

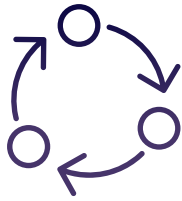
RESOURCE MANAGEMENT IN CIRCULAR ECONOMY SMEs WEBINAR #1

Towards a circular economy: closing the loop in
resource management for SMEs in Egypt



Supported by The European Union





Circular Economy -
what does it mean
and why it matters



Case Studies



Frameworks and
Tools



Ensuring compliance
- SDGs, ESG ,
Certification &
Standardization



Circularity
opportunities for
SMEs



Circular Business
Model - and what
does it take to get
there - Financeable
circular business

CIRCULAR ECONOMY

Introductory Quiz



CIRCULAR ECONOMY

why it matters and where
to start?



Linear Approach

Linear Economy Doesn't Work



30% of food is wasted globally



Cars are used only 8% of the time

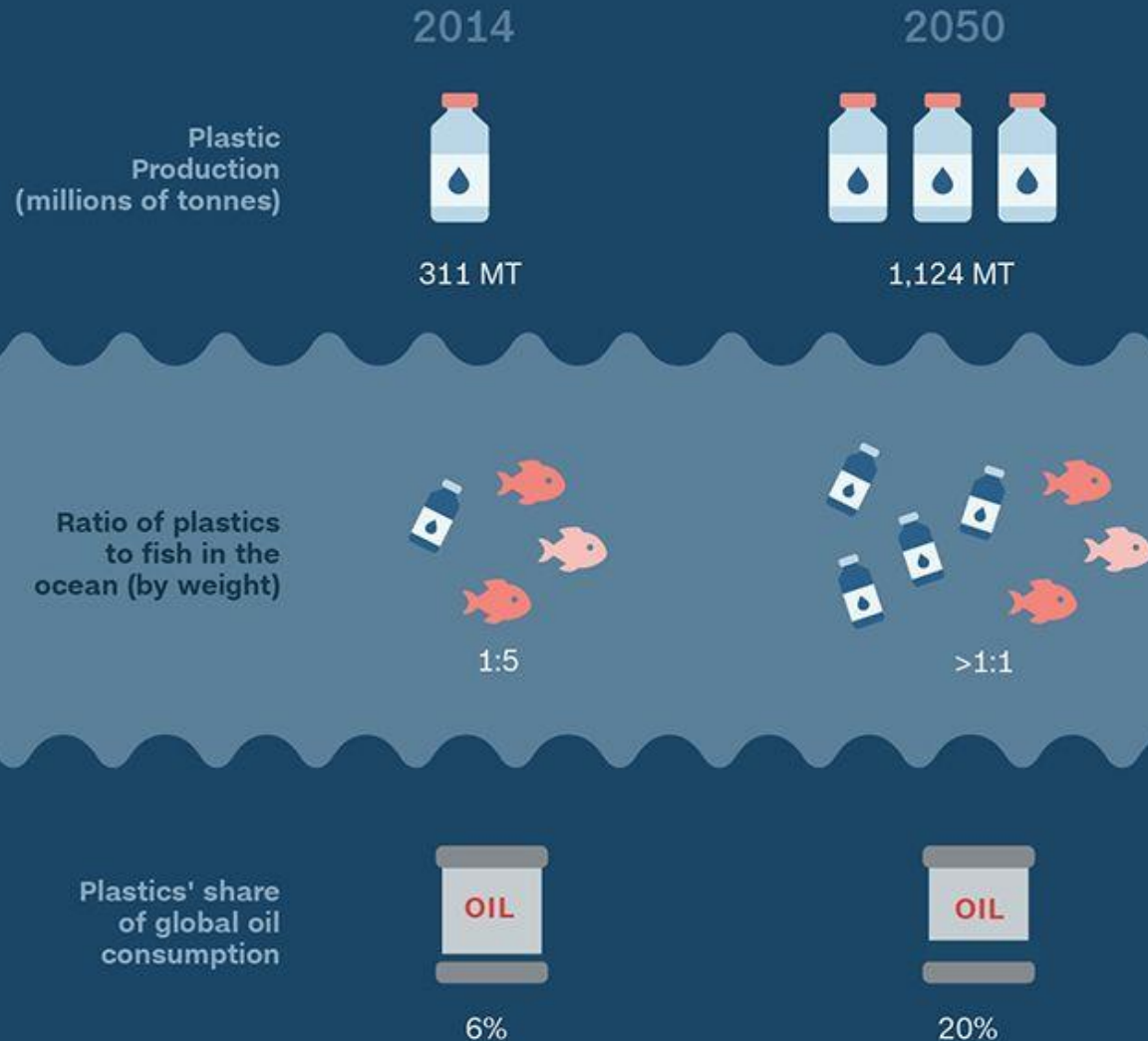


Offices are unused 35-50% of the time



Only 14% of plastic packaging is recycled

Plastic Worlds



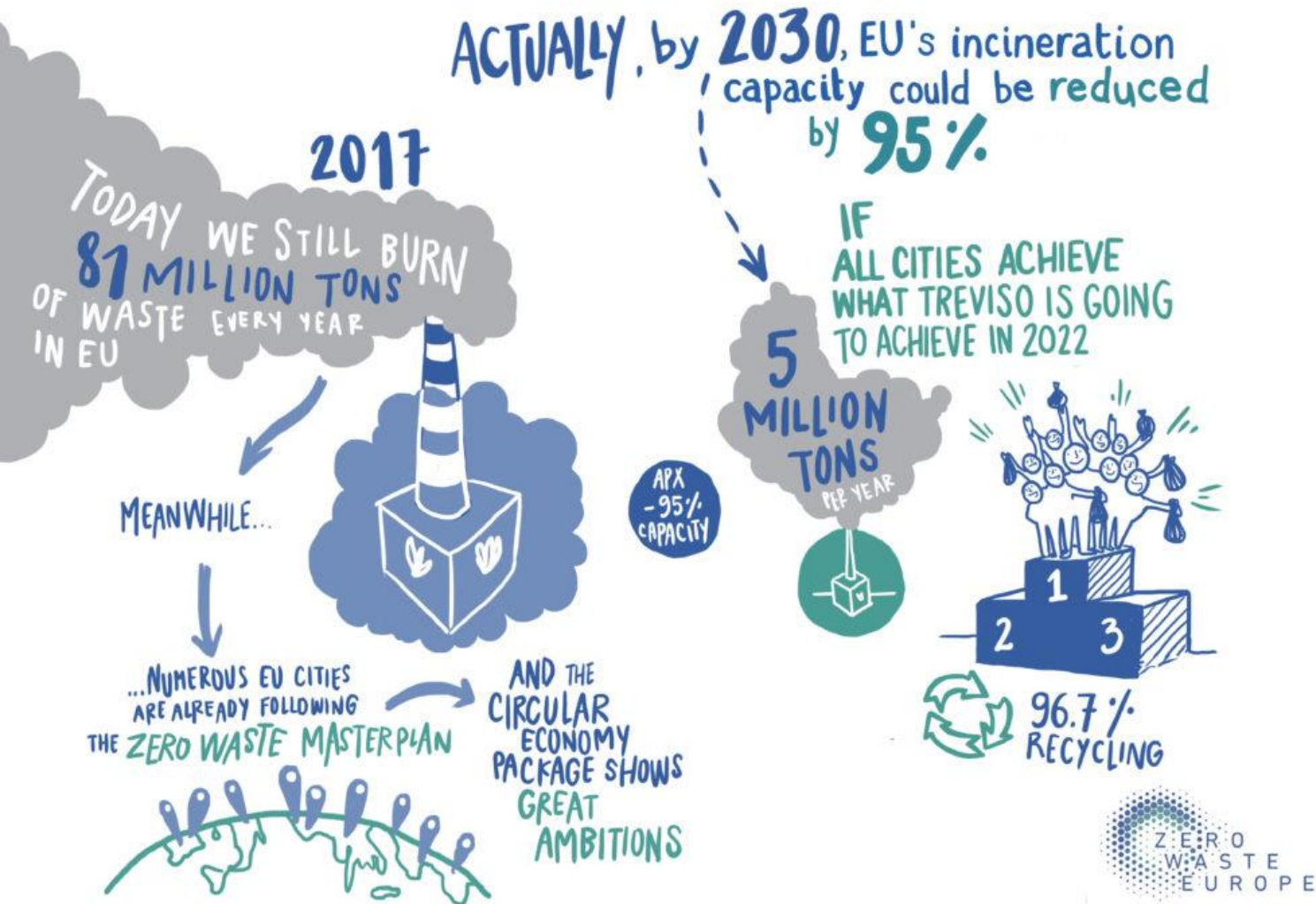
1,124

Million tons of plastics
will float in the oceans
by 2050

173 of The Great Pyramid of
Giza (Khufu) in weight

1333 of The Great Pyramid
of Giza (Khufu) as volume
(compacted plastic waste)

Waste Incineration Is The Opposite To Circular Economy



Circular economy is not about treating waste...

