



Net zero carbon update

Fraser Millar
Environmental Analyst

zerowastescotland.org.uk

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

Introductions (again)

Fraser Millar

Environmental Analyst at Zero Waste Scotland

Been with ZWS for 9 months



My role within ZWS

Part of the E.A team. We quantify whole life carbon impacts of products, services and just about everything else.

I also operate as the day-to-day lead on co-ordinating the net-zero plan for Zero Waste Scotland.

Net zero plan interventions recap


Emissions source	Specific area	intervention	Projected result
Corp. travel	Flights	Reduce flight miles 20% YoY via annual Flight cap	56% reduction by 2023
Corp. travel	Private vehicles	Reduce private vehicle miles 50% YoY Private vehicle cap	
Gas	Heating	Hook ZWS premises up to district heating network	46% reduction by 2023
Gas	Insulation	Install double glazing within ZWS premises	
Electricity	Servers	Move 60% ZWS servers to cloud-based platform	19% reduction by 2023



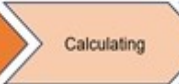

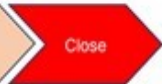
Our 'COCA' footprinting tool



(Comprehensive Office Carbon Audit)



Financial Year	Quarter	Mode of Transport	Ref categories	Mileage	Carbon factor	GHG impacts (kg CO2 eq.)
2019/2020	Q4	Private Owned Vehicles	Business Travel - Land; Avg. Unknown	12,405	0.285	3,536
2019/2020	Q4	Bus Equivalent	Business Travel - Land; Local bus	1,358	0.194	264
2019/2020	Q4	Hire Car Equivalent	Business Travel - Land; Avg. Unknown	1,126	0.285	321
2019/2020	Q4	Ferry Equivalent	Business Travel - Sea; Avg. all passenger	0	0.182	0
2019/2020	Q4	Taxi Equivalent	Business Travel - Land; Black cab	193	0.341	66
2019/2020	Q4	Train Equivalent	Business Travel - Land; National rail	23,229	0.066	1,538
2019/2020	Q4	Flight Equivalent	Business Travel - Air; Avg. passenger	0	0.255	0


The user-friendly approach



Data Entry 




 Login  Enter Data  Calculating  Report  Close

 Sector 

 Choose CO2 type 

 Enter value

 Choose value type 

 BACK  ENTER ANOTHER VALUE  SUBMIT & VIEW REPORT

Making data reporting easy



What data will it process?





Thank you.

