

Circular Economy

Business Sustainability and ESG
Blended Intensive Programme

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**SILESIAN
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SCHOOL OF BUSINESS
ADMINISTRATION IN KARVINA



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Content

1. Meaning and Introduction of Circular Economy

2. European Approach

3. Circular Economy Action Plan

4. Stories for grab (best practice)



Source: (2025), <https://thecsrarena.com/how-much-do-you-know-about-the-concept-of-circular-economy/>

Lecture overview



- *So, what does the circular economy really mean?*
- *What are the principles of the circular economy?*
- *Why should every company be interested in it?*
- *Are there any examples of good practice in implementing circular economy principles?*

- *We will be looking for answers to these issues. The „stories for grab“ will help you to understand the practical implications.*



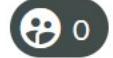


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What do you think circular economy means?



Why should we be interested in circular principles?

Because...

- **Climate change** is ongoing as global mean temperatures have already increased by 1.1–1.3 °C compared to pre-industrial levels. Global annual greenhouse gas (GHG) emissions are still rising due to increasing consumption of fossil fuels, land-use change and other anthropogenic sources of emissions, resulting in an ever-growing stock of GHGs in the atmosphere.
- On current trends, it is estimated **the world will be 2.1–3.5 °C warmer** by the end of this century compared to 1850. The last time global surface temperatures were sustained at or above 2.5 °C higher than 1850–1900 was over 3 million years ago. (Source: Climate Change 2021 – The Physical Science Basis (IPCC, October 2021)
- **The issue of climate change is to a large extent an energy problem.** Much of the climate change debate still revolves around abatement of energy-related emissions, for example the combustion of fossil fuels in cars or the provision of electricity and heat to households or industries from coal-fired power plants. This energy-oriented debate stresses the need to substantially upscale renewable energy sources, accelerate coal-phase out in power plants, speed-up renovation and energy efficiency measures in buildings and industrial operations. (Source: Completing the Picture, How the Circular Economy Tackles Climate Change (Ellen MacArthur Foundation, Material Economics, 2019), p. 13)
- This focus is understandable and highly relevant given that **emissions directly related to energy are responsible for around 55% of global emissions.** (Source: Completing the Picture, How the Circular Economy Tackles Climate Change (Ellen MacArthur Foundation, Material Economics, 2019), p. 13)

Why should we be interested in circular principles?

Because...

- Less discussed are the emissions that result from **material production**, which occupy as significant a share in global GHG emissions as agriculture, forestry and land use.
- Globally, the share of GHG emissions from material production – solid materials including metals, wood, construction minerals and plastics – **grew** from 15% to 23% in the period from 1995 to 2015 (Hertwich, 2019).
- These material-related emissions are also often termed “**embodied carbon**”, as a large portion of fossil fuels had to be combusted to produce them and/or large volumes of CO₂ were released into the atmosphere from the associated industrial processes (process emissions). Energy-intensive industries such as primary production of **steel, cement, chemical and aluminium**, and major demand sectors that consume these materials, including **buildings and vehicles**, are major sources of such emissions.

1. Meaning and Introduction of Circular Economy

The circular economy is based on three principles, driven by design:

1. Eliminate waste and pollution
2. Circulate products and materials (at their highest value)
3. Regenerate nature

- The circular economy is a system where materials never become waste and nature is regenerated.
- In a circular economy, products and materials are kept in circulation through processes like maintenance, reuse, refurbishment, remanufacture, recycling, and composting.
- The circular economy tackles climate change and other global challenges, like biodiversity loss, waste, and pollution, by decoupling economic activity from the consumption of finite resources.



Source: <https://www.europarl.europa.eu/topics/en/article/20151201STO05603/circular-economy-definition-importance-and-benefits>

1. Principle – Eliminate waste and pollution

- Currently, our economy works in a **take-make-waste system**. We take raw materials from the Earth, we make products from them, and eventually we throw them away as waste. Much of this waste ends up in landfills or incinerators and is lost. This system can not work in the long term because the resources on our planet are finite.

The problem (and the solution) starts with **design**

- For many products on the market, there is no onward path after they are used. *Take a crisp packet, for example. These multi-material flexible plastic packages cannot be reused, recycled or composted, so end up as waste. For products like these, waste is built in. They are designed to be disposable.*



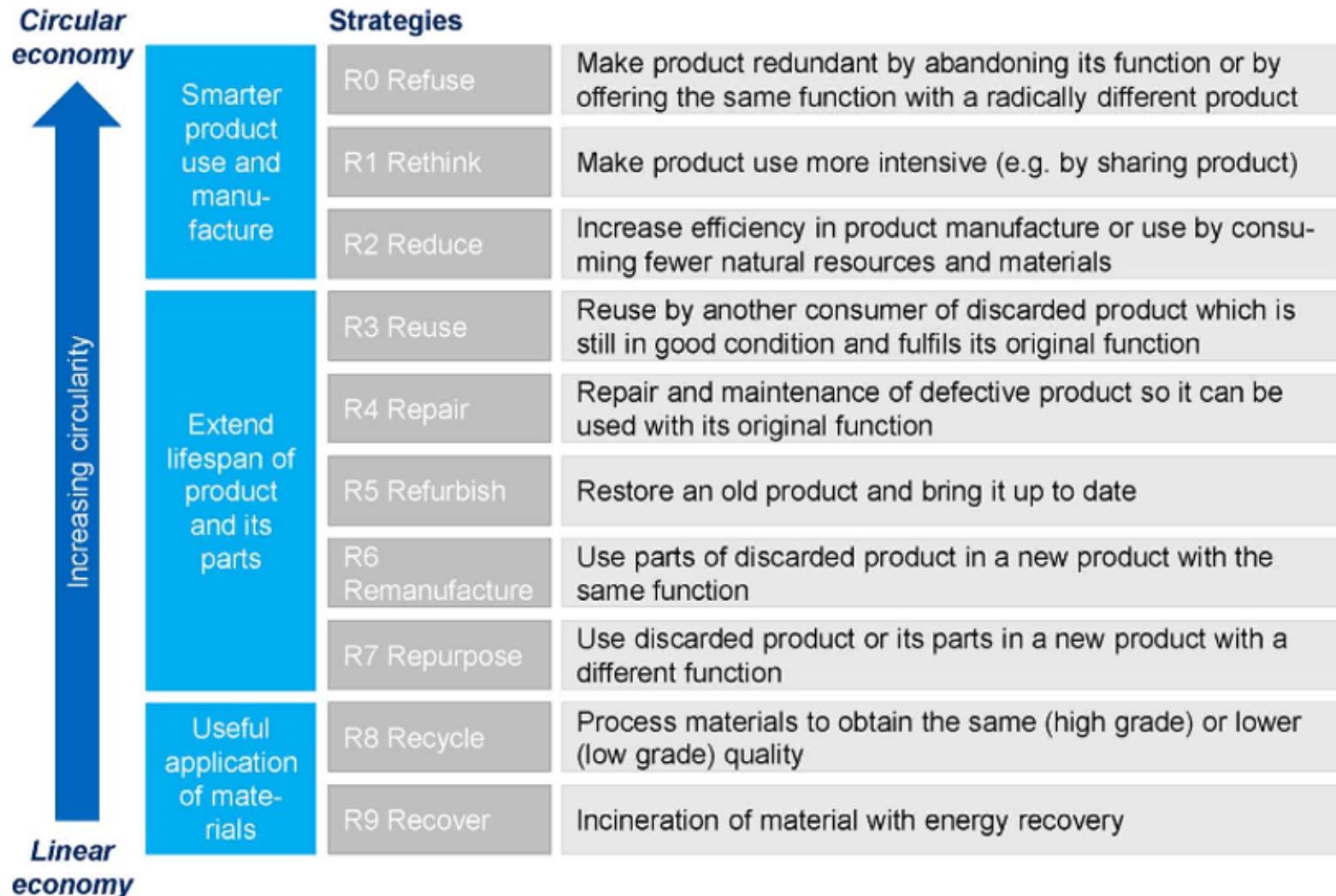
Source: 2025, <https://www.ellenmacarthurfoundation.org/eliminate-waste-and-pollution>

