



# Circular Economy Mentoring

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# About Zero Waste Scotland

We exist to create a society where resources are valued and nothing is wasted.

Our goal is to help Scotland realise the economic, environmental and social benefits of making best use of the world's limited natural resources.

# Setting our sights

We're funded to support delivery of the Scottish Government's circular economy strategy, *Making Things Last*. We receive additional funding to support the EU's 2020 growth strategy.

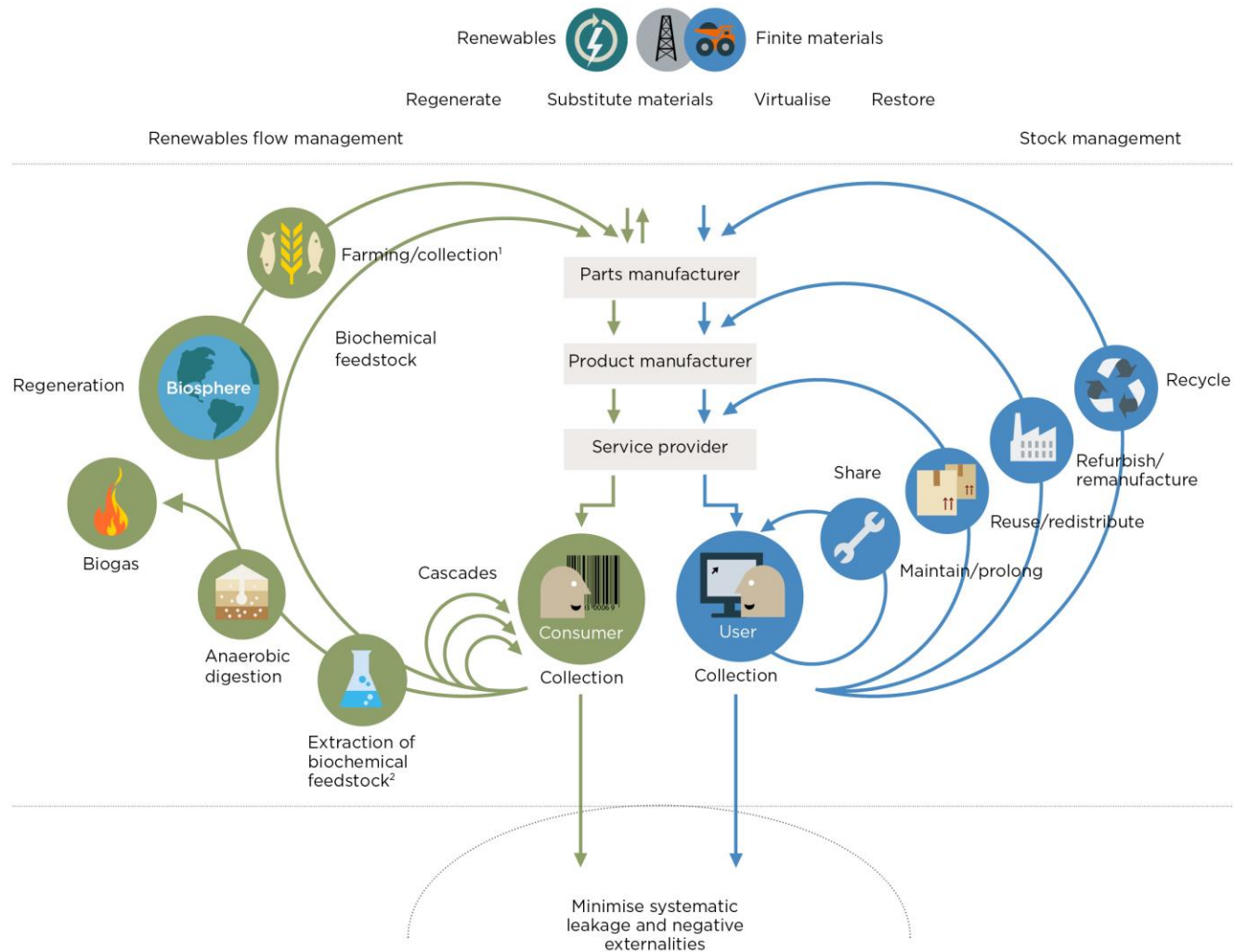


# Agenda

- *What is the Circular Economy?*
- *ZWS Mentoring Support Programme*
- *Role of procurement as an enabler*



