



Steps to Net Zero Webinar 3 – Waste and Reuse

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Growing Climate Confidence 

Welcome to Steps to Net Zero



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A 5-part webinar series for Scotland's Third Sector

- 1 Engagement (watch online)
- 2 Travel (watch online)
- 3 **Waste and Reuse (today!)**
- 4 Energy and Buildings (20th Feb)
- 5 Buying and Selling (19th March)



Housekeeping!

- Closed captions are enabled should you wish to use them.
- Submit questions via the Q+A facility and upvote those you most want to be answered in the time available at the end.
- A copy of the slides and answers to any questions we don't get to during the session will be emailed out in the next few days.
- Please use the chat function respectfully!



Agenda

- Looking at Waste:
- Circular Economy
- What does this mean in reality?
Glasgow Wood




Mentimeter

<https://www.menti.com/alqjknghw9xi>



What is Circular Economy?

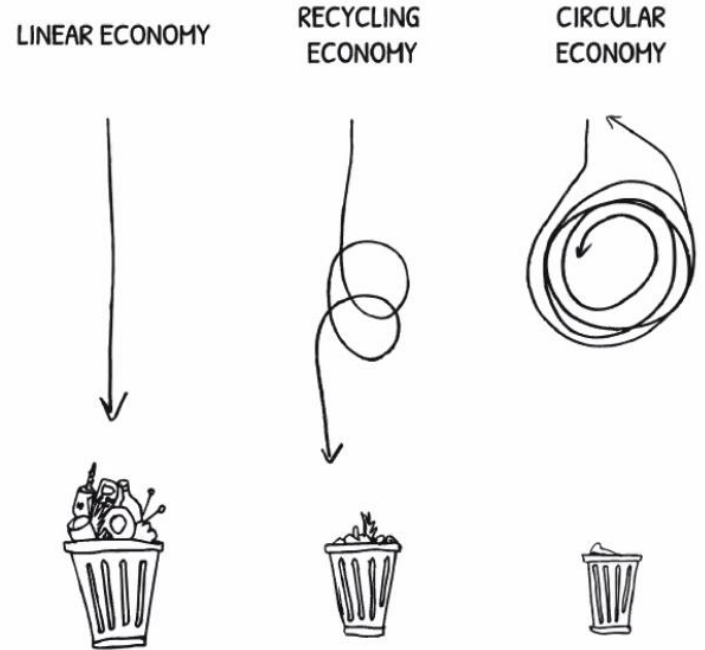


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Circular Economy

- What do you throw away that has value?
- What do you buy that others may be throwing away?
- Recycling isn't enough



System Level

- Systems Level as well as your business
- How can you work with others to keep materials in use and flow?
- We'll look at examples later





Moving house

You recycle brand new boxes

Linear

You buy brand new moving boxes and throw them away.

LINEAR ECONOMY



RECYCLING ECONOMY



CIRCULAR ECONOMY



CC by Circular Pioneers

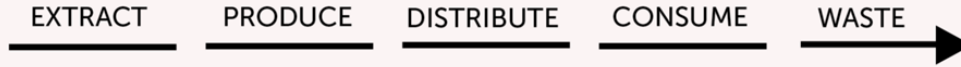
Circular

Take boxes from Tesco and use them + keep using.

Core Principles

1. Eliminate Waste and Pollution
2. Circulate Products and materials at highest value
3. Regenerate nature

Eliminate Waste and Pollution



LINEAR

- Currently, 80% of all material is wasted.
- Eliminating food waste entirely would save more emissions than aviation!