It is about discovering the true value of materials

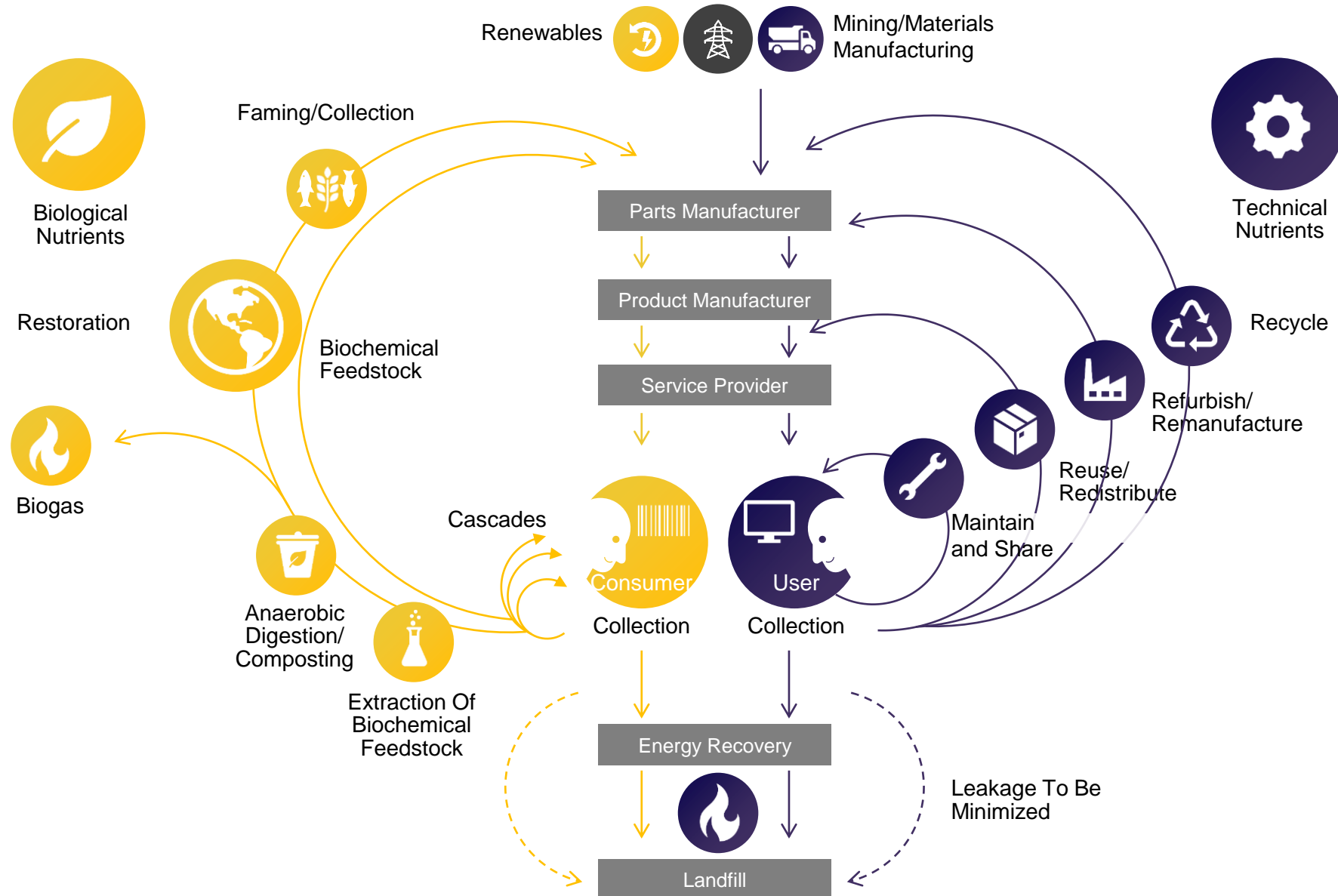


TAKE - MAKE - USE - DISPOSE - POLLUTE

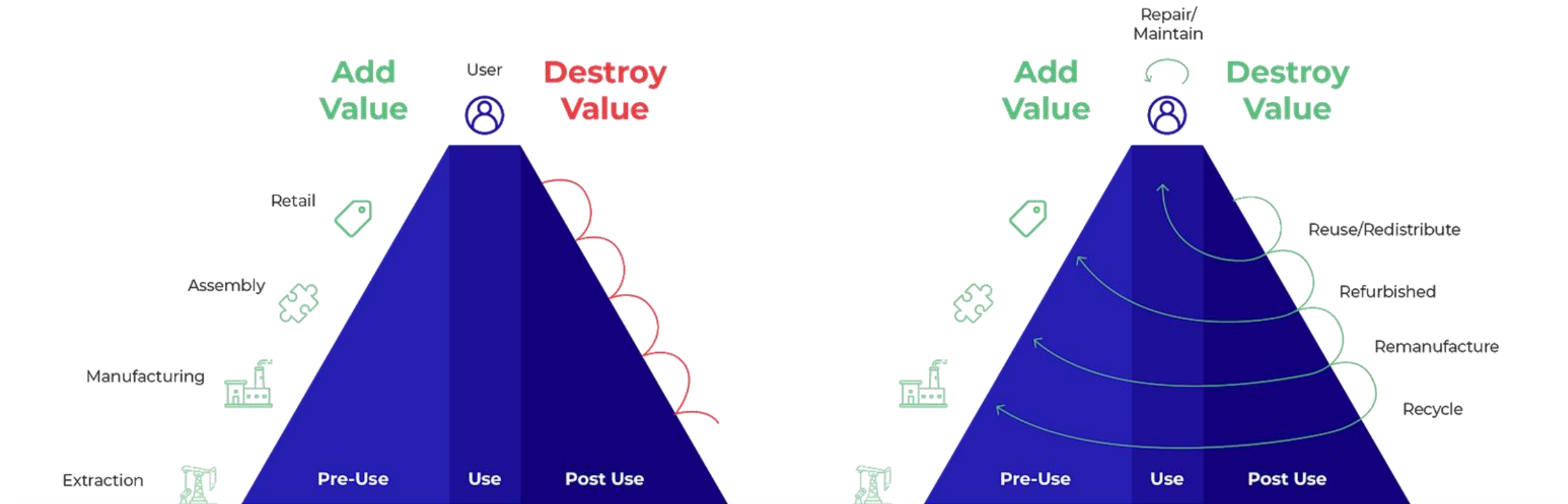
Simple Circular
Economy Concept



Defining circular economy : Biological and Technical Nutrients



We should strive to keep the products “on the hill” for as long as possible at their highest value



An economic system which is not linear **(Take- Make – Dispose)**

that aims to minimize the

non-renewable resources

cut out waste,

keep products and materials in **Reuse--Cascade**

use, **Refurbish -Remanufacture**

Recycle

and regenerate natural systems

use of



Bio-based resources

e.g. sugar-based plastic



Biodegradable resources

e.g. cotton



Compostable resources

e.g. grass clippings



Metals

Upcycling, Recycling, and Downcycling

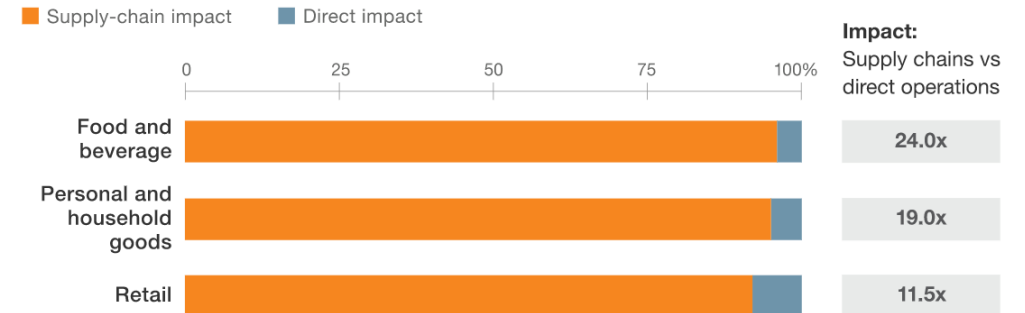
Environmental Impact is any adverse or beneficial change to the environment caused by a facility's activities, products, or services. It is the effect our actions have on the environment.

Circular supply chains can leverage the transition.

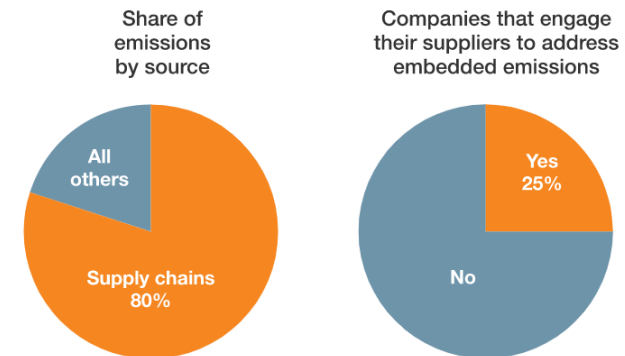
Companies know it, yet action is just starting to emerge.

Most of the environmental impact associated with the consumer sector is embedded in supply chains.

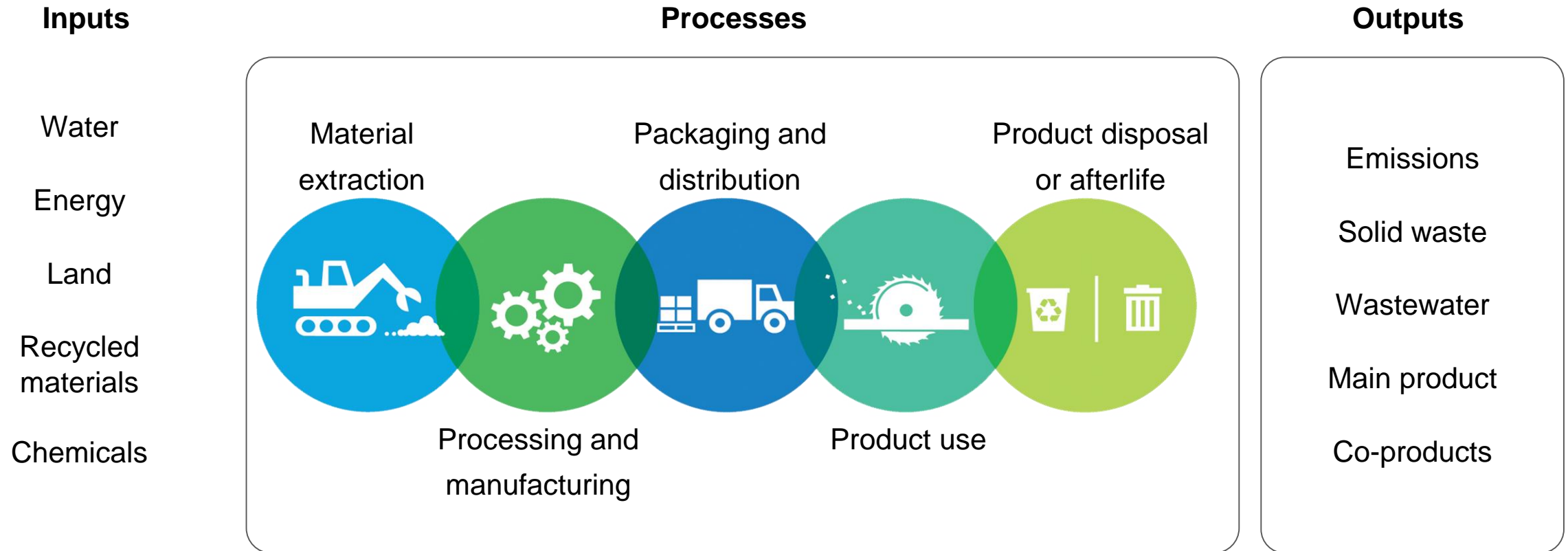
Impact by source on natural capital resources
(eg, air, soil, or water) for selected industries



Greenhouse-gas emissions
for 4 industries studied



Accounting for what comes in, what happens to it, and what goes out.

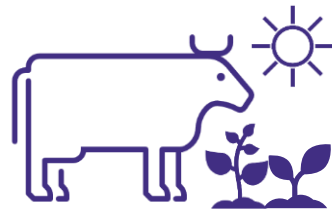




Human Health



Resources



Ecosystem



Global Warming



Water Consumption



Land Use



Ozone Formation



Fine Particulate Matter Formation



Human Carcinogenic Toxicity



Mineral & Fossil Scarcity

Circular business models make companies more profitable and resilient in the long term, while benefiting society at large. And the transition is already underway.



