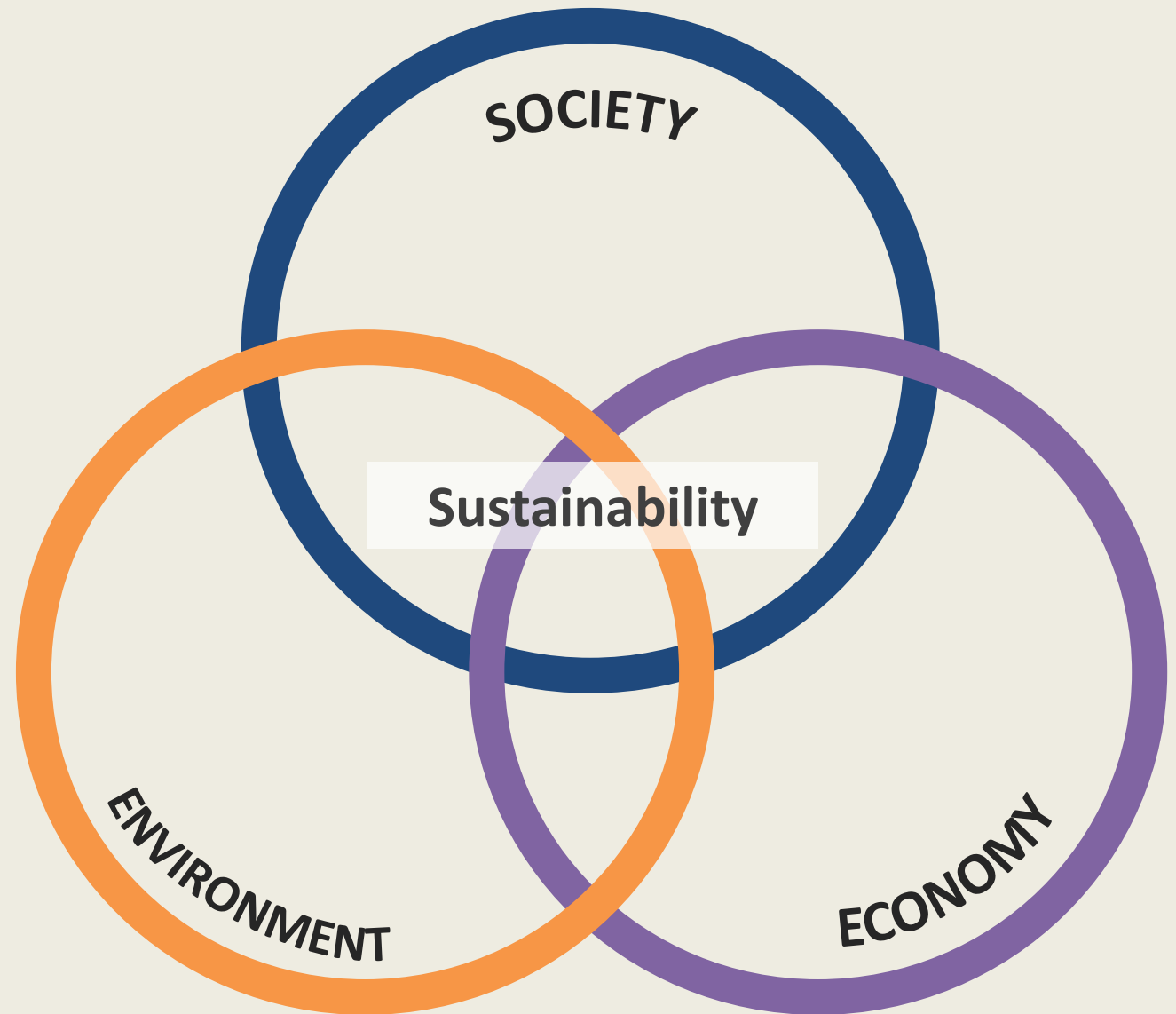


contributing to a  
sustainable future

# AGENDA

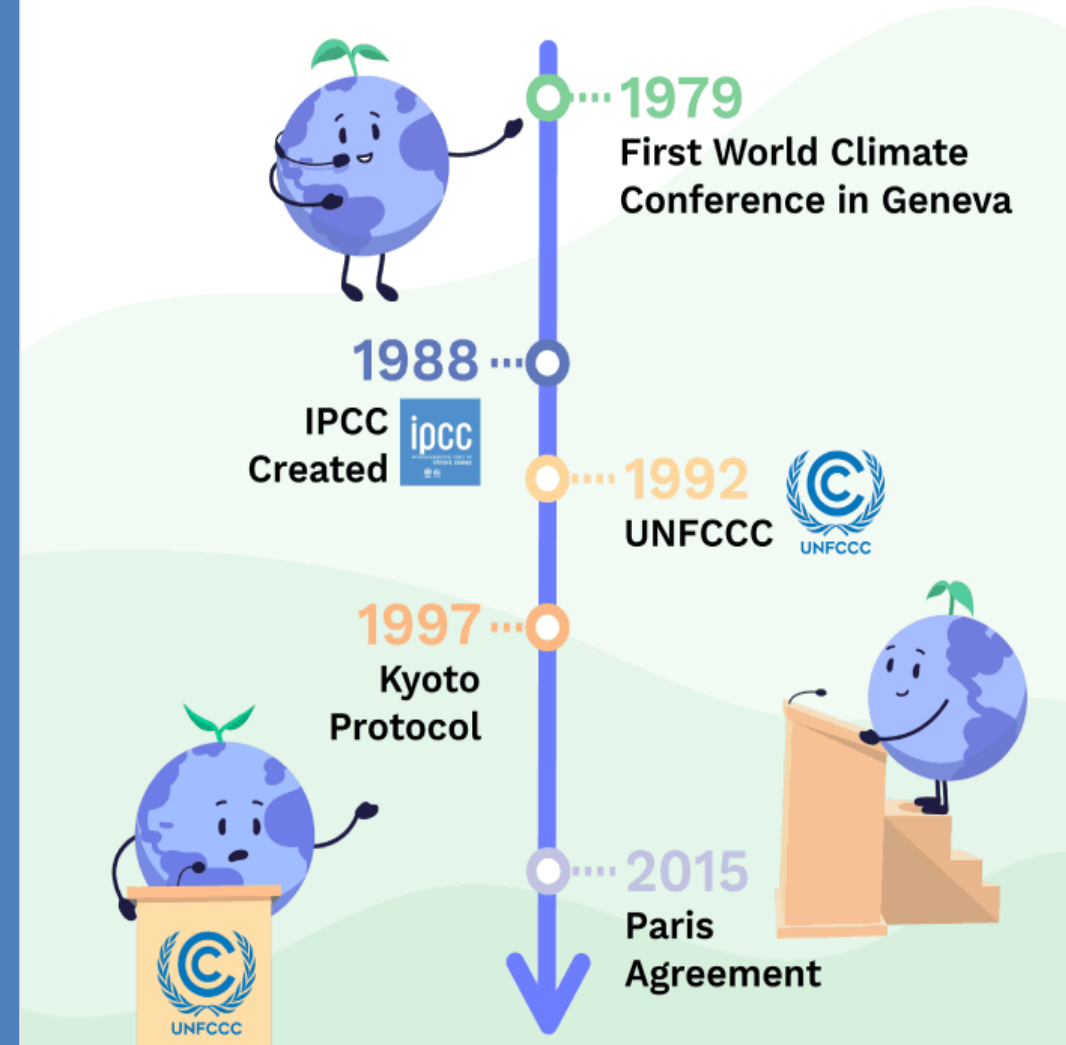
1. Sustainability
2. COP21 – Paris
3. Companies: Making A Positive Change
4. Progressing towards sustainability
  1. Packaging
  2. FSC Certification
  3. Zero waste to Landfill
  4. Tiered Supply Chain Sustainability Goals
  5. EPDs
5. What Is The Future? – Circular Economy