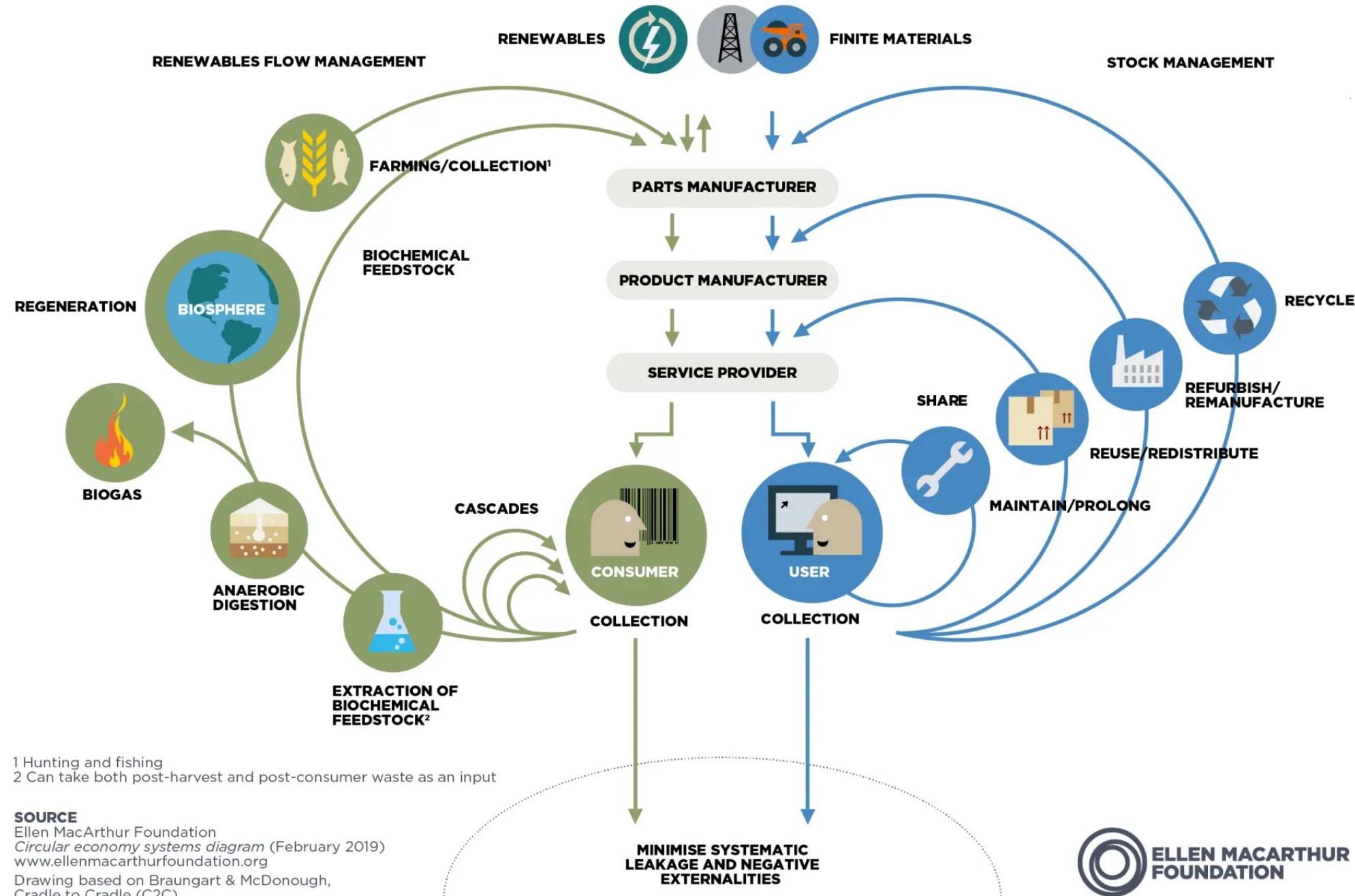
2. Principle – Circulate products and materials

- This means **keeping materials in use**, either as a product or, when that can no longer be used, as components or raw materials. This way, nothing becomes waste and the intrinsic value of products and materials are retained.
- There are a number of ways products and materials can be kept in circulation and it is helpful to think about two fundamental cycles – the technical cycle and the biological cycle.
- In the technical cycle, products are reused, repaired, remanufactured, and recycled. In the biological cycle, biodegradable materials are returned to the earth through processes like composting and anaerobic digestion.



2. Principle – Circulate products and materials





**Butterfly diagram –
Ellen MacArthur
Foundation,**

Source:
<https://www.ellenmacarthurfoundation.org/circulate-products-and-materials>

¹ Hunting and fishing

² Can take both post-harvest and post-consumer waste as an input

SOURCE

Ellen MacArthur Foundation
Circular economy systems diagram (February 2019)
www.ellenmacarthurfoundation.org
Drawing based on Braungart & McDonough,
Cradle to Cradle (C2C)

3. Principle – Regenerate nature

- It means to support natural processes and leave more room for nature to thrive.

From extraction to regeneration.

- By shifting our economy from linear to circular, we shift the focus from extraction to regeneration. Instead of continuously degrading nature, we build natural capital. We employ farming practises that allow nature to rebuild soils and increase biodiversity, and return biological materials to the earth.

Main issues:

- The food industry
- More space for nature
- Tackling climate change



Source: 2025, <https://www.ellenmacarthurfoundation.org/eliminate-waste-and-pollution>

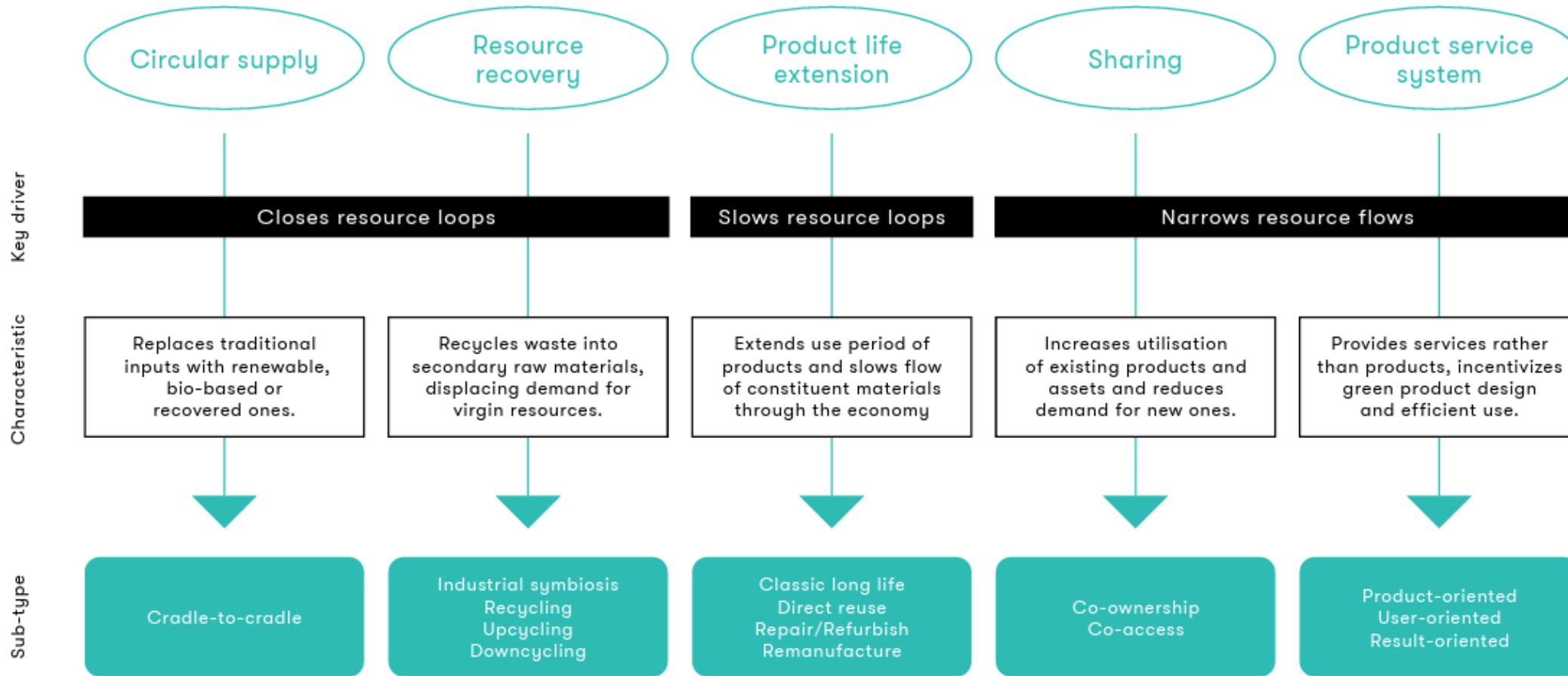
Circular Economy - summarization

1. **Circular supply models**, which replace traditional material inputs derived from virgin resources with bio-based, renewable, or recovered materials.
2. **Resource recovery models**, which recycle waste and scrap into secondary raw materials, diverting waste from Circular supply. Resource recovery final disposal while displacing demand for extraction and processing of virgin natural resources.
3. **Product life extension models**, such as repair and remanufacturing, which extend the use period of existing products, slow the flow of constituent materials through the economy, and reduce the rate of resource extraction and waste generation.
4. **Sharing models**, which facilitate the sharing of under-utilised products, and reduce demand for new products.
5. **Product service system models**, where services rather than products are marketed, improving incentives for green product design and more efficient product use.



