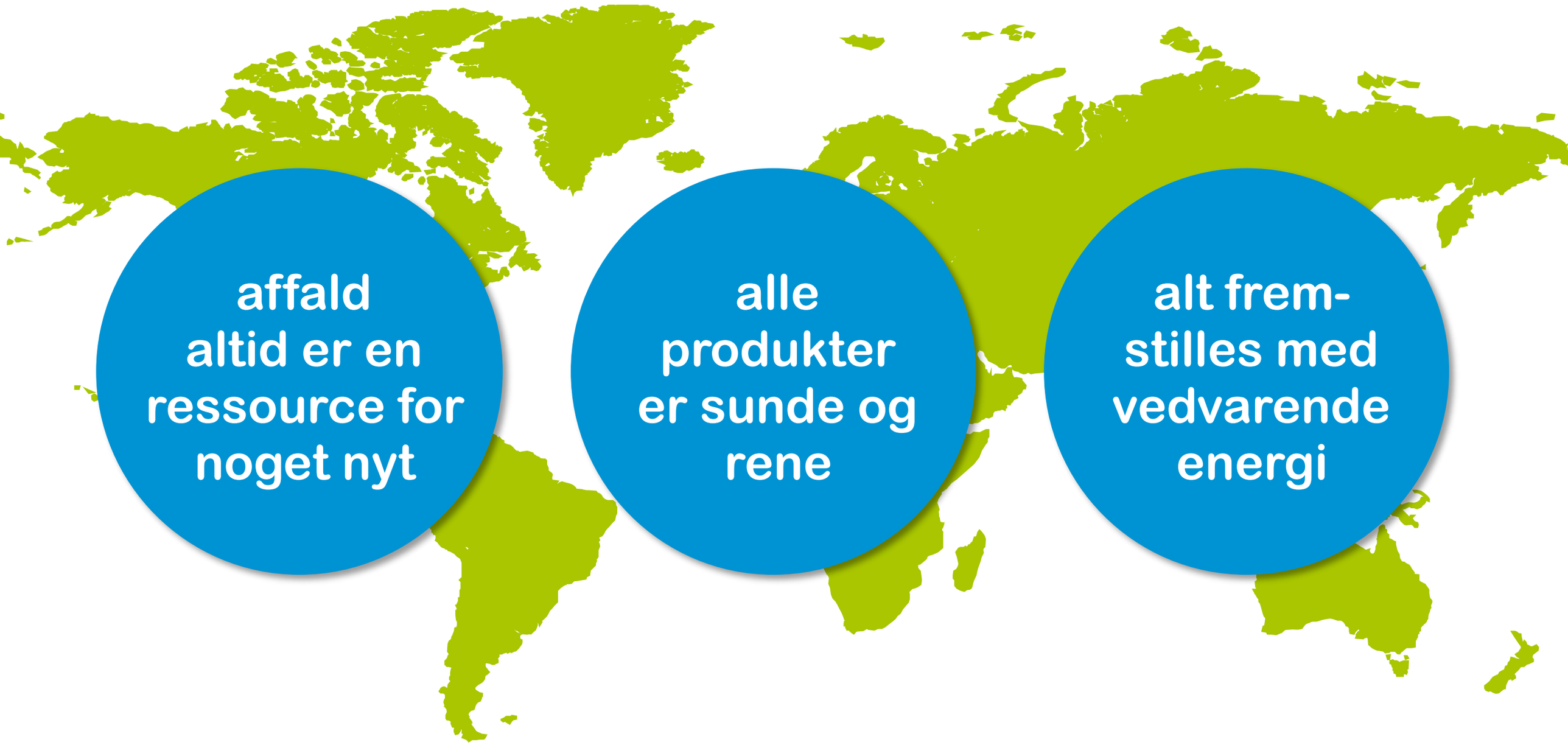
William McDonough + Partners

Hvorfor vælge C2C certificering?