- **Sustainability**
- Fulfilling the needs of current generations without compromising the needs of future generations, while ensuring a balance between economic growth, environmental care and social well-being.



# COP21

## Timeline of International Climate Change Cooperation



Source:  
<https://climatescience.org/advanced-climate-politics-history>

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All together.



- Paris Agreement  
COP21

- A legally binding treaty adopted by 196 countries at the climate change conference in Paris in 2015.
- Cut global greenhouse gases to limit global temperature increases to 1.5°C above pre-industrial levels.
- To limit global warming to 1.5°C, greenhouse gas emissions must peak before 2025 at the latest and decline 43% by 2030.




# Nationally Determined Contributions (NDCs) - UAE



Source:  
<https://www.moccae.gov.ae/en/home.aspx>



# Kingdom of Saudi Arabia – NDC's

An aerial photograph of a terraced hillside in Saudi Arabia. The hillside is covered in green vegetation and terraced fields. Several multi-story buildings are scattered across the slope. The overall scene is lush and green, suggesting a focus on environmental restoration and greenery.

SGI target: plant 10 billion trees  
across Saudi Arabia

---

A commitment to rehabilitate 40 million hectares of land and restore Saudi Arabia's natural greenery.

# COMPANIES: *MAKING A POSITIVE CHANGE*

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# Companies: Making a Positive Change



**Accelerate the Energy Transition with Customers**



**Preserve Energy**



**Request Low-Carbon Logistics**



**Consume Responsibly**



**Reduce Digital Pollution**



**Use Renewables**



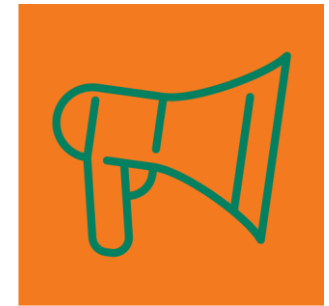
**Use Low Carbon Transport**



**Be Circular**



**Be Plastic Free**



**Lead By Example**

— \$ — bar

WHAT CAN YOU DO  
TO MAKE A *POSITIVE CHANGE*

# What can YOU do to make a positive change?

Organisation Acceptance	Reduce Energy	Reduce Waste	Reduce Emissions
<ul style="list-style-type: none"> <li>• Embrace and promote the need for sustainability within your organisation</li> <li>• Consider the environment within all your processes</li> <li>• Set up a team to manage and review specific sustainability actions</li> </ul>	<ul style="list-style-type: none"> <li>• Electricity (lights, machinery, heating, cooling)</li> <li>• Water (waste)</li> <li>• Production processes (energy efficient machines, improved automation)</li> </ul>	<ul style="list-style-type: none"> <li>• Materials inbound from your supplier</li> <li>• Packaging               <ul style="list-style-type: none"> <li>• Size</li> <li>• Shape</li> <li>• Material used</li> </ul> </li> <li>• Using Recycled &amp; Recyclable materials</li> </ul>	<ul style="list-style-type: none"> <li>• Transport used from your supplier</li> <li>• Transport used to the port of shipment</li> </ul>



# PROGRESSING TOWARDS SUSTAINABILITY

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# AGENDA

1. Packaging
2. FSC Certification
3. Zero waste to Landfill
4. Tiered Supply Chain  
Sustainability Goals
5. EPDs

# AGENDA

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# THE PROBLEM



2020  
3020

It takes **up to 1,000 years** for plastic to degrade.



8 Million  
tonnes

**More than 8 million tonnes** of plastic is dumped  
into our oceans every year.



**Half** of all plastics ever manufactured have been  
made in **just the last 15 years**.

# THE IMPACT

## THE IMPACT



If nothing is done by **2050**, pieces of plastic in the ocean will outweigh the number of fish.