# What is the Circular Economy?



1. Hunting and fishing

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

SOURCE: Ellen MacArthur Foundation, SUN, and McKinsey Center for Business and Environment;  
Drawing from Braungart & McDonough, Cradle to Cradle (C2C).

# ‘Making Things Last’

- Scottish Government priorities in moving to a Circular Economy (CE)
- Builds on Zero Waste and Resource Efficiency agendas
- Benefits to:
  - The environment
  - The economy
  - Communities

## **Making Things Last**

**A Circular Economy Strategy for Scotland**





**80%**

**of a product's lifetime  
environmental impact is  
decided by its design**



**Table 1: A Sustainable versus a Circular Bottle**

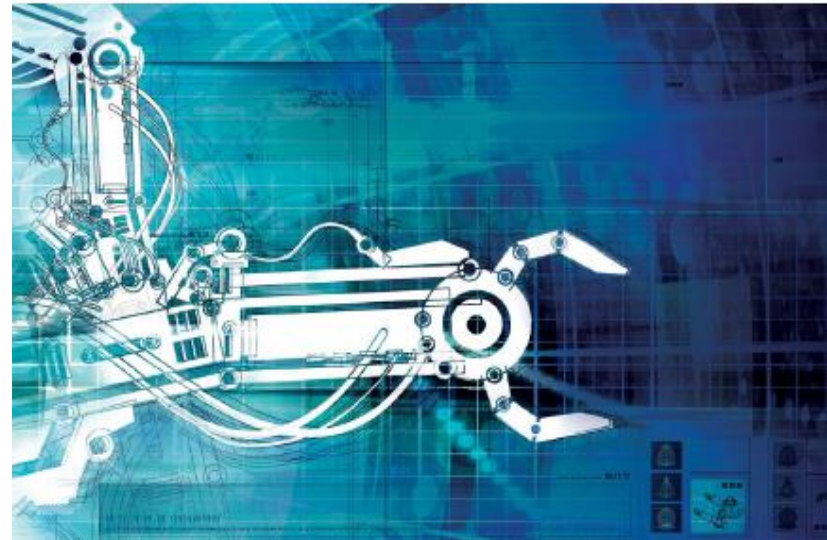
<b>Stages</b>	<b>Sustainable Development</b>	<b>Circular Economy</b>	
<b>Design stage</b>	Bottle produced using non-renewable resources, polymers, low quality materials and limited consideration for reuse and circulation.	Bottle produced using renewable, non-toxic and high quality resources and designed with reuse in mind.	
<b>Use #1</b>	Bottle used.	Bottle used.	
<b>Reproduction</b>	Bottle recycled ('downcycled') to a fleece.	Bottle disassembled into technical and biological components:	
		Biological components made into a 100% biodegradable lunchbox.	Technical components recycled into a new bottle.
<b>Use #2</b>	Fleece used by owner and later handed to second-hand and used by one or two other users.	Lunch box used.	New bottle used.
<b>End-of-life</b>	Fleece disposed of and incinerated releasing dioxins harmful for people and nature.	Lunch box degrades and safely re-enters the biosphere.	Bottle recycled into another bottle or new products that re-enters the technical cycle.



