

CRADLE TO CRADLE ALS INNOVATIONSTREIBER: MEHR ALS NUR KREISLAUFWIRTSCHAFT



Prof. Dr. Michael Braungart

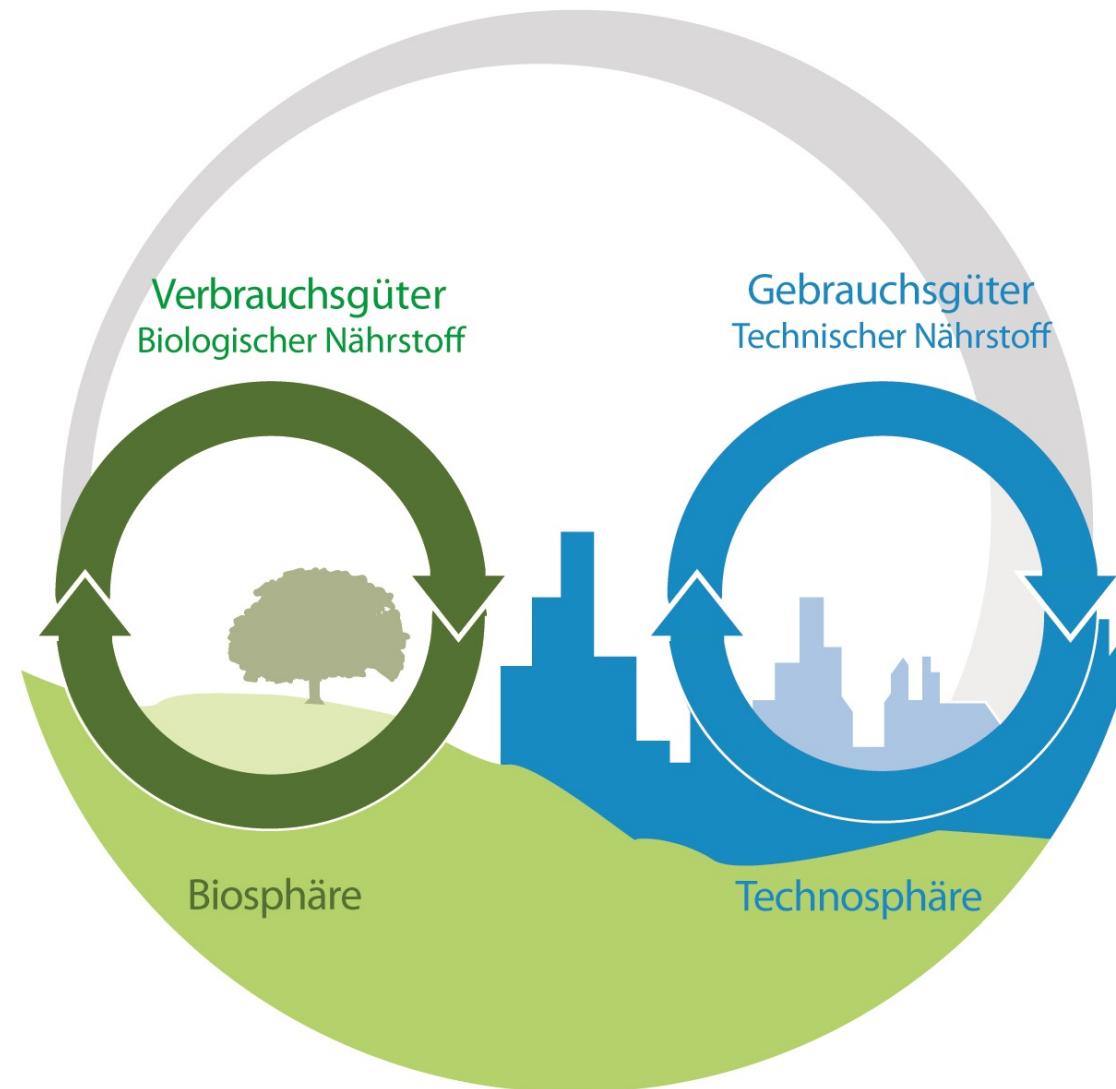


E P E A
The Cradle of
Cradle to Cradle