**More than 32%** of global plastic waste ends up in the ocean.



**Over 500 species** of marine animals have either eaten or been entangled in plastic.

# KEY INFORMATION


Construction industry is the 2<sup>nd</sup> major contributor to plastic waste



The first structured cabling vendor in the world to switch to plastic free packaging



Excel commits to deliver products with no single use plastic packaging



Significant environmental impact can be achieved



Sizeable time and cost saving achieved by reducing the plastic waste recycling



# Zero Plastic Packaging



The first structured cabling vendor to go completely plastic-free in Packaging

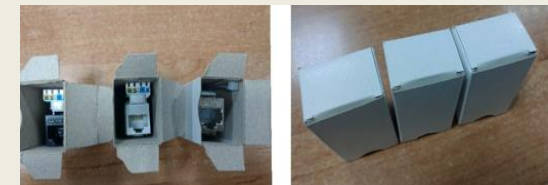
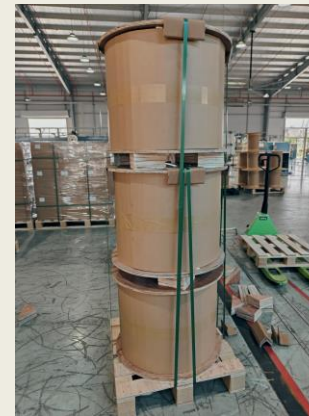
We estimate that we have removed **19 million** single-use plastic bags from the supply chain each year.

This equates to over **47.5 tonnes** a year of single-use plastic waste.

# PACKAGING

## Example

1. Review **outer** packaging requirements
2. Review **inner** packaging for suitability (ie. Reduce size or strength of cardboard)
3. Review **cable packaging** (ie. Make reels lighter/smaller or use alternative materials)
4. Review **box packaging** (ie. Alternative options for loose items purchased as singles)
5. Review **pallets** (ie. Biodegradable options)
6. Review products **where you provide accessories** (cable ties, cage nuts etc.)
7. Review product **composition** (ie. Reduce weight of product or change product material without compromising quality)



- Local Example

30,000 Plastic bags saved per resort

Over 90,000 Plastic bags will be saved on the three resorts won\*\*

Close to ¼ ton Plastic saved



*\*Image Source – Super Marine*

*\*\* (Current Estimate)*

**All together.**

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# AGENDA

1. Packaging
- 2. FSC Certification**
3. Zero waste to Landfill
4. Tiered Supply Chain  
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The most visible symbol of certification

- The FSC Certification verifies sustainable sourcing of forest products at every step of the value chain
- Every FSC label is backed by a diverse ecosystem of forest managers and businesses committed to upholding a common set of responsible forestry standards that support

- Zero deforestation
- Safeguarding of ancient and endangered forests
- Fair wage and work environments
- Biodiversity preservation
- Community rights

# FSC Certification

Paper & Cardboard Packaging

Forest Stewardship Council



# AGENDA

1. Packaging
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- 3. Zero waste to Landfill**
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# Zero Waste to Landfill

- Zero waste-to-landfill is exactly what it sounds like: ***diverting all waste from landfill disposal.***
- Responsible and clean manufacturing have become expectations to customers and interested parties within industries.
- Sustainability efforts such as landfill diversion are important steps to demonstrate environmental stewardship.
- Benefits to your organization for committing to landfill diversion through Zero Waste to Landfill include:

Minimize waste  
volume

Implement  
efficient  
operations

Reduce  
costs

Develop recycle  
and recovery  
programmes

Achieve and  
maintain  
regulatory  
compliance

- To summarize, zero landfill is all about reducing waste and beneficially reusing the waste we do generate.

# Zero Waste to Landfill

- Can you achieve 'Zero waste to landfill' certification ?





# Zero Waste to Landfill

1

- Calculate your baseline and get an understanding of your current waste
- What percentage of your waste is going to landfill versus higher uses?

2

- Set clear, measurable goals
- Identify your problematic waste streams and materials going to landfill

3

- Start with low-hanging fruit – once you meet a few simple goals, use that momentum to achieve more ambitious goals

4

- Create a plan to reduce the amount of your waste that goes to landfill

5

- Engage employees – you'll be surprised how far clear procedures and signage on bins can go in reducing your waste!

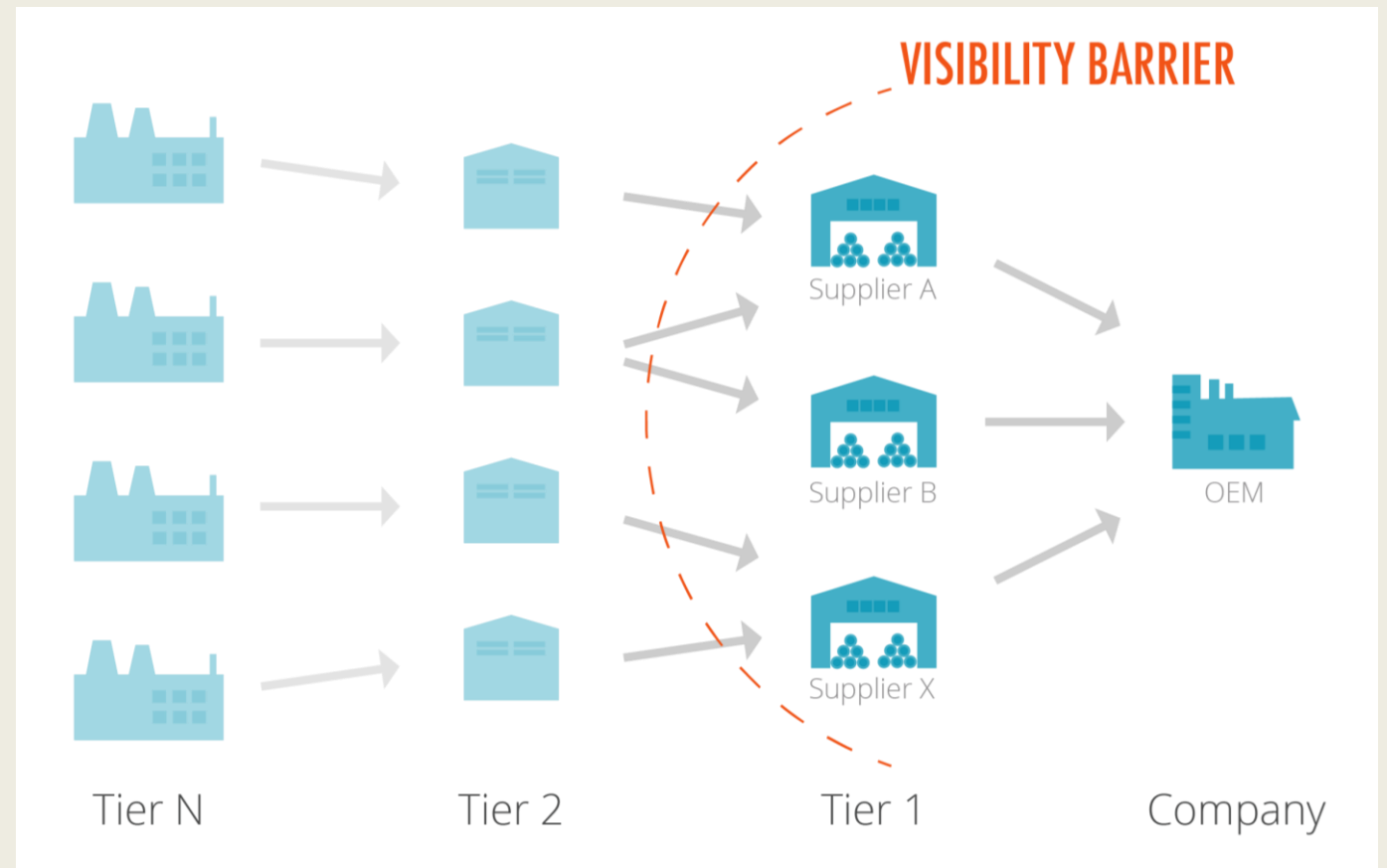
Remember, zero waste to landfill doesn't have to be all or nothing.  
Taking small steps today can help improve your environmental  
impact from where you were yesterday!