# A Manufacturing Future for Scotland

- 8 work streams – including Circular Economy
- Innovation & new market opportunities
- Remanufacturing potential £620 million turnover and 5,700 new jobs

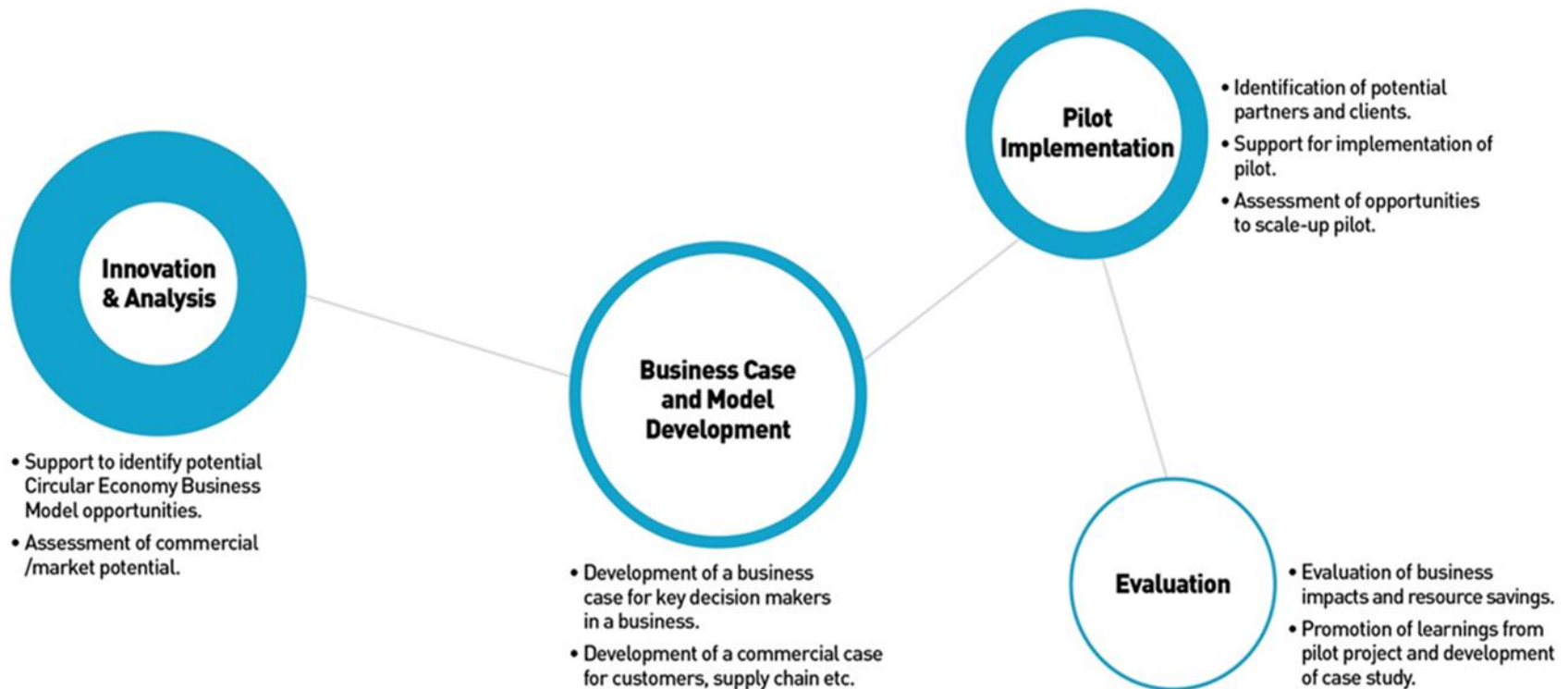
## A Manufacturing Future for Scotland



Innovate UK



# Supply Chain Support: Circular Economy Business Service





The CE Service is available now – to enquire  
contact

[circulareconomy@zerowastescotland.org.uk](mailto:circulareconomy@zerowastescotland.org.uk)

# Supply Chain Support: Circular Economy Investment Fund

- £18 million grant fund
- SMEs - explore & pioneer circular approaches
- Identify, develop & bring to market
- Collaboration with academia
- Funding projects from £50,000 to £1,000,000
- Operating and/or capital costs