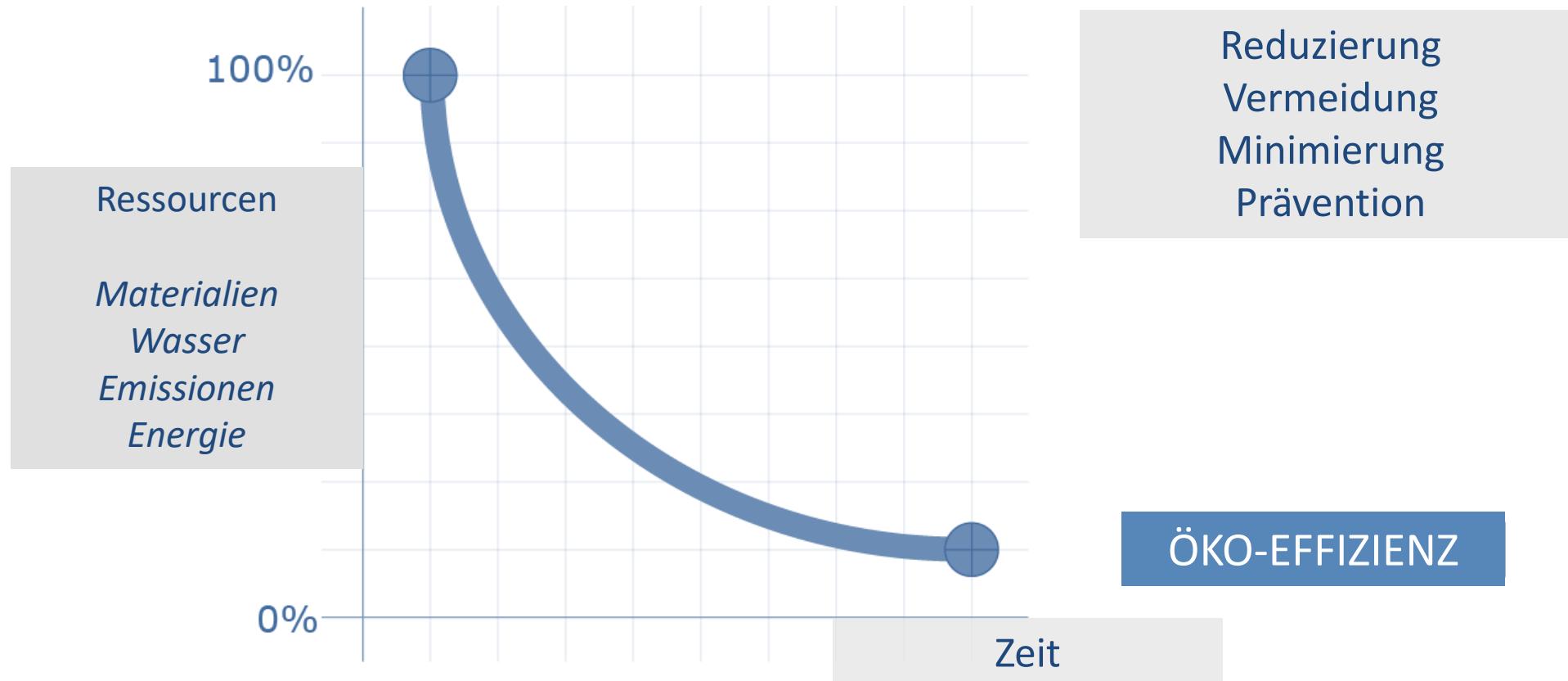
Modellregion Bioökonomie & Kreislaufwirtschaft

Webinar

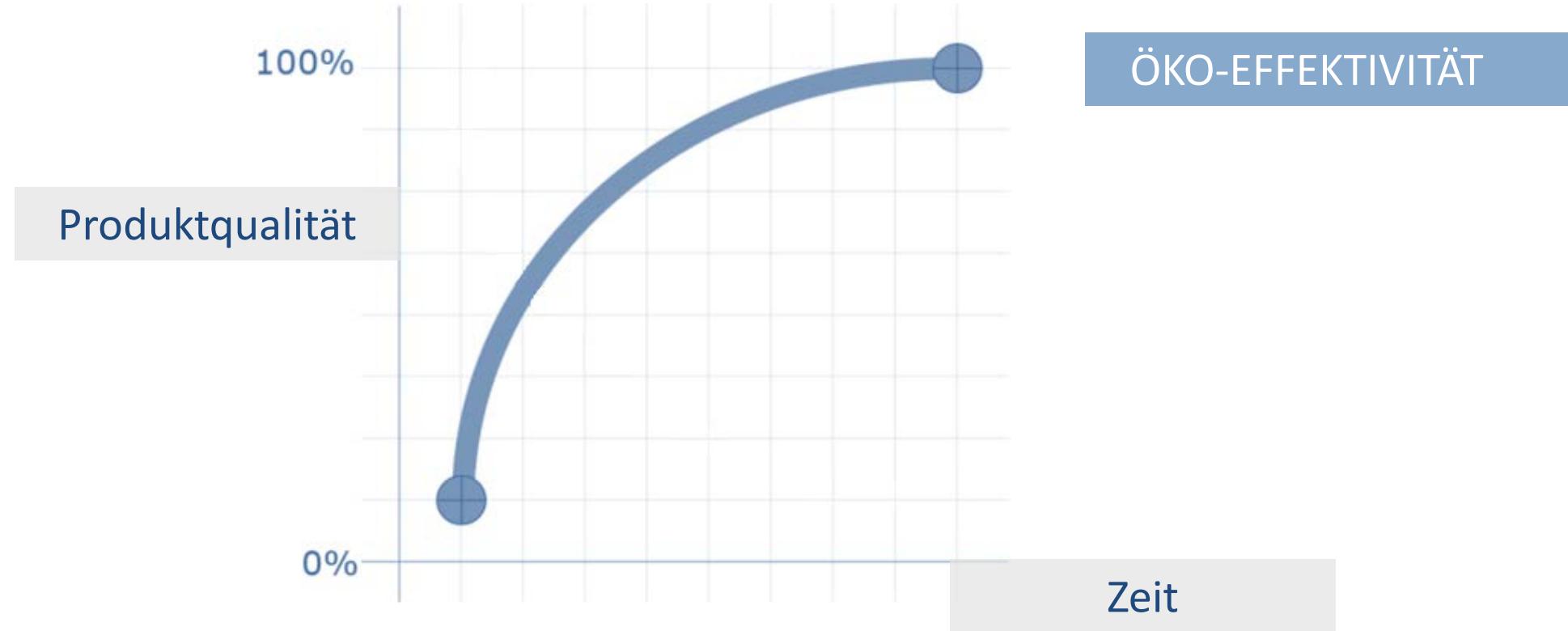
27.11.2020



NACHHALTIGKEIT - DEN KUNDEN ZUM FEIND MACHEN?