48% reduction in GHG
emissions by 2030



18% growth in
household incomes
by 2030



25\$ trillion saving by
2050



a thriving economy,
aligned with nature



From less bad to only good is the new normal

- Microsoft pledged to go [carbon-negative by 2030](#) without offsetting its emissions
- Starbucks to [give more than it takes](#)
- [“Purpose Beyond Profit”](#) and long term reputation more important than short-term profits – Apple promoting repair even if it limits their growth

More than 7000 organizations report to CDP

They represent over 50% of the value of global capital markets



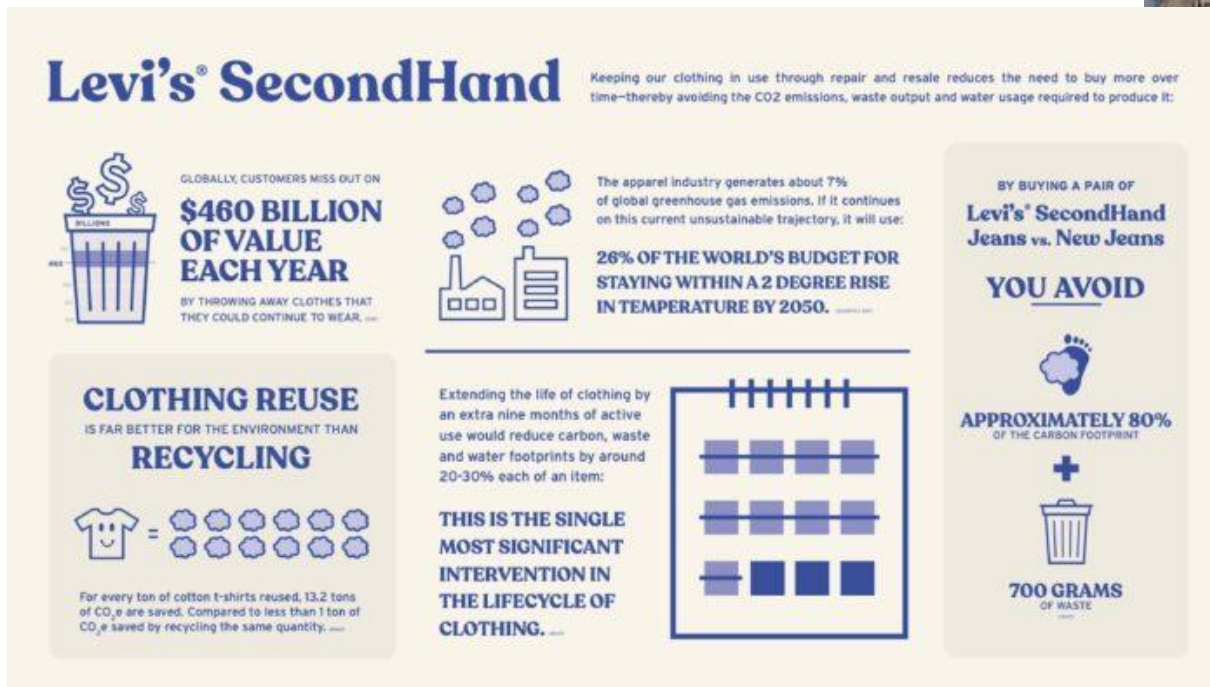
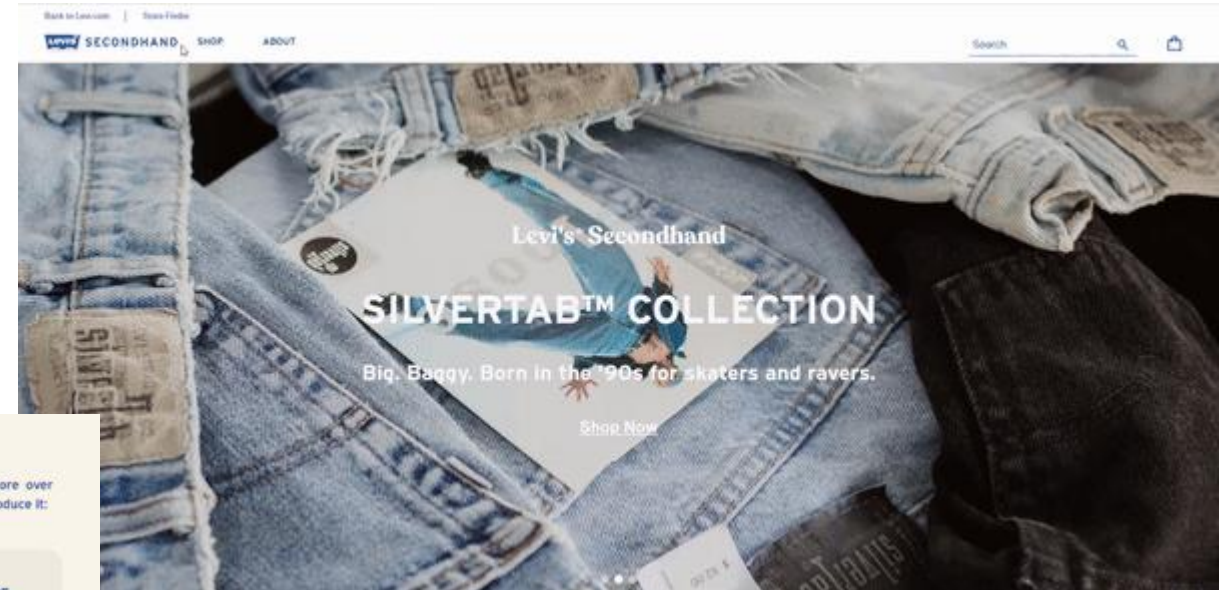
100%

recyclable or reusable
packaging by 2025

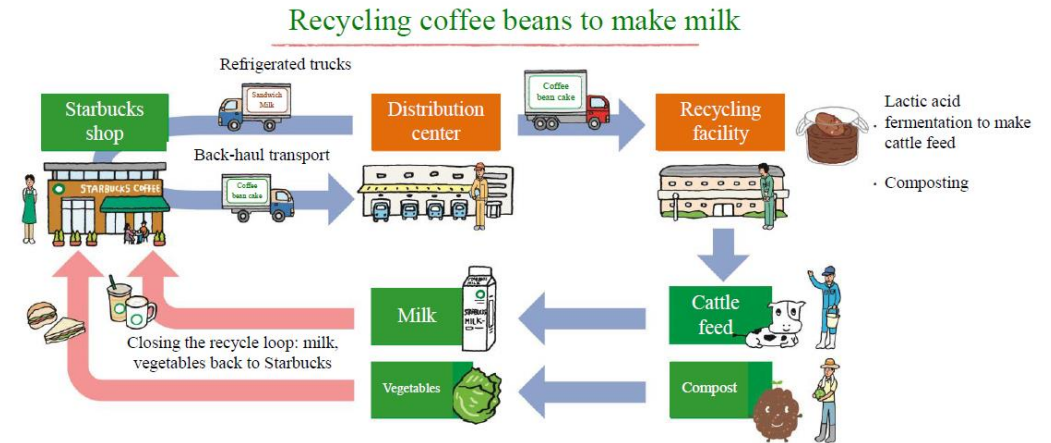


Consumers face “clean label overload”

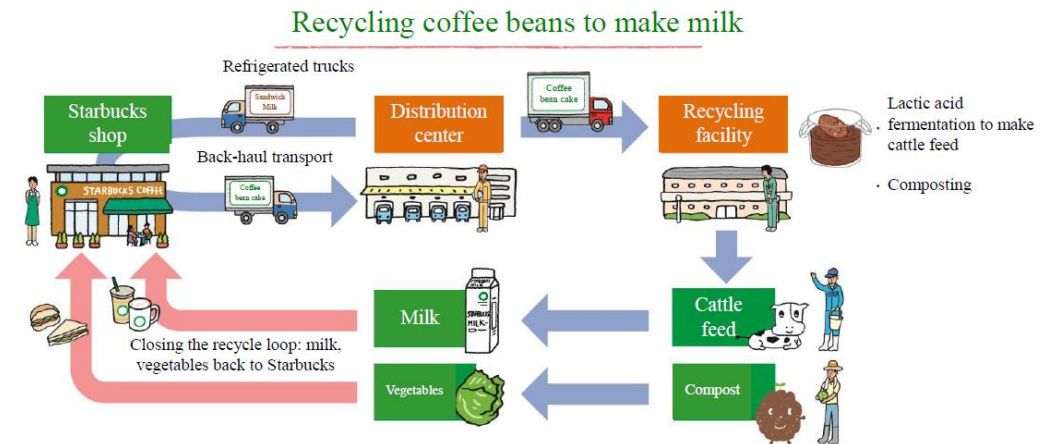
Brands should look beyond clean labels and make sure their brand and reputation resonate with sustainability and circularity. Consumers want the whole company to be good, not a single campaign or a single product.



Starbucks has been delivering coffee waste as a free soil enhancer for its customers' gardens since 1995. Coffee grounds have also been used as feed for cows that produce milk for the company.



Starbucks has been delivering coffee waste as a free soil enhancer for its customers' gardens since 1995. Coffee grounds have also been used as feed for cows that produce milk for the company.



“From spore to slab, the entire process only takes around ten days”

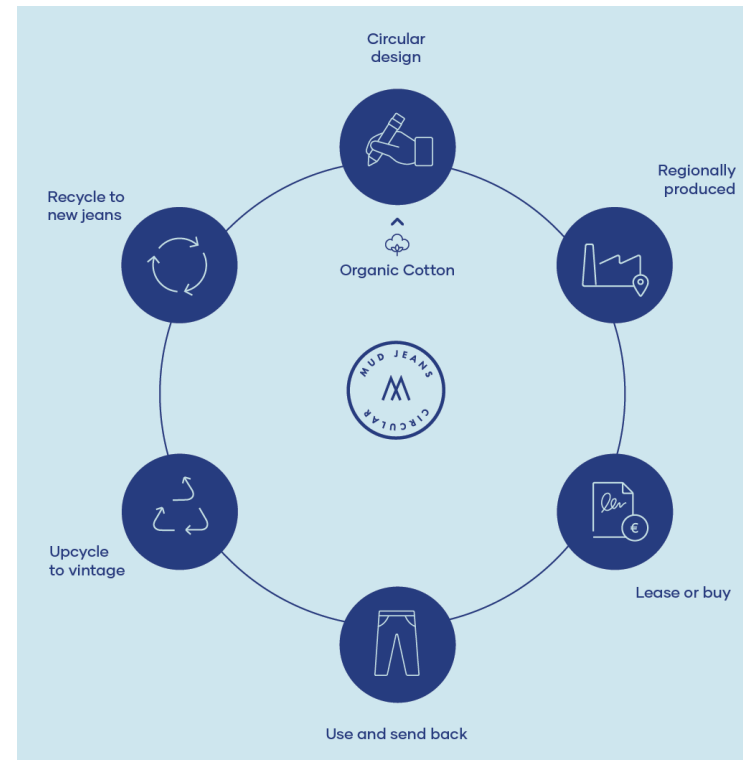
Ecovative grows materials that are compatible with Earth, collaborating with companies to create plant-based meat and biodegradable packaging.

Our MycoComposite™ platform uses mycelium, the root structure of mushrooms, to bind together organic agricultural by products, such as wood chips, to produce durable, bio-based and 100% compostable materials.



MUD Jeans, within the fashion industry since 2012, has adopted circular economy to their business.

- MUD Jeans uses **only 581 litres of water** to produce one pair of jeans, compared to the industry standard of 7,000 litres.
- New denim fabrics are made out of collected **post-consumer jeans**.
- Global Organic Textiles Standard (GOTS) certified cotton



Linearity challenge

Resource scarcity, inefficient use of resources, increase in commodity prices.

Circular Solution

Exchange of material, water, and energy streams between 9 public and private companies.

Making it happen

A residue from one company becomes a resource at another through algae production facilities, bio-ethanol production and steam and air conditioning supply.

