STRATEGICALLY MOVING TOWARDS CIRCULARITY

Circular Design Guideline

Certified Corporation

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THE CHALLENGE

Close the circularity gaps in your portfolio

Your business is facing challenges in the likes of:

- Varying stages of Circular Economy (CE) readiness across a diverse product portfolio
- Complex/heterogeneous product portfolio looking to transform all products to become circular
- Lack of guidance for the R&D/Project team
- Pressure from the CSR or compliance department

The Circular Design Guideline (CDG) will drive an equal level and consistency across the portfolio and allows proactive planning to boost your products' readiness for the Circular Economy.



Circular Design Guideline

The Circular Design Guideline is a physical or digital guidebook with industry/client specific strategies, leading the product development process for Circular Economy (CE)-readiness. This includes:

Standardized circular experience design

Increased CE readiness level of individual product

Standardized CE readiness across portfolio











We innovate for the circular economy.

With our legacy in product development and our expertise in Design for the Circular Economy, we cover all areas required to create overarching guidelines for your whole portfolio and circular (brand) experience.

We are aware of existing and upcoming regulations and respect internal and external standards. We think through customer demands and changing market dynamics while considering resource use and supply chain challenges. Interdisciplinarity is written in our DNA.

We are ready to successfully steer your product portfolio into the circular economy with an individualized circular design guideline tailored to your brand, portfolio, and stakeholders. The foundation for development is a four-step process. As laid out on the next pages.

A circular design guideline initiates circularity across your portfolio. It is the foundation for your business to lead in sustainable and regenerative practices.







The first step towards your tailored Circular Design Guideline is a kick-off workshop format to assess the following:

- Where do you stand in your journey towards circularity?
- What is your strategy?
- What is the BU(s) perspective?
- Which steps are you already taking towards (internal) CE readiness standards?

Output:

Analysis & Status Quo Report



Identification of KPIs & Definition of Impact Areas

Next we take a deep dive into identifying which specific stages of the product development process can be standardized in order to promote sustainability and minimize waste.

This includes examining various impact areas such as material selection, design principles, production methods, and end-of-life considerations.

Subsequently we establish benchmarks that outline the key principles that your business should strive to incorporate into the product development processes.

Output: Strategic Circularity Goals

02



Laying out the Roadmap towards a **Portfolio-specific Guideline**

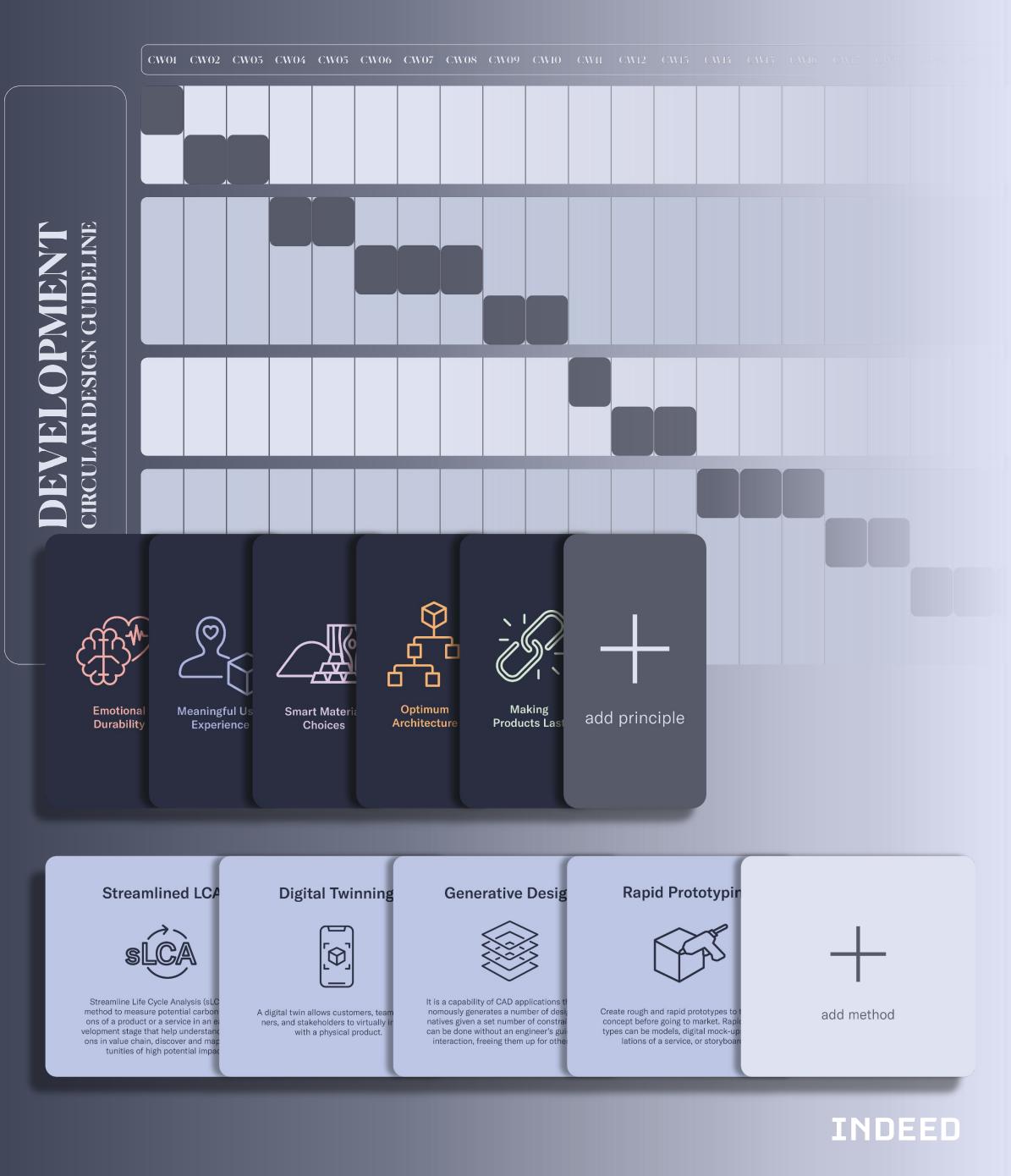
To unlock the development of the circular design guideline we finally synthesize decisions and internal standards by utilizing tools like decision matrix and system mapping.

