

# Circular Economy and the creative industry in the North-east

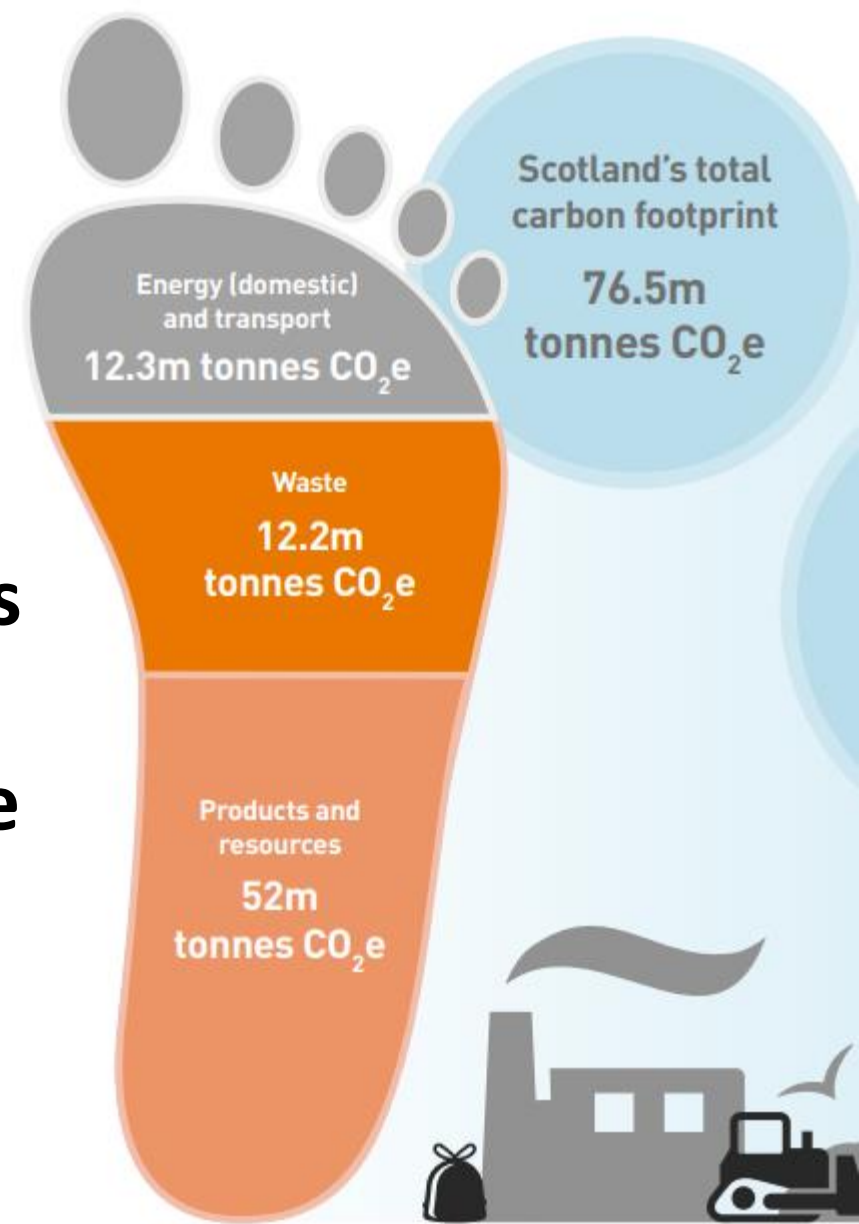
Terri.vogt@agcc.co.uk



EUROPE & SCOTLAND  
European Regional Development Fund  
Investing in a Smart, Sustainable and Inclusive Future



Remaining years until depletion of known reserves (based on current rate of extraction)										5-50 years						50-100 years						100-500 years						He
1 H 1.00794																				B	6 C 12.0107	7 N 14.00674	8 O 15.9994	9 F 18.99840	10 Ne 20.1797			
3 Li	4 Be																				11 Na 22.98977	12 Mg	13 Al 26.9815	14 Si 28.0855	15 P 30.97376	16 S 32.066	17 Cl 35.4527	18 Ar 39.948
19 K 39.0983	20 Ca 40.078	21 Sc	22 Ti 47.867	23 V 50.9415	24 Cr 51.9961	25 Mn 54.93804	26 Fe 55.845	27 Co 58.93320	28 Ni 58.6934	29 Cu 63.546	30 Zn 65.39	31 Ga 69.723	32 Ge 72.61	33 As 74.92160	34 Se 78.96	35 Br 79.904	36 Kr 83.80											
37 Rb 85.4678	38 Sr 87.62	39 Y	40 Zr 91.224	41 Nb 92.90638	42 Mo 95.94	43 Tc (98)	44 Ru 101.07	45 Rh 102.9055	46 Pd 106.42	47 Ag 107.8682	48 Cd 112.411	49 In 114.818	50 Sn 118.710	51 Sb 121.760	52 Te 127.60	53 I 126.905	54 Xe 131.29											



**Scarce resources**  
**Net Zero**  
**Managing waste**  
**Supply chain**



# LINEAR ECONOMY



# CIRCULAR ECONOMY



# Circular economy in practice

Looking at design

Design for ease of repair, reassembly and durability

Designing out or minimising waste

Using materials that biodegrade, can be reused or recycled

Making things last

Maintain/Repair

Reuse/Redistribute

Remanufacture – remaking products

Recycle at end of life

Extending value

New business models

Sharing

Leasing





10T are an apparel and accessories brand based in Scotland. We believe that we can challenge the status-quo and develop products with what others view as rubbish.



The image features a close-up of several decorative pillows. One pillow in the foreground has a prominent ruffled, scale-like texture. Behind it, another pillow has a white mesh pattern. The background is softly blurred, showing a bright outdoor setting with a blue sky and some greenery. The text 'MUMO & COMMUNITY' is centered over the pillows in a bold, black, sans-serif font.