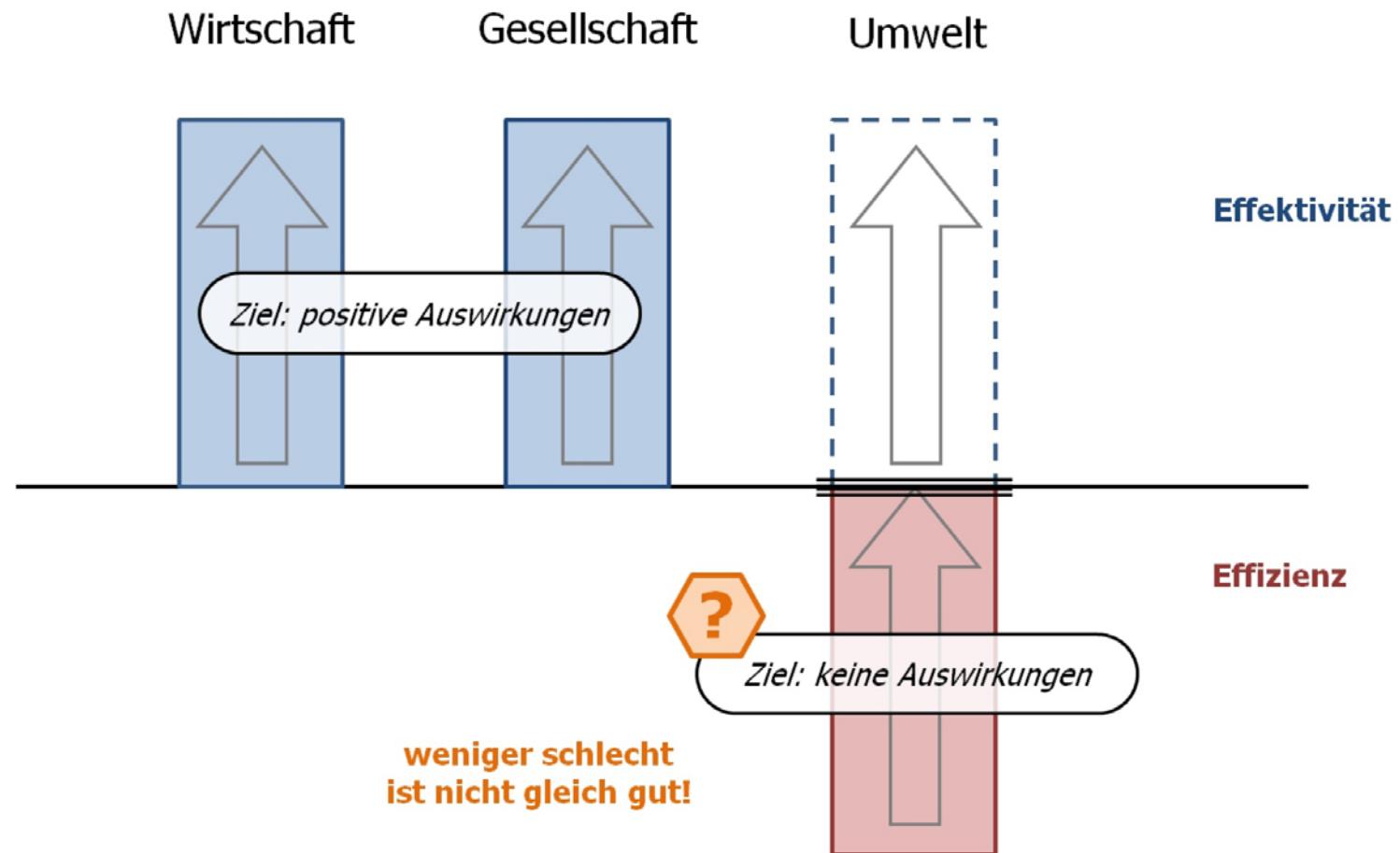
VON DER WIEGE ZUR WIEGE: ZIEL IST UMFASSENDE QUALITÄT & NÜTZLICHKEIT



ÖKO-EFFEKTIVITÄT & ÖKO-EFFIZIENZ



TRIPLE TOP LINE