Fordi …

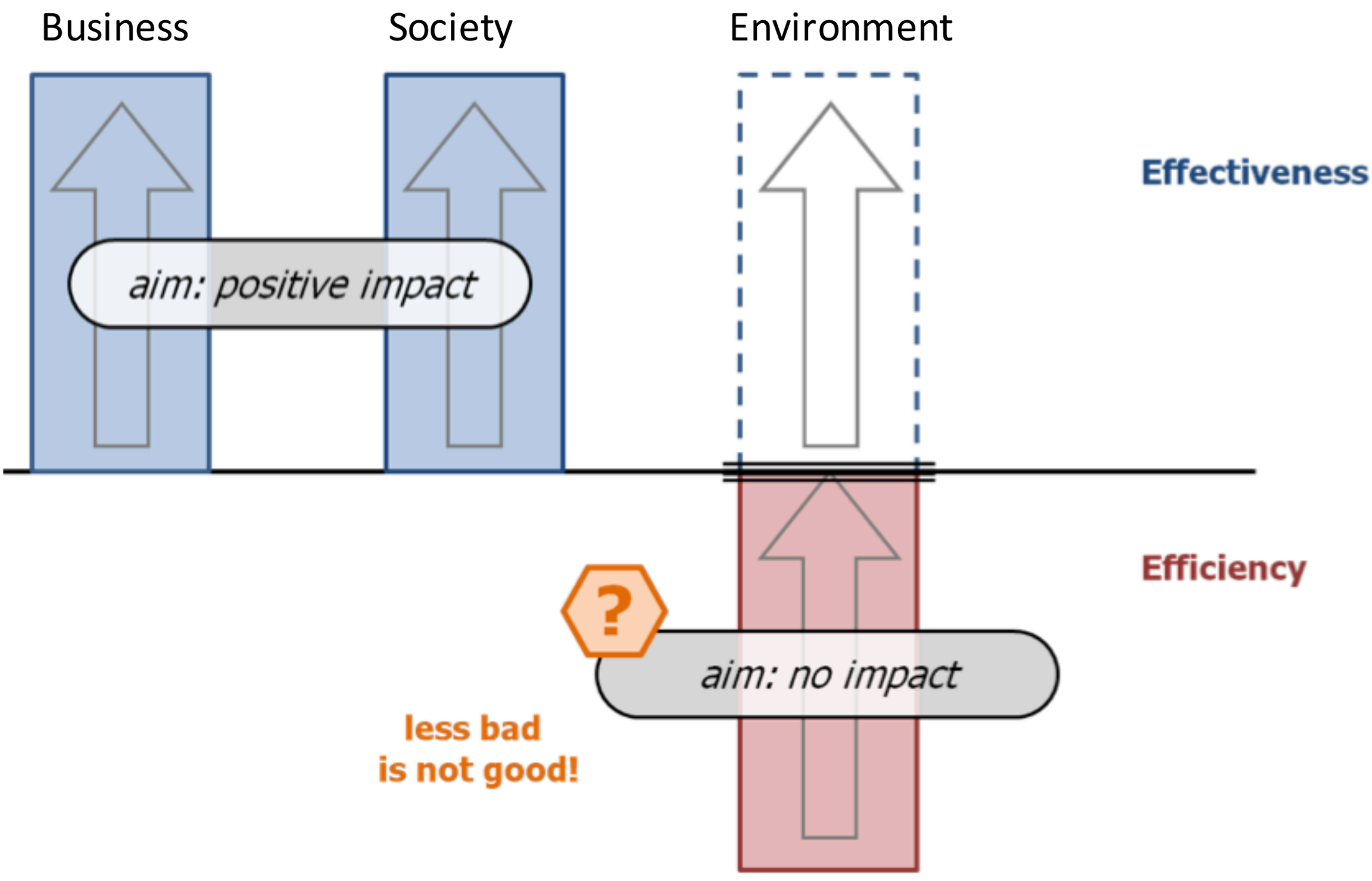
- det er en global certificeringsstandard
- sætter den højeste standard for kvalitet og bæredygtighed
- den gode historie kan fortælles videre
- rene materialer er sunde for mennesker og miljø (risikoafdækning)
- C2C certificerede produkter giver ekstra point i certificeret byggeri
- C2C giver en klar definition på bæredygtighed
- C2C leverer den nødvendige dokumentation
- C2C er et stratetisk værktøj ift. produkter, processer og forretning
- C2C kommer hele vejen rundt
- C2C spiller ind i den cirkulære økonomi dagsorden
- at være mindre dårlig, IKKE er det samme som at være god