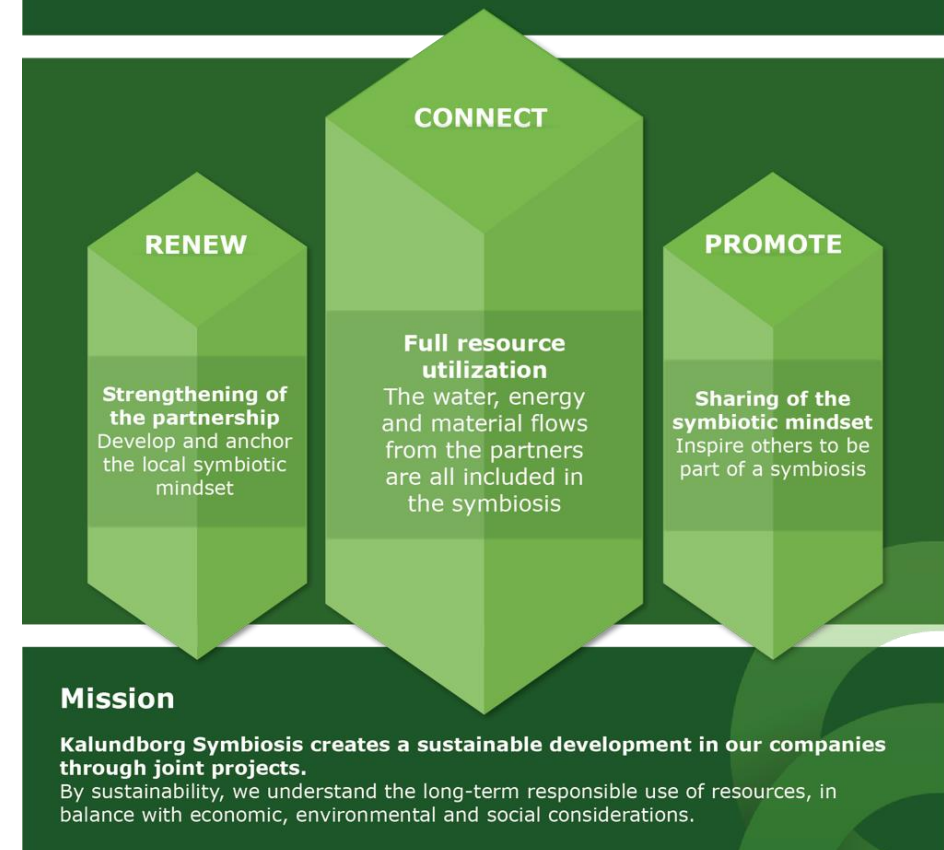
Outcomes - annual savings

24 mln € bottom-line and 14 mln € socio-economic
635,000 tCO₂
3,6 mln m³ water
100 GWh of energy
87,000 tons of materials

Vision

Kalundborg Symbiosis wants to be the world's leading industrial symbiosis with a circular approach to production.

By symbiosis we understand a local partnership where you provide, share and reuse resources to create a shared value.

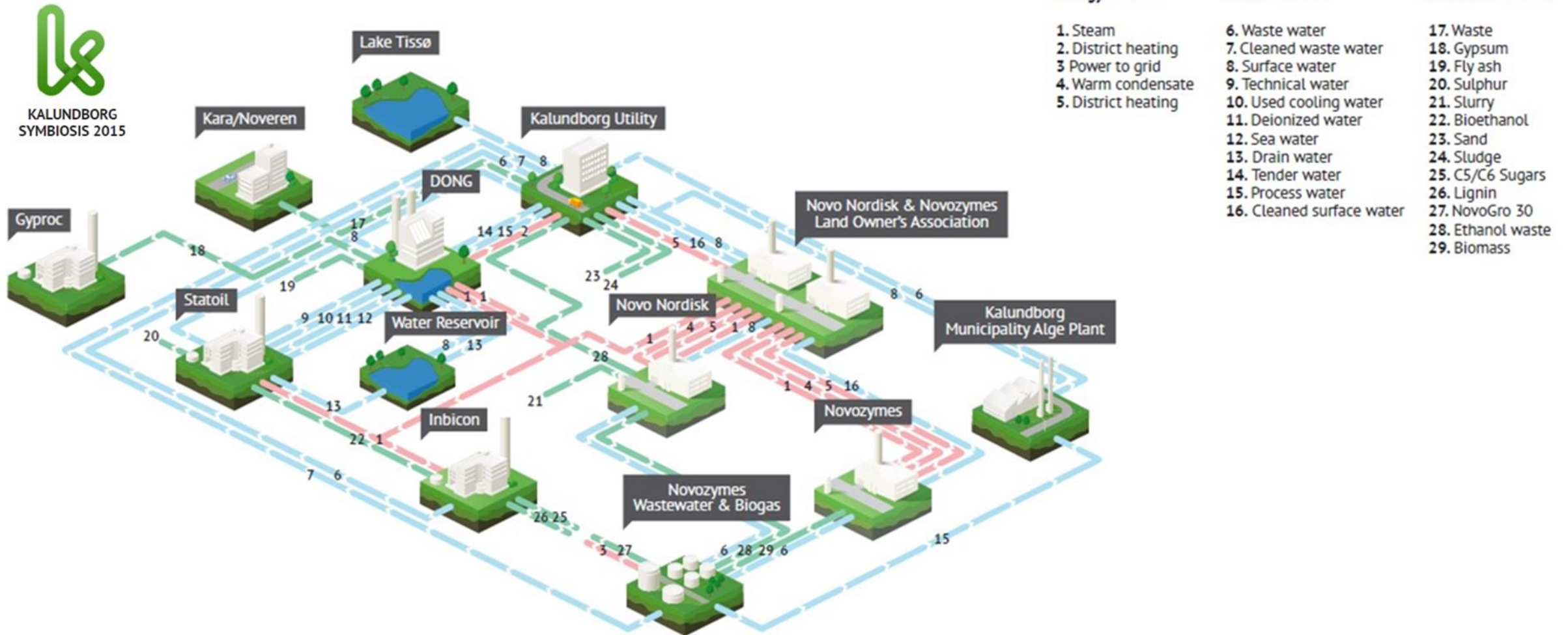


Mission

Kalundborg Symbiosis creates a sustainable development in our companies through joint projects.

By sustainability, we understand the long-term responsible use of resources, in balance with economic, environmental and social considerations.

Building circular industrial systems: Kalundborg Symbiosis



FRAMEWORKS AND TOOLS

that make circular
economy spin



SUBSTITUTION

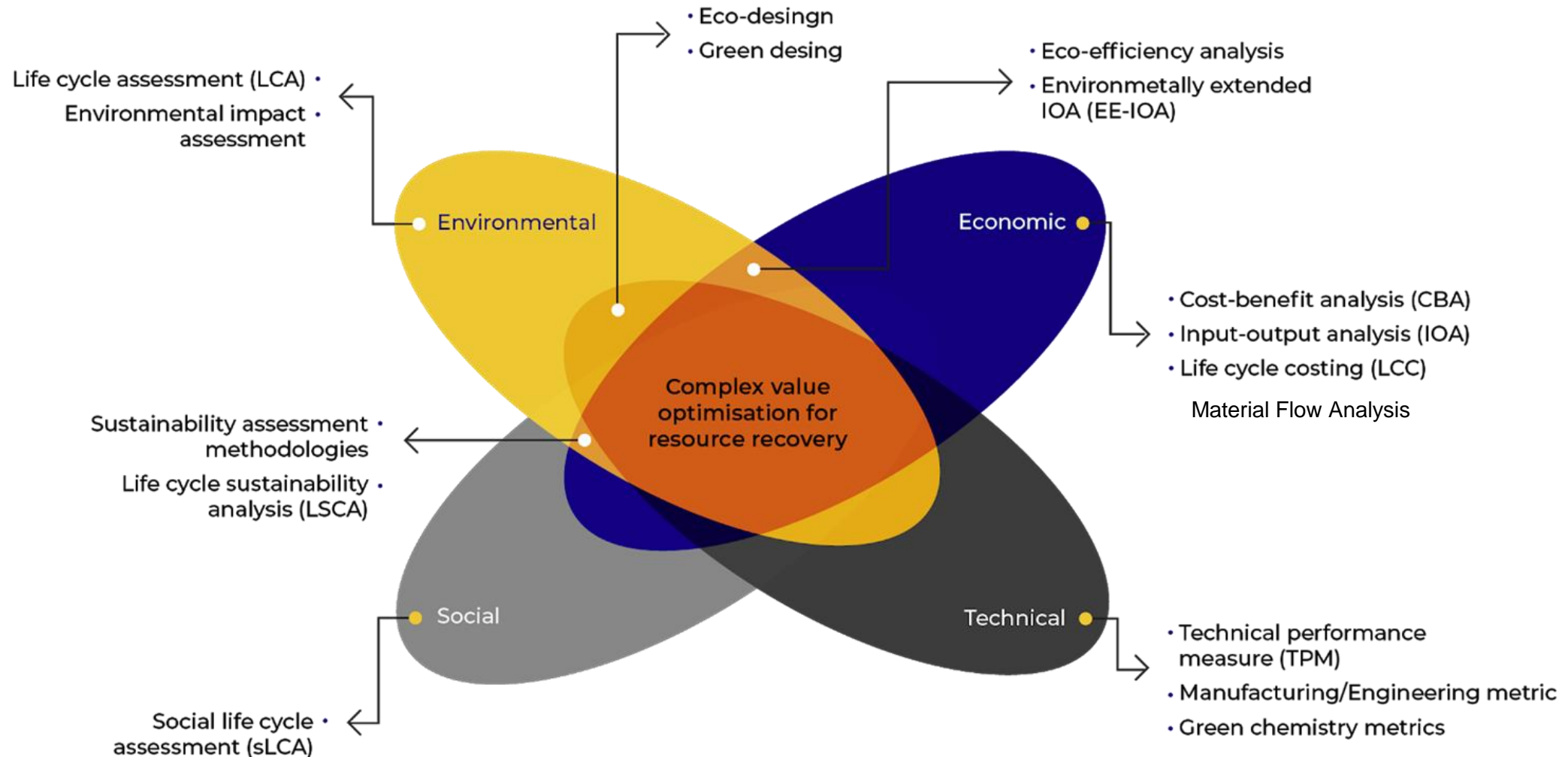
Using different materials to achieve the same goal.

DEMATERIALIZATION


































Using less of a resource to serve the same economic function in society.

Circularity challenges require tools that don't simply optimize the current system but also allow to rethink it and create a new one

Choosing the right tool is not always easy



The framework provides a visual and conceptual approach for understanding opportunities for circular transition

REGENERATE 	<ul style="list-style-type: none"> Shift to renewable energy and materials Reclaim, retain, and restore health of ecosystems Return recovered biological resources to the biosphere 	    
SHARE 	<ul style="list-style-type: none"> Share assets (e.g. cars, rooms, appliances) Reuse/secondhand Prolong life through maintenance, design for durability, upgradability, etc. 	    
OPTIMISE 	<ul style="list-style-type: none"> Increase performance/efficiency of product Remove waste in production and supply chain Leverage big data, automation, remote sensing and steering 	    
LOOP 	<ul style="list-style-type: none"> Remanufacture products or components Recycle materials Digest anaerobically Extract biochemicals from organic waste 	       
VIRTUALISE 	<ul style="list-style-type: none"> Books, music, travel, online shopping, autonomous vehicles etc. 	      
EXCHANGE 	<ul style="list-style-type: none"> Replace old with advanced non-renewable materials Apply new technologies (e.g. 3D printing) Choose new product/service (e.g. multimodal transport) 	   

“ There is an endemic habit to require virgin materials, but this is often unnecessary: quality and performance should be the leading drivers of material choice and design ”

Jan-Paul Kimmel,
CLAUT



Circular Design Approaches

Biomimicry



The design of products and systems that are inspired by and modelled on existing biological processes, which have feedback built in.



Eco-design

Systematic integration of environmental aspects into product design to reduce its impact through its entire life cycle.



Modular design

Enables companies to separate and replace modules that are used intensively from variant introductions and performance upgrades, improving maintenance services and allowing for module return, recovery and reuse.