- We can distinguish between a narrower scope for CE that focuses on waste utilization and resource efficiency and a broader view that also includes service-based and sharing-oriented models.
- From the many available definitions of CE, we have used as a reference framework the **OECD's definition** that differentiates the following **five key business models**:

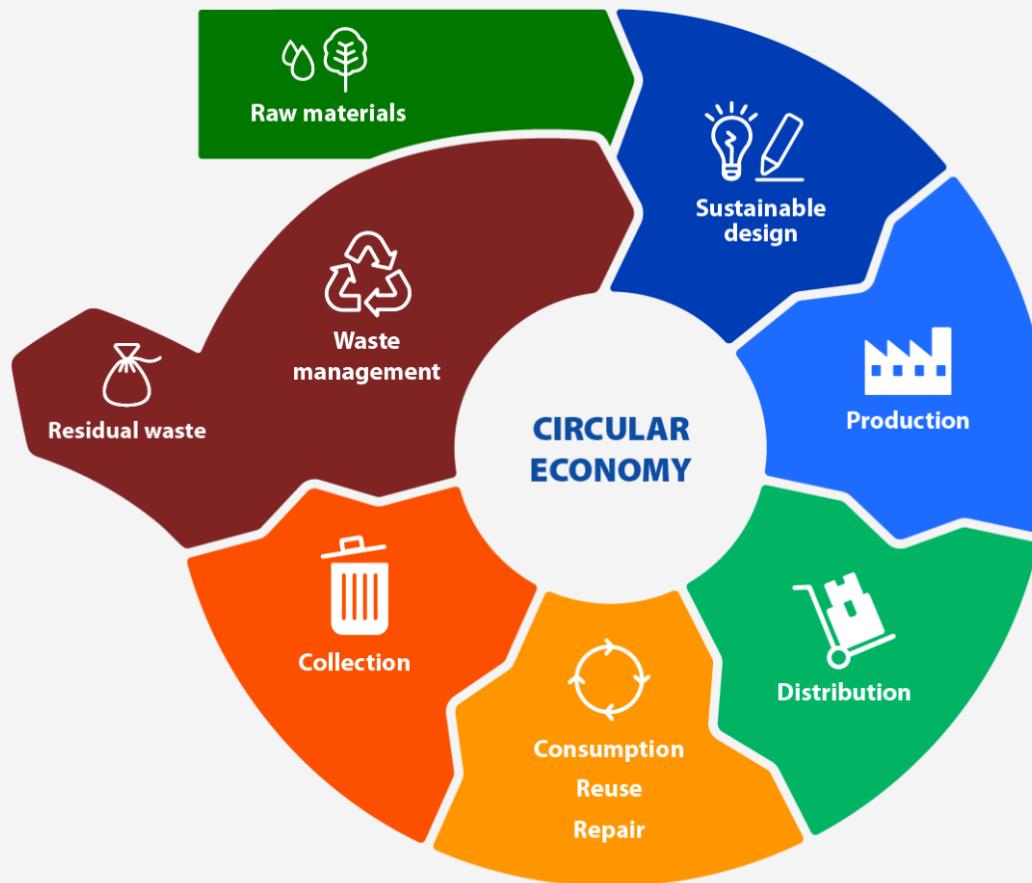
Circular Economy - summarization



2. European approach to circularity

The EU's transition to a circular economy will reduce pressure on natural resources and will create sustainable growth and jobs. It is also a prerequisite to achieve the EU's **2050 climate neutrality target** and to halt biodiversity loss.

The circular economy model:
less raw material, less waste, fewer emissions



Source: European Parliament Research Service





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What do you imagine under the term **Green Deal**?

0 / 0

European Green Deal

- The European Green Deal is the EU's growth strategy. Launched in 2019, it consists of a package of policy initiatives, which set the EU on the path to a green transition, with the ultimate goal of reaching climate **neutrality by 2050**.
- It is the EU's contribution to the Paris Agreement, which the EU and all its countries ratified and which set the goal of **keeping global warming to maximum +1.5 C** compared to pre-industrial levels.
- It underlines the need for all policy areas to contribute to **fighting climate change**. The strategy supports measures across economic sectors covering energy, transport, industry, agriculture, sustainable finance and more.
- Under the Green Deal, the Council – together with the European Parliament as co-legislators – have adopted legislation which has turned the strategy's vision into laws and rules which are **applied in all EU member states**.



Timeline - European Green Deal and Fit for 55

Council of the EU European Council

2024

5 November

Council adopts law for clean and smart construction products

The Council adopted the revision of the **construction products regulation**.

The new rules will align construction products with the principles of a **circular economy**.

Manufacturers will have to:

- provide environmental information about the life cycle of products
- design and manufacture products in a way that facilitates re-use, remanufacturing and recycling

Why we need the Green Deal



- Europe's future depends on a **healthy planet**.
- Our current **economic and consumption patterns do not match what the planet can offer** and are detrimental to the environment and nature. We and our economy are fully dependent on a functioning environment and ecosystems.
- While the green transition will have a high cost as it requires large investment in transforming our economic model, the **cost of inaction will be much greater**. Estimates say that if we do nothing to tackle climate change, by the end of the century global damages could amount to up to **12% of the GDP**.

+1.22°C

was the increase in global average temperature in 2013-2023

80%

of habitats in Europe are in poor condition

3

planets

would be needed by 2050, if we continue using resources as we do today

Key goals of the Green Deal



Climate neutrality

Drastic reduction of greenhouse gas emissions for the EU to become the 1st climate-neutral area in the world.



Circular economy

New economic model where products are reused, repaired and recycled, reducing waste and conserving resources.



Clean industry

Push for cleaner, more sustainable and energy-efficient industries which thrive in the EU and global markets.



Healthier environment

Plan to restore nature and work towards zero pollution to ensure a healthy environment for future generations.



More sustainable farming

Greener farming practices to protect the environment while providing healthy and affordable food.



Climate justice and fairness

Plan to make the transition fair and inclusive to help people most affected by the transition and leave no one behind.

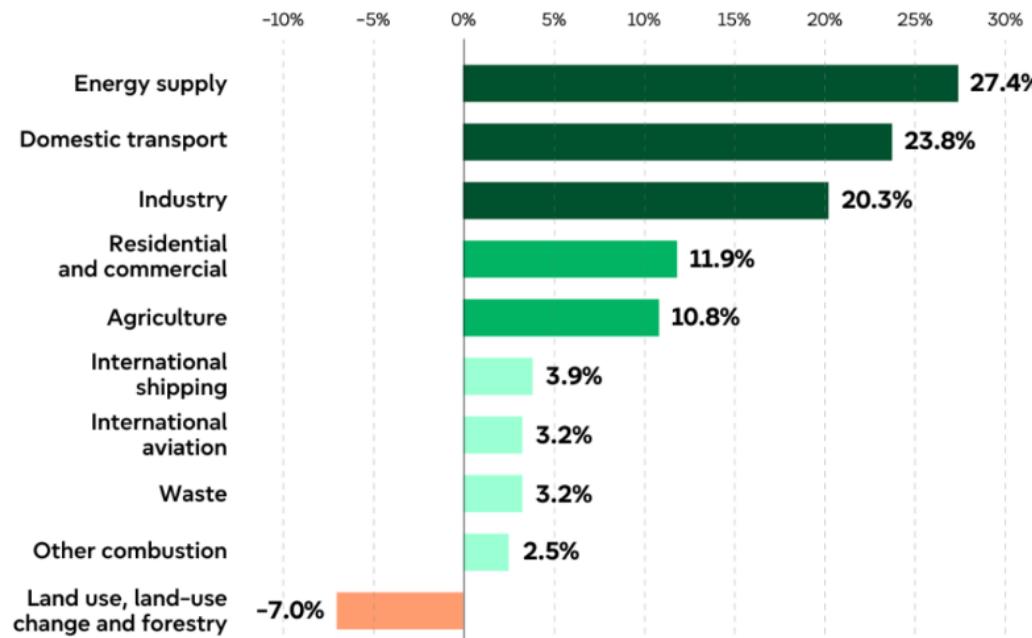
Benefits: why do we need to switch to a circular economy?

Protecting the environment

- Reusing and recycling products would slow down the use of natural resources, reduce landscape and habitat disruption and help to limit biodiversity loss.
- A reduction in total annual greenhouse gas emissions. Industrial processes and product use are Responsible for 9 % of greenhouse gas emissions in EU.
- Packaging is a growing issue and, on average, the average European generates nearly 180 kilos of packaging waste per year.

Greenhouse gas emissions in the EU by sector

share of total emissions estimated in CO2 equivalent (2022)



Source: European Environment Agency



European Parliament

Source: 2025, <https://www.europarl.europa.eu/topics/en/article/20180301ST098928/greenhouse-gas-emissions-by-country-and-sector-infographic>

Benefits: why do we need to switch to a circular economy?