Forstil jer i stedet en verden hvor …



… forbrug er 100% positivt

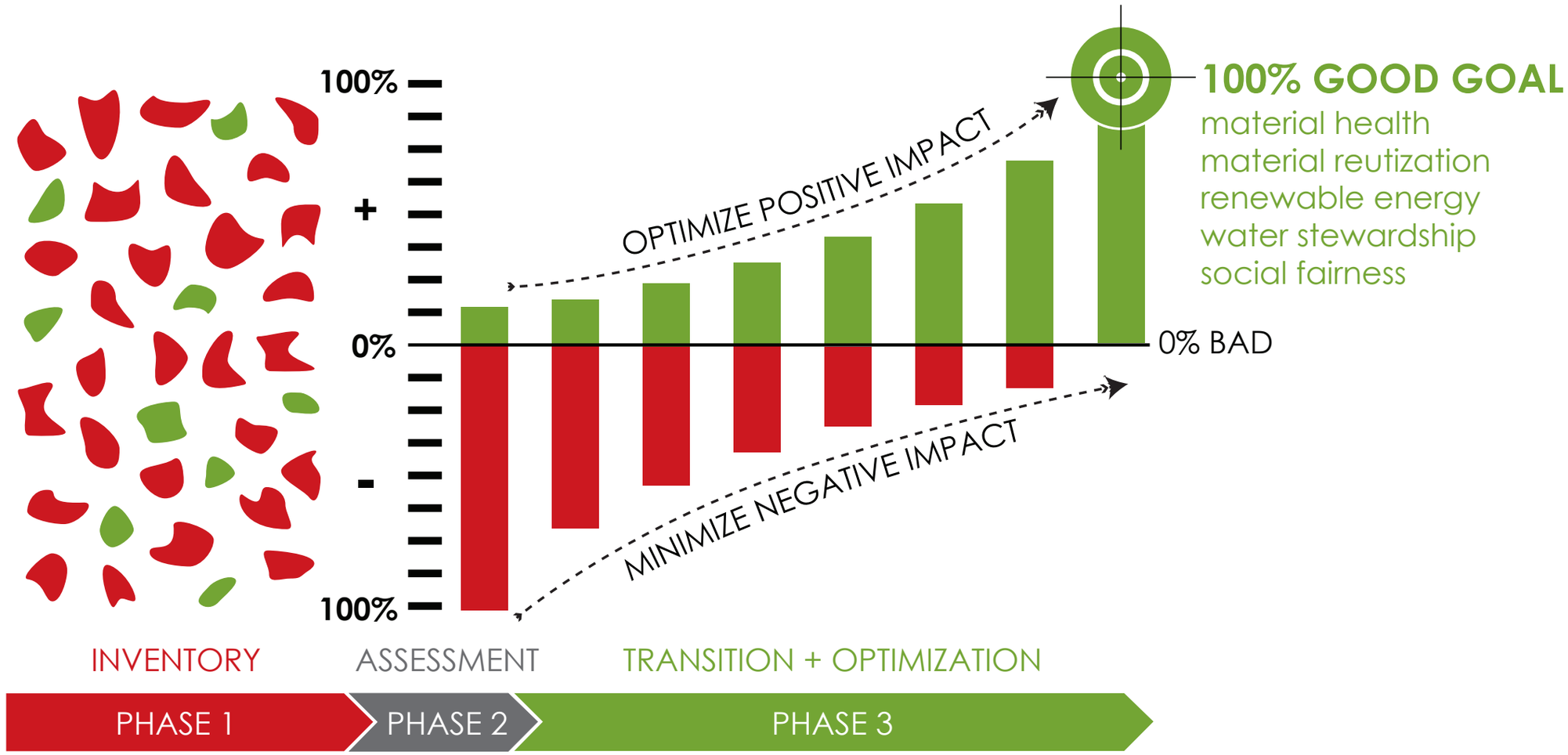
Mindre dårlig er ikke at være god



Vejen til positiv vækst

THE UPCYCLE™ CHART

CRADLE TO CRADLE® CONTINUOUS IMPROVEMENT STRATEGY



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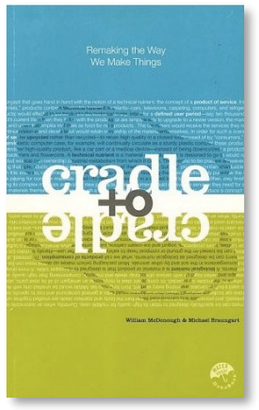
Cradle to Cradle Product Certification

C2C Certificering - krav og proces

<u>En international kvalitets-standard:</u>

- Uafhængigt, transparent, tredjeparts verificeret program
- Tilbundsgående, helhedsorienteret vurdering
- Løbende forbedringsproces
- Referenceværktøj til at vælge bedre produkter

Udviklingen af Cradle to Cradle Certified™



2002 — Udgivelse af Cradle to Cradle: Remaking the Way We Make Things

2005 — MBDC lancere certifikations program Version 1.0

2009 — Version 2.1 lanceret

2010 — Cradle to Cradle Products Innovation Institute grundlagt

2012 — Certifikations Standardens Bestyrelse oprettet

En ny Assessment Body trænet

2013 — Version 3.0 lanceret

2014 — Offentlig standard revision process opstartet

Nye Assesment Bodies trænet

2015 — Version 3.1 lanceres

2016 — Version 4.0 lanceres

C2C Certificeringsordningen

Certificeringsordnings-ejer (C2CPII)

- Vedligeholder standarden
- Tilsyn med varemærke licenser og brug
- Træner/akkrediterer/auditerer assessorer
- Sikrer ensartethed i assessorernes vurderinger
- Vedligeholder produktregister
- Marketing og kommunikation

Akkrediterede assessorer (konsulenter)

- Udfører produkt vurderinger
- Bistår med optimeringsstrategier
- Indsender vurderingsrapporter til certificeringsorganet

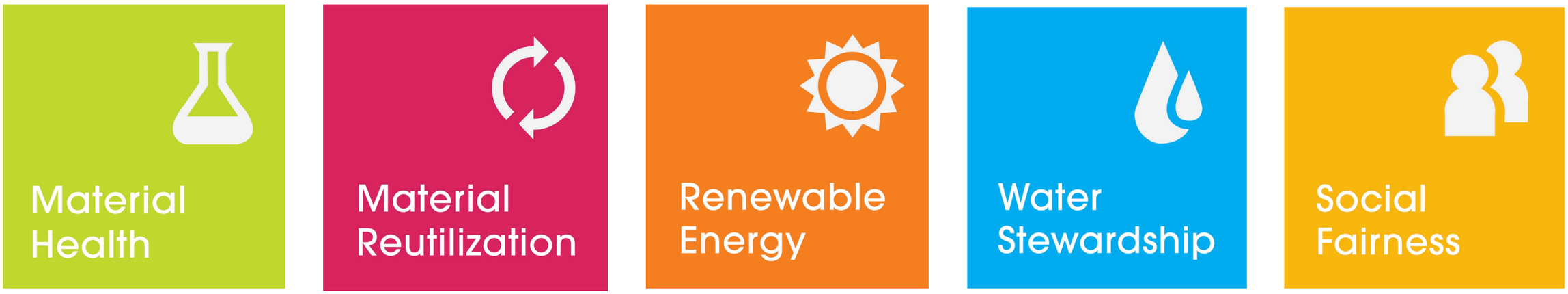
Certificeringsorgan (C2CPII)

- Auditerer vurderingsrapporter
- Træffer beslutning om certificering, udsteder certifikater
- Overvåger certificeringer

Overblik over C2C standard v. 3.1

Det hele starter med klare målsætninger

Måling af produktkvalitet



Kategorierne er baseret på Cradle to Cradle principperne.
Evaluering af en kombination af produkt- og virksomhedsmåleparametre

Design for løbende forbedring

Material Health

Design produkter som er sikre og sunde for mennesker og miljø i både produktionsfase, brugsfase og ved genanvendelse