# AGENDA

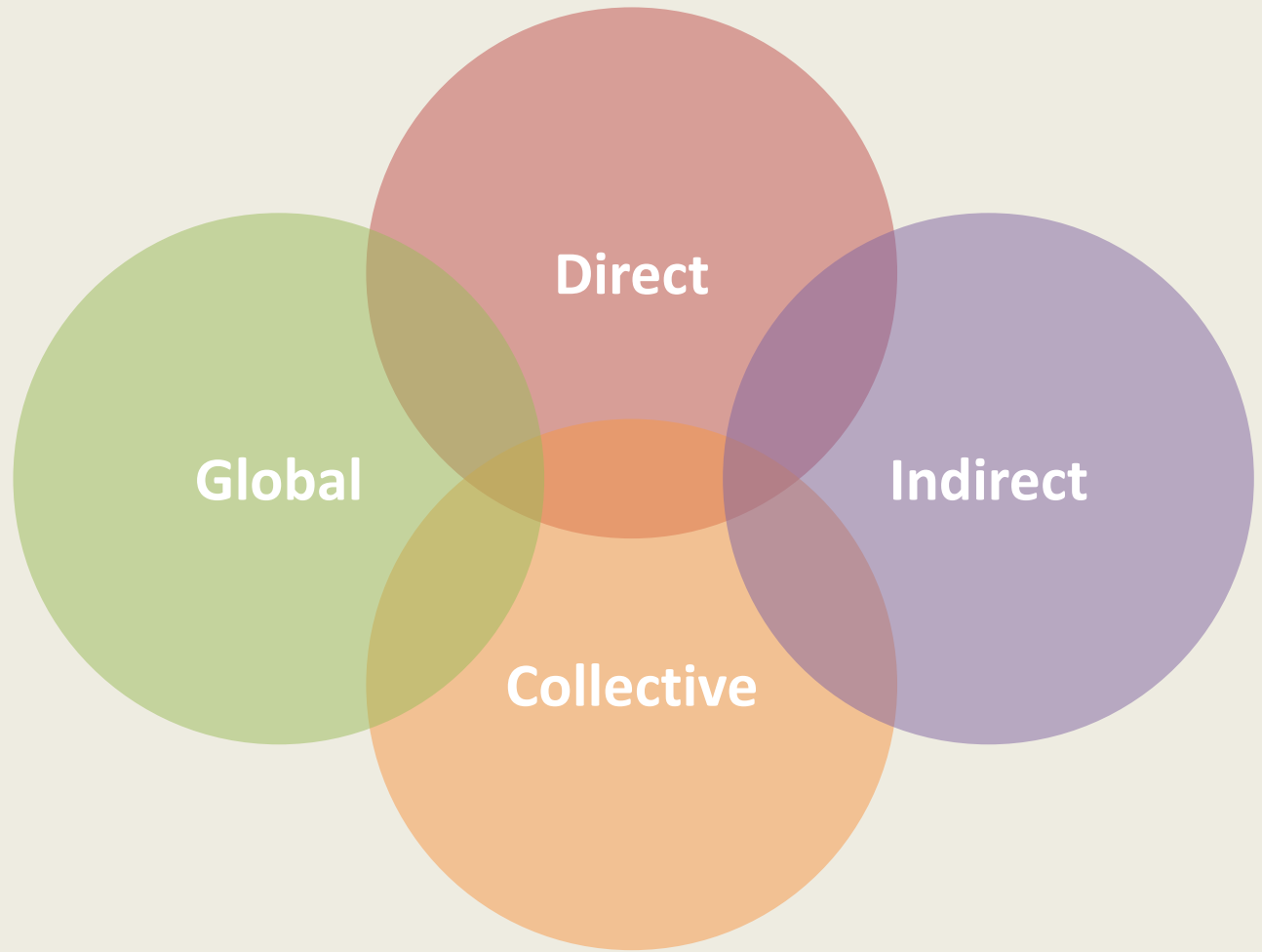
1. Packaging
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# Tiered Supply Chain Goals

Multi-tier supply chains are multiple single-level collaborations, meaning multiple supplier to buyer relationships, within one supply chain.



# Tiered Supply Chain Goals



# Tiered Supply Chain Goals

## Direct

- Working directly with first-tier suppliers regarding second-tier suppliers

## Indirect

- Delegating elements of supplier sustainability management to first-tier suppliers

## Collective

- Collaborating with competitors and major suppliers to develop and disseminate industry wide sustainability standards

## Global

- Collaborating with international organisations that share their goals to create an international effort to promote CSR



# Tiered Supply Chain Goals

Set bespoke sustainability goals for each supplier within the supply chain . Each supplier has unique processes and different strengths and weaknesses – they shouldn't all be working towards the same goals.