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PRIMITIVES RECYCLING



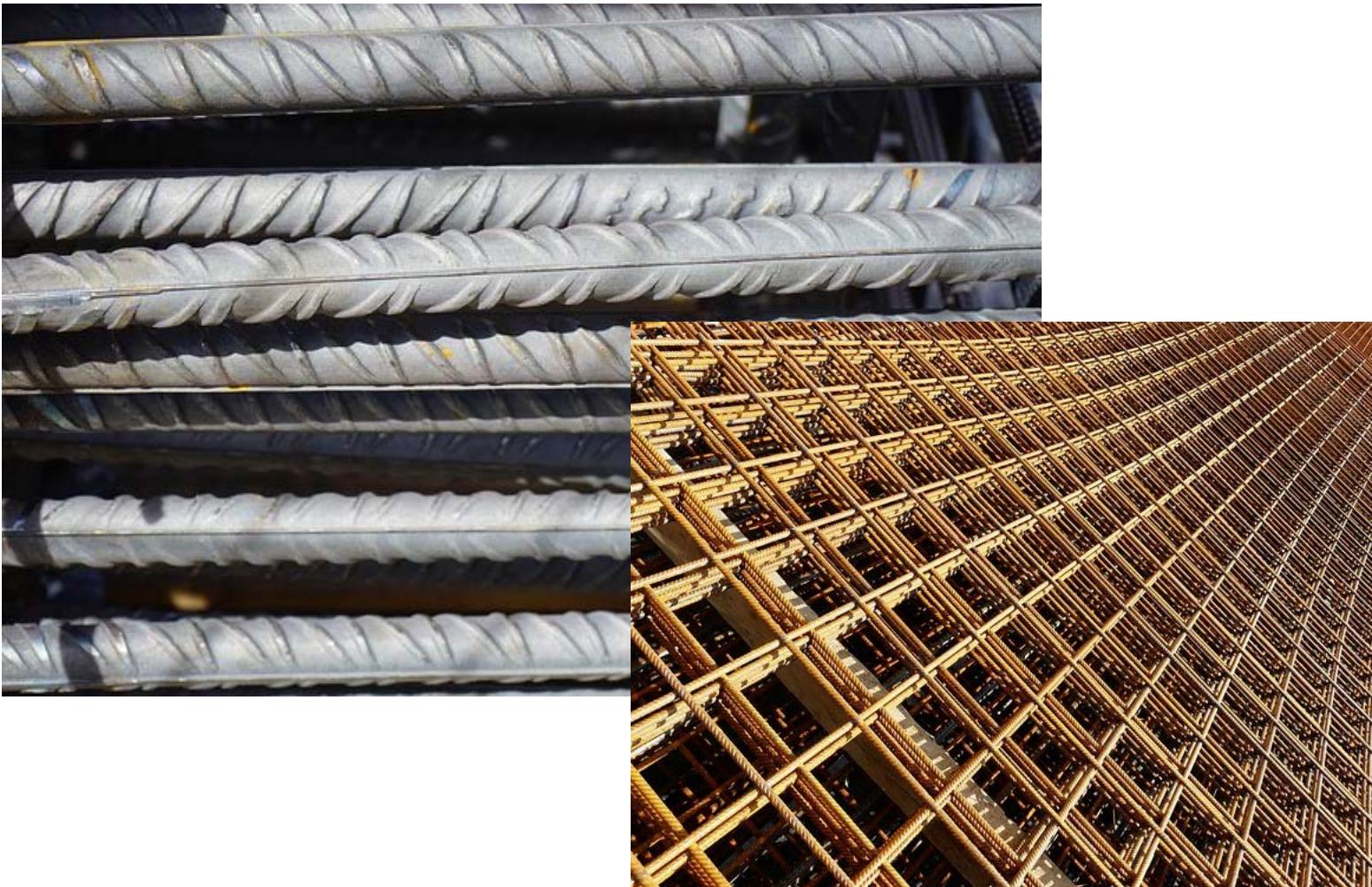
Mobiltelefone enthalten
41 chemische Elemente
Nur 9 davon werden recycled