# MUMO & COMMUNITY

---

# MISSION STATEMENT

---

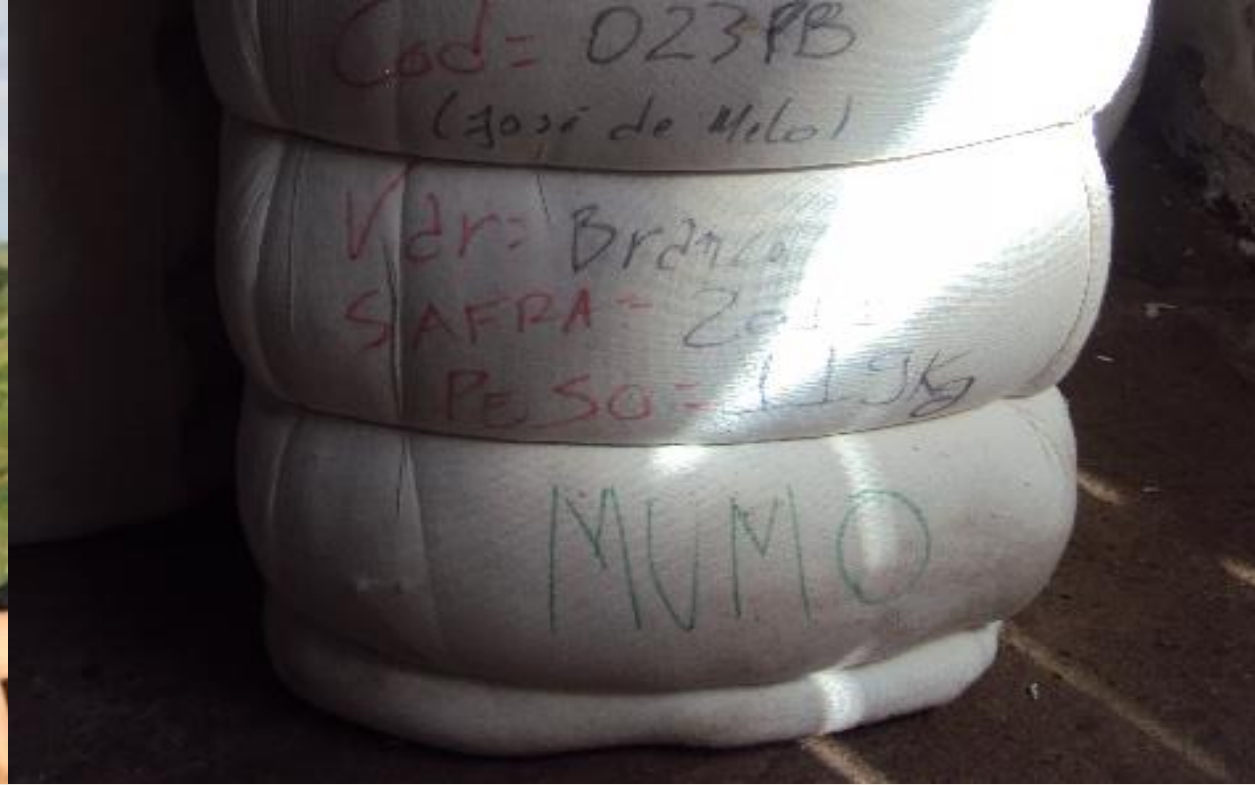
To create contemporary lifestyle products that are sustainable at every stage of the product lifecycle and throughout all business processes

# STORY

- Sustainable textiles sold to Vivienne Westwood, Bora Aksu etc.
- Lifestyle brand launched in 2010 with Chelsea College of Art, Wallpaper magazine, WSGN & Heals.
- Design inspiration: local art and culture of sourced textiles, hand crafted v contemporary.







## SUSTAINABLE MATERIALS

## ORGANIC FAIRTRADE COTTON

Sourced from co-op of farmers in North- East of Brazil paying double market price and for certification process. Spun in fairtrade factory in Sao Paulo and woven in family factory in Scotland

## ORGANIC JUTE & RECYCLED CANVAS

Organic jute with recycled cotton from used  
tarpaulins

## ECOLOGICAL PEACE SILK

Farmed on pesticide free land and harvested  
after the silkworm has left the cocoon

## ECO FISH LEATHER

By product of restaurant industry tanned  
with non-toxic products



# SUSTAINABLE BUSINESS

## PROCESSES SOCIALLY INCLUSIVE PRODUCTION

- Upskilling workshops in foiling and printing
- Working with vulnerable communities
- Empowering and capacity building
- Income generation



# DESIGNING FOR SUSTAINABILITY

- Designing for 'imperfect' production
- Re-pointing & re-use of waste materials
- Empowerment through repairing
- Income generation





# ETHICAL PRODUCTION CMT

- Local manufacturers supporting local economies
- Supporting local NGOs and vulnerable groups e.g. Scottish Refugee Council, CEMVO, WSERC (West of Scotland Regional Equality Council), Scottish Muslim Women Association.
- Employability & transferable skills
- Income generation



## MUMO & COMMUNITY

*Mumo is an ethical brand with a design focus, which was emphasised when they ran a design competition in 2010 in association with the Chelsea College of Art. Inspired by Rio de Janeiro's urban-beach lifestyle, the collection is ethically sourced and produced using luxury organic and fair trade textiles from Brazil, many of which Mumo has previously supplied to fashion designers including Vivienne Westwood.*