Reduce raw material dependence

- The world's population is growing and with it the demand for raw materials. However, the supply of crucial raw materials is limited.
- Finite supplies also means some EU countries are dependent on other countries for their raw materials. According to Eurostat, the EU imports about **half of the raw materials** it consumes.
- The total value of trade (imports plus exports) of raw materials between the EU and the rest of the world in 2023 was €165 billion. Exports were lower than imports, so this resulted in a trade **deficit of €29 billion**.
- This especially applies to critical raw materials, needed for the production of technologies that are crucial for achieving climate goals, such as batteries and electric engines.

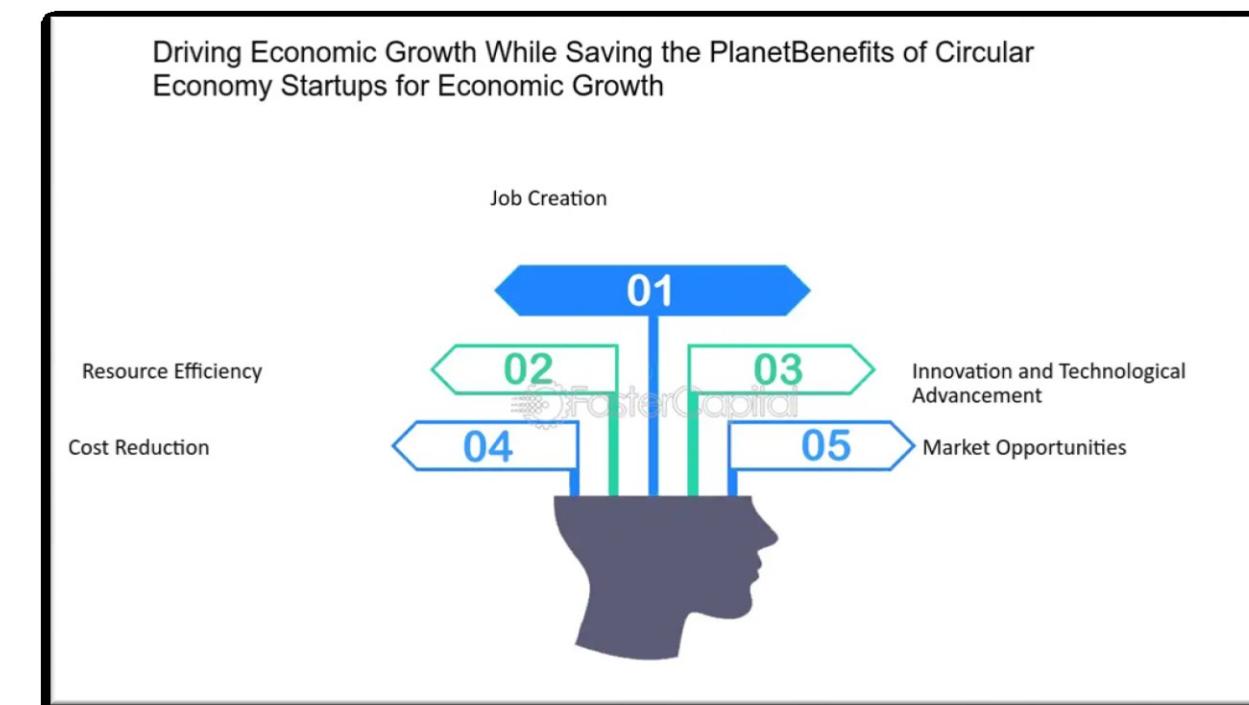


TOP 20 LARGEST COUNTRIES BY POPULATION (LIVE)				
1	India	1,461,133,424	11	Mexico 131,717,502
2	China	1,416,774,594	12	Japan 123,239,971
3	U.S.A.	346,885,602	13	Egypt 117,978,773
4	Indonesia	285,249,524	14	Philippines 116,587,699
5	Pakistan	254,382,604	15	DR Congo 112,074,161
6	Nigeria	236,498,567	16	Vietnam 101,469,602
7	Brazil	212,640,784	17	Iran 92,238,059
8	Bangladesh	175,237,394	18	Turkey 87,640,827
9	Russia	144,170,302	19	Germany 84,175,329
10	Ethiopia	134,746,288	20	Thailand 71,629,996

Benefits: why do we need to switch to a circular economy?

Create jobs and save consumers money

- Moving towards a more circular economy could **increase competitiveness**, stimulate innovation, boost economic growth and create jobs (700,000 jobs in the EU alone by 2030).
- Redesigning materials and products for circular use would also **boost innovation** across different sectors of the economy.
- Consumers will be provided with more **durable** and **innovative products** that will increase the **quality of life** and save them money in the long term..



3. Circular Economy Action Plan

What is the EU doing to become a circular economy?

Answer for the question could be found in 4 milestones...



The screenshot shows a webpage from the European Parliament's 'Topics' section. The main title is 'How the EU wants to achieve a circular economy by 2050'. Below the title, a sub-headline reads: 'Find out about the EU's circular economy action plan and what additional measures MEPs want to reduce waste and make products more sustainable.' The page includes a table of contents with four items: 'The EU circular economy action plan', 'Moving to sustainable products', 'Making crucial sectors circular', and 'Waste management and shipment'. At the bottom, there is a note: 'Published: 03-02-2021 Last updated: 17-05-2024 - 10:00 9 min read'.

1. 2020, the European Commission presented the **circular economy action plan**, which aims to promote more sustainable product design, reduce waste and empower consumers, for example by creating a right to repair. There is a focus on resource intensive sectors, such as electronics and ICT, plastics, textiles and construction.
2. 2021, the Parliament adopted a **resolution** on the new circular economy action plan demanding **additional measures to achieve a carbon-neutral, environmentally sustainable, toxic-free and fully circular economy by 2050**, including tighter recycling rules and binding targets for materials use and consumption by 2030.
3. 2022, the Commission released the first **package of measures** to speed up the transition towards a circular economy, as part of the circular economy action plan. The proposals include boosting sustainable products, empowering consumers for the green transition, reviewing construction product regulation, and creating a strategy on sustainable textiles.
4. 2022, the Commission proposed new EU-wide **rules on packaging**. It aims to reduce packaging waste and improve packaging design, with for example clear labelling to promote reuse and recycling; and calls for a transition to bio-based, biodegradable and compostable plastics.

Circular Economy Action Plan - For a cleaner and more competitive Europe



Circular Economy Action Plan

For a cleaner and
more competitive
Europe

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Circular Economy – European Action

- [Circular economy action plan](#)
- [Designing sustainable products](#) – Ecodesign (environmental requirements, digital product passport, prohibit the destruction on certain unsold consumer goods (textiles and footwear). „Right to repair“ policy.
- [Empowering consumers](#)
 - have access to reliable information to make the right green choices
 - be better protected against unfair green claims
 - be better informed about the repairability of products before purchase
 - Green Claims directive (rules address greenwashing)
- [Targeting key sectors](#)
 - Electronics and ICT, batteries and waste batteries, packaging,
 - Plastics, textiles
- [Reducing waste](#)

Source: 2025, <https://www.consilium.europa.eu/en/policies/circular-economy/>

Source: 2025, <https://www.consilium.europa.eu/en/policies/ecodesign-requirements-for-more-sustainable-products/>

Products covered by ecodesign rules

While the ecodesign directive applied only to energy-related products, the scope of the ecodesign regulation includes **almost all kinds of goods** placed on the EU market.



Steel and aluminium



Textiles



Tyres



Furniture



Chemicals, including detergents



Dishwashers and televisions



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4. Stories for grab

Showcasing examples of best practices in the circular economy is essential for several reasons:

1. Inspiration and Motivation

Real-world examples demonstrate that circular principles are not just theoretical—they work in practice. This inspires others, especially businesses, to adopt similar models.

2. Proof of Concept

Companies built on circular principles serve as living proof that such models can be economically viable, competitive, and scalable.

3. Knowledge Sharing

Best practices highlight specific strategies, technologies, and business models that can be adapted and replicated in other contexts, accelerating the transition to a more sustainable economy.

4. Building Trust and Legitimacy

Showcasing successful companies builds credibility and helps overcome skepticism among stakeholders, including investors, customers, and policymakers.

5. Encouraging Innovation

Highlighting successful circular businesses encourages others to innovate and experiment with new ways of creating value without waste.

6. Policy and Education Impact

Best practices inform policy development and serve as valuable teaching tools in education and professional training.



4. Storries for grabs – start-ups awarded from European Institute of Technology



- **kheoos is the B-to-B market place for industrial maintenance parts**, favouring the connection between manufacturers, distributors, brokers and industrialists.
- kheoos is the community platform that allows manufacturers managing maintenance parts to automatically build their customized catalogue and benefit from advanced services to lower their inventory levels, reduce their risk of breakage, find rare pieces and resell their dormant stock.

Storries for grabs – start-ups awarded from European Institute of Technology



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- ethikis, a social enterprise **promoting ethical consumption and use**, was awarded the prize for their LONGTIME® product label. This label, a certified stamp of approval, informs consumers that the product is durable and long-lasting. This aims to guide consumers towards more informed and responsible decision making when buying products.