Circular Solution

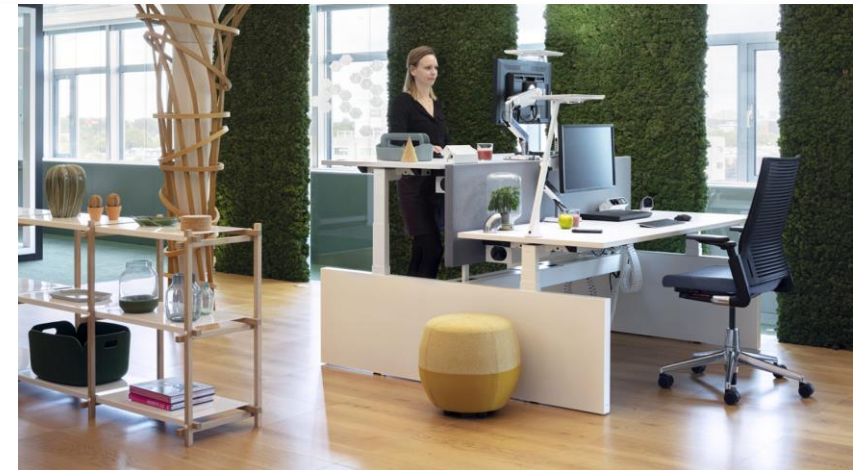
Ahrend makes office furniture products with modularity, disassembly, and life extension in mind. Repair, upgrades, and modifications are easily achieved so that every single product can have multiple lives.

Making it happen

Ahrend offers customers **furniture-as-a-service (FAAS)** where customers pay a monthly fee and return the furniture when they no longer need it.

Outcomes

- ✓ Reduction in material use and carbon emissions
- ✓ Closer relationships with customers
- ✓ Higher profit
- ✓ More secure supply chain
- ✓ Lower office set up costs and
- ✓ More flexibility in a fast-changing business environment.



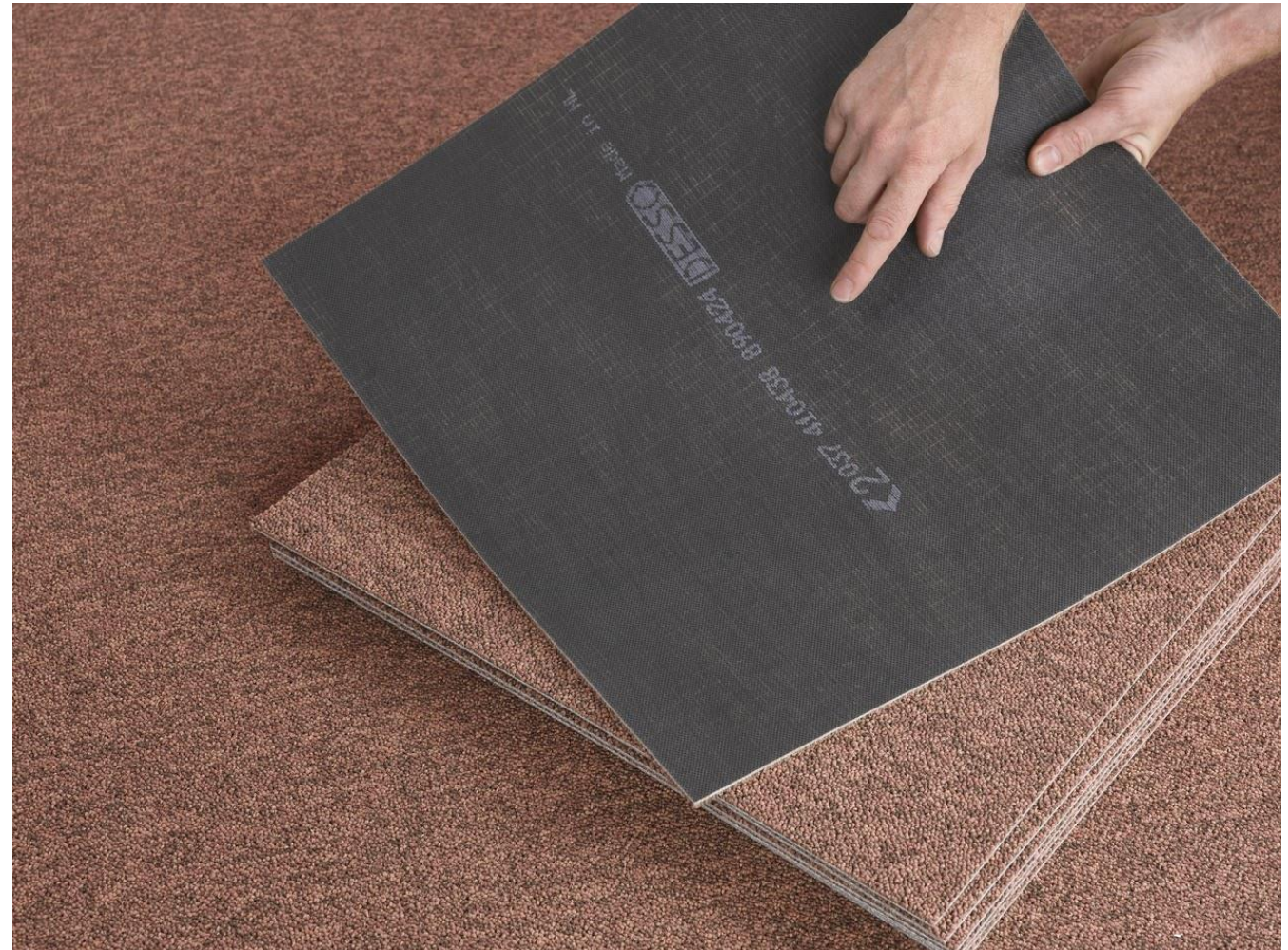
Interface – changed its business model by applying **DEMATERIALIZATION**

- Commercial carpet “sold” as a service.
- Carpet separated into smaller easily replaceable square sections.
- Carpet square is reused to make a new carpet square.
- Customer doesn’t own the carpet, customer is benefitting from a carpet service.



DESSO Carpet

- 100% recyclable within its own production process.
- 75% made of recyclables from the drinking water industry.
- Take back programme to collect post-consumer carpet tiles.
- All non-recyclable components are reused



Linearity challenge

Buildings produce waste during construction and operation while consuming a significant amount of water and energy.

Circular Solution

The new factory and administrative building in Sadat city were designed for renewable energy and resource efficiency, using sustainable building materials and managing construction and demolition waste. A similar approach was applied to the construction of residential buildings for workers.

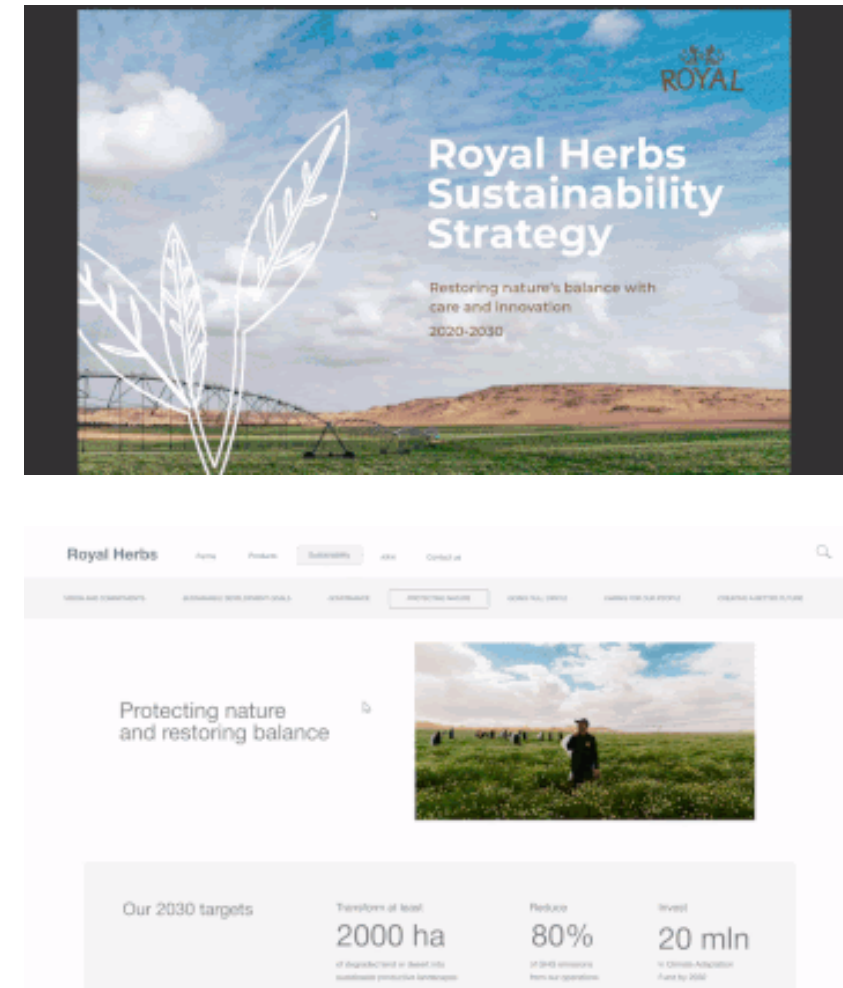
Making it happen

Acquiring own farms allowed the company to reduce supply chain complexity, gain better control over facilities and improve traceability.

Outcomes

Sadat: 20% energy savings, 60% water savings

Residential: 35% energy savings, 25% water savings

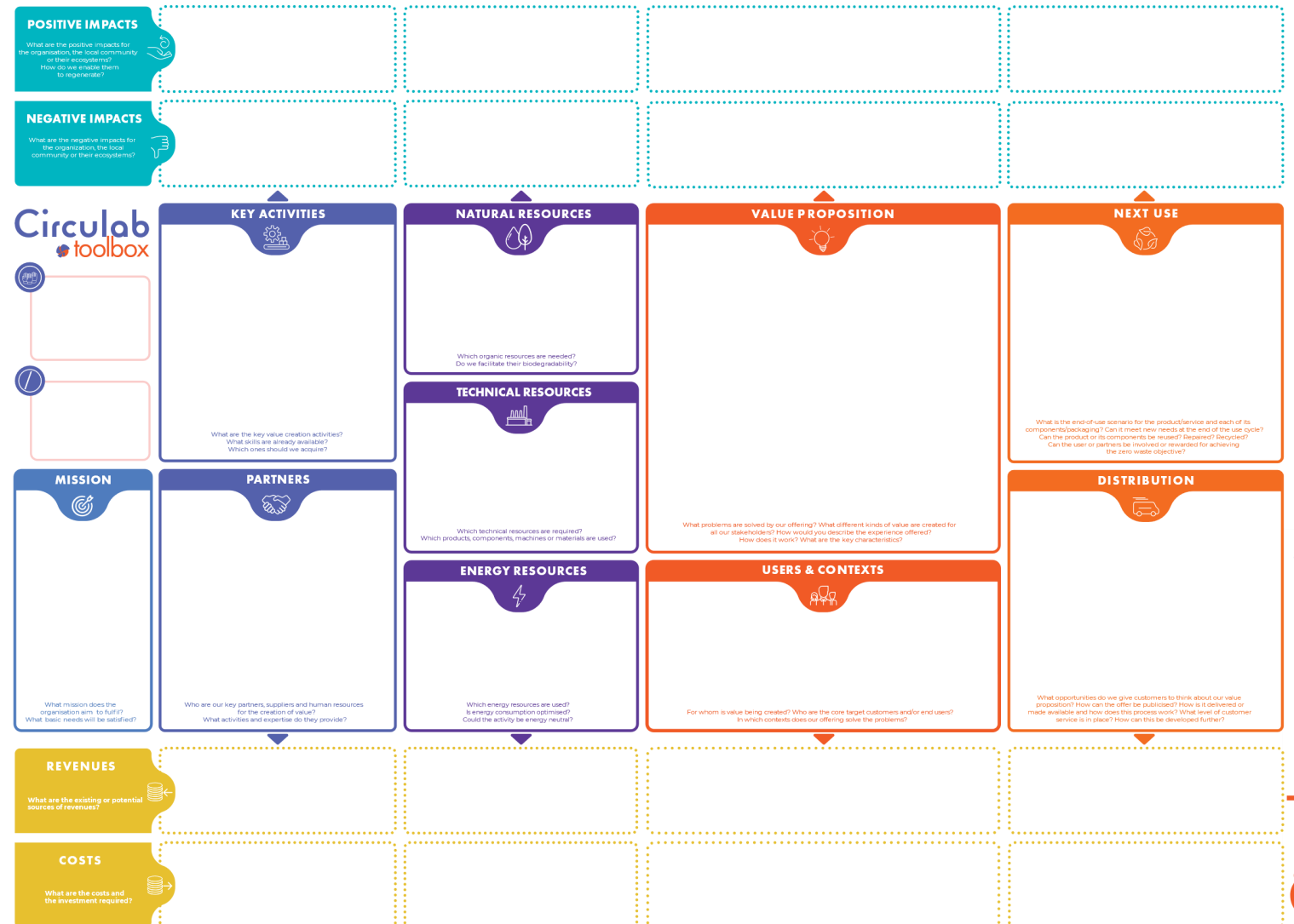


CIRCULAR BUSINESS MODEL

and what does it
take to get there



The canvas developed by Osterwalder & Pigneur has been adapted to ask crucial questions and seek productive answers to transform business towards circularity



POSITIVE IMPACTS

What are the positive impacts for the organisation, the local community or their ecosystems?
How do we enable them to regenerate?