Safe ingredients perpetually cycled

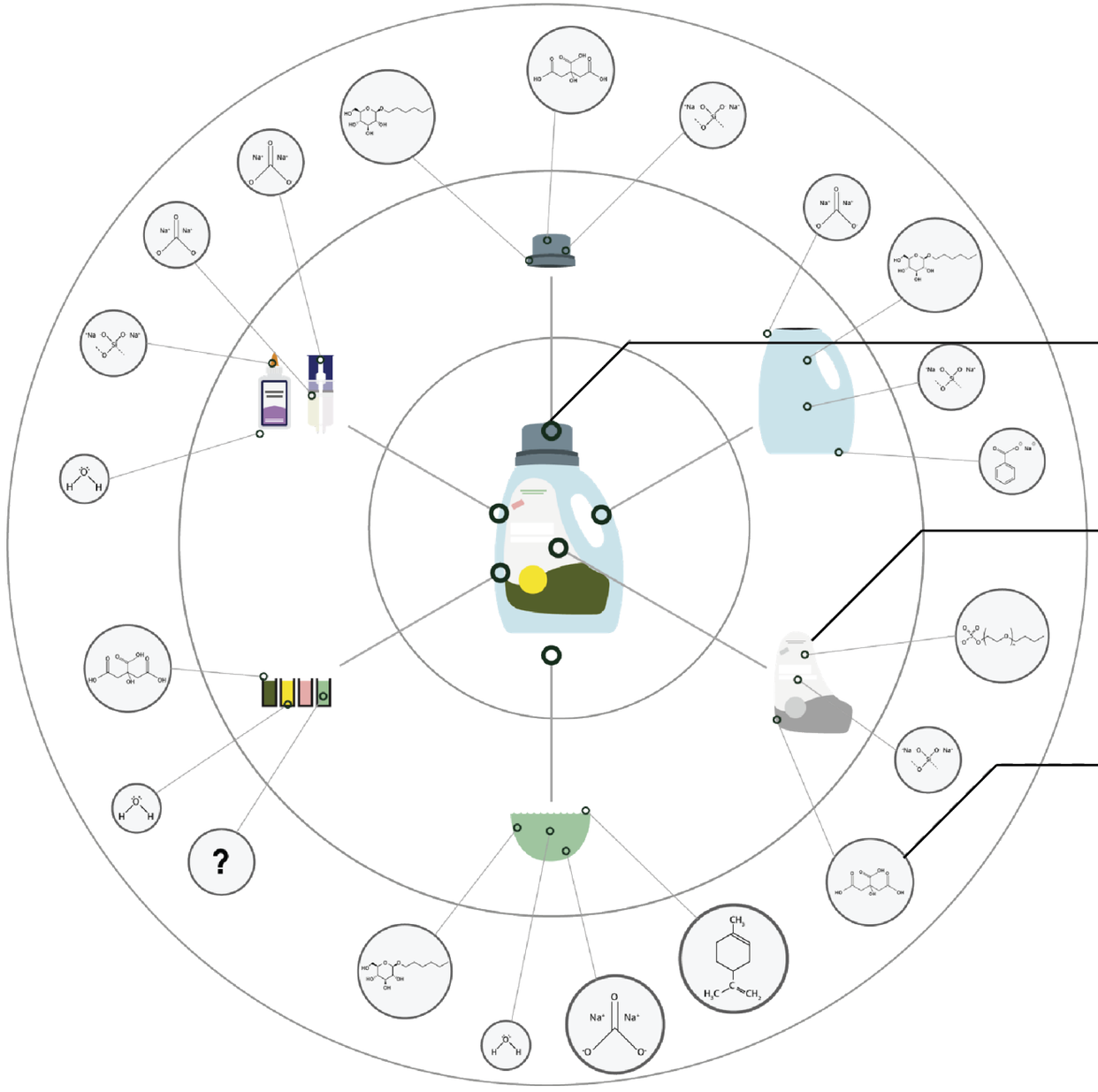
Material Health

Løbende Forbedring

MATERIAL HEALTH	Basic	Bronze	Silver	Gold	Platinum
No Banned List chemicals					
Materials defined as biological or technical nutrient					
100% "characterized" (all generic materials)					
At least 75% of materials assessed by weight					
Strategy developed to optimize X-assessed materials					
At least 95% of materials assessed by weight					
No CMR chemicals in a form that may result in exposure					
100% of materials assessed by weight					
Formulation optimized (100% positive chemistry)					
Meets Cradle to Cradle VOC emission standards					
All process chemicals assessed and optimized					