PRIMITIVES RECYCLING



Ein Auto hat mindestens 40 verschiedene Legierungen

PRIMITIVES RECYCLING





VERWENDUNG PRIMITIVER MATERIALIEN



MINDERWERTIGER BAUSTAHL

Erdbeben Türkei 17. August 1999



BUNTMETALLE

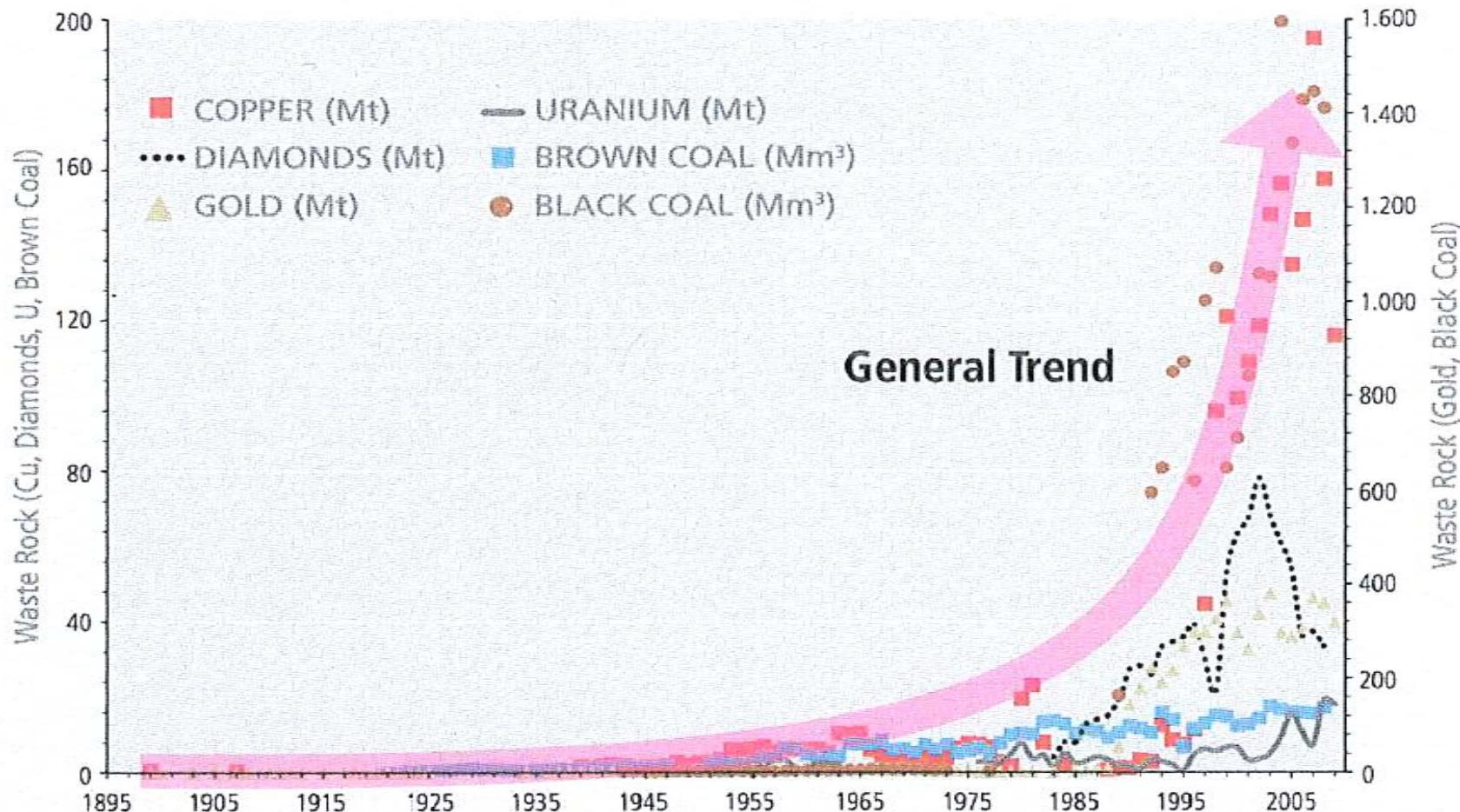


Nickel, Cobalt, Mangan, Molybdän, Vanadium, Palladium, Chrom,
Kupfer, Titan, Bismut, Antimon, Wolfram

KUPFER-KNAPPHEIT

General Trend of Waste Rock in Australian Mining

Source: Mudd (2009), Data for Australia as one of the globally most important resource providers.





Healthy printing!



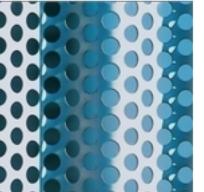
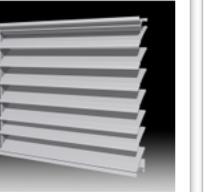
Eine EPEA-Initiative – unterstützt von der DOEN-Stiftung



C2C-BÖDEN



C2C-BAUMATERIALIEN

STRUCTURAL BUILDING MATERIALS Gold V2.1.1	BUILDING EXTERIORS Gold V2.1.1	BUILDING EXTERIORS Gold V2.1.1	GARDEN & LANDSCAPE Silver V2.1.1	CONCRETE, CEMENT, AND MASONRY Silver V2.1.1	BUILDING EXTERIORS Silver V2.1.1
					
ACCSYS TECHNOLOGIES PLC Accoya® Wood (Radiata Pine & Alder) Accoya® is a world leading high technology wood with properties that surpass the best tropical... MORE INFO »	HIGHLAND CRAFTSMEN Bark House® Poplar Bark Shingle Siding and Wall... Bark House® shingle siding was the first product HCO developed in 1990. We are the original... MORE INFO »	CENTRIA EcoScreen CENTRIA offers exterior perforated screenwall panels using Econolap 3/4", Style-Rib, and BRS-36 in 20... MORE INFO »	VAN HELVOIRT GROENPROJECTEN BV Bomenzand+ (Tree-Terra) Boral® manufacturing plants are located across the southeast and southwest, and this geographic... MORE INFO »	BORAL BRICKS, INC. Boral Bricks Boral® manufacturing plants are located across the southeast and southwest, and this geographic... MORE INFO »	BORAL COMPOSITES Boral TruExterior® Trim - Boral Composites Boral TruExterior® Trim is a revolutionary new exterior trim product that combines superior... MORE INFO »
SPECIALTIES AND MISCELLANEOUS APPLICATIONS Gold V2.1.1	INSULATION Gold V2.1.1	CONCRETE, CEMENT, AND MASONRY Gold V2.1.1	ELECTRICAL Silver V2.1.1	HEATING, COOLING, & VENTILATION Silver V2.1.1	DAYLIGHTING & SHADES Silver V2.1.1
					