NEGATIVE IMPACTS

What are the negative impacts for the organization, the local community or their ecosystems?



Circulob

KEY ACTIVITIES





MISSION



What mission does the organisation aim to fulfil?
What basic needs will be satisfied?

KEY ACTIVITIES



What are the key value creation activities?
What skills are already available?
Which ones should we acquire?

NATURAL RESOURCES



Which organic resources are needed?
Do we facilitate their biodegradability?

TECHNICAL RESOURCES



Which technical resources are required?
Which products, components, machines or materials are used?

PARTNERS



Who are our key partners, suppliers and human resources for the creation of value?
What activities and expertise do they provide?

ENERGY RESOURCES



Which energy resources are used?
Is energy consumption optimised?
Could the activity be energy neutral?

NATURAL RESOURCES



Which organic resources are needed?
Do we facilitate their biodegradability?

TECHNICAL RESOURCES



Which technical resources are required?
Which products, components, machines or materials are used?

ENERGY RESOURCES



Which energy resources are used?
Is energy consumption optimised?
Could the activity be energy neutral?

VALUE PROPOSITION



What problems are solved by our offering? What different kinds of value are created for all our stakeholders? How would you describe the experience offered?
How does it work? What are the key characteristics?

USERS & CONTEXTS



For whom is value being created? Who are the core target customers and/or end users?
In which contexts does our offering solve the problems?

NEXT USE



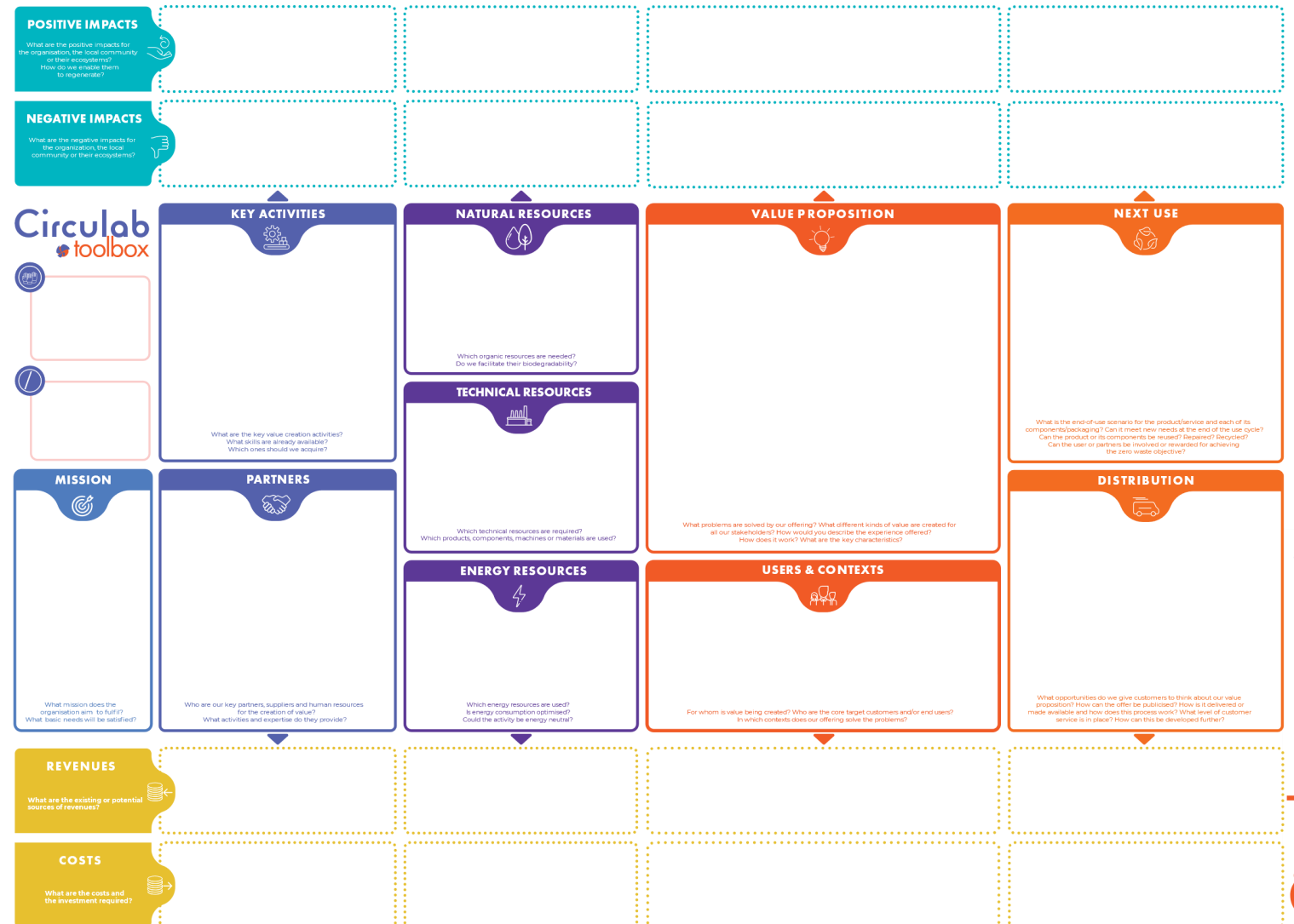
What is the end-of-use scenario for the product/service and each of its components/packaging? Can it meet new needs at the end of the use cycle?
Can the product or its components be reused? Repaired? Recycled?
Can the user or partners be involved or rewarded for achieving the zero waste objective?

DISTRIBUTION



What opportunities do we give customers to think about our value proposition? How can the offer be publicised? How is it delivered or made available and how does this process work? What level of customer service is in place? How can this be developed further?

The canvas developed by Osterwalder & Pigneur has been adapted to ask crucial questions and seek productive answers to transform business towards circularity



Circular Economy Requires Robust Business Models

Value proposition e.g. Product Design	Value capture e.g. Incentive for return/repair/...	Value creation and delivery e.g. Supply chain	Example	Economically sustainable e.g. Profit	Environmentally sustainable e.g. CO ₂ footprint	Socially sustainable e.g. Jobs created
L	L	L	Traditional office furniture manufacturer	=	=	=
L	L	C	Recycling of returned furniture	-	+	=
L	C	L	Discount for returning old furniture, disposal by retailer	-	=	=
L	C	C	Discount for returning old furniture, recycling of conventionally designed furniture by manufacturer	-	+	+
C	L	L	Product design that uses recycled materials purchased from third parties	=	=	+
C	L	C	Recycling of returned furniture, product design that makes use of recycled materials	+	+	=
C	C	L	Discount for returning furniture, disposal by retailer, third party recycled materials in product design	=	=	=
C	C	C	Discount for returning furniture, in-house recycling, product design that uses recycled materials	+	+	+

+ Positive influence = Little influence - Negative influence


PHILIPS LIGHTING

→ Lighting as a service. (customers pay for the light not the equipment)

→ Philips provides installation, performance, and lighting services.

→ All materials can be repurposed.

→ Designed for easy maintenance and replacement in a way that extends the product's life.




Reshaping the way we do business

In a world of increasing energy demands and rapidly declining natural resources, the transition from a linear economy to a circular economy is essential to ensure sustainability. A circular economy uses resources more effectively by creating rather than wasting, using rather than owning, and reusing rather than disposing.

As global demand for lighting grows, the adoption of circular economy principles in the lighting industry will allow users to pay only for the light, not for the equipment. New business models such as Philips Circular Lighting take care of installation, performance, and servicing of your lighting for you, allowing you to focus on making your own business more efficient and economical. Innovative financing options allow you to benefit right away from cutting-edge, energy-efficient LED lighting while reducing both up-front and operational costs.

Circular Lighting also means that we design our lighting products in a fully sustainable way. At end of the service contract, the lighting system can be upgraded and reused, or all materials and parts can be



What Philips Circular lighting means for your business

- ✓ **Long-term savings**
Reduce your energy and maintenance costs by up to 60% with higher returns on long-term contracts
- ✓ **Hassle-free lighting**
We'll handle everything for you, from lighting design to guaranteed performance
- ✓ **No upfront investment**
Achieve instant annual savings
- ✓ **Upgradability**
20% more cost-effective upgradability and improved access to energy-efficient products
- ✓ **Maintenance**
12% more effective maintenance and serviceability
- ✓ **Modular design**
for easy disassembly and recycling
- ✓ **Support in managing end-of-life lighting installations**
with minimal environmental impact



CREATING BRIDGES AND ENSURING COMPLIANCE

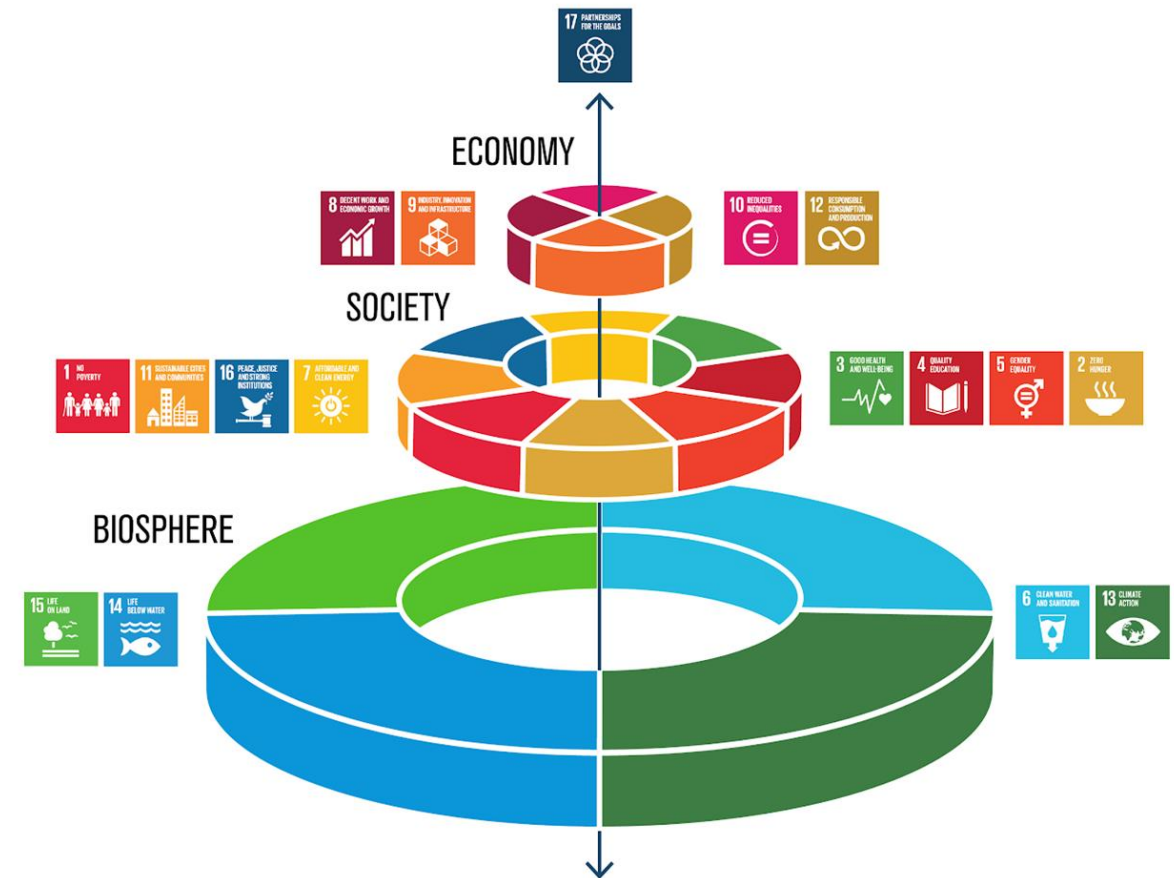
SDGs, ESG topics,
certification and
standardization