Material Health

Materialer og kemikalier der skal vurderes



Product

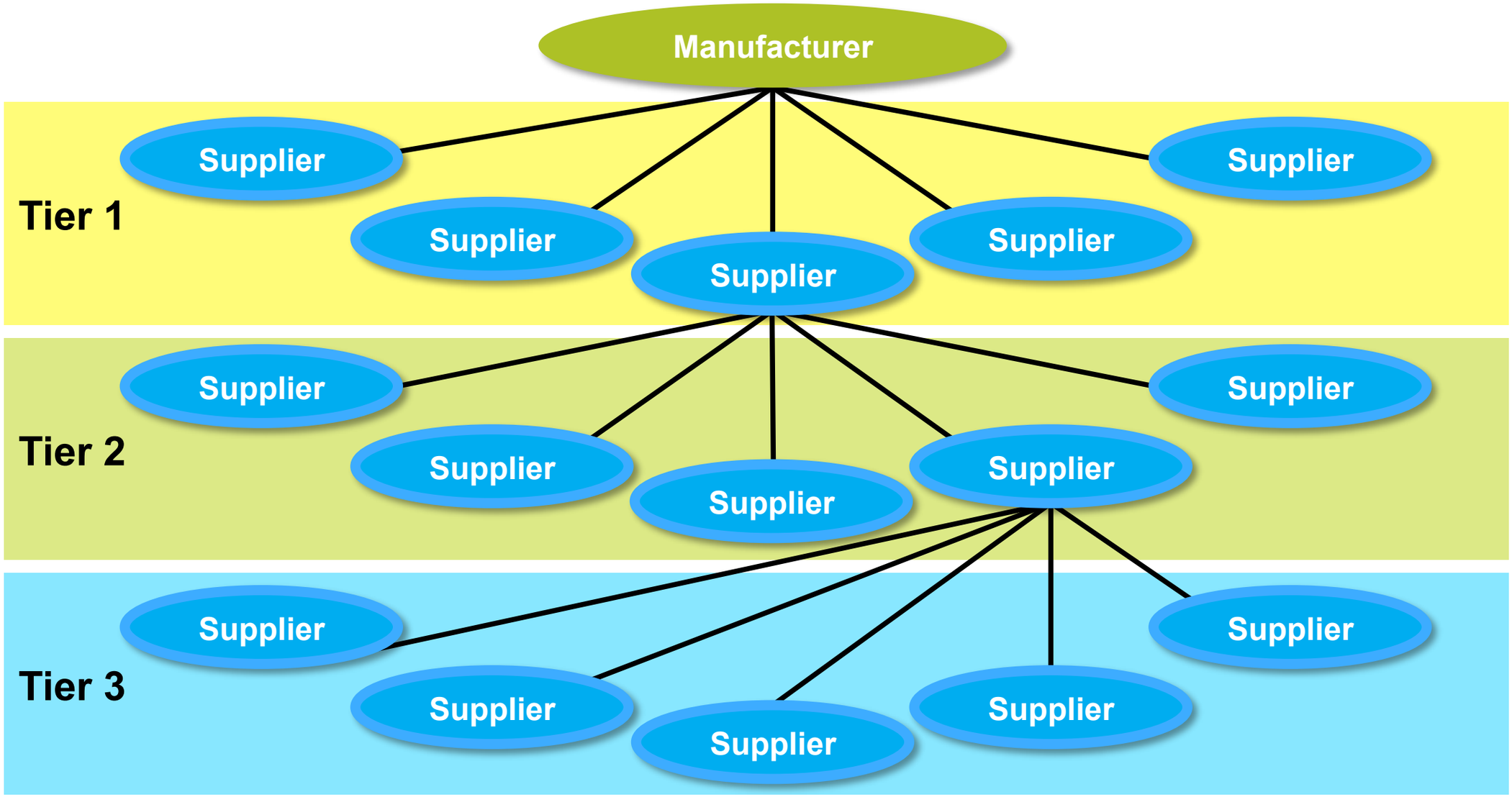
Homogeneous materials ≥ 100ppm

Chemicals ≥ 100ppm

Material Health

Leverandørkæde kompleksitet

The bulk of the work done by assessors is to gather data from supply chains



Material Health

Materiale Vurdering

Final Material Assessment

A	Ideal C2C material
B	Material largely supports C2C objectives
C	Moderately problematic properties
X	Highly problematic properties; must phase out
GREY	Cannot be fully assessed due to lack of data
BANNED	Contains one or more banned list chemicals

Hazard Assessment

GREEN	No hazard
YELLOW	Borderline hazard
GREY	No data available
RED	Hazardous

X 24 endpoints

+

Exposure Assessment

Consider each hazard endpoint rating with exposure in each product use scenario

=

Single Chemical Risk Assessment

a	Ideal chemical
b	No moderate or significant risks
c	One or more moderate risks
x	One or more significant risks

Material Reutilization

Design for at eliminere begrebet “affald”. Brug tilsigtede næringsstoffer som kan indgå i kredsløb der fastholder næringsstoffets fulde værdi