HAPPY WORKER



NO NASTIES



ARTISAN



ORGANIC



MOTHER EARTH



SHARE THE LOVE



HAPPY WORLD



LOW-IMPACT

AVAILABLE ONLINE

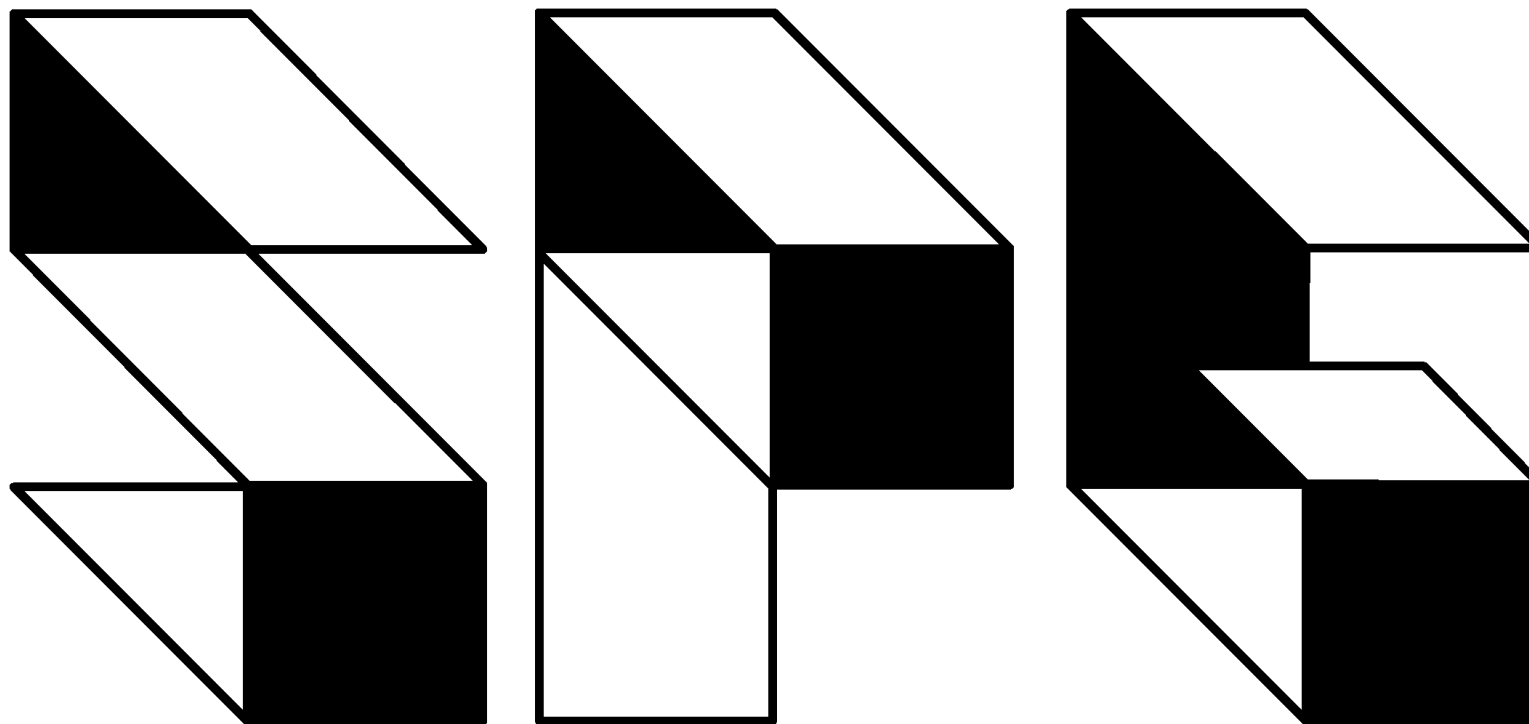
## SUSTAINABLE RETAIL

- Supporting sustainable brands, eg Wolf & Badger
- Challenge outdated markup models
- Messaging sustainability to customers