Circulate Products & Materials at Highest Value



Technical Cycle – e.g. Reusing metals



Biological cycle - e.g. Farming being destructive or regenerative

Regenerate nature

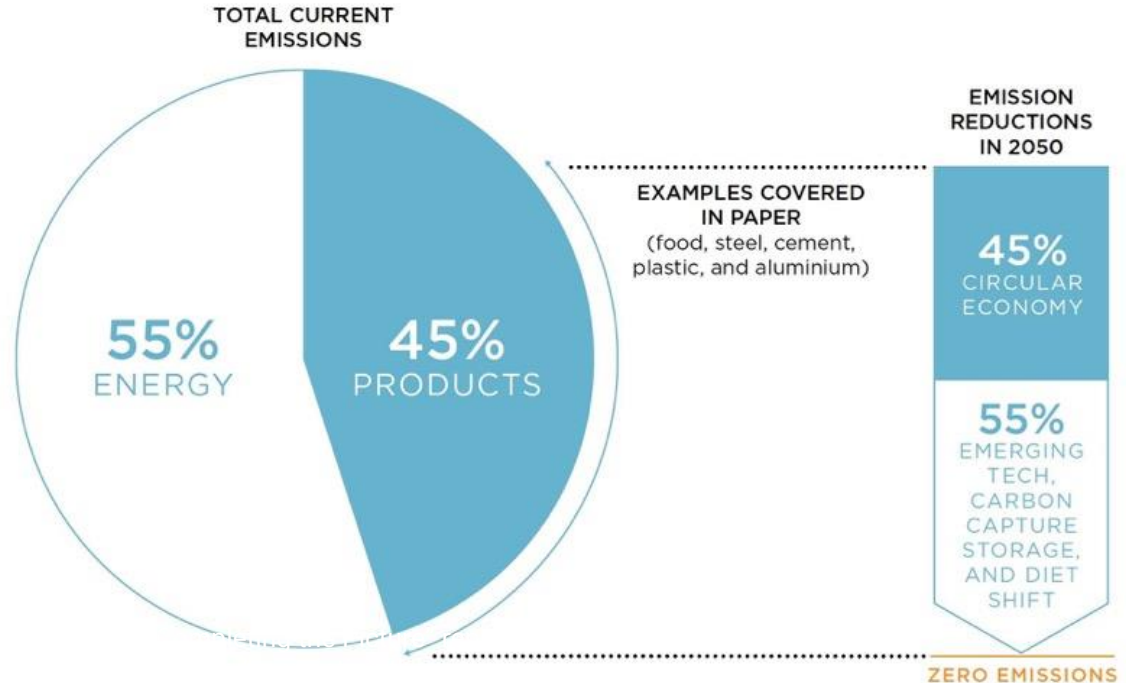


- Ecosystem focused agricultural practices helps sequester carbon.
- Regenerative food production can save 4bn tCO₂e **each year.**

Circular Economy and Net Zero

COMPLETING THE PICTURE: TACKLING THE OVERLOOKED EMISSIONS

- The stuff we make is half the problem.
- Combining Circular and Net Zero accelerates change massively.