Storries for grabs – start-ups awarded from European Institute of Technology



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niaga®

Let's design
out waste,
completely



niaga®

Mattresses

Learn more about our mattress redesigns and how they're better for both people and planet.



Carpet

Learn more about our carpet redesigns and how they're ridding the world of waste and toxicants.



Furniture panels

Learn more about our furniture panel redesigns and how they're a healthy alternative to traditional paneling.



- Niaga's solution is a **scannable tag** for products like mattresses and carpets that enables consumers to see exactly what they are made of and, crucially, how to recycle them. In this way, the Niaga® tag helps to keep valuable materials in the loop for future generations and significantly reduce waste.

Storries for grabs – start-ups awarded from European Institute of Technology



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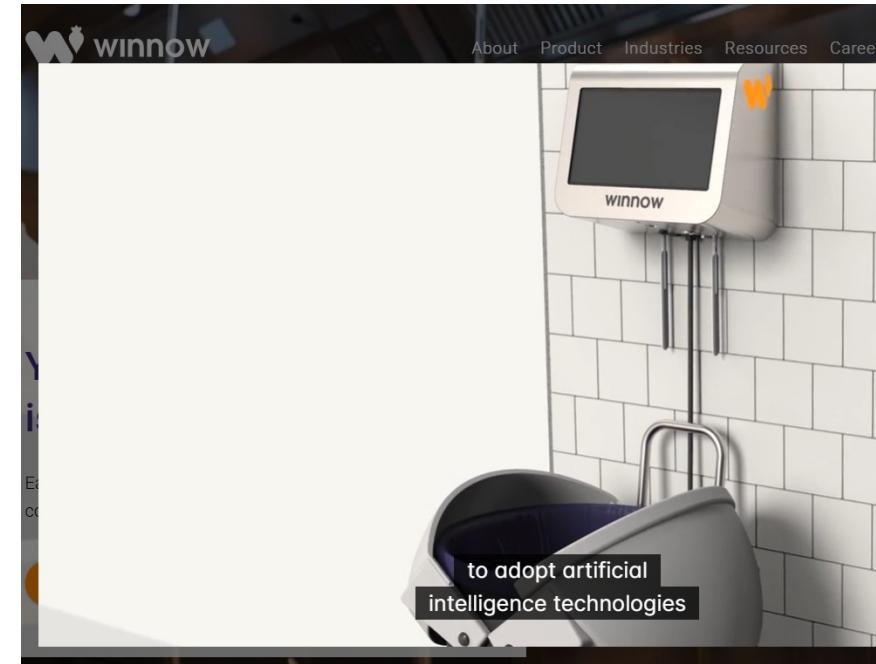


An Alpine mission to decarbonise construction

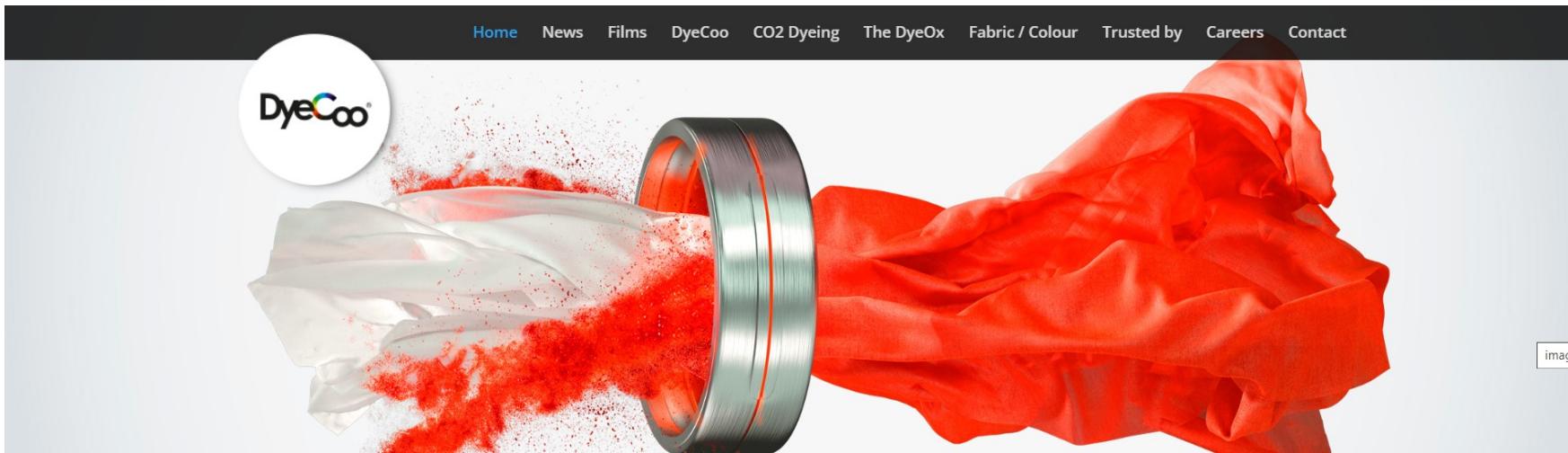
- Technicians and scientists witnessing the effects of climate change in the Alpine region came together to form the start-up **ParaStruct**. Their mission is to **decarbonise the construction industry** and reduce resource inefficiencies with an advanced 3D power-printing technology that enables the recycling of construction waste into high-quality materials for re-use.

Storries for grabs

- British start-up [Winnow](#) has developed **smart meters that analyse trash**. They are used in commercial kitchens to measure what food gets thrown away, and then identify ways to reduce waste.
- - Up to a fifth of food purchased can be wasted in some kitchens, and Winnow has managed to cut that in half in hundreds of kitchens across 40 countries, saving its customers over \$25 million each year in the process.
 - That is the equivalent of preventing one meal from going to waste every seven seconds. This innovation earned Winnow the Circular Economy Tech Disruptor Award.



Storries for grabs



- **DyeCoo**, based in Weesp, the Netherlands. Company has developed a process of dyeing cloth that uses no water at all, and no chemicals other than the dyes themselves. It uses highly pressurised “supercritical” carbon dioxide, halfway between a liquid and a gas, that dissolves the dye and carries it deep into the fabric.
- The carbon dioxide then evaporates, and is in turn recycled and used again. 98% of the dye is absorbed by the cloth, giving vibrant colours. And because the cloth doesn't need to dry, the process takes half the time, uses less energy, and even costs less. The company already has partnerships with major brands like Nike and IKEA.

Storries for grabs



The image shows the header of the Essity website. At the top left is the Essity logo. To the right are navigation links: Company, Brands, Sustainability, Innovation, Careers, Investors, and Media. Below the navigation is a row of brand logos: TORK, TENA, JOBST, Leukoplast, Libero, Libresse, Lotus, Nosotras, Saba, Jempo, Vinda, and Zewa.

- Essity is a global leader in sustainable solutions for hygiene and health, dedicated to improving well-being through products and services, essential for everyday life. Sustainability is an integral part of their business focusing on value creation for people, nature and society, critical to success and profitability.
- They engage customer channels through our brands using three sustainability platforms:
 - Well-being
 - More from less
 - Circularity
- At least 1/3 of all their innovations should improve society or the environment each year. Materials and energy will be recovered from all waste from all production sites by 2030.

Storries for grabs



1800 24 24 73

PORTAL LOGIN

Investors

Home About Us ▾ What We Do ▾ Collection Program ▾ Battery Recycling ▾ Products ▾ Sustainability ▾ TonerPlas

- This Australian company has spent more than a decade **recovering value from old printer cartridges and soft plastics**. Their new innovation **turns these materials into roads**.
- The products are mixed in with asphalt and recycled glass to produce a higher-quality road surface that lasts up to 65% longer than traditional asphalt.
- In every kilometre of road laid, the equivalent of 530,000 plastic bags, 168,000 glass bottles and the waste toner from 12,500 printer cartridges is used in the mix.
- So instead of ending up in landfill, all that waste is given a new life, getting us where we need to go.



Storries for grabs



A screenshot of the Schneider Electric website. The header features a green box on the left with the text "Life Is On" and the Schneider Electric logo. To the right is a search bar with the placeholder "Search products, documents & more" and a magnifying glass icon. Below the search bar are five navigation links: "Products", "Solutions", "Services", "Support", and "About Us", each with a dropdown arrow.

- French-based [Schneider Electric](#), which specialises in energy management and automation, won the Award for the Circular Economy Multinational.
- Employing 142,000 people in more than 100 countries, it uses recycled content and recyclable materials in its products, prolongs product lifespan through leasing and pay-per-use, and has introduced take-back schemes into its supply chain.
- Circular activities now account for 12% of its revenues, and will save 100,000 metric tons of primary resources from 2018-2020.