## Supplier A:

- Target Net Zero by 2050, in line with Taiwan government
- Reduced Co2 emissions 25% in 2022
- Supplier of Paper / card is FSC certified

## Supplier B:

- Consider changing PDU to plastic from metal to reduce weight
- Supplier of Paper / card is FSC certified

## Supplier C:

- Possible reduction in size of patch cords.

# AGENDA

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*'An EPD quantifies environmental information on the life cycle of a product to enable comparisons between products fulfilling the same function'*

EN 15804 - The EPD standard for the sustainability of construction works and services

## WHAT IS AN EPD

bre

Product name:  
Excel Solid Cat6A Cable UFTP LSCH CPR E4  
Excel Solid Cat6A Cable UFTP LSCH CPR E4  
Excel Solid Cat7A Cable SFTP EDw LSCH E4  
Excel Solid Cat7A Cable SFTP EDw LSCH E4

Technical Information

Property  
Screen Type  
CPR Rating  
Single/Dual  
Colour  
Conductor AWG  
No. of Conductors  
Conductor insulation  
Sheath Material  
Cable Diameter  
Temperature Range  
NVP  
Dielectric Strength  
Max. Pulling Load  
Min. Bend (Installation)  
Min. Bend (Installed)

Note: Technical properties of Copper (Cu)  
Technical proper

Standard	IPPC Gen
ISO/IEC 11801-1:2017	Mult 1.00
IEC 61156-5:2020	IPPC
EN 50173-1:2018	Mult and to 2
EN 50173-2:2018	Com enc 300
BS EN 50288-3-1:2013	1000
EN 50399:2011+A1:2016	1000
IEC 60332-1-2:2004 + A1:2020	1000

EPD Number: 000518  
B11805-C-CCP Rev 0.2

bre

Statement of Verification

BREG EN EPD No.: 000518 Issue 01

This is to verify that the  
**Environmental Product Declaration**  
provided by:  
**Mayflex UK Limited**



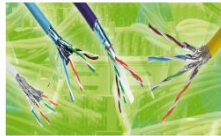
is in accordance with the requirements of:  
**EN 15804:2012+A2:2019**

and  
**BRE Global Scheme Document SD207**

This declaration is for:  
**1 metre of Excel solid conductor CAT6, CAT6A & CAT7A 4-pair  
Ethernet cables**

Company Address

Mayflex UK Limited  
Unit 15,  
Junction Six Industrial Park,  
Electric Avenue  
Birmingham  
B6 7JJ



*Emma Baker*

Emma Baker  
Operator

14 August 2023  
Date of this issue

Signed for BRE Global Ltd

14 August 2023  
Date of First Issue

Operator

13 August 2028  
Expiry Date



This Statement of Verification is issued subject to terms and conditions (for details  
see [www.breglobal.com/verification](http://www.breglobal.com/verification))  
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BRE Global Ltd, Germany, Weyher 90245-500,  
T: +44 (0)1533 521 8811 F: +44 (0)1923 654603 E: [enquiries@breglobal.com](mailto:enquiries@breglobal.com)



B11805-C-CCP Rev 0.3

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An Environmental Product Declaration, or EPD, is a document which transparently communicates the environmental performance or impact of any product or material over its lifetime.

Within the construction industry, EPDs support carbon emission reduction by making it possible to compare the impacts of different materials and products in order to select the most sustainable option.

Architects, engineers and designers are able to choose the most sustainable option for their project

Manufacturers are able to optimise the impact of their products and market their carbon transparency

All together.





# EPDs

## Market Differentiation

- Using or creating EPDs will help you to differentiate your product or your project.

## Regulation and Legal Requirements

- All public procurement bodies in the EU and EEA are required to use EPDs to assess the environmental footprint of products

## Credits and Certification

- LCA credits are very cost-efficient and easy compared to other credits' requirements for your building's certifications



# EPDs

1

- Collect data – including raw material, resource consumption and waste data for your product

2

- Conduct a life-cycle assessment (LCA)

3

- Prepare background report for EPD to provide further detail about the LCA methodology and any assumptions made