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 @ZeroWasteScot



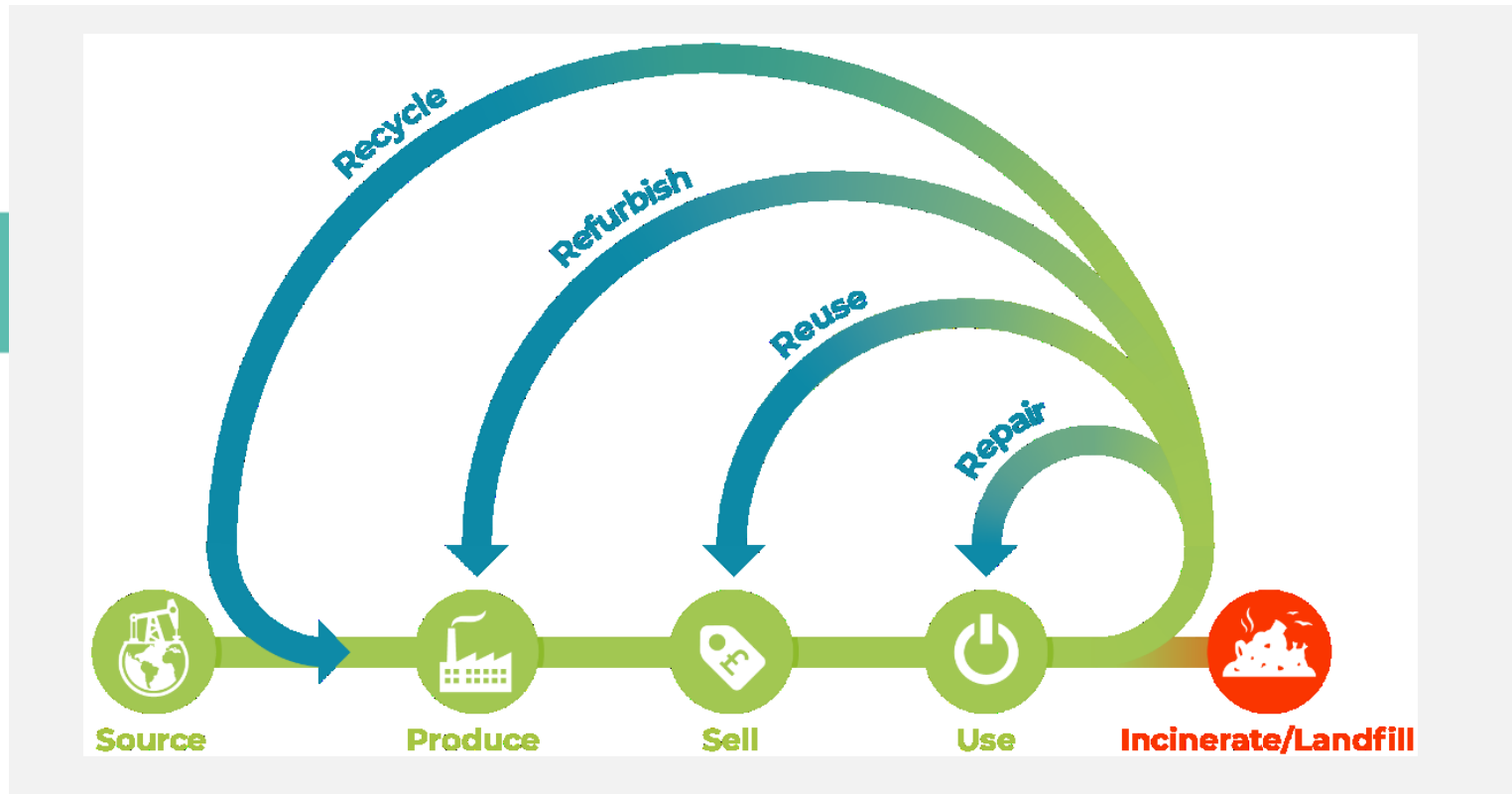
Circular Procurement – Supporting Green Recovery

Claire Guerin
Sector Manager – Sustainable Procurement

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Respond, Reset, Restart, Recover

Challenges

- Supply chain vulnerabilities exposed e.g. PPE
- Reduced security of supply
- Loss of resilience

Circular Economy Response

- Greater supply chain resilience
- More agile, innovative and local supply
- Opening up opportunities for:
 - Smaller, more flexible & agile suppliers
 - Social enterprises
- Skills & (re-)training opportunities