CONSTRUCTION SPECIALTIES, INC. Expansion Joint Covers (Selected Models) C/S offers a wide variety of expansion joint covers for seismic, thermal and wind sway applications... MORE INFO »	BAUFRITZ-GMBH & CO. KG HOIZ Insulation The first sustainable natural insulation in the world, made from wood chips "HOIZ" by Baufritz,... MORE INFO »	HYCRETE TECHNOLOGIES Hycrete Admixtures - Hycrete Technologies Hycrete admixtures for concrete shut down capillary transport of water and chlorides through concrete... MORE INFO »	BYRNE ELECTRICAL SPECIALISTS Byrne Power/Data Centers Introducing an edgy solution to solve desktop power and data demands that takes your business where... MORE INFO »	CONSTRUCTION SPECIALTIES, INC. C/S Louvers Conventional, Storm Resistant and Hurricane (Anodized finish only) MORE INFO »	CONSTRUCTION SPECIALTIES, INC. C/S Sunshades Our Cradle to Cradle Silver certified C/S Cantilevered Sunshades not only look great on buildings... MORE INFO »



C2C-ARCHITEKTUR

UMFASSEND EFFEKTIV!



Lebensraum

Sauberer Wasser

Schönheit

Biodiversität

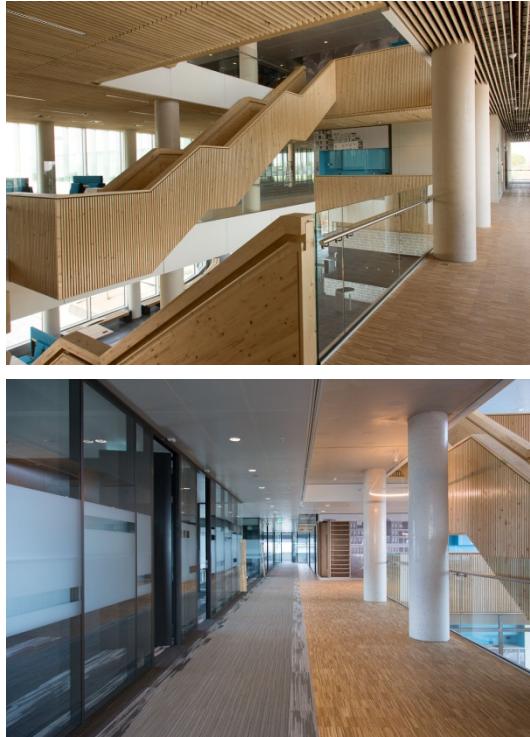
Frische Luft

LEBENSQUALITÄT!