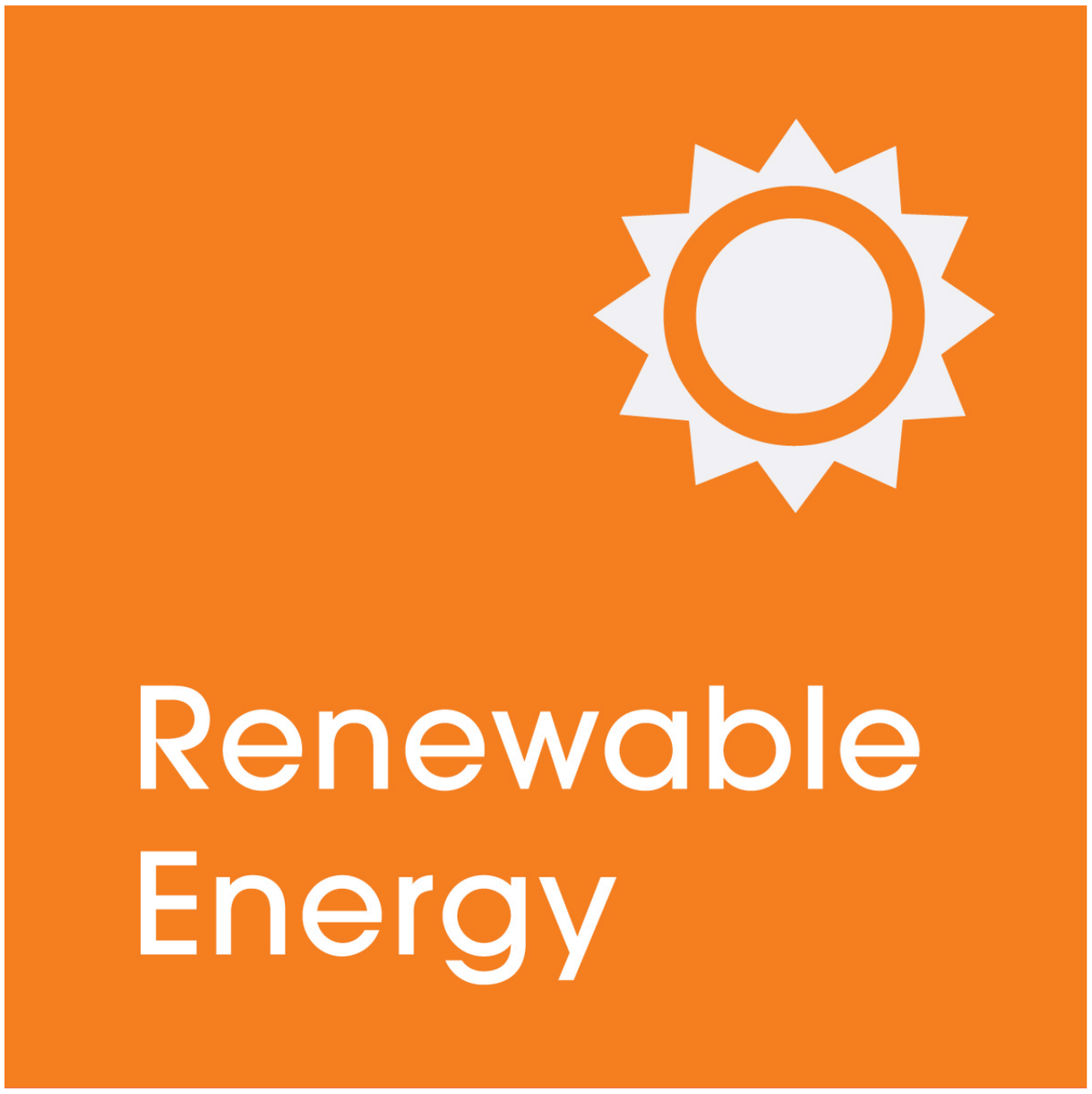
100% recovery and upcycling

Løbende Forbedring

Material Reutilization

MATERIAL REUTILIZATION	Basic	Bronze	Silver	Gold	Platinum
Defined the appropriate cycle (TN or BN)					
Material (re)utilization score ≥ 35					
Material (re)utilization score ≥ 50					
Material (re)utilization score ≥ 65					
Nutrient management strategy complete					
Material (re)utilization score of 100					
Product is actively being recovered and cycled					

Renewable Energy



Fremtiden er forsynet af vedvarende energi, hvor producenter positivt bidrager til energiforsyning og balance i økosystemet, og hvor kulstof holdes i jord samt vegetation

100%+ renewably powered

Løbende Forbedring

RENEWABLE ENERGY & CARBON MANAGEMENT	Basic	Bronze	Silver	Gold	Platinum
Quantify purchased electricity and on-site emissions					
Renewable energy and carbon management strategy					
5% of purchased electricity is renewable or offset					
5% of direct on-site emissions are offset					
50% of purchased electricity is renewable or offset					
50% of direct on-site emissions are offset					
>100% of purchased electricity is renewable or offset					
>100% of direct on-site emissions are offset					
≥ 5% of embodied energy from Cradle to Gate is covered by offsets or addressed + optimization strategy					

Behandl vand som en værdifuld resource ved at tilskynde strategier for effektiv forvaltning

Water out is cleaner than the water coming in

Løbende Forbedring

WATER STEWARDSHIP	Basic	Bronze	Silver	Gold	Platinum
No discharge violations within the last two years					
Local- and business water issues characterized					
Stated intent to mitigate identified problems					
A facility-wide water audit is completed					
Process chemicals in effluent are characterized and assessed *or* Strategy for >20% of supply chain water issues					
Process chemicals in effluent are optimized *or* Progress against Silver level strategy					
Water leaving the facility = drinking water quality					

Ansvarlig virksomhedsdrift
og -etik over for alle
interessenter, herunder
forsyningskæde og miljø

A partner to all stakeholders

Løbende Forbedring

Social Fairness

SOCIAL FAIRNESS	Basic	Bronze	Silver	Gold	Platinum
Conduct streamlined self-audit					
Management plan to address identified issues					
Social responsibility self-audit + positive impact strategy					
Material specific audit/certification >25% of product ***or*** **Supply chain issues investigated and strategy developed** ***or*** **Conduct an innovative social project**					
Two of the Silver-Level requirements are complete					
All three Silver-Level requirements are complete					
Third-party facility-level audit is complete					

Cradle to Cradle Certifikat

CRADLE TO CRADLE

PRODUCTS

INNOVATION

INSTITUTE

LICENSED MARKS:

***Cradle to Cradle Certified*™ Bronze**

THE LICENSED MARKS IDENTIFIED ABOVE MAY BE LICENSED TO:

KKS™ Woodfiber ApS

FOR THE BELOW LISTED CERTIFIED PRODUCTS ASSOCIATED WITH THE NAME:

KKS™ Woodfiber Granulate

Cradle to Cradle Products Innovation Institute

ISSUE DATE
3 February 2016

CERTIFICATION #
2777

EXPIRATION DATE
2 February 2018

LEAD ASSESSMENT BODY:
Vugge til Vugge ApS

MATERIAL HEALTH ASSESSMENT BODY:
MBDC

Only the following products are considered Certified Product(s) within the scope of this certification and the associated Trademark License Agreement:

KKS™ Woodfiber Granulate

Certified under Version 3.1 of the *Cradle to Cradle Certified*™ Product Standard
Use of Licensed Marks is subject to terms and conditions of the C2CPII Trademark License Agreement and Trademark Use Guidelines.
Cradle to Cradle Certified™ is a certification mark licensed by the Cradle to Cradle Products Innovation Institute