Storries for grabs

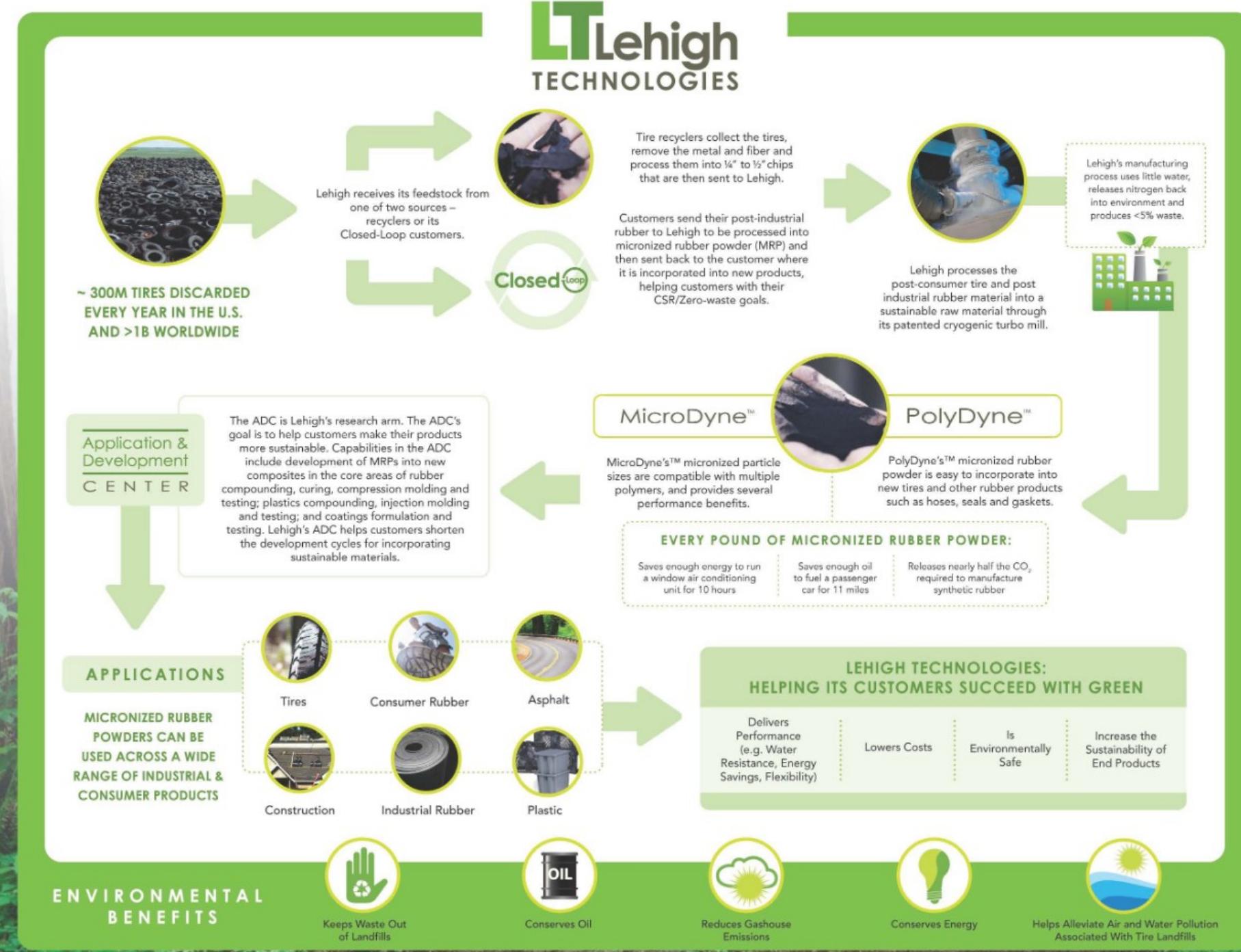


This Atlanta firm turns old tyres and other rubber waste into something called micronized rubber powder, which can then be used in a wide variety of applications from tyres to plastics, asphalt and construction material.

Five hundred million new tyres have been made using its products, earning it the Award for Circular Economy SME.

Source:

<https://www.lehightechnologies.com/the-company/what-we-do>



Storries for grabs



For the founder of [Miniwiz](#), Arthur Huang, there is no such thing as trash. He is for upcycling - turning old materials into something new. As he admits, this isn't a new idea - until the 20th century reusing whatever was lying around was the norm. But he is taking this principle to new levels, with the scientists and engineers in his **Miniwiz Trash Lab** inventing over 1,000 new sustainable materials and applications.

The Trashpresso machine is the ultimate expression of sustainable upcycling. It is a mobile upcycling plant that can be transported in two shipping containers to its customers. Once there, it turns 50kg of plastic bottles an hour into a low-cost building material, using no water, and only solar power.

Upcycling Database by MINIWIZ

MATERIAL SEARCH Filter mode:   215 results

TEXTILES FEATURES GENERAL FEATURES ENGINEERING FEATURES ARCHITECTURE & DESIGN

Recycled from

Category	Count
Disposable items	119
Durable consumer goods	47
Architecture waste	16
Textile waste	28
Electronic waste	10
Agricultural waste	13

Eco Rank

Price (US\$)

Used for

Category	Count
Furniture	71
Packaging	47
Ceiling	18
Wall Decoration	66
Floor	6
Structure	32
Building Materials	45
Accessories	23
Clothes	19

Potential for

Category	Count
Furniture	71
Packaging	47
Ceiling	18
Wall Decoration	66
Floor	6
Structure	32
Building Materials	45
Accessories	23
Clothes	19

Page: 1

Name

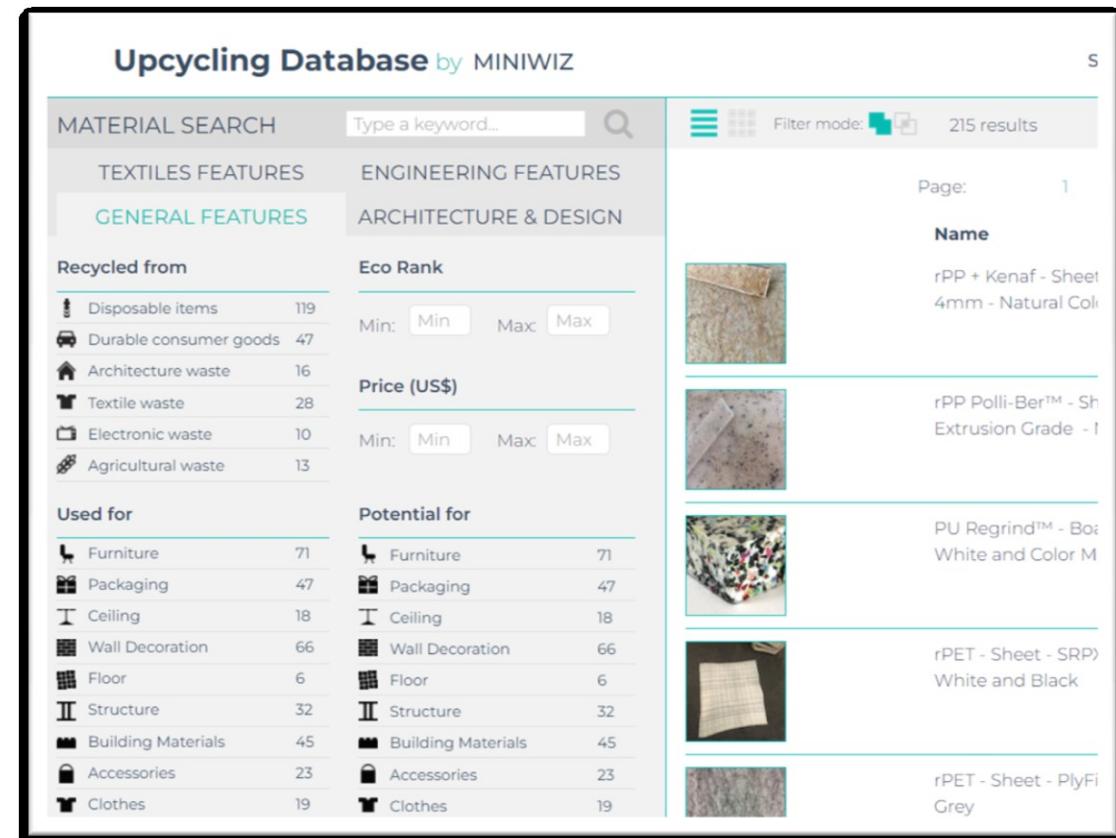
rPP + Kenaf - Sheet 4mm - Natural Col...

rPP Polli-Ber™ - Sh Extrusion Grade - I...

PU Regrind™ - Bo White and Color M...

rPET - Sheet - SRP) White and Black...

rPET - Sheet - PlyFi Grey

A screenshot of the Upcycling Database by MINIWIZ. The interface includes a search bar, filter options, and a list of materials. Each material entry shows a thumbnail image, the name, and a brief description. The database lists over 200 materials, including various polymers, composites, and structures, all derived from upcycled waste products.