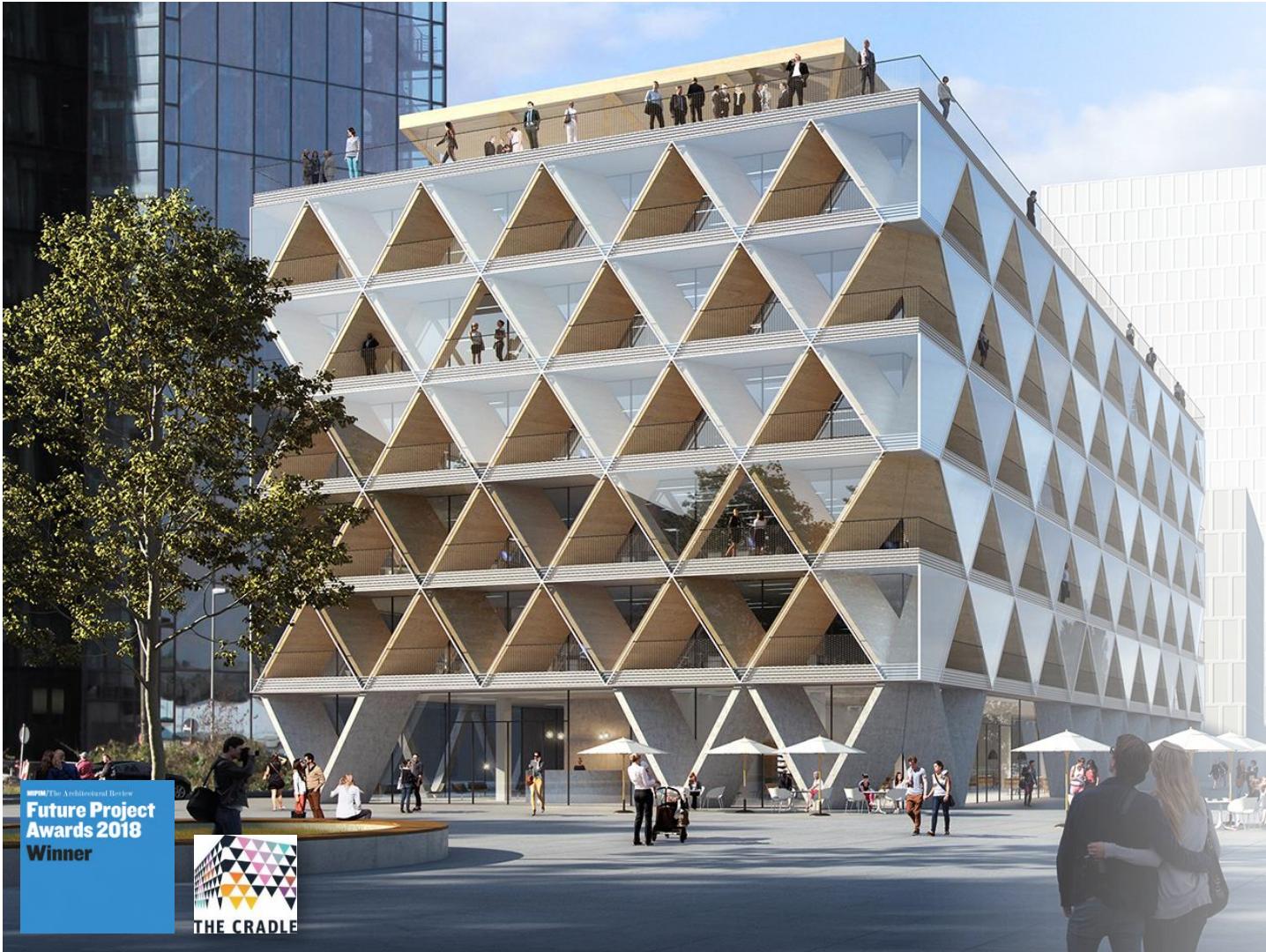
RATHAUS VENLO – ERÖFFNUNG 14.10.16



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THE CRADLE, MEDIENHAFEN DÜSSELDORF



THE CRADLE

DÜSSELDORF, DEUTSCHLAND

- » Bauherr: INTERBODEN
- » Architekt: HPP Architekten
- » Leistungen EPEA / DS:
 - erstes Holzhybrid-Bürogebäude in Düsseldorf
 - Komponenten werden nach Gebrauch recycelt
 - Reduktion der CO2-Emissionen
 - Reversible Verbindungen
 - Material Passports
 - » Zeitraum: 2018 - 2021

© HPP Architekten

BUILDINGS AS MATERIAL BANKS (BAMB)



Get involved in the stakeholder network for special interest groups and visit:
www.bamb2020.eu

1. Materials Passports 
2. Reversible Building Design 
3. Data management (including BIM) 
4. Business Models 
5. Policies and Standards 
6. Case Studies and Pilots 

C2C & DIGITALISIERUNG

Digitalisierung ↔ C2C

0 Definierte Zusammensetzung der Materialien

1 Bestimmung Produkt Bio-/Technosphäre

2 Definierte Nutzungszeit Technosphäre

Keine Digitalisierung ohne C2C!

Kein C2C ohne Digitalisierung!