The SDGs have been adopted by the UN in 2015 and are the most significant global framework to date setting shared development priorities by 2030.

They form the basis of sustainability efforts across countries and industries and help to strategically address pressing global challenges.

There are 17 goals and 169 specific targets. They are linked in complex ways, often generating synergies and trade-offs.



SMEs are the predominant form of business and employment. They are key actors for promoting more inclusive and sustainable development, increasing economic resilience and improving social cohesion.

1 NO
POVERTY



SME-targeted
jobs alleviate
poverty

2 ZERO
HUNGER



Smallholder
farmers are vital
for food security

5 GENDER
EQUALITY



Women-led SMEs
improve gender
equality

9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



USD 1.2 trillion
potential for
cleantech SMEs

13 CLIMATE
ACTION



SMEs drive
climate
innovation

11 SUSTAINABLE CITIES
AND COMMUNITIES



SMEs enhance
local resilience
and sustainability



Governance



Social



Environmental

ESG topics

encompass non-financial sustainability impacts that influence investment decisions, business performance and social license to operate. Responsible investors and banks check companies out using ESG criteria to screen investments.

Business model	Labour and working conditions	Ecosystems
Strategy	Health and safety	Biodiversity
Integration	Human rights	Climate change
Policies and codes	Employee wellbeing	GHG emissions
Supply chains	Diversity and inclusion	Air quality
Investment and finance	Training and education	Pollution
Assessment and monitoring	Indigenous peoples	Land and soil
Standards and certifications	Career development	Raw materials
Anti-corruption and bribery	Community engagement	Energy use and renewables
Transparency and accountability	Gender equality	Water and wastewater
Freedom of association	Customer safety and relations	Solid and hazardous waste
Reporting	Poverty reduction	Noise levels

ESG core topics according to World Economic Forum

Transition to a circular business model can improve performance on 19 / 22 ESG metrics

Pillar	Theme	Sub-themes, Core Metrics and Disclosures	Sources
Principles of Governance	Governing Purpose	Setting purpose Whether the company has a stated purpose linked to societal benefit and their core business	GRI (102-26), EPIC, Colin Mayer and others
	Quality of Governing Body	Board composition Composition of the highest governance body and its committees by: executive or non-executive; independence; tenure on the governance body; number of each individual's other significant positions and commitments, and the nature of the commitments; gender; membership of under-represented social groups; competencies relating to economic, environmental and social topics; stakeholder representation	GRI (102-22), GRI (405-1a)
	Stakeholder Engagement	Impact of material issues on stakeholders A list of the material topics identified in the process of defining report content and how they impact stakeholders	GRI 102-47
	Ethical Behaviour	Anti-corruption 1. Total percentage of governance body members, employees and business partners who have received training on the organization's anti-corruption policies and procedures, broken down by region 2. Total number and nature of incidents of corruption confirmed during the current year but related to previous years 3. Total number and nature of incidents of corruption confirmed during the current year, related to this year Protected ethics advice and reporting mechanisms A description of internal and external mechanisms for: 1. seeking advice about ethical and lawful behaviour, and organizational integrity; 2. reporting concerns about unethical or unlawful behaviour, and organizational integrity	Adapted from GRI (205-2) and GRI (205-3) GRI (102-17)
	Risk and Opportunity Oversight	Integrating risk and opportunity into business process Company risk factor disclosures clearly identify the principal risks facing the company specifically (as opposed to generic sector risks), the Board appetite in respect of these risks, how these risks have moved over time and the response to those changes. These should include discussion of data security and other emerging principal risks and should disclose the number of data breaches in the reporting period	Combination of EPIC and SASB (230a.1 and 2)
	Climate Change	Greenhouse Gas (GHG) emissions Report GHG Protocol Scope 1 and 2 emissions in tonnes of carbon dioxide equivalent (tCO ₂ e) and estimate and report upstream and downstream (GHG Protocol Scope 3) emissions where material. TCFD-aligned reporting on material climate risks and opportunities TCFD-aligned reporting on governance and risk management for all. If climate change is material in short, medium or long term, disclose strategy and metrics/ targets as well, including whether the company has committed to set a science-based target in line with net zero by 2050.	GRI (305-1), CDP (C6, C7), CDSB (R03, R04), SASB (110a.1), GHG Protocol TCFD, CDSB R01, R02, R03, R05 and R06; SASB 110
Planet	Nature Loss	Land use and ecological sensitivity Report for operations and estimate & report for upstream supply chain, where material, on: - overall area of land used or affected - annual change in area of land used or affected - number of IUCN Red List species present in areas used or affected.	Adapted from: GRI (304-1, 304-3, 304-4), CDP (F1)
	Fresh Water Availability	Fresh water consumption in water stressed areas Report for operations and estimate & report for upstream and downstream supply chain, where material, on: - mega-litres of fresh water consumed (withdrawals minus discharges of equal quality) in water-stressed areas.	Adapted from: GRI (303-3), CDP (W1), CDSB (R04), SASB (140a.1)

People	Dignity and Equality	Gender pay equality (%) Ratio of the basic salary and remuneration of women to men for each employee category, by significant locations of operation. Diversity and inclusion (%) Percentage of employees per employee category, by age group, gender and other indicators of diversity Wage level (%) Ratios of standard entry-level wage by gender, compared to local minimum wage for specific categories of workers Risk for incidents of child, forced or compulsory labor (#, %) Number and percentage of operations and suppliers considered to have significant risk of: a) incidents of child labour; and b) incidents of forced labour; by type of operation and supplier, in terms of countries or geographic areas with operations and suppliers considered at risk.	GRI (405-2) GRI (406-1) GRI (202-1) GRI (408, 409)
	Health and Well Being	Health and safety (%) 1. The total recordable injury rate (TRIR) by specific categories of workers 2. The absentee rate (AR) for specific categories of workers	SASB (CN0101-18), GRI (403-2.a4)
	Skills for the Future	Training provided (#) 1. Average hours of training per person that the organization's employees have undertaken during the reporting period, by gender and employee category (total number of trainings provided to employees divided by the number of employees) 2. The average training and development expenditure per full time employee	GRI (404-1), SASB (HC0101-15)
	Wealth creation and employment	Net number of jobs created 1. Total number and rate of new employee hires during the reporting period, by age group, gender and region 2. Total number and rate of employee turnover during the reporting period, by age group, gender and region Net Economic Contribution 1. Direct economic value generated and distributed (EV&D) – on an accruals basis, covering the basic components for the organization's global operations, including revenues, operating costs, employee wages and benefits, payments to providers of capital, payments to government 2. Financial assistance received from the government (e.g. tax breaks, subsidies, investment grants etc.) 3. Net Economic Contribution = (EV&D) minus (Financial assistance received from the government) Net investment - Total capital expenditures (CapEx) - Depreciation - Share buybacks - Dividend payments Calculation: Total CapEx - depreciation / (Total cost of share buybacks + dividend payments)	GRI (401-1a & b) GRI (201-1 and 201-4) International Accounting Standard (IAS) 7 – Cash Flow Statements
Prosperity	Innovation in better products and services	R&D spend ratio (%) Total amount of spending on R&D as a percentage of total sales	2015 edition of the Frascati Manual for measuring R&D (OECD, 2015a)
	Community and social vitality	Community investment (%) A percentage breakdown of community investment, including monetary contributions such as charitable gifts and community partnerships; time contributions such as staff volunteering in paid time; in-kind contributions from services or equipment; and management costs, normalized as a percentage of pre-tax profit Country by country tax reporting 1. All tax jurisdictions where the entities included in the organization's audited consolidated financial statements, or in the financial information filed on public record, are resident for tax purposes. 2. For each tax jurisdiction reported in Disclosure 207-4-a: - Names of the resident entities - Primary activities of the organization - Number of employees and the basis of calculation of this number - Revenues from third-party sales - Revenues from intra-group transactions with other tax jurisdictions - Profit/loss before tax - Tangible assets other than cash and cash equivalents - Corporate income tax paid on a cash basis - Corporate income tax accrued on profit/loss - Reasons for the difference between corporate income tax accrued on profit/loss and the tax due if the statutory tax rate is applied to profit/loss before tax 3. The time period covered by the information reported in Disclosure 207-4.	GRI (G4-ECI) GRI (207-4)



Cradle to Cradle® is a design concept inspired by nature. The Cradle to Cradle Certified standard aims to:

- Ensure that materials are safe for humans and the environment
- Enable a circular economy through product and process design
- Safeguard climate, air, water and soil
- Foster respect for human rights, fair and equitable society

Type of thinking

Outcomes


Cradle to Grave

Minimize negative impacts → Waste management and recycling

Cradle to Cradle

Avoid negative impact and maximise positive ones → Circular Business Models

Cradle To Cradle: Scoring Products

<div> BRONZE</div> <div>CRADLE TO CRADLE CERTIFIED^{CM} PRODUCT SCORECARD</div>					
QUALITY CATEGORY	BASIC	BRONZE	SILVER	GOLD	PLATINUM
 MATERIAL HEALTH				✓	
 MATERIAL REUTILIZATION			✓		
 RENEWABLE ENERGY & CARBON MANAGEMENT		✓			
 WATER STEWARDSHIP			✓		
 SOCIAL FAIRNESS				✓	
OVERALL CERTIFICATION LEVEL		✓			

Cradle-to-Cradle certified products



Tentree

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

- For every piece of clothing, 10 trees are planted.
- Sustainable materials: sustainable cotton, recycled polyester, spun dyed viscose, linen, Tencel.
- 100% Biodegradable

Garnier Skinactive Facewash

FIRST MASS MARKET SKIN CARE BRAND TO ACHIEVE CRADLE TO CRADLE CERTIFICATION FOR FIVE



- ✓ Facility powered with 100% renewable electricity + features optimized vessel cleaning systems that have led to a reduction in water consumption.
- ✓ 1 Product made from 50% PCR (post-consumer recycled) plastic
- ✓ Another 3 of the certified cleansers are made from 30 % PCR plastic.