Storries for grabs

Thousand Fell is already making a name for itself as an environmentally-conscious manufacturer with **shoes made from sustainable materials** such as coconut husk and sugar cane, and even recycled plastic bottles,

Now, in partnership with TerraCycle and UPS, the maker has launched a special recycling incentive. Customers can return old pairs of Thousand Fell shoes back to the manufacturer. Thousand Fell will then recycle the returned footwear and send customers \$20 that can be used toward a new pair of shoes.

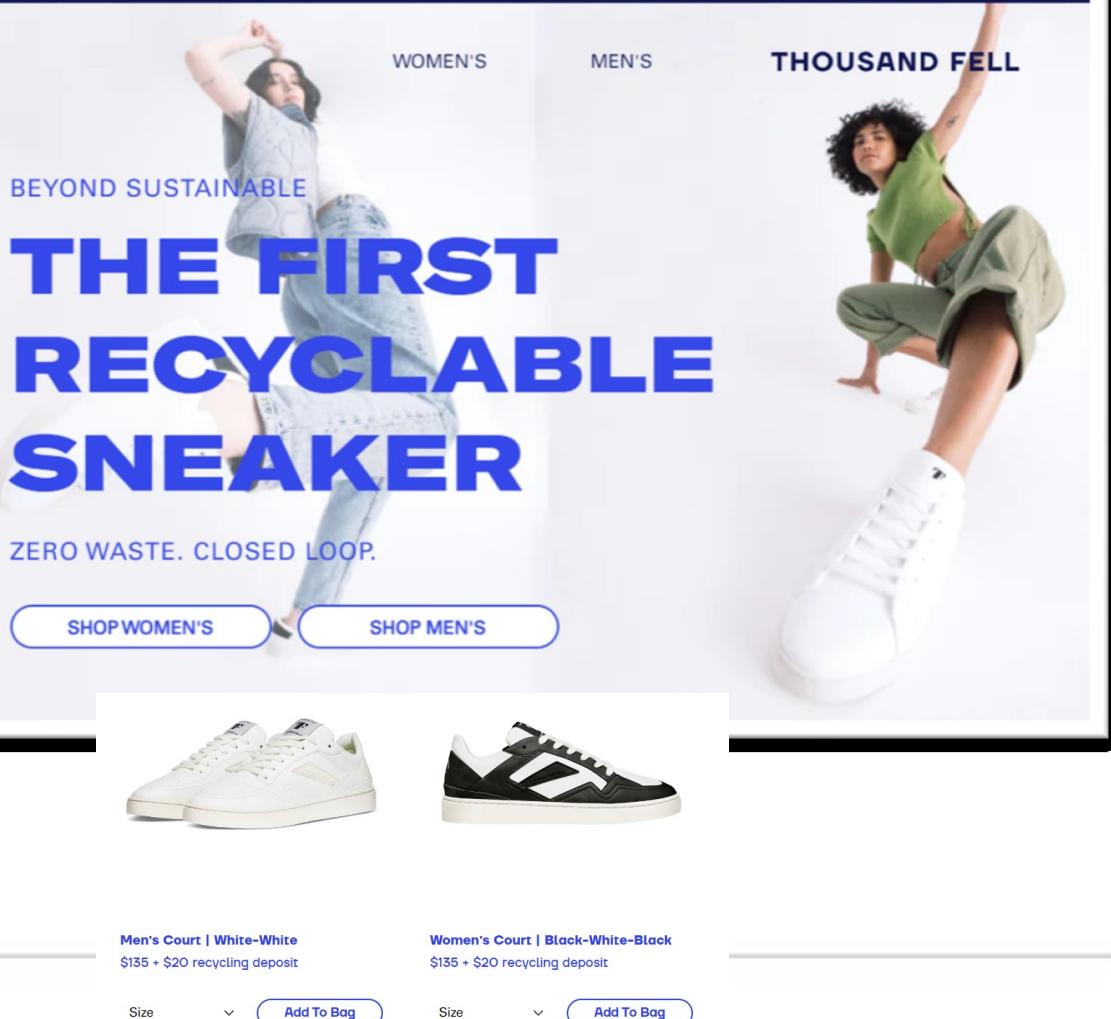
THE FUTURE IS FULL CIRCLE

97% of sneakers currently end up in landfill – we are changing that.

Our supply chain and products were designed over 3 years by industry leaders, incorporating tech from 4 countries.

We turn coconut husk, sugar cane & recycled bottles into sneakers to create a new type of product that can be recycled. Our supply chain allows us to take your old TFs back, recycle them here in the US, and put them into future TFs.

This is the future of footwear.



The screenshot shows the homepage of the Thousand Fell website. At the top right is the Silesian University logo. The main headline is 'THE FIRST RECYCLABLE SNEAKER' in large blue letters, with 'BEYOND SUSTAINABLE' and 'ZERO WASTE. CLOSED LOOP.' below it. Navigation links for 'WOMEN'S' and 'MEN'S' are on the left, and 'THOUSAND FELL' is on the right. Two models are shown in dynamic poses: a woman in a grey top and jeans on the left, and a woman in a green top and shorts on the right. Below the headline are two pairs of sneakers: 'Men's Court | White-White' and 'Women's Court | Black-White-Black'. Each pair has a 'Size' dropdown and an 'Add To Bag' button.

WOMEN'S

MEN'S

THOUSAND FELL

BEYOND SUSTAINABLE

THE FIRST RECYCLABLE SNEAKER

ZERO WASTE. CLOSED LOOP.

SHOP WOMEN'S

SHOP MEN'S

Men's Court | White-White
\$135 + \$20 recycling deposit

Women's Court | Black-White-Black
\$135 + \$20 recycling deposit

Size Add To Bag

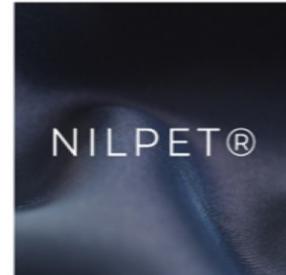
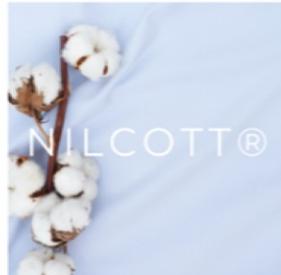
Size Add To Bag

Storries for grabs

—NILMORE

Czech company NILMORE returning clothes for recycling

Do you no longer want our clothes? Is it worn or did it just go out of fashion? You can return it to us through our network of Nilmore® Circular Points. For each returned piece you will receive a 100 CZK discount, which you can use for the next purchase! If you have purchased a product from one of our partners



_circular clothing

The production of raw materials and the generation of waste are the two phases of the life of clothing that have the greatest negative impact on our planet. We have developed circular clothing, which the **impact of these two phases eliminates**. How?

You will return the clothes to us after wearing them, we will fully recycle them and make new ones. That eliminates waste and saves raw materials. As a result, our clothing has the lowest impact of all commonly available textile materials.

[More about circularity](#)

Timeline

2018	Nilmore® was founded
2018-2020	Development of NILPLA® textiles and its recycling
2019-2020	Production of prototypes and their validation
2020	Verification of recycling at the industrial level
	Nilmore® clothing launch
	Finalist of the Creative Business Cup 2021
	1st place at GreenLight 2021
2021	Finalist of the Vodafone Idea of the year 2021
	1st place of the S Brand – the most sustainable brand of 2021
	1st place Sustainable startup of 2021
2021-2022	Development of other circular materials
2022	Launch of other circular materials



**SILESIAN
UNIVERSITY**
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ADMINISTRATION IN KARVINA

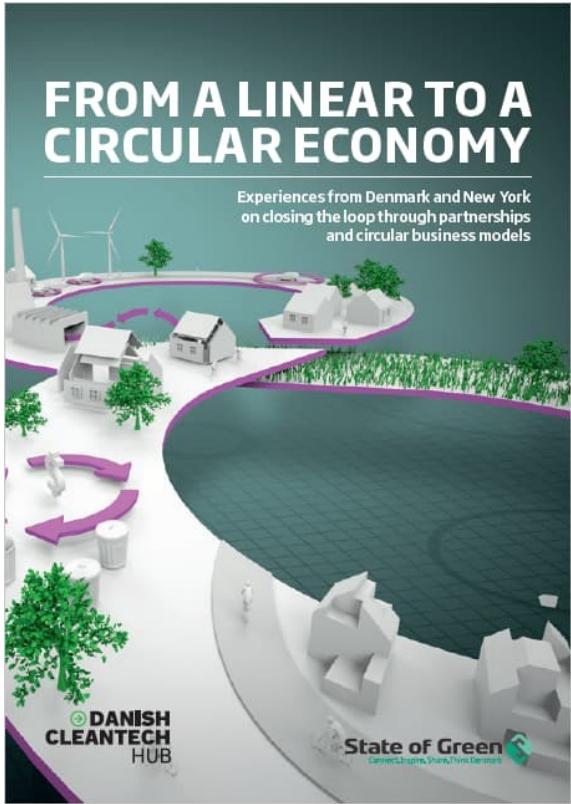
Impact on business concepts in new forms of business models