Scorecard

CERTIFIED cradletocradle™

BRONZE

WOODFIBRE TRÄFIBERISOLERING

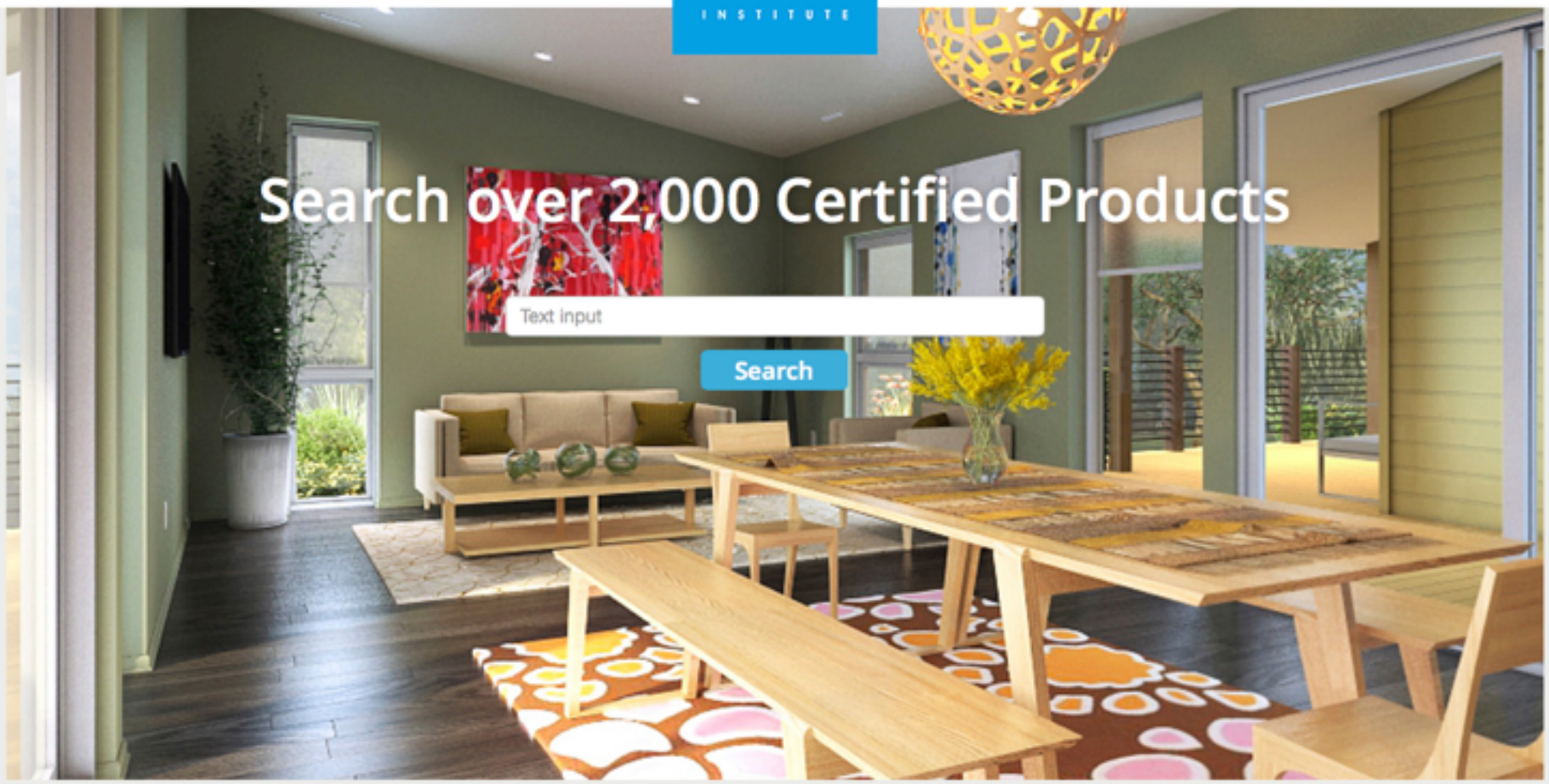
Woodfibre AB

Version 3.1

Renewal 02 Feb 2018

	BASIC	BRONZE	SILVER	GOLD	PLATINUM
MATERIAL HEALTH		✓			
MATERIAL REUTILIZATION			✓		
RENEWABLE ENERGY				✓	
WATER STEWARDSHIP					✓
SOCIAL FAIRNESS		✓			

C2C Certified Products Registry



C2C Certified Products Registry

Cradle to Cradle Certified™ Products Registry

KKS™ Woodfiber Granulate

KKS™ WOODFIBER APS

CERTIFIED cradletocradle™ BRONZE

Renewal date 02 February 2018

Manufacturer Description

Certification Standard Version 3.1

Download Certificate

LEED Credits

✔ LEED Material Ingredient Disclosure Credit Eligible

Where to Find:

Product Website

Manufacturer Contact:

Søren Nayberg
info@kks-woodfiber.dk
+ 45 21 45 90 24
Company Website

Cradle to Cradle Certified Product Scorecard	
MATERIAL HEALTH	Bronze
MATERIAL REUTILIZATION	Silver
RENEWABLE ENERGY & CARBON MANAGEMENT	Gold
WATER STEWARDSHIP	Platinum
SOCIAL FAIRNESS	Bronze
OVERALL CERTIFICATION LEVEL	Bronze

C2C Certified Products Registry

Cradle to Cradle Certified™ Products Registry

KALK Rødvig Kulekalk (KALK Rodvig Slaked Lime)

KALK A/S

CERTIFIED cradletocradle™ SILVER

Renewal date 13 October 2017

Manufacturer Description

Certification Standard Version 3.1

Download Certificate

LEED Credits
- ✔ LEED Material Ingredient Disclosure Credit Eligible
- ✔ LEED Material Ingredient Optimization Credit Eligible