Wine Packaging



Fizz Glass:
1kg* CO2e



Standard Glass:
675g CO2e



Lightweight Glass:
525g CO2e
460g “real”
weight



Can:
141g CO2e

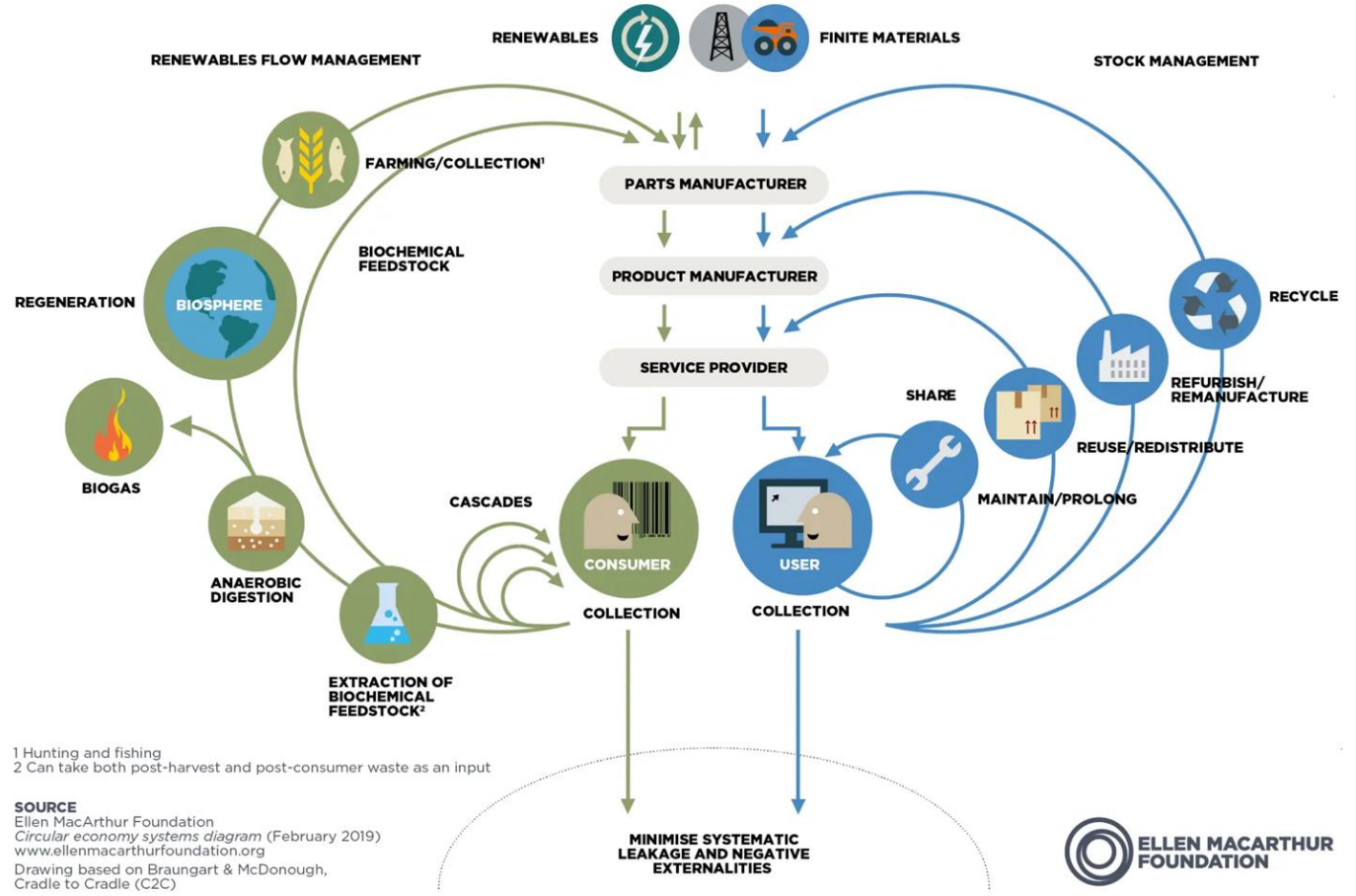


Paper:
122g CO2e



Box:
69g CO2e

RETHINK
REDESIGN
REPURPOSE
REPAIR
REMANUFACTURE
RECYCLE
RECOVER



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)





Treasure Hunt

Post in the Chat.

- Your organisation name
- 2 resources you **throw away** a lot of?
- What do you **buy in** a lot of?
- How could you reuse what others have posted?

E.g. Are you buying in cardboard boxes as a moving company

Systems Examples

Rethinking the process



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The Car:
Going beyond Waste

RETHINK: Cars

- Production is focused on sales BUT:
 - Cars are parked 95% of the time
 - Used ~1 Hour per day
 - On average, 1 person per car
- Do we need to **own** the car?

More Circular:

- **CoWheels** - 1 Car Club car takes 18 Cars off the road - more space for people who need them!

Circular isn't just waste.

It's not just the goods we buy, but also how we **use** them.