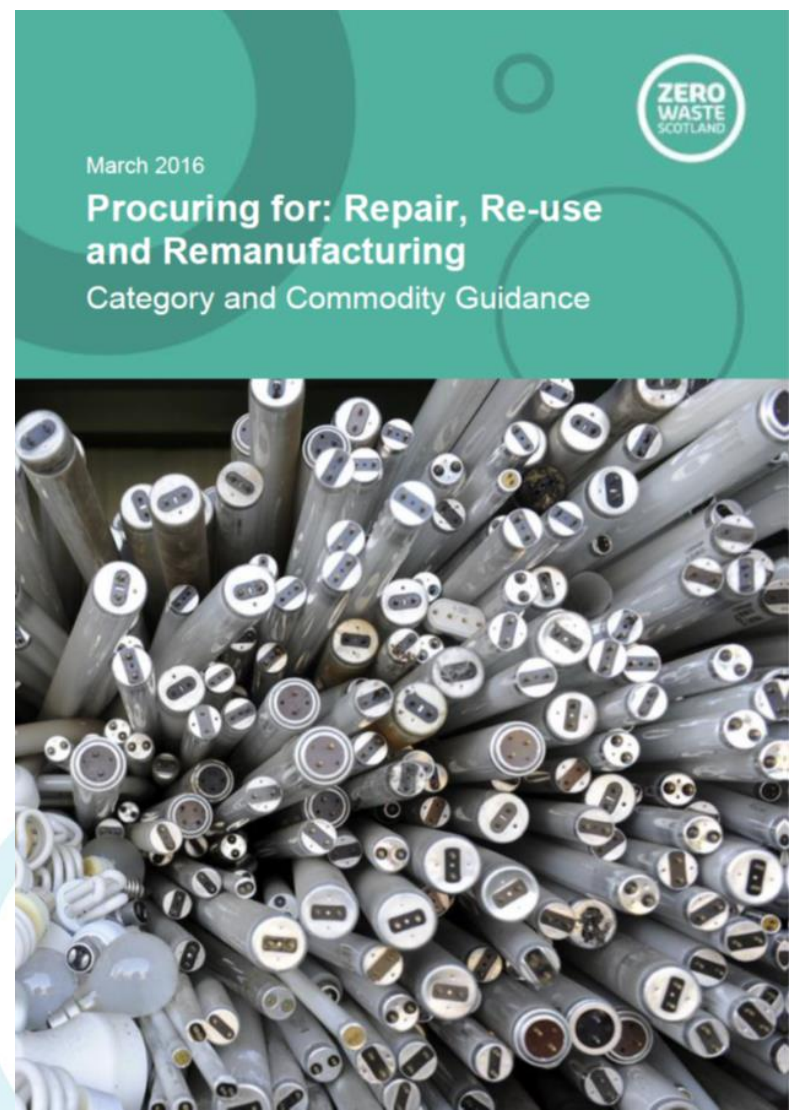


# Public Procurement : Mentoring

# Procuring for reuse, repair & remanufacturing



- Prioritisation: expenditure, market, review of research
- High: electrical & electronic, furniture, medical devices, construction, textiles
- Medium: catering, cleaning, flooring, power & hand tools, vehicles & tyres, outdoor playground equipment, waste services
- Low: machine tools, lifting & handling, pumps & compressors



# Embedding CE in Organisations

- Develop an organizational CE Strategy (BS8001)
- Cross-team working, CE champions
- Pilot projects: a EU Horizon 2020 or Life + project = collaboration, support, funds, and replicable innovative solutions.
- Share Circular Procurement challenges & experiences with peers. New & evolving field.