SOLARSYSTEME ALS DIENSTLEISTUNG



C2C-REGIONEN

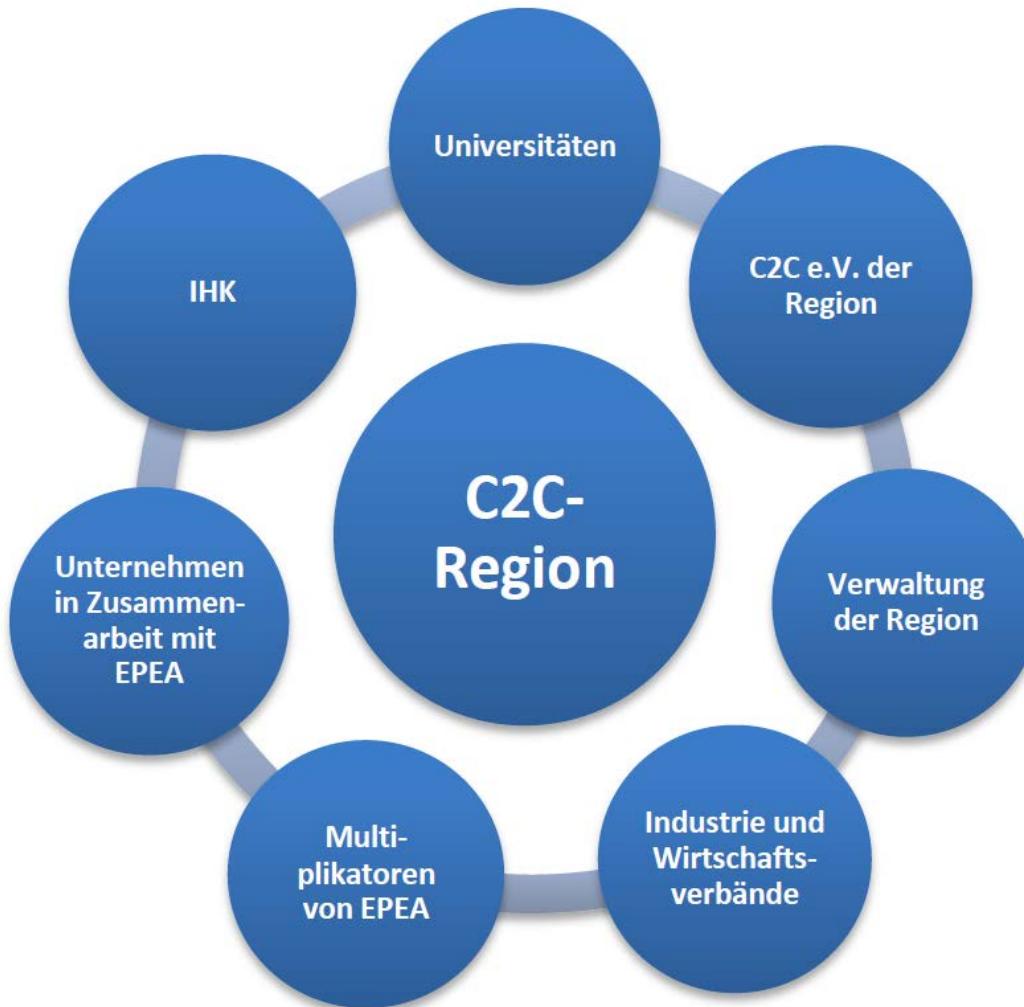


Abbildung 3: Die wichtigsten Akteure einer C2C Region. Quelle: EPEA

CRADLE TO CRADLE-MODELLREGIONEN



C2C-REGIONEN – EMSCHER-LIPPE



prognos

Schlussbericht: Potenziale der Umweltwirtschaft in der Emscher-Lippe Region

Förderhinweis:

Dieses Projekt wird gefördert durch:

Ministerium für Klimaschutz, Umwelt,
Landwirtschaft, Natur- und Verbraucherschutz
des Landes Nordrhein-Westfalen



Projektpartner:

Das Projekt wird umgesetzt durch:



Ansprechpartner

**WIN Emscher-Lippe
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EPEA:
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Niklas Jonas

Prognos AG:
Dr. Esther Dörenzahl
Oliver Lühr
Marlene Mehnert

Hamburg/Düsseldorf,
30.11.2016



C2C-REGIONEN - BIELEFELD

Zukunftspakt für Bielefeld



SPD, BÜNDNIS 90/DIE GRÜNEN,
Bürgernähe/PIRATEN

Februar 2015

STRAUBENHARDT WIRD C2C-MODELLGEMEINDE



Der Gemeinderat hält trotz steigender Kosten mehrheitlich an der bestehenden Planung der Wache fest. Foto: Wulf Architekten



Region

Kommentare (0) Drucken



26.07.2018

Auf dem Weg zur Modellgemeinde: Straubenhardt will mit Cradle to Cradle für nachhaltige Bauten sorgen

CRADLE TO CRADLE – BILDUNG & FORSCHUNG



UNIVERSITEIT
TWENTE.



RSM
Erasmus
ERASMUS
UNIVERSITY

 **LEUPHANA**
Universität Lüneburg


TECHNISCHE
UNIVERSITÄT
MÜNCHEN



GEMEINSAM DIE WELT VON MORGEN
GESTALTEN

MIT DEM CRADLE TO CRADLE PIONIER UND INNOVATIONSPARTNER

EPEA

A Building...

...THAT CLEANS THE AIR JUST...

...THAT CREATES A HEALTHY CLIMATE JUST...

...THAT CHANGES COLOURS WITH THE SEASONS JUST...

...THAT CELEBRATES HEALTHY ABUNDANCE AND BEAUTY JUST...

...THAT CAPTURES LIGHT & CO₂ TO MANUFACTURE RENEWABLE MATERIALS JUST...

...THAT USES MATERIALS LOCALLY IN A GLOBALLY BENEFICIAL WAY JUST...

...THAT RESISTS FIRES, STORMS, FLOODS, DROUGHTS, AND EARTHQUAKES JUST...

...THAT PROVIDES MATERIALS FOR CIRCULAR SYSTEMS JUST...

...THAT EXCHANGES INFORMATION WITH ITS ENVIRONMENT JUST...

...THAT OFFERS SHADE TO PROTECT SPECIES FROM THE SUN JUST...

...THAT SYNTHESISES COMPLEX SUBSTANCES JUST...

...THAT IS A HABITAT FOR HUNDREDS OF SPECIES JUST...

...THAT OPERATES WITH RENEWABLE ENERGY JUST...

...THAT GENERATES SOIL AND NUTRIENTS JUST...

...THAT SUPPORTS DIVERSE WAYS OF LIFE JUST...

...THAT PROMOTES AND CELEBRATES BIODIVERSITY JUST...

...THAT CREATES SYMBIOTIC COMMUNITIES JUST...

...THAT FEEDS ANIMALS AND PLANTS JUST...

...THAT IS SAFE FOR THE BIOSPHERE JUST...

...THAT MAKES OXYGEN JUST...

...THAT GROWS OVER TIME JUST...

...THAT PURIFIES WATER JUST...

...THAT MAKES GERMANS, TREE HUGGERS AND OTHER EMOTIONAL PEOPLE SING JUST...

...THAT ADAPTS OVER TIME, IS SELF-RENEWING, RESTORATIVE AND SELF-REPLICATING JUST...

...like a Tree.

A photograph of a sandy beach. In the foreground, several small, colorful flower arrangements are placed on the sand. In the background, two pairs of legs and feet are visible, standing on the beach. The ocean waves are visible at the top of the frame.

Eine Cradle to Cradle-Wirtschaft...