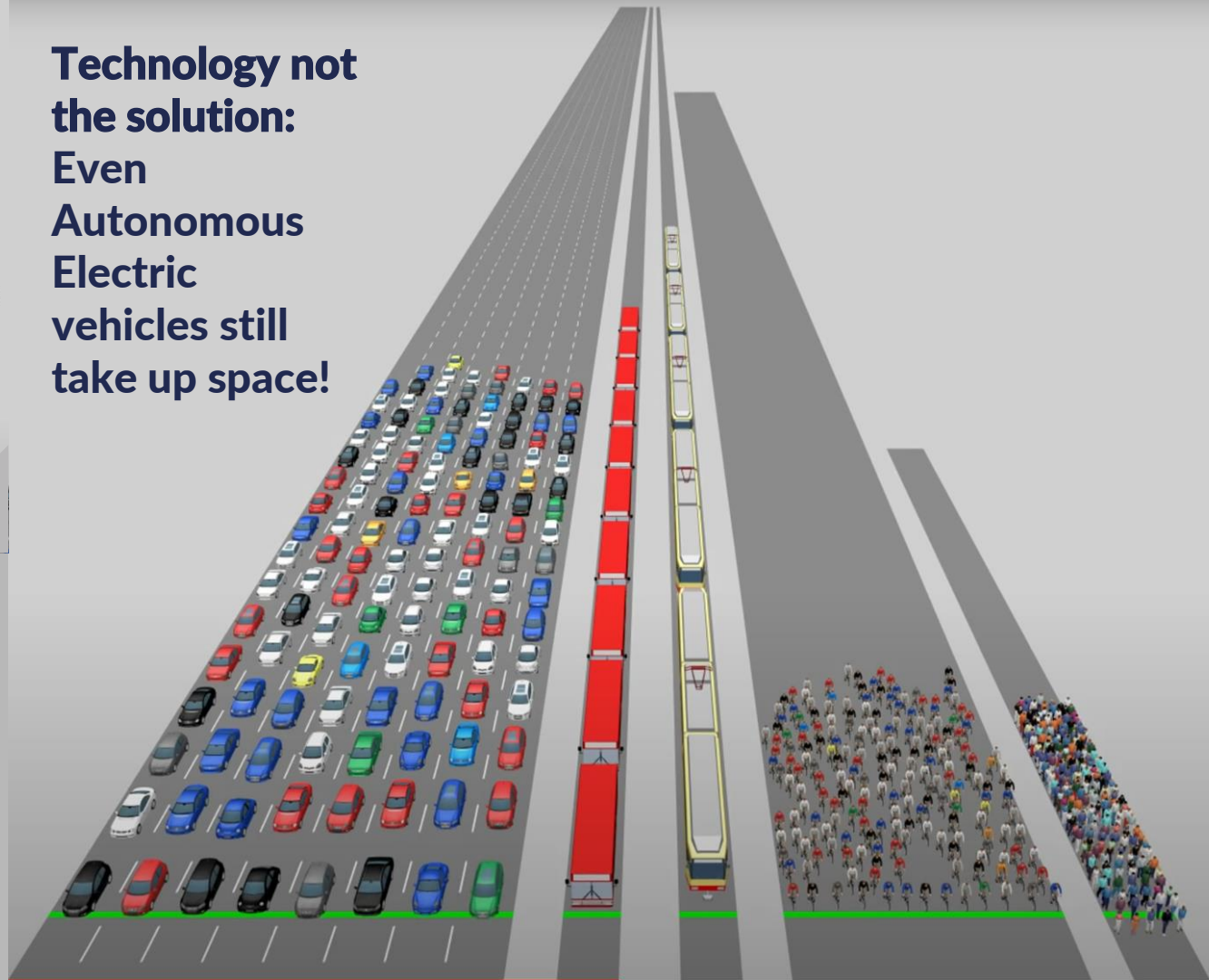


5 modes of transport
with 200 people each

The vehicles are occupied with
a typical number of passengers:

- ▶ 1.5 people in 133 cars
- ▶ 20 people in 10 busses
- ▶ 40 people in 5 trams
- ▶ 200 bikes
- ▶ 200 pedestrians

**Technology not
the solution:
Even
Autonomous
Electric
vehicles still
take up space!**



New Solutions

Cars are one of the most expensive assets we buy, after housing.

Would you buy a house that was only used 5% of the time?

Ownership > Service

Car Sharing business models create new revenue streams, reduce traffic, and make materials go further.



**What equipment in
your organisation
isn't regularly used?**



**What space in
your organisation
isn't regularly used?**



Rethinking Waste

- Could you sell your waste?
- Could you be paid to collect others' waste?

Case Studies



Highland Galvanizers: Elgin

- Motorway barriers recoated before steel is exposed
- Extends the life by 25 years
- 89% reduction in CO2e emissions by recoating rather than scrapping