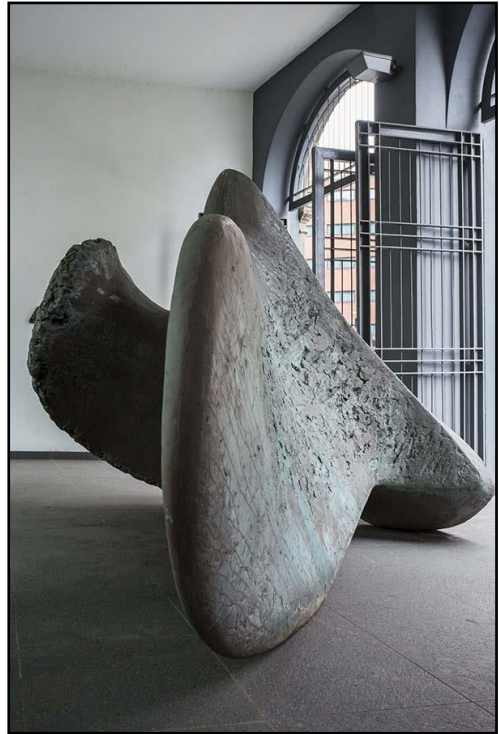






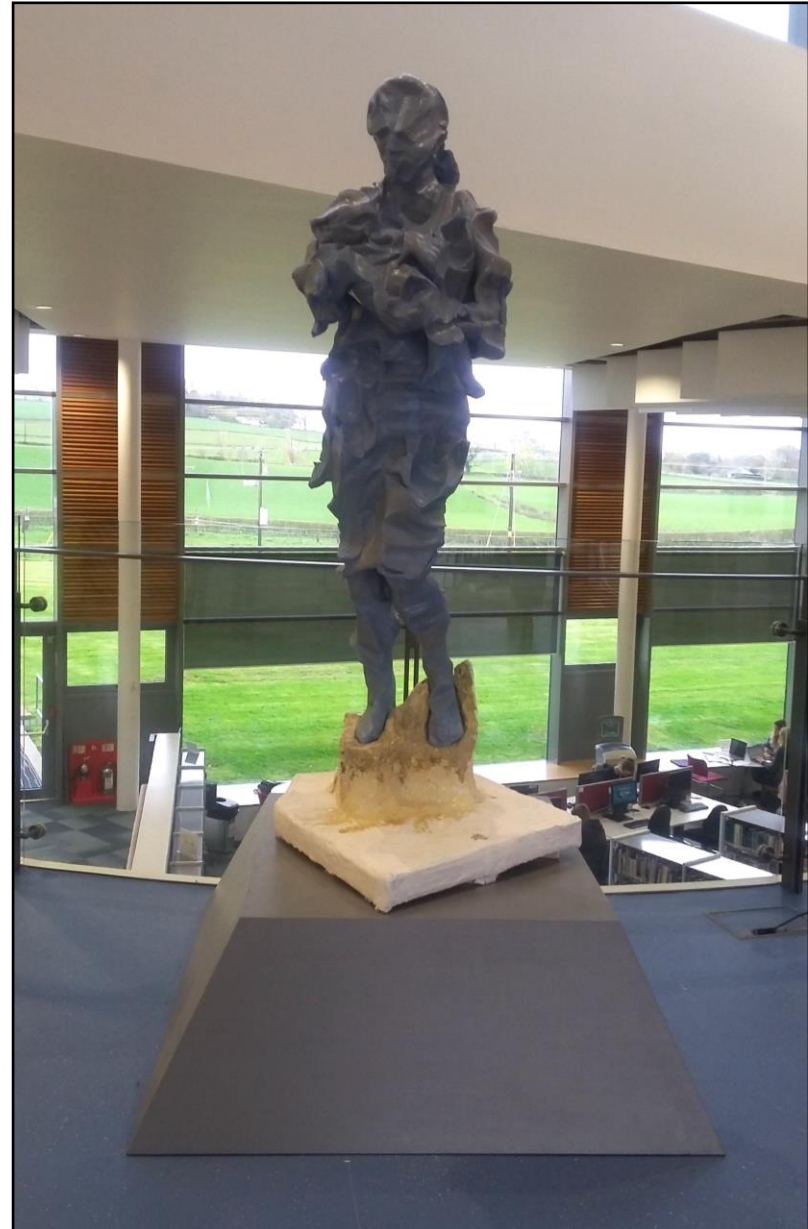


**SCULPTURE PLACEMENT GROUP**



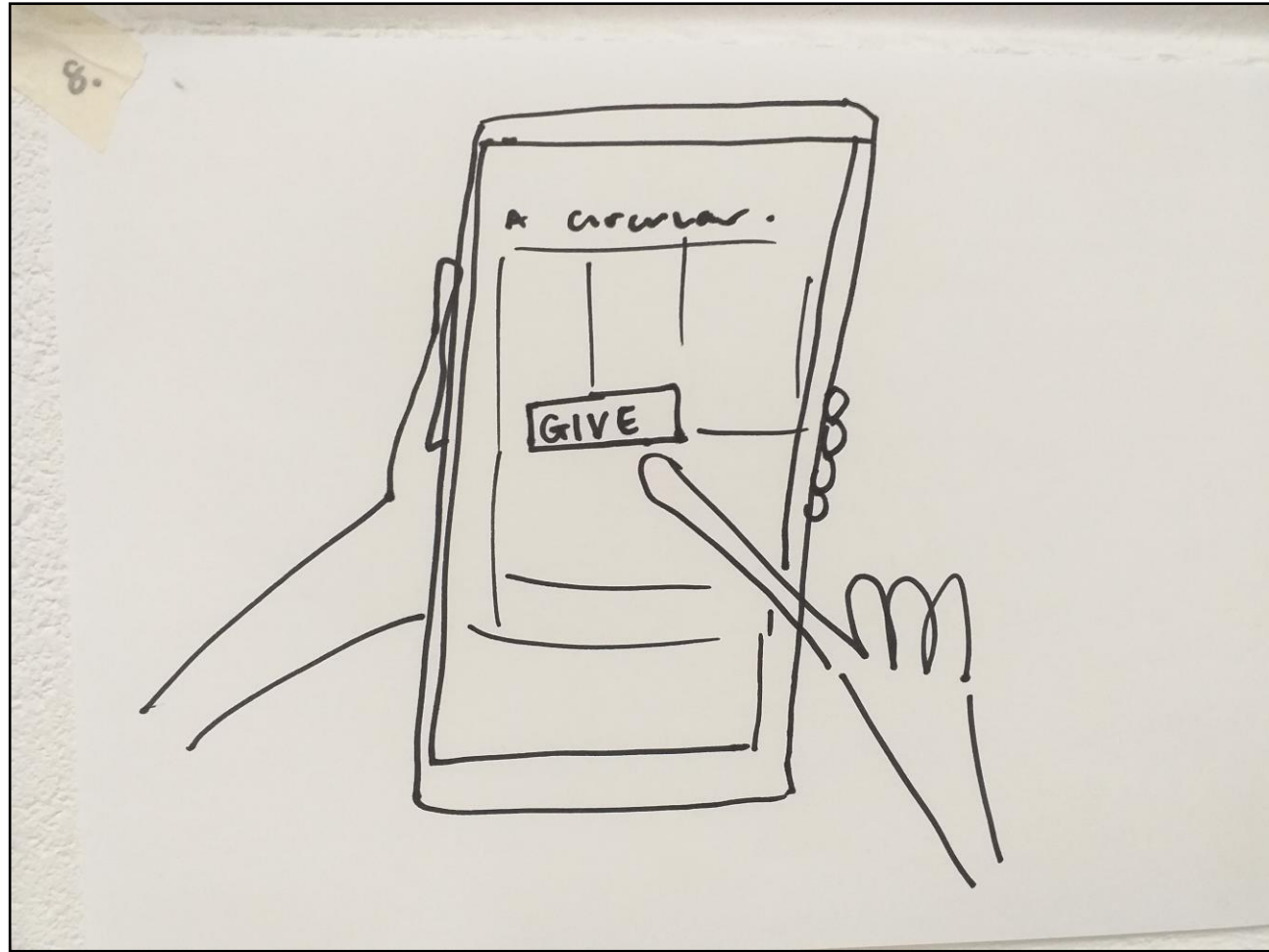








**Circular Arts Network:  
A circular economy tool for the arts**



[canarts.org.uk](http://canarts.org.uk)