This results in defining design and action principles that serve as a foundation for sustainable and regenerative practices in your product design process.

Output:

03

Action steps towards the Circular Design Guide

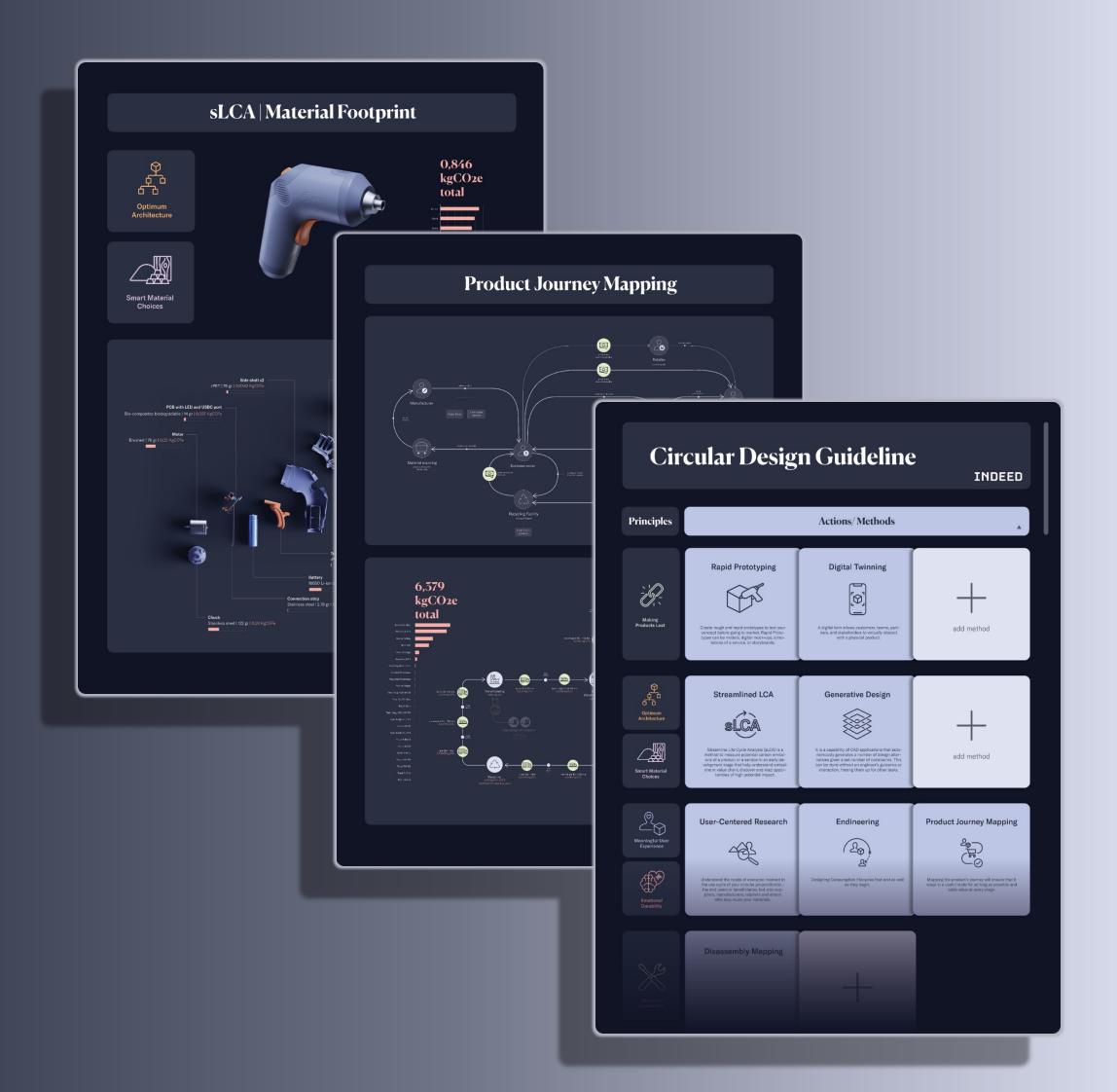




The development of the guideline continues with a pilot project or small-scale production run – subsequently to evaluate its effectiveness and identify areas for improvement.

Once the circular design guideline has been refined, it is implemented in the product's design and manufacturing process.

Output: TBD





CREATING A CIRCULAR SYSTEM

FOR PLAN

Captured Value of Circular Systems

Benefits

REDUCED WASTE & EMISSIONS

Circular systems aim to reduce waste and emissions by keeping products and materials in the loop and minimizing the extraction of new resources.

ENHANCED CUSTOMER LOYALTY

By providing customers with high-quality products and services that are designed to last longer and have a lower environmental impact.

REDUCED COSTS

Businesses can save money on raw materials, production costs, and waste disposal by keeping products and materials in use for longer and reducing waste.

ACCESS TO HIGH-QUALITY PRODUCTS

Circular systems prioritize the reuse of products and materials. This can provide consumers with access to high-quality products at a lower cost.

INCREASED TRANSPARENCY

By providing information about the origin and impact of products and materials, consumers can make more informed choices about the products they buy and the companies they support.



PLEASE REACH OUT FOR A FIRST FREE CONSULTATION.

Circularity is the path to sustainability.

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PLEASE REACH OUT FOR A FIRST FREE CONSULTATION

If you are running a circular business and you seek to create a new product or service.

If you are managing a product that you want to become circular, or if you want to create a circular product from scratch.