Where to Find:
Product Website

Manufacturer Contact:
Hans Holmstrøm
hans@kalk.dk
+4551339015

Cradle to Cradle Certified Product Scorecard	
MATERIAL HEALTH	Silver
MATERIAL REUTILIZATION	Silver
RENEWABLE ENERGY & CARBON MANAGEMENT	Silver
WATER STEWARDSHIP	Silver
SOCIAL FAIRNESS	Silver
OVERALL CERTIFICATION LEVEL	Silver

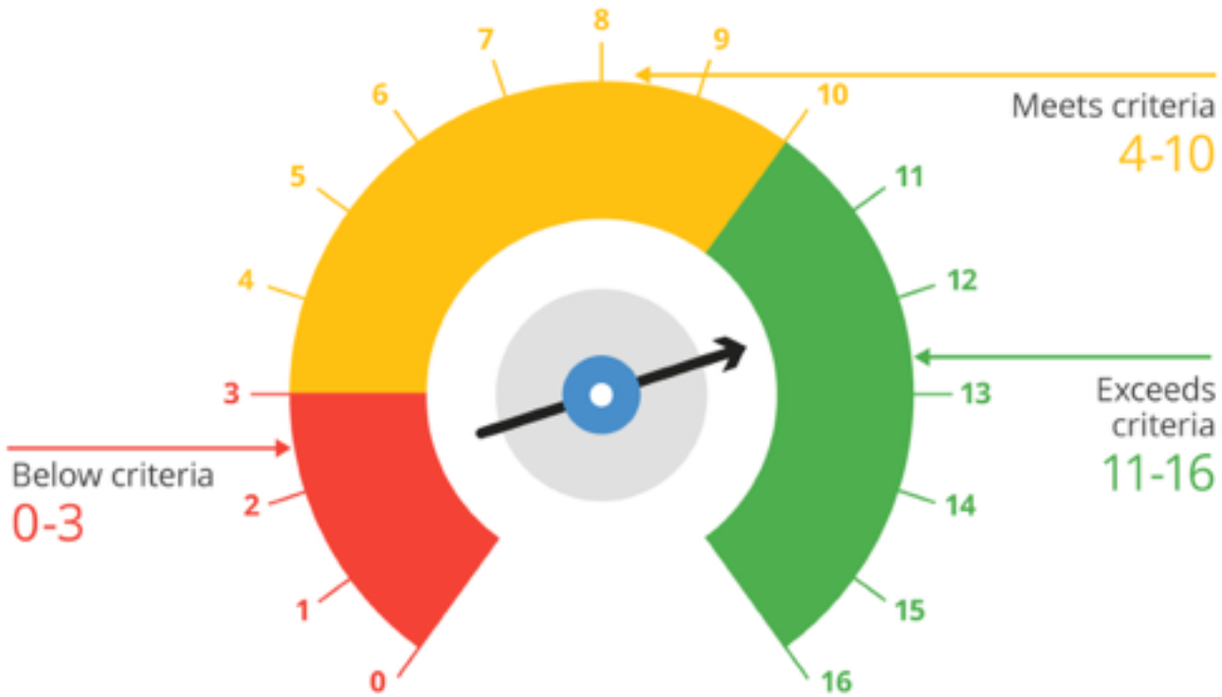
Fordele ved C2C certificering

CERTIFIED™
cradletocradle
PRODUCTS PROGRAM

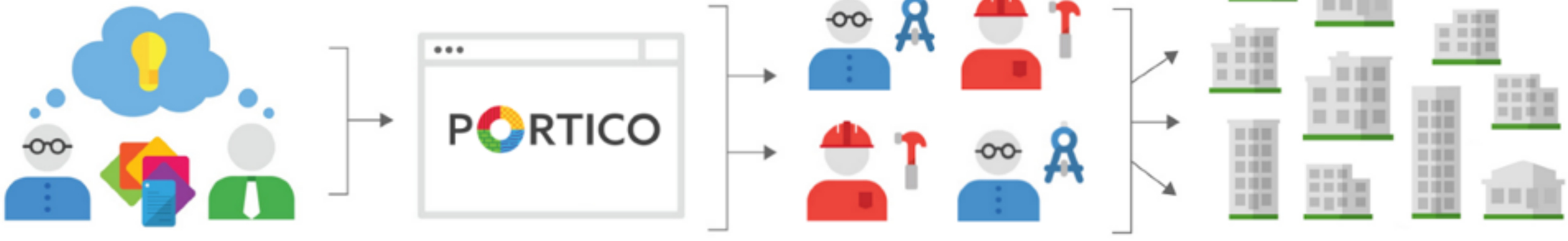
BREEAM
CODE FOR A SUSTAINABLE BUILT ENVIRONMENT
BRE GLOBAL

U.S. GREEN BUILDING COUNCIL
LEED CERTIFIED
USGBC

Google’s Portico Database



Cradle to Cradle certified™ products exceeds Google’s criteria



Designer & Manufacturer Collaboration

Bring products into Portico

REWS[e] Team

Manage Portico database
Work with project teams

Designers/Specifiers & Contractors/Project Managers

Use Portico to spec healthy materials

Healthy Buildings

Everyone enjoys healthier buildings

Produkter kan efterlade et positivt fodaftryk

…viser vejen

Spørgsmål?

Vugge til Vugge Danmark

Vugge til Vugge ApS
Ingolfs Allé 39
2300 København S
Tel +45 2428 9369
ah@vuggetilvugge.dk
www.vuggetilvugge.dk