4

- Third Party Verification to ensure accuracy and reliability

5

- Publication of the EPD

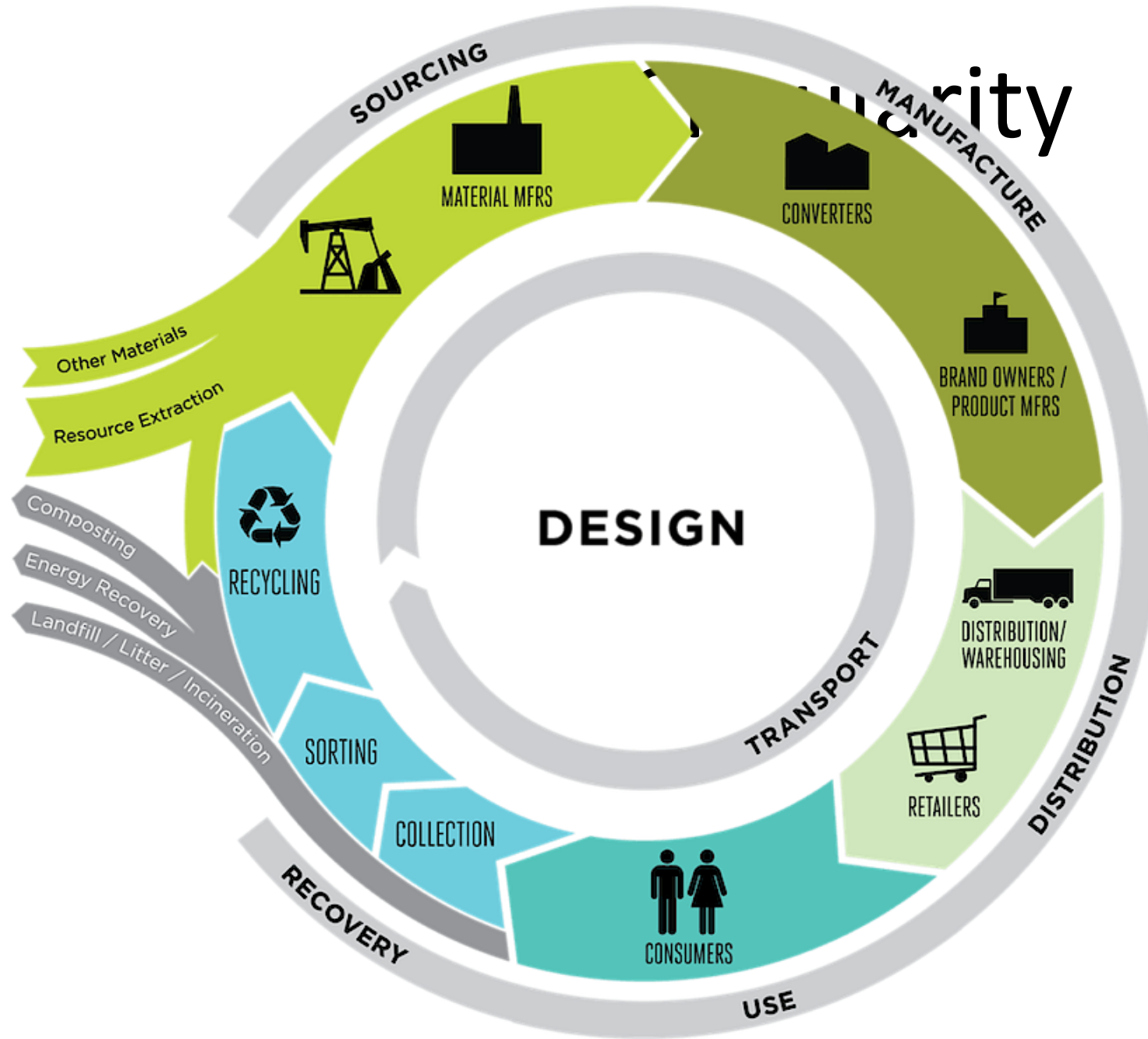


WHAT IS THE FUTURE?

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# Circular Economy

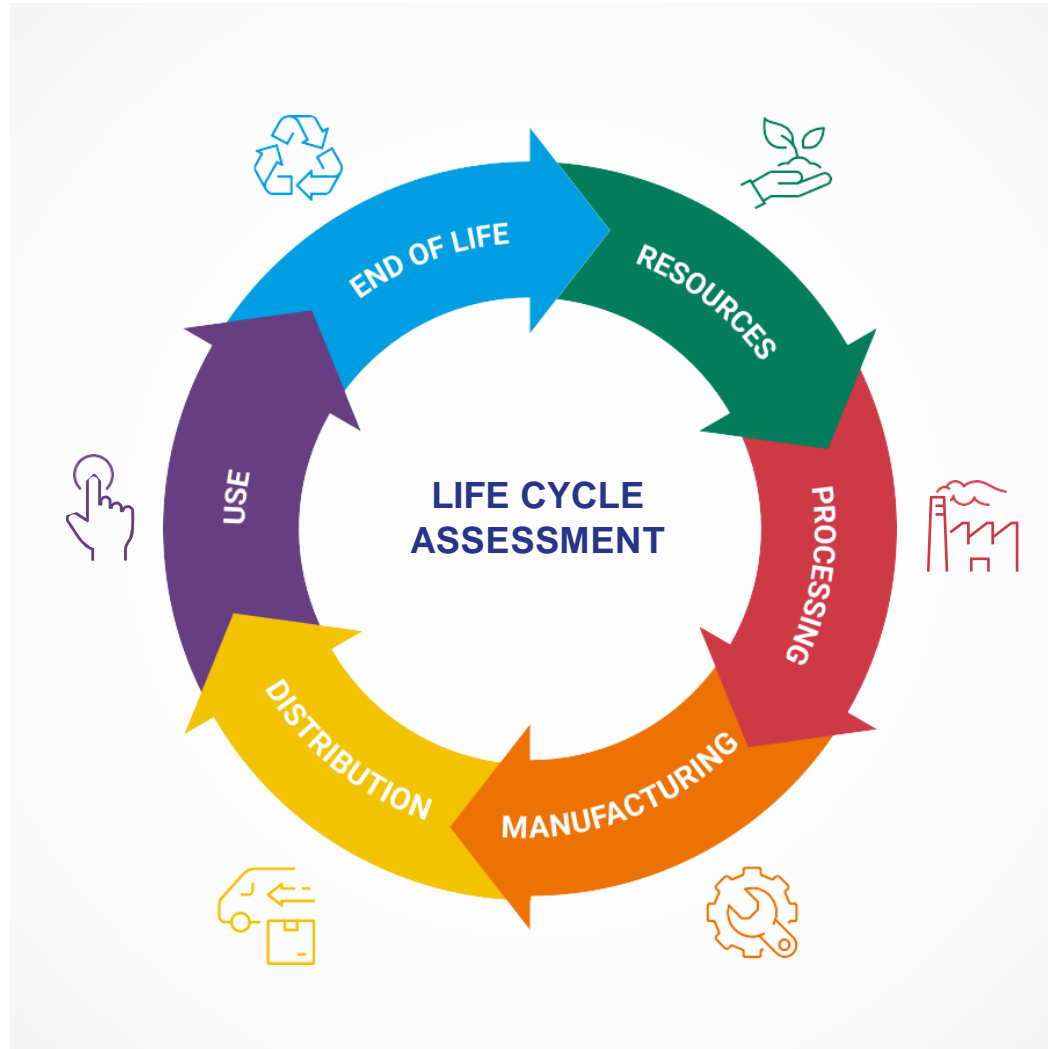


“Too often we see a product lifecycle unintentionally cut short and a resource become waste because the design of the project didn’t take into consideration the full cycle of opportunities for that material to be kept in circulation”

Kate Daly

# SUPPLIERS & PARTNERS

## ECO-DESIGN & ENVIRONMENTAL DECLARATIONS



An **Environmental Product Declaration** (EPD) provides the environmental performance of any product over its lifecycle.

It details verified information about the product's impact on the environment: carbon footprint, water consumption, resource depletion, waste generated...