If you are considering moving your business to circularity and need help weighing your options and mapping it out.

If you want to evolve the innovation culture in your company through circular thinking.



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ABOUT US

What makes us different?



WHY & WHO WE ARE

We are the innovation firm for a circular economy.

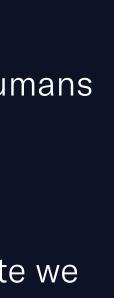
The climate crisis and finite resources are very real. Sustainability is not just our shared responsibility but a critical success factor for every business. We must develop circular value propositions for both business and the environment, balancing the benefits of all stakeholders instead of focusing on single customer needs.

The future must be circular.

We combine design, engineering, and strategy services with sustainable development practices and behavioral science principles to drive your business into a circular future.



We became a B Corp to demonstrate our active commitment to eliminate waste, regenerate resources, close the lifecycle loop and help humans to adopt circular business models. As a Certified B Corporation, we report on all aspects of our business so that we can validate we are contributing to the positive impact that we promise.



INDEED



Identify

We identify circular opportunities for your business by conducting research and helping you shape your innovation strategy.



Build

We design, build and deliver circular products and services by combining design excellence with sustainable business models.

Embed

We help to embed circular thinking in your organization by inspiring and educating your staff, redesigning your innovation culture, and creating a vision and roadmap towards circularity.





Scale

We enhance and scale circular business systems by measuring and optimizing their performance and fostering cross-company ecosystems.