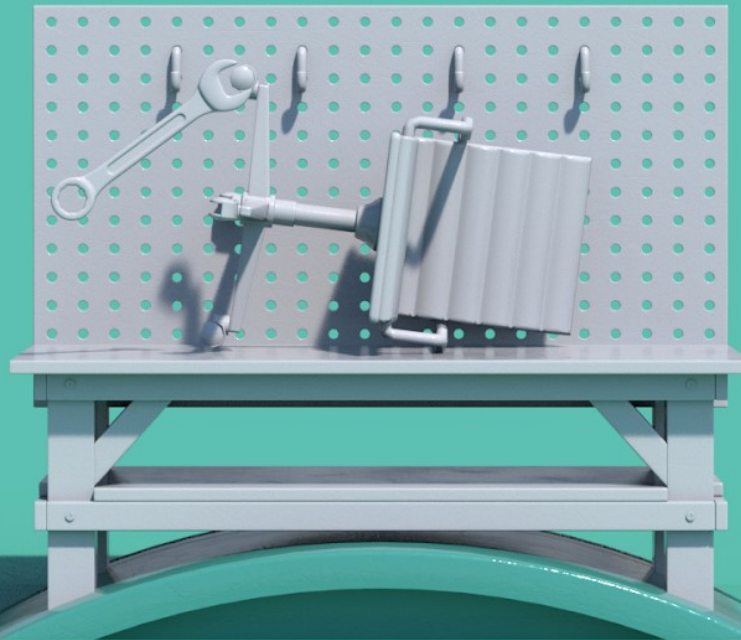
A circular approach to procurement

Make the most with what you have

Reuse first

Repair & refurbish
existing

Save 60% vs
buying new



Use reused &
refurbished from
elsewhere

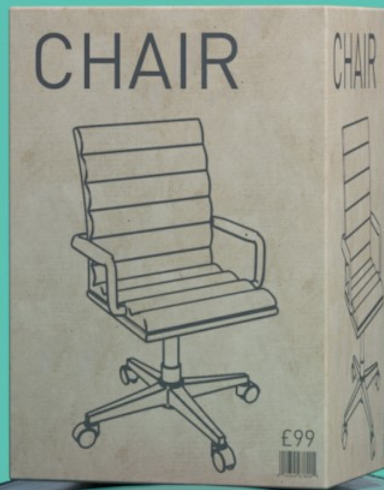
Lease the product
or buy the service it
delivers