The information published in an EPD is based on a **Life Cycle Assessment** (LCA). It is a methodology for assessing environmental impacts associated with all the stages of the product's lifecycle.

Considering all these environmental impacts as well as economic benefits during the development phase of a product is called **eco-design**.

# Key Considerations: Circularity

## Sourcing & Raw Materials

- What is the product made of?
- Does sourcing this material have a positive impact on the circular economy, such as using recycled content or biobased materials that are grown from regenerative sources?

## Utility (Use)

- Is the product designed to last?
- Does it extend the average use phase to avoid needing replacement with new materials?

## End of Life

- What happens to the product at the end of its use?
- Is it made from content that is reusable, compostable, or recyclable?
- Is the product designed in a way that allows its components to be dismantled and utilized for such end-of-life intentions?

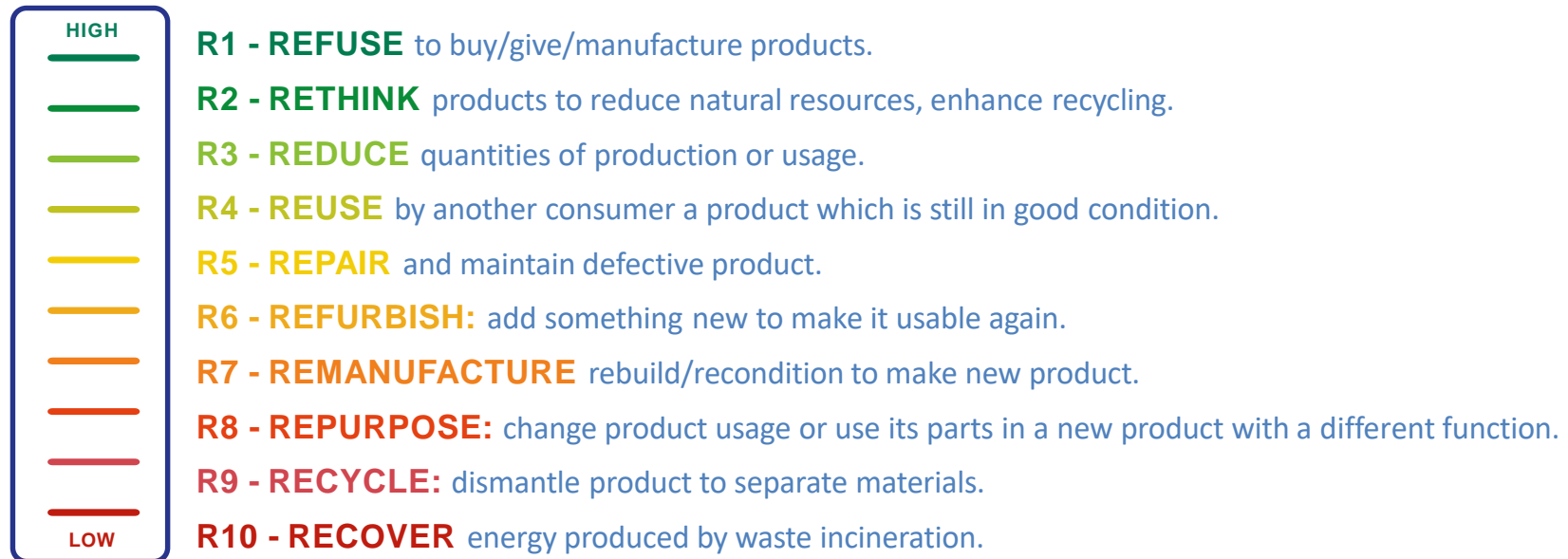
## Materials Management

- Is the manufacturer actively engaged in programs aimed at improving their use of materials and overall health and environmental impacts across their entire life cycles?