WORK CASES





Consumer innovations with circular R-strategies

Enabling CO2 neutral urban delivery



Anchoring circularity in the product range

We designed and engineered a close to zero emission home appliance with a lifetime guarantee delivered by the capacity for consumer-paced self-repair and end-of-life recovery of all parts. Economics and sustainable material were respected by design.

We developed the E3-Trix, an electric-trike transportation solution that enables small businesses and retailers to deliver their products efficiently, safely, and costeffectively while reducing inner-city traffic, thus improving the city's living space. Development included service, industrial and systems design.

We worked for years with We have worked with Hilti for many years, improving Linde AG, one of the largest sustainability and usability industrial gas manufacturers aspects in their products and in the world. In the business portfolio modularity based on case of the industrial gas extensive field research and cylinder, the company deep dive into construction established a closed circle workers' needs. This led to with strongly standardized and fixed processes. Our the launch of many highly successful and benchmarkapproach made this cycle more sustainable, efficient, setting products. and safer by enhancing the industrial gas cylinder and making it smart. Moreover, an economic impact on the brand and the profit could be business. achieved.

And more:

AIRBUS

Beiersdorf







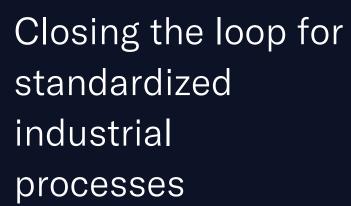




eppendorf







Circular business modeling and strategic roadmap



Optimization of packaging waste management

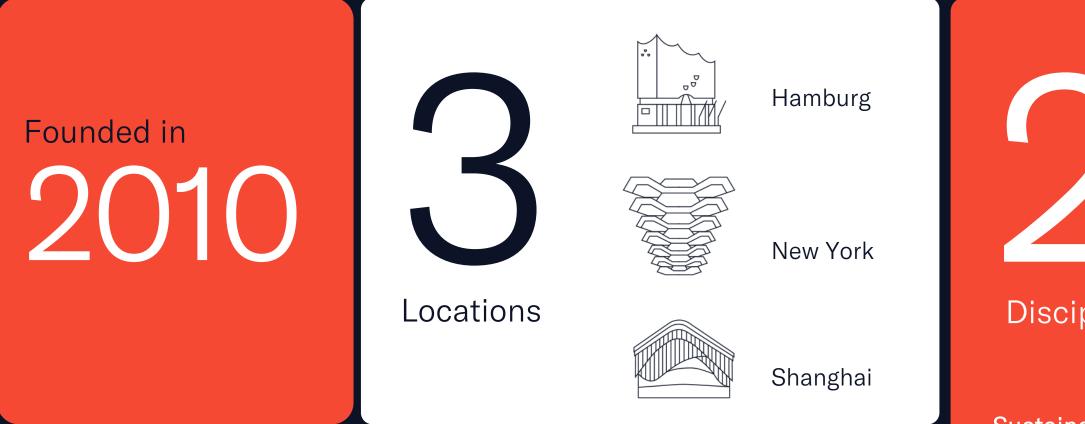
We unraveled the multidimensional landscape of the biomass energy business and its complex ecosystem to guide business decisions.

In a three-step-consulting we supported identifying unique customer benefits and competitive advantages for the biomass value chain by exploring future scenarios and strategic roadmap to win in the Biomass market and achieve a complete circular

Our task was to optimize the packaging sustainability of 1300 SKUs for a large European supermarket retailer in China with the goal to integrate all private-label products' packaging for endof-life integration into the existing waste management system of East China.



WE INNOVATE FOR THE CIRCULAR ECONOMY



Facts about us

Inhouse 3D & electronics prototyping lab

Independent and privately owned

10% owned by employees

Team members from 13 countries speaking 10 languages



Impact Verification/Evaluation Circular Business Modeling & Opportunity Identification Circular Strategy & Roadmap Development **Circular Innovation Management** Circular Value Chain Design

Service Design User Research & Persona Dev. Business Design Service Blueprint

Industrial Design Planet-Centric Design Life Cycle Design Assessment Circular Material Sourcing Design Leadership & Strategy

Mechanical Engineering Technology Concepts Al Innovation Strategy



Sustainable Circularity











3D / CAD Engineering Design for Manufacture

Technology & Development Software Architecture (Low Emission) Frontend & Backend Development Circular Hardware development Integration test and acceptance support

UI/UX Design

UX Strategy & Testing Interaction Design Phygital Design AR/ VR Applications

Artificial Intelligence

Al Opportunity Analysis Al Concept Development AI Prototyping

Climate ARE Neutral

Member of







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