**GIVE**

A way to redistribute spare or unneeded resources and save waste

**GET**

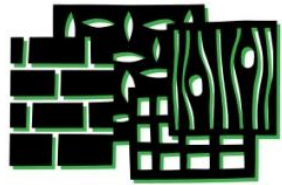
Find useful things affordably or for free

## Search

Find an item...



## Browse the listings



**Materials**



**Equipment**



**Transport**



**Furniture**



**Packing**



**Time**



## Location

Postcode

G4 9SS

Distance

15

miles

APPLY

CLEAR  
LOCATION

# All listings

CREATE ALERT

## Sponsors

**DCA**

Dundee Contemporary Arts



## Resources

**GCC**



Architecture &  
Design Scotland  
Aithearachd is Dealbhadh na h-Alba



scottish  
artists  
union

Showing 108 results



### Shop Mannekins

**FREE**

**Glasgow**

Added February 24,  
2021



### Assorted coloured Perspex

**£10.00**

**Glasgow**

Added February 23,  
2021



### Various Paints

**FREE**

**Glasgow**

Added February 18,  
2021



### Rainbow Scrollers in Flightcase

**FREE**

**Glasgow**

Added February 18,  
2021



### Various Props

**FREE**

**Glasgow**

Added February 16,  
2021

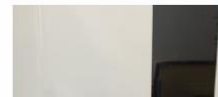


### Abstract MDF Scenery – Looks like Minecraft?

**FREE**

**Glasgow**

Added February 15,  
2021







**GLASGOW**  
CHAMBER OF COMMERCE



By Rosa Gally, Student at Glasgow School of Art



“I am so thankful for CAN which has encouraged me to work more sustainably.”

By Josie KO, Student at Glasgow School of Art, and CAN competition winner



# Making sustainable packaging choices

Laura Blair  
Sector Manager



[zerowastescotland.org.uk](http://zerowastescotland.org.uk)

 [@zerowastescot](https://twitter.com/zerowastescot)



European Union



gov.scot

**EUROPE & SCOTLAND**

European Regional Development Fund  
Investing in a Smart, Sustainable and Inclusive Future



## ABOUT US

Zero Waste Scotland exists to lead Scotland to use products and resources responsibly, focusing on where we can have the greatest impact on climate change.