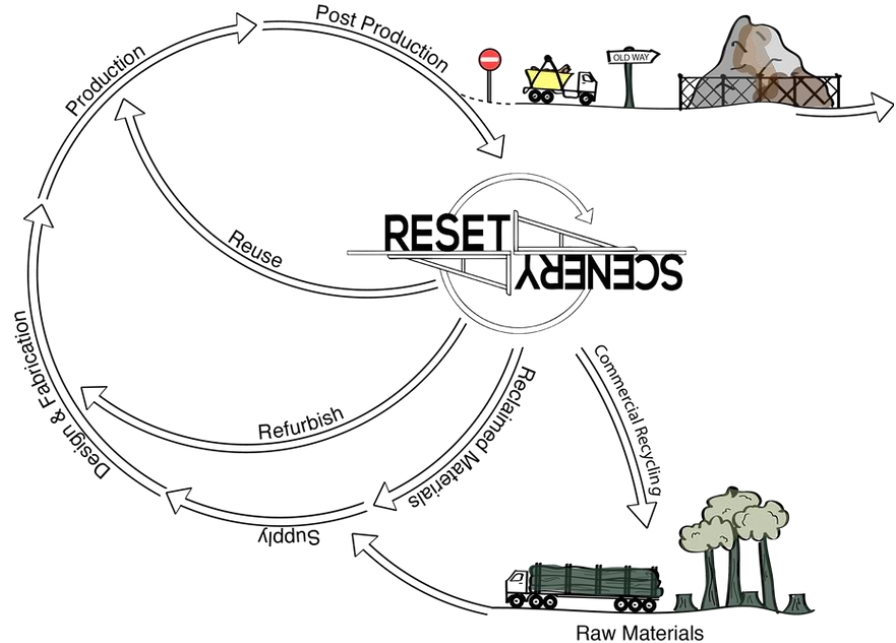
REVIVE ECO: Glasgow

- Collect used coffee grounds
- Process them
- Extract oils for sale to cosmetics industry and beyond
- Retailers: New revenue stream
- Industry: More secure supply chain



RESET SCENERY

- Unwanted or unused props and scenery
- Theatre film and events scenery was going to landfill
- New services:
 - Sales and hiring of stock (cheaper than new!)
 - Repurposing and reuse of unwanted items



Zero Waste Scotland



Glasgow Wood



Next Steps!



1 Measure your footprint

<http://climateconfident.scot/scorecard>

Thank you for taking the scorecard
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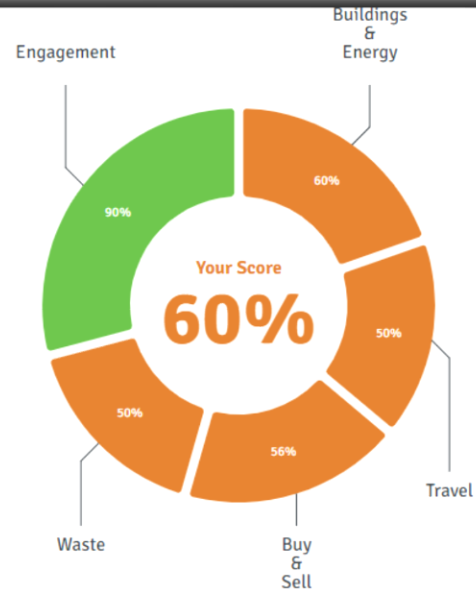
Your full report has been emailed to beth.murphy1@gmail.com. [Change email address](#)

If you would like further guidance and support, don't forget to check the [Climate Confident website](#).

Get some ideas on where you can start reducing below.

Over the next few weeks, we'll be sending you tailored tips based on your answers to help you get started.

● low ● medium ● high



2 Submit a story to SCVO!



To encourage staff to participate in active travel we have hired two electric bikes from local social enterprise, Bike for Good via their Switch Up subscription service. Staff can book the bikes via our booking system to travel to client meetings. This is a pilot project we're running for a couple of months in the hope it will motivate staff to look at more active ways to travel for business and personally.
Jo Seagrave, CEIS



At Scouts Scotland we are taking actions to make our Outdoor Activity Centres greener, and also bring young people along on that journey with us. We've recently installed food composters on all of our sites, so that the organic material leftover when groups eat with us can be turned into zero-mileage compost.
Lisa, Scouts Scotland

3 Get support from Just Enterprise

Funded by The Scottish Government, Just Enterprise is the go-to source of support for social enterprises and enterprising Third Sector organisations.

Register now to access:

- Start-up advice
- One-to-one business support
- Leadership programmes
- Workshops
- E-learning



<http://www.justenterprise.org>



Join us for Webinar 4: Buildings & Energy 20th February 2024

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