Cradle to Cradle Certified Product Scorecard	
MATERIAL HEALTH	Silver
MATERIAL REUTILIZATION	Silver
RENEWABLE ENERGY & CARBON MANAGEMENT	Gold
WATER STEWARDSHIP	Gold
SOCIAL FAIRNESS	Silver
OVERALL CERTIFICATION LEVEL	Silver
What's this?	

Stabilo GREENpoint



Published in May 2017, **BS 8001** is the world's first standard on circular economy and practical framework for organizations to implement its principles. Some of its benefits include:



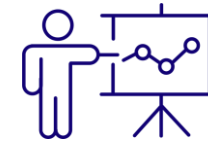
Understand what circular economy is and is not



Discover the relevance of CE for your organization



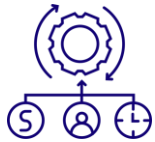
Use appropriate terminology



Integrate circularity into core business strategy



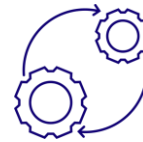
Adopt a circular mindset



Identify how material topics link to resource use



Identify new circular opportunities beyond old ways



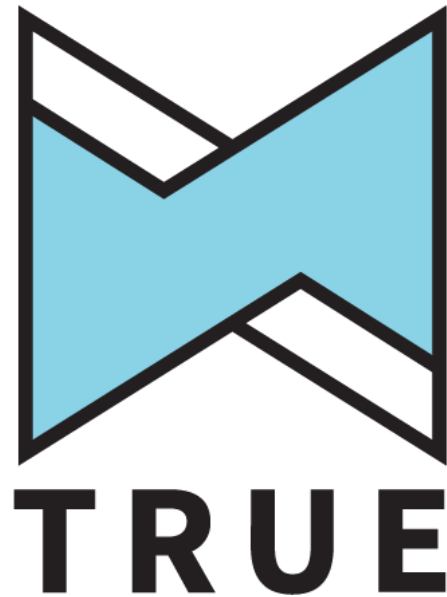
Trigger enabling mechanisms and prioritize wisely



Use a handy improvement checklist



Avoid barriers and stay aware of the pitfalls



The TRUE certification program enables facilities to define, pursue and achieve their zero waste goals, cutting their carbon footprint and supporting public health.

TRUE is a whole systems approach aimed at changing how materials flow through society, resulting in no waste.

TRUE encourages the redesign of resource life cycles so that all products are reused. TRUE promotes processes that consider the entire lifecycle of products used within a facility.

TRUE Zero Waste

Getting certified requires 90% diversion from landfill, WTE and the environment during the past 12 months

CERTIFICATION LEVELS

CERTIFIED: 31-37 points **SILVER:** 38-45 points **GOLD:** 46-63 points **PLATINUM:** 64-81 points

OVERVIEW OF CATEGORIES & POINTS

REDESIGN	4	LEADERSHIP	6
REDUCE	7	TRAINING	8
REUSE	7	ZERO WASTE ANALYSIS	5
COMPOST (RE-EARTH)	7	UPSTREAM MANAGEMENT	4
RECYCLE	3	HAZARDOUS WASTE PREVENTION	5
ZERO WASTE REPORTING	4	CLOSED LOOP SYSTEM	4
DIVERSION (MIN 90%)	5	INNOVATION	3
ZERO WASTE PURCHASING	9	TOTAL POINTS	81

01.

Register your project with GBCI by providing basic project information and submitting payment for the registration and/or certification fee

02.

Implement strategies, perform analyses, and prepare documentation demonstrating your achievements of the selected credits

03.

Submit your documentation to GBCI when ready, along with payment for certification

04.

Schedule an onsite assessment with your assigned GBCI Assessor

05.

Receive preliminary comments on your submitted documentation

06.

Host the GBCI Assessor onsite, which will include a tour of the site and employee interviews

07.





Accept the final report and your certification

08.

Celebrate and market your achievements

09.

Submit a case study to GBCI and continue to submit your annual diversion data

LCA phases			
 Goal and scope	 Life Cycle Inventory LCI	 Impact assessment LCIA	 Interpretation
<ul style="list-style-type: none"> • Definition of goal and scope • Intended application audience, publicity etc. • Boundaries • Functional unit • Allocations • Assumptions and limitations • Data quality requirements • Type of critical review 	<ul style="list-style-type: none"> • Inputs and outputs of the system unit processes • Energy inputs • Raw materials inputs • Other physical inputs • Products • Co-products and waste • Emissions to air • Discharges to water and soil 	<ul style="list-style-type: none"> • Selection of impact assessment method i.e. ReCiPe, EcoIndicator 99 etc. • Selection of impact categories • Category indicators • Characterisation models • LCI-results classification • Calculation of category indicator result i.e. characterization • Grouping and Normalization • Weighting 	<ul style="list-style-type: none"> • Interpretation of results and usability • Significance, limitations, comprehensive • Opportunities to improve • Strategic decision making • Selecting indicators • Product and process development • Environmental information • Marketing



Zooming In: Sustainability Challenges In Egypt



1.7 mln SMEs

75%

of the workforce

95-98%

of the industrial
enterprises

128 million in 2030



10m↓

less will be living
in poverty

x2

the middle-class
population

30%



youth unemployment

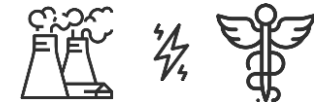
23.8%



woman participation
in the workforce

+2...3°C








possible increase in annual
temperatures by 2050








Air and water pollution are
posing significant risks for
human health and
increasing pressure on the
healthcare system.

A multitude of challenges constraint SME growth and limit their engagement with sustainability, many of which are closely interrelated.

Challenges to growth

-  Less likely to obtain bank loans than large firms
-  Information asymmetries in the credit market
-  Lack of flexible costs for processing applications
-  50% the formal SMEs can't access formal credit
-  Unmet financing need of USD 5.2 trillion every year
-  SMEs receive only 8% of loans in MENA region
-  Regulations often disregard SME needs and realities

Challenges to implementing circular economy

-  Low awareness among SME employees about the importance of sustainability and circularity
-  Lack of awareness among business owners about the benefits of sustainability practices
-  Lack of access to information on how to implement sustainability, as well as acquire skills and expertise
-  The unverified interference of intended sustainability initiatives with other business initiatives
-  The misconception that protecting the environment is associated only with technical complexity and cost



Revenue growth and
access to markets

→ i.e. sustainable redesign raises product value and opens up new markets



Cost savings and
productivity

→ i.e. recycled materials can reduce costs and dependence on raw materials + minimizing inputs and outputs



Access to capital

→ i.e. increases business chances to receive funds and capital



Risk
management

→ i.e. circularity lens supports holistic risk management



Human
capital

→ i.e. local and responsible supply chains, increased business resilience



Reputation

→ i.e. closing the loops helps to generate new long-term partnerships



Resource
Efficiency
Optimization

→ i.e. energy efficiency releases resources for other improvements

10 Steps towards financeable circular business



1

Decide on a logical starting point



2

Generate profit through multiple use cycles



3

Align incentives throughout the supply chain



4

Be transparent about the value proposition



5

Redefine the role of retail (i.e digital platforms)



6

Gradually transition to product-service systems by combining revenue models



7

Secure stable cash flows through a robust contract



8

Mitigate debtor risk



9

Match asset value, payback period and contract duration



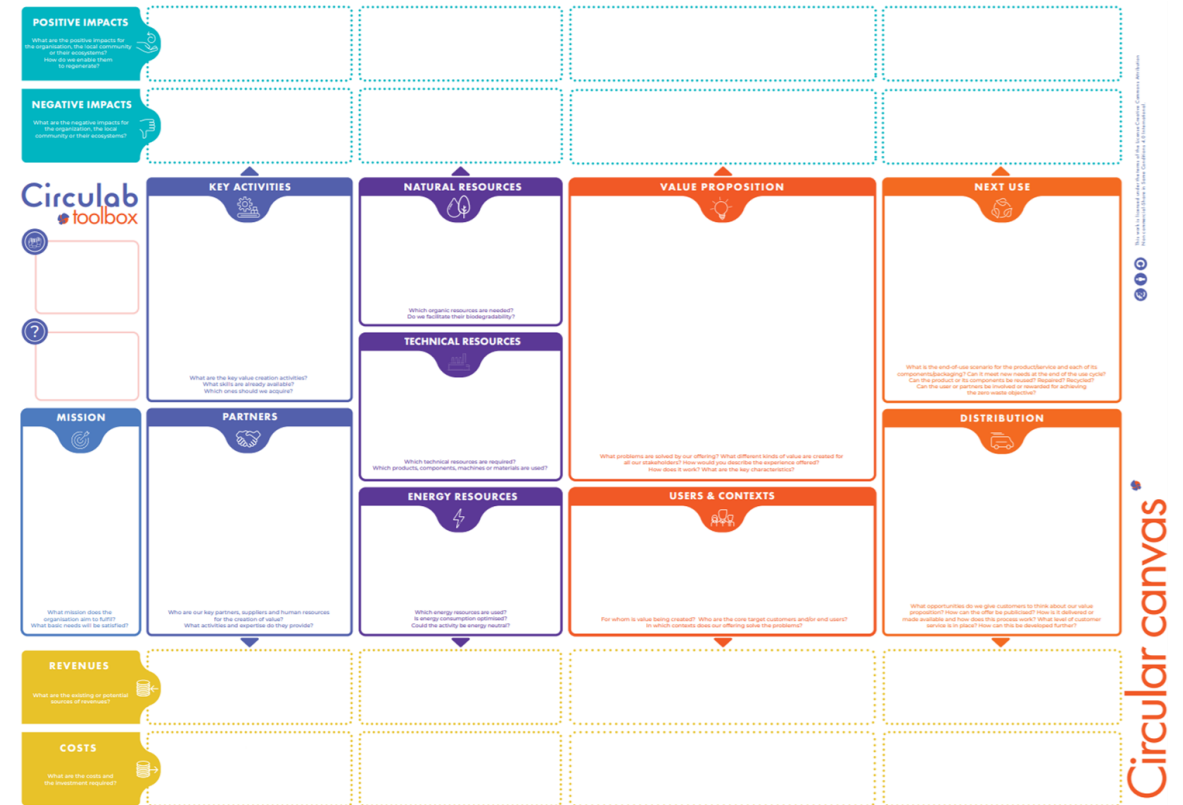
10

Measure the environmental impact on financial performance.

Homework: rethink your business for the circular economy

1. What kind of circularity challenge can my business solve?
 2. What could be the benefits of the circular economy for my company?
 3. What could be the benefits of circular the economy for society at large?
1. What can I do right now to start moving in this direction?

Time to build your circular business model!



Covid-19 recovery needs to be circular

It requires a resilient, low-carbon and circular economy. Circularity principles offer opportunities to improve stock availability, competitiveness and rediscover value of durable goods and services in the world of disrupted supply chains.



Any Questions?

Please feel free to contact me at beshara@be-masader.com or info@be-masader.com

I am available for 1 on 1 zoom meetings on:

Monday

Wednesday



Through integrated sustainability consulting services, we can help SMEs harness the full potential of circular economy based on unique needs of each client.



Linear gaps and risks



Circular opportunities and growth points



Material flow analysis



Life cycle assessment



Circular business model and strategy



Circular products and services



Circular supply chains



Targeted interventions



Cost-effective resource efficiency



Tailored training and capacity building



Building partnerships and networks



Marketing circular economy solutions

Which strategy do you think
Netflix is adopting?

“Circular economy is
the largest business
opportunity seen by
our species”

William McDonough,
co-creator of Cradle to Cradle