**ZERO  
WASTE  
SCOTLAND**

# Throwaway society

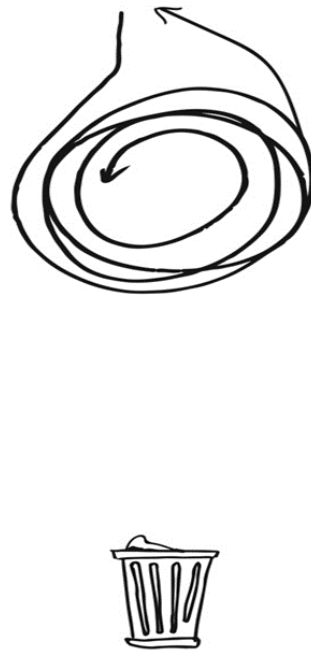
LINEAR ECONOMY



RECYCLING ECONOMY



CIRCULAR ECONOMY

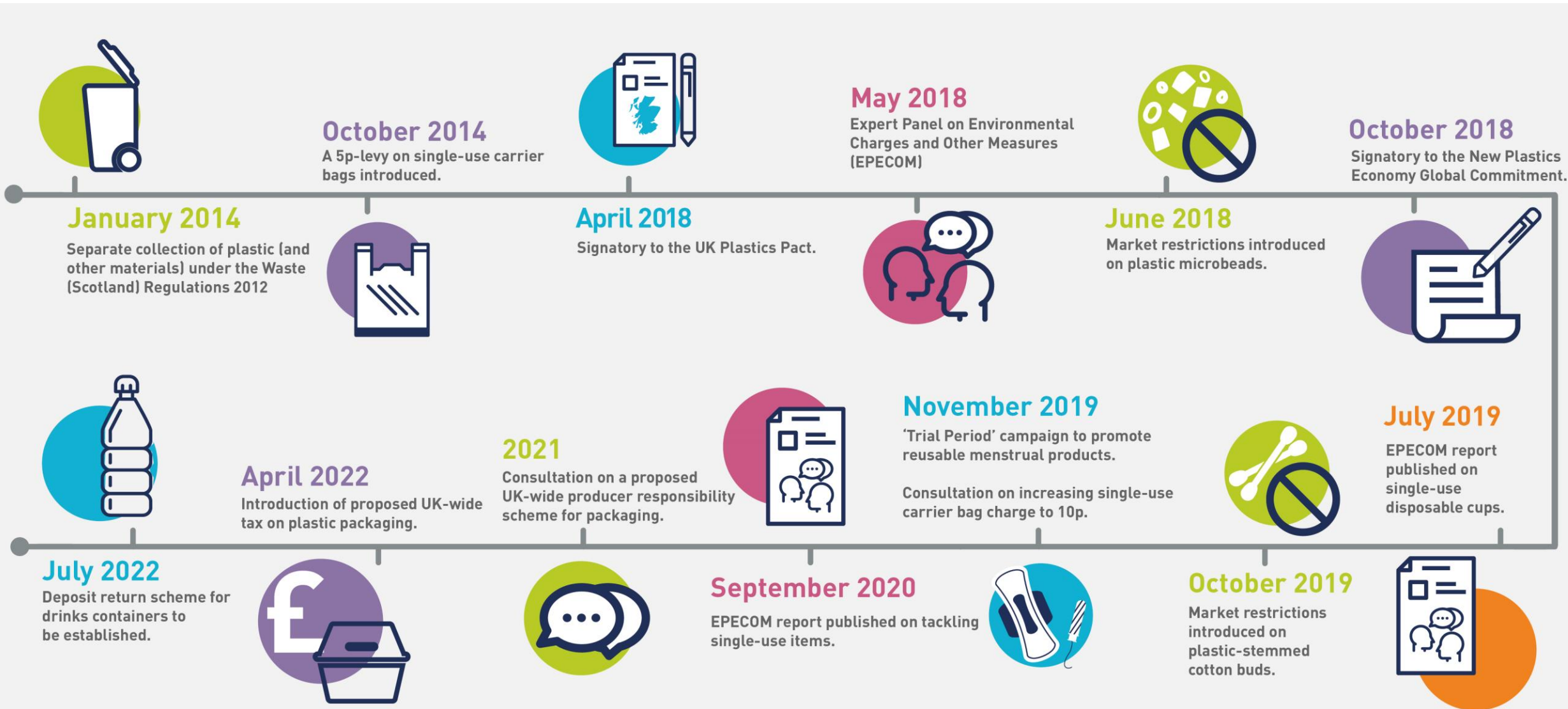


CC by Circular Flanders





# Wider measures on single-use plastics



A photograph of a broken white plastic cup floating in a stream. The cup is cracked and partially submerged. The water is dark and reflects the surrounding environment. The background shows a rocky streambed with some dry twigs and roots.

**77% of Scots**

are concerned by the  
amount of single-use items  
and single-use packaging  
used in Scotland

# What is sustainable packaging?

**1** Can you rethink your operations to remove the need for single-use items in the first place?

Yes, reuse or remove items

No, proceed to the next step

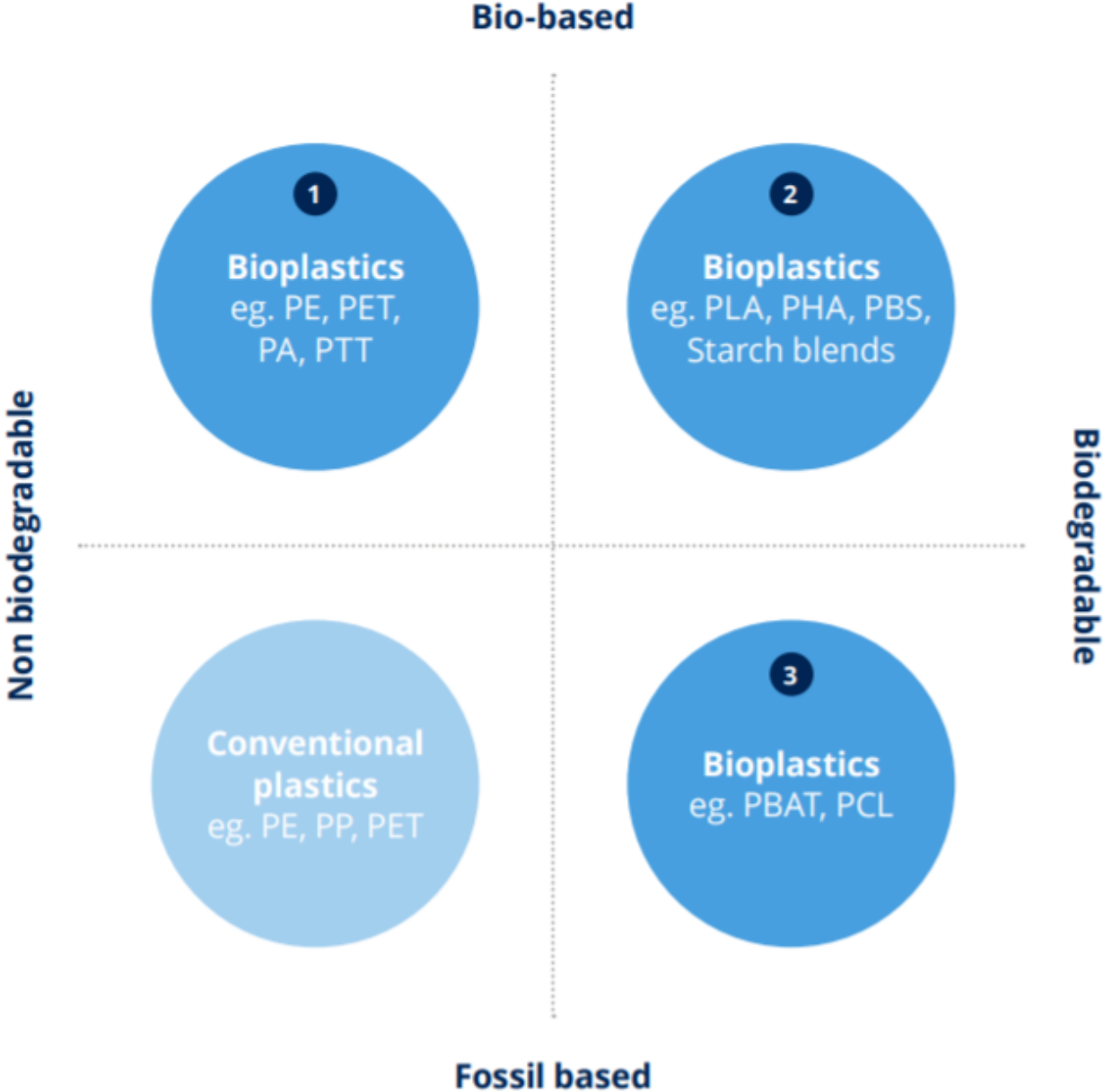
**2** Rethink your set up to reduce demand for single-use items.