BS 8001:2017



BSI Standards Publication

# Embedding CE within procurement

- Early involvement, transparency, clear communication in procurer-supplier dialogues.
- Detailed explanation of CE principles & most preferred options within tenders
- Maximum circularity: product-service models not just products
- Detailed consideration of service specifications prior to contract
- Life-cycle costing is essential

[www.rebus.eu.com/implementing-a-rebm/guide-for-circular-procurement-rebms/](http://www.rebus.eu.com/implementing-a-rebm/guide-for-circular-procurement-rebms/)

[www.scpclearinghouse.org/resource/added-value-reaping-benefits-3-years-green-deal-circular-procurement](http://www.scpclearinghouse.org/resource/added-value-reaping-benefits-3-years-green-deal-circular-procurement)

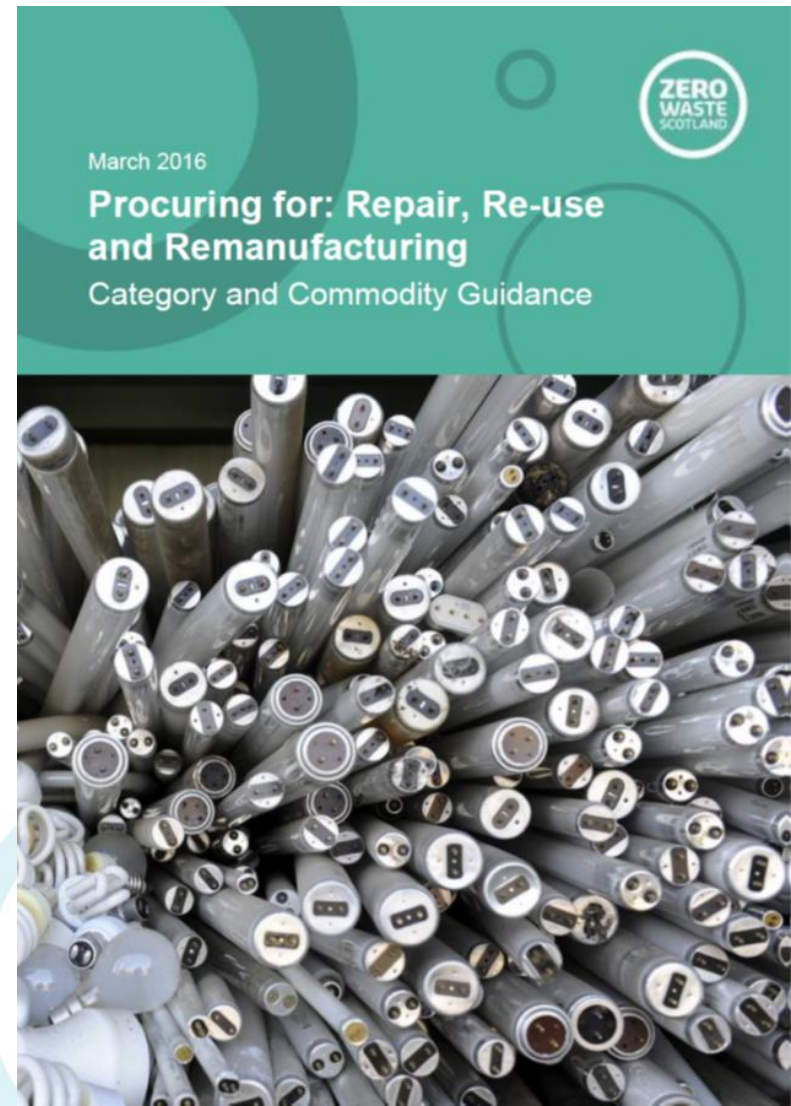
# Types of Business Model

- Circular or closed loop supply-chains
- Take-back & buy back schemes
- Sharing Platforms – car sharing schemes, WARPiT
- Product-service system – installation, maintenance and take-back. Producer bears total cost of ownership. Ultimate EPR. Extends product life-cycle through maintenance, repair & refurbishment. Philips: pay per lux