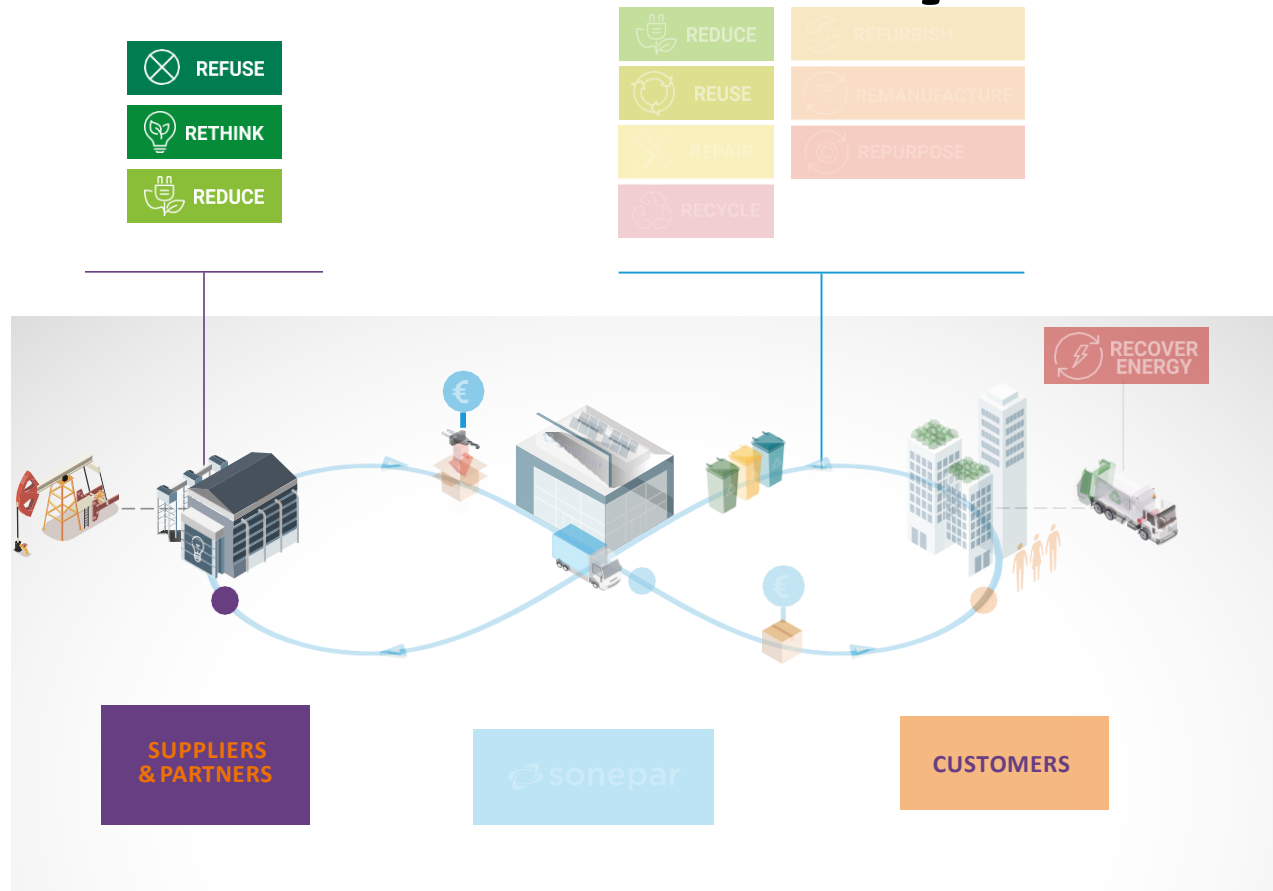
# Circularity and the 10 Rs

- Circularity is an economic system, which aims to **keep products and materials in use, reduce waste and regenerate natural systems.**
- The 10 Rs of circularity are the basic actions to reduce waste but acting with sobriety is the most important.



# A Circular Hub – A Real Example:

## *Sonepar*



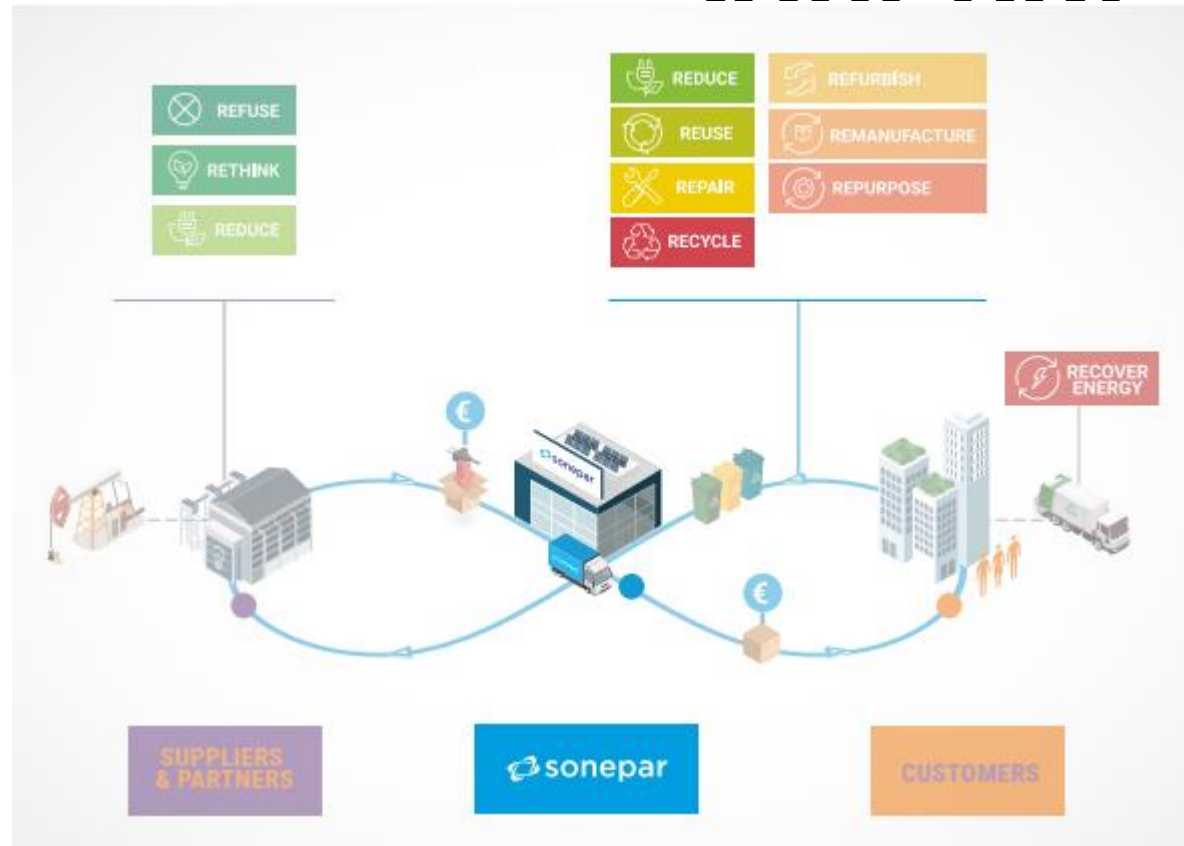
### SUPPLIERS:

Eco-design & environmental declarations

- Prefer products with **environmental product declarations** to integrate into the Sonepar Green Offer.
- Prefer suppliers that **refuse** to use hazardous substances, **reduce** packaging and remove plastics.
- **Rethink** packaging in collaboration with suppliers to use mono-material, biodegradable or recycled materials.

# A Circular Hub – A Real Example:

## Sonepar



### SUPPLIERS:

Eco-design & environmental declarations

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# Our Approach to Circularity

## Reuse – Cable Reels

We collect empty cable drums and re-use them wherever possible – so far this has seen a reduction of 50,542kgs of plywood and 83 tonnes of CO2.



## Recycle – Void Filler

All our waste is recycled – some of which is re-purposed and made into ‘packaging void fill’.



## Recycled - Palletwrap

Our racks are wrapped and shipped in palletwrap that is manufactured from 30% recycled film and is 100% recyclable rather than being virgin film.



## Plastic Free Packaging

We removed all single use plastic from our product packaging in 2019 - saving 69.5M bags entering the supply chain and landfill to date.

We are now working towards accredited FSC status for all our card and paper packaging.



THANK YOU!

ANY QUESTIONS?