- [Circular Business models](#)
(ELLEN MACARTHUR FOUNDATION)
- [10 Circular Business Model Examples](#)
(Circular value chains through data / Circular product design / Use, reuse, share, and repair)
- [10 Examples of Circular Economy Solutions](#)
(Industrial symbiosis / The Danish deposit and return system for recycling cans and bottles / Denmark's first circular social housing project / Recycling of artificial turf / Closed loop in reuse packaging-as-service / Re-using old bricks to build a greener future)
- [Circulars Awards Program](#)



 The social fashion rental app: By Rotation A peer-to-peer fashion rental platform encouraging users to rent what they need and lend what they...	 Empowering customers to care for their wardrobes: Clothes Doctor Clothes Doctor offers a range of products and services to empower its customers to alter, maintain...	 Social peer-to-peer marketplace: Depop Originally designed as a social network for creatives to share and sell their products, Depop...	 A digital-only, multi-brand fashion platform: DRESSX DRESSX is an international digital fashion multi-brand retailer	 Enabling cashmere to be used for longer: ERDOS The ERDOS Group advocates the circular economy model to avoid wasting cashmere.
 Empowering luxury shoppers to choose better: FARFETCH	 Garments to be experienced by many, owned by none: GANNI	 Clothing rental for users and retailers: HIRESTREET With more than one million site...	 Durable, 'timeless' products in small collections: klee klee	 Making circular business models more accessible: LIZEE

Explore publication...



Experiences from Denmark and New York on closing the loop through partnerships and circular business models



How business models can accelerate the transition to a circular economy



A circular economy as an opportunity for successful innovations of Czech firms



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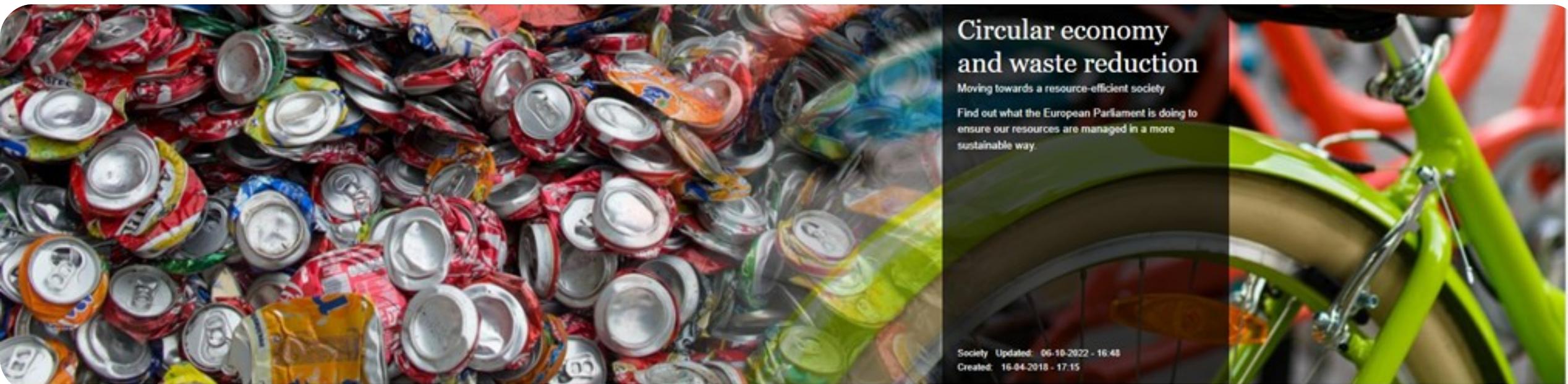
European Parliament/News/Priorities/Circular economy

Circular economy and waste reduction

Moving towards a resource-efficient society

Find out what the European Parliament is doing to ensure our resources are managed in a more sustainable way.

<https://www.europarl.europa.eu/news/en/headlines/priorities/circular-economy>





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What do you take away from today's lecture?

0 / 0

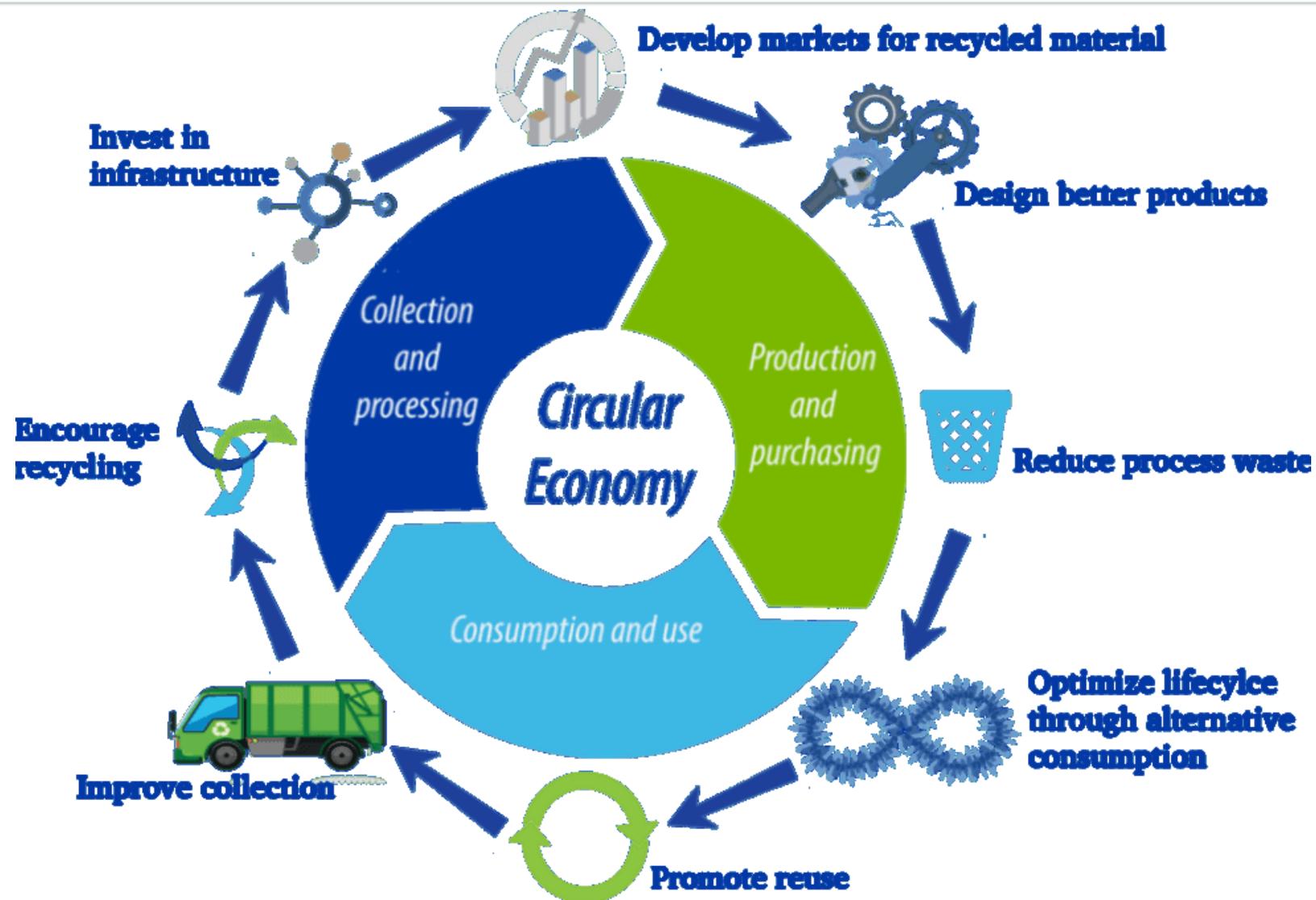


Use the infographic
and try to draw it!

Key Takeaways

- **Waste = Food:** The concept of circular economy is based on the idea of zero waste. This principle requires continuous cycling and recycling of materials and products rather than discarding them as waste. This principle aligns with nature's course wherein one species' waste is another species' food.
- **Resilience through diversity:** CE demands that the production and consumption systems should leverage on the biodiversity in the ecosystem and the diversity in the human economic space (in terms of resources) to reboot the system at all times such that inputs for the production process are sourced from the supply chain. This ensures resources continue to flow continuously within the circle, as opposed to the linear approach.
- **Energy from Renewable Resources:** CE requires that energy be sourced from renewable sources; it emphasizes Solar energy, wind power and tidal power as against the popular use of oil and gas. This is not unconnected with the natural system wherein plants generate their food through sunlight.
- **Think in Systems:** A central message of CE is the need to work as inter-connected systems rather than stand-alone units. CE works better with different groups working together to create effective flows of materials and information to keep the circle unbroken. As a result of this principle, global success of the CE concept thrives on collaborations and partnership.

Key Takeaways



Thank you...

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Guarantor of the master's course CSR

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