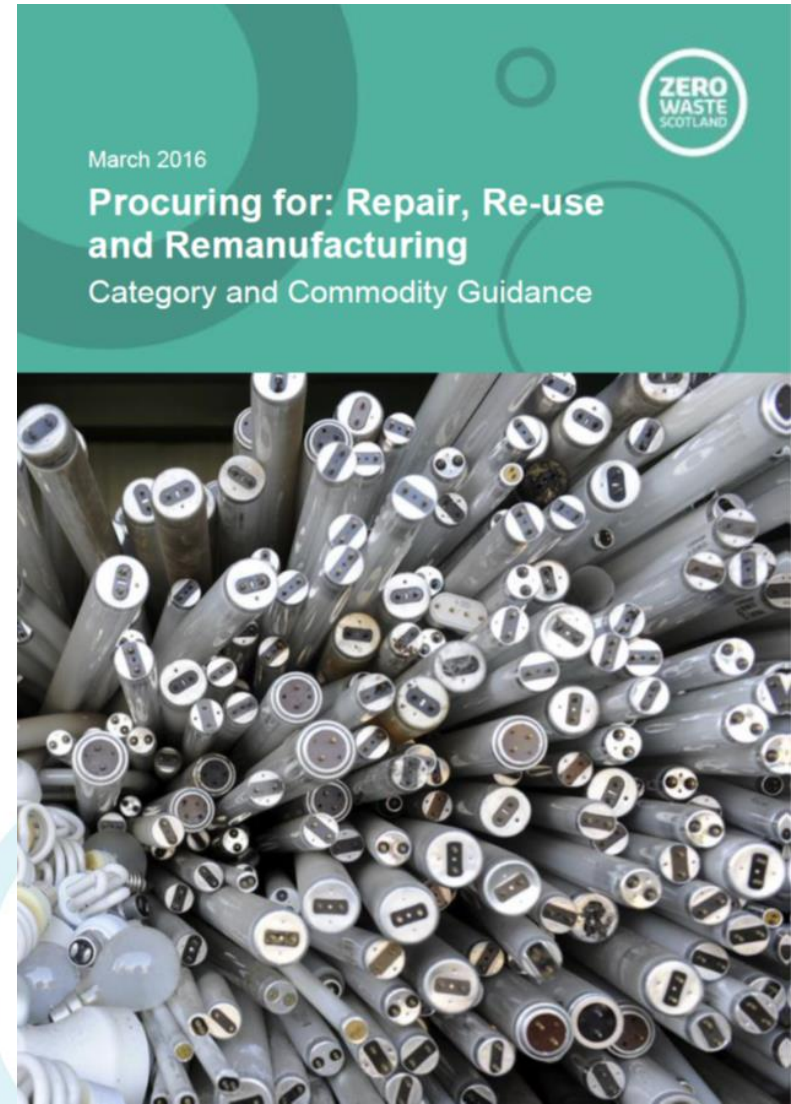
# Projects in Progress

- NHSScotland: walking aids, catering disposables, vehicle hire, FM
- Scottish Government: office equipment, playground equipment, DPO 'one to many'
- Scotland Excel: tyres, domestic furniture, food & drink
- APUC: food & drink
- Glasgow City Deal: construction/refurbishment



# Universities & Colleges

- Napier University
- Edinburgh University: MSc dissertation
- Strathclyde University: MSc dissertation (office furniture focus)



# Future Engagement

- Intereg NSR Proposal: Community of Practice on Circular Procurement
- European engagement & knowledge exchange:
  - SPP Next
  - EU GPP
  - Circular Procurement Congress, Tallinn

## ADDED VALUE

REAPING THE BENEFITS OF 3 YEARS OF THE GREEN DEAL ON CIRCULAR PROCUREMENT



GOVERNMENT AND BUSINESS WORLD:

LESS DIFFERENT  
THAN YOU THINK

GDCI

UNIQUE COOPERATION  
BETWEEN A LARGE AND DIVERSE  
GROUP OF PARTICIPANTS

"FOR CIRCULAR PROCUREMENT YOU NEED COURAGE,  
POSITIVE ENERGY, LOBBYING AND PERSISTENCE, AND  
YOU ALSO JUST NEED TO START."



**Q & A**



# Talk to us to find out more

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