**3** Only where you cannot avoid single-use items, choose materials which have the lowest environmental impact.

**4** Make sure all single-use items are actually recycled or composted.



# Understanding plastics

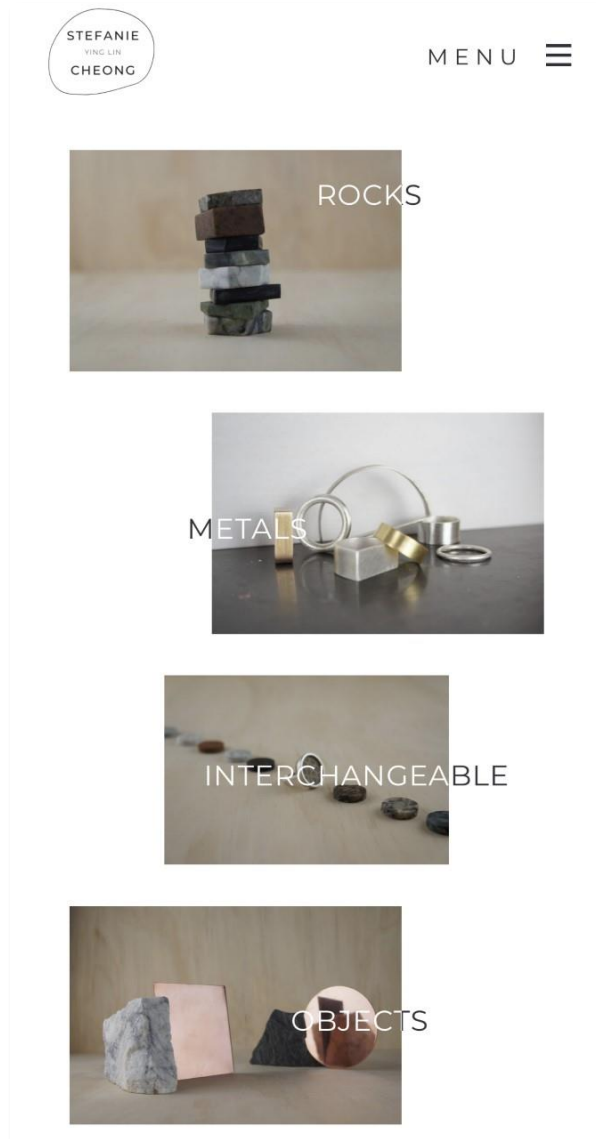


(WRAP – Understanding Plastics)

# Measures in the Single-Use Plastics Directive

ITEM	REDUCING CONSUMPTION	MARKET RESTRICTIONS	DESIGN REQUIREMENTS	MARKING REQUIREMENTS	EPR	SEPARATE COLLECTION	AWARENESS RAISING
BALLOONS							
BALLOON STICKS							
BEVERAGE CONTAINERS							
BEVERAGE STIRRERS							
COTTON BUD STICKS							
CUPS FOR BEVERAGES							
CUTLERY							
FOOD CONTAINERS							
CARRIER BAGS							
PACKETS & WRAPPERS							
PLATES							
MENSTRUAL PRODUCTS							
STRAWS							
TOBACCO PRODUCTS							
WET WIPES							
OXO-DEGRADABLES							
FISHING GEAR							

# STEFANIE YING LIN CHEONG



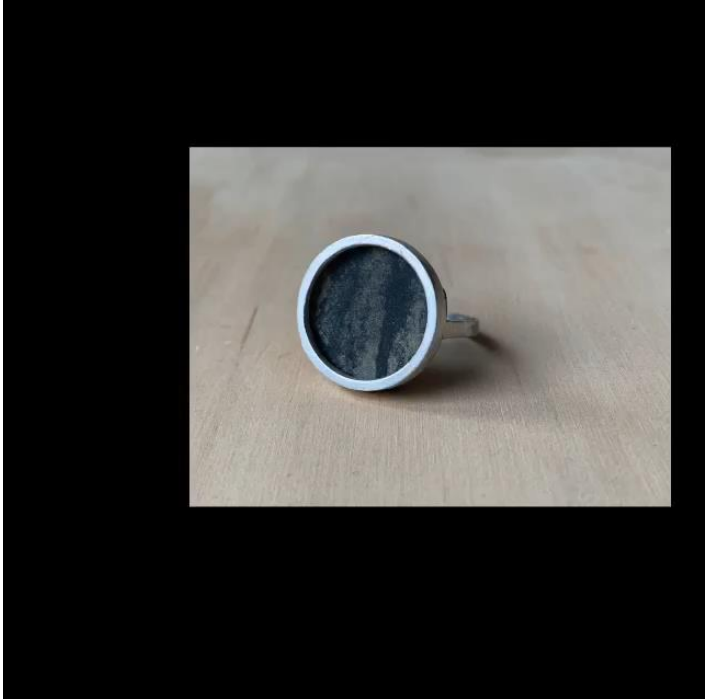
[stefaniecheong.co.uk](http://stefaniecheong.co.uk)  
[@stefaniecheong](https://www.instagram.com/stefaniecheong)























# Artists' Environmental Resource

Fife  
Contemporary



# Contents

# Page

Introduction	3-4
Fife Contemporary	5
Climate Emergency	6
Useful Terms	7
Thinking about what you can do and where our emissions come from	8
Energy – Studio/Where you work	9
Materials	10-12
Waste	13-14
Markets	15
Travel and transport	16
Administration	17-18
Advocacy	19
List of useful websites and organisations	20-25
Photo credits	26

# Climate Emergency

Our planet faces critical threats to our ecology and ultimately to the human life that depends on it. The necessary diversity of species is being eroded by the increasing loss of individual species, and the ability of soil to provide a growing medium for food is being compromised by intensive farming, depleting it of nutrients and structure. Most immediately however the Climate Emergency, <https://www.climateemergency.uk/>, has been declared as the earth's atmosphere rapidly warms due to the emission of greenhouse gases (the chief one being carbon but others such as methane also play a part).