A circular approach to procurement

If you must buy new

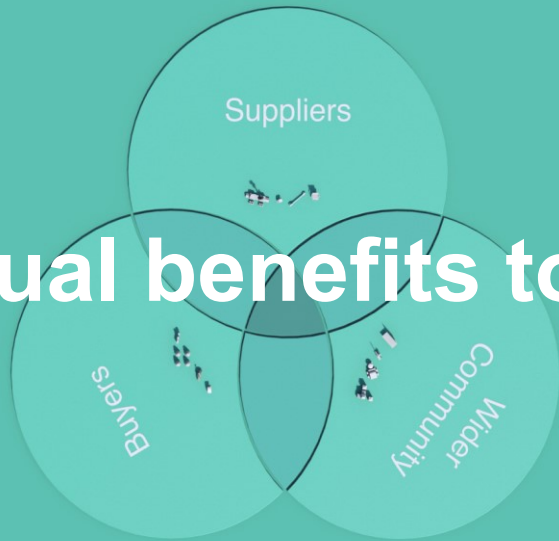
Buy good quality

Long lasting



Produced
sustainability

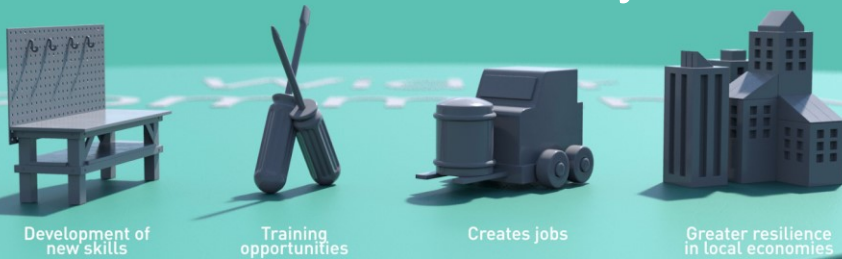
Mutual benefits to all



Buyers



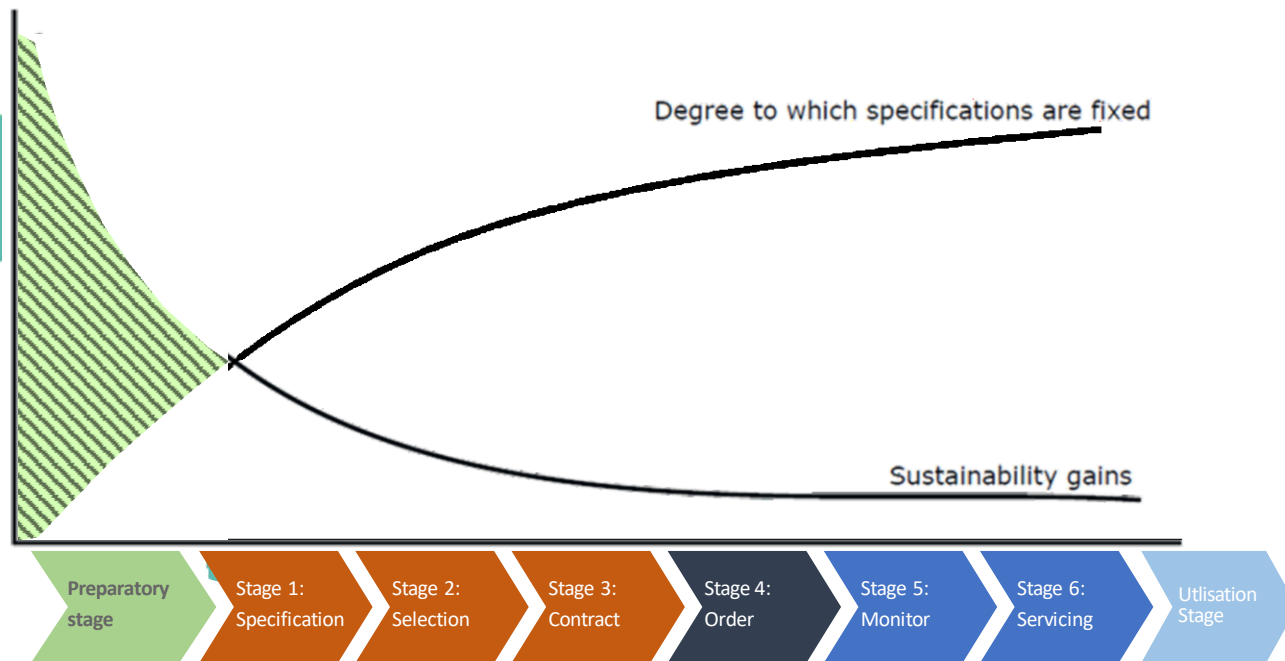
Wider Community



Suppliers







■ **Early consideration**

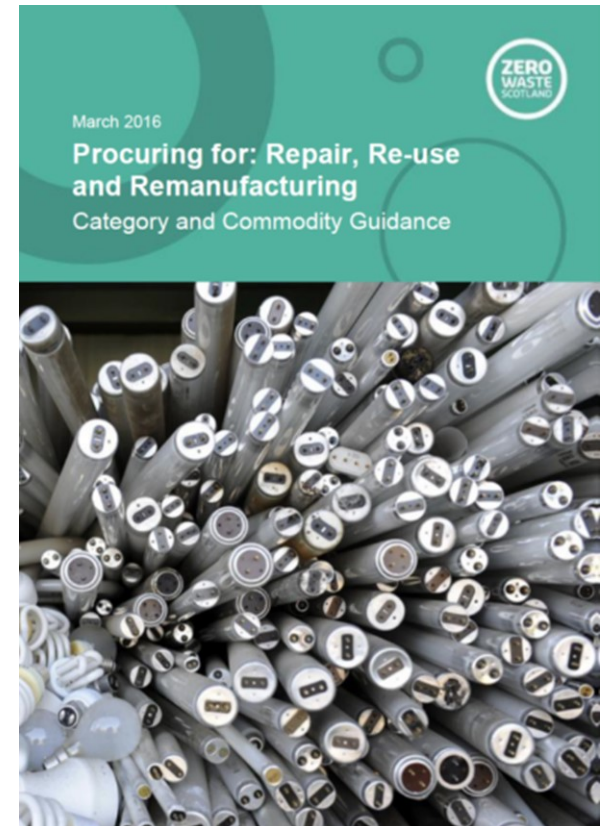
- Link Circular Economy to Corporate Plan objectives.
- Collaboration – internal & external
- Life-cycle costing and impact

■ **Specification**

- Performance/Outcome based specification

■ **Contract Management**

- Capture impact & reporting of benefits