Globally 2020 was the hottest year on record, tying with 2016. This short NASA animation powerfully illustrates the acceleration and spread of global warming: <https://www.youtube.com/watch?v=Z4bSxb5THm4>

Measuring, monitoring and reducing the carbon we produce (and potentially influencing others to do so) is therefore a key concern. An emerging area of focus is also how we need to change what we do in a climate-changed world. Creative Carbon Scotland have started to look at this through different projects, most recently through a focus on implications for visual arts organisations, which might be of interest:

<https://www.creativecarbonscotland.com/resource/visual-arts-and-climate-change-adaptations-inscotland-2019-recommendations-report/>,

and in partnership with Craft Scotland:

<https://www.craftscotland.org/about/projects/green-crafts-initiative>.



# Waste

Waste is one of the easiest things to track and control, and a number of useful tools and initiatives have been set up to help with this:

<https://www.creativecarbonscotland.com/resource/creative-carbon-scotlands-guide-to-tackling-waste/>

<https://www.resourceefficientscotland.com/reduce-waste/measure>

<https://www.zerowastescotland.org.uk/>

What kind of waste is generated by your production processes? Can you reduce consumption of materials (for work, packing, administrative & promotional materials) by using recycling schemes, or can you offer materials for reuse (see links above)?

Can you avoid using single-use plastic? See the section on Materials for sources of non-plastic packaging.

Can you reduce the amount you send to landfill through recycling or changing to materials that can be recycled? Perhaps your processes and/or their outcomes already involve the re-using or recycling of material. Do you have any waste that can be disposed of through composting?

If you use tools, are you able to repair rather than replace tools or equipment, or can you hire rather than buy them? There may be a tool library in your area, or a repair café, so have a look at Zero Waste Scotland to see if there is something local to you.

<https://remade.network/>

<https://www.greenerkirkcaldy.org.uk/what-we-do/reuse-repair/>

<https://wasteless.zerowastescotland.org.uk/articles/tool-library>

<https://wasteless.zerowastescotland.org.uk/articles/repair-cafe>

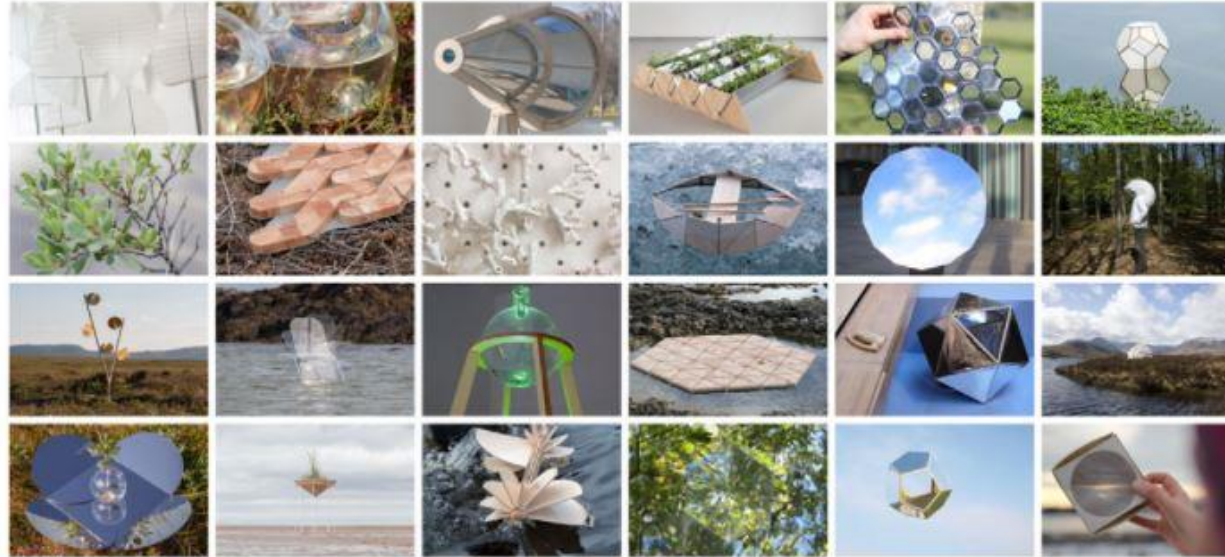


# Artists' Environmental Sharespace

The Artists' Environmental Sharespace aims to capture additional and new information from the arts' community which will supplement the Environmental Resource document and help update it. We're also interested in artists sharing their own environmental practice and using the site to ask their peers for help in solving environmental queries.



## Hannah Imlach



Hannah Imlach is a visual artist-researcher working predominantly in sculpture and photography. Her transient and site-specific artworks respond to particular ecologies, exploring sites of environmental conservation and renewable energy transition. These projects are research-led, initiated and sustained by opportunities to work within communities of specialist environmental knowledge, including scientific research groups, conservation charities and community organisations. Her sculptures focus on sensory interaction and are often foldable, faceted, or kinetic. (Image: Hannah Imlach in her exhibition)

## Breakout session

1. What opportunities does the circular economy present for you and your business?
2. What challenges does it represent?
3. What would support your business do more around the circular economy?



# THANK YOU



**EUROPE & SCOTLAND**  
European Regional Development Fund  
Investing in a Smart, Sustainable and Inclusive Future



**Aberdeen &  
Grampian  
Chamber of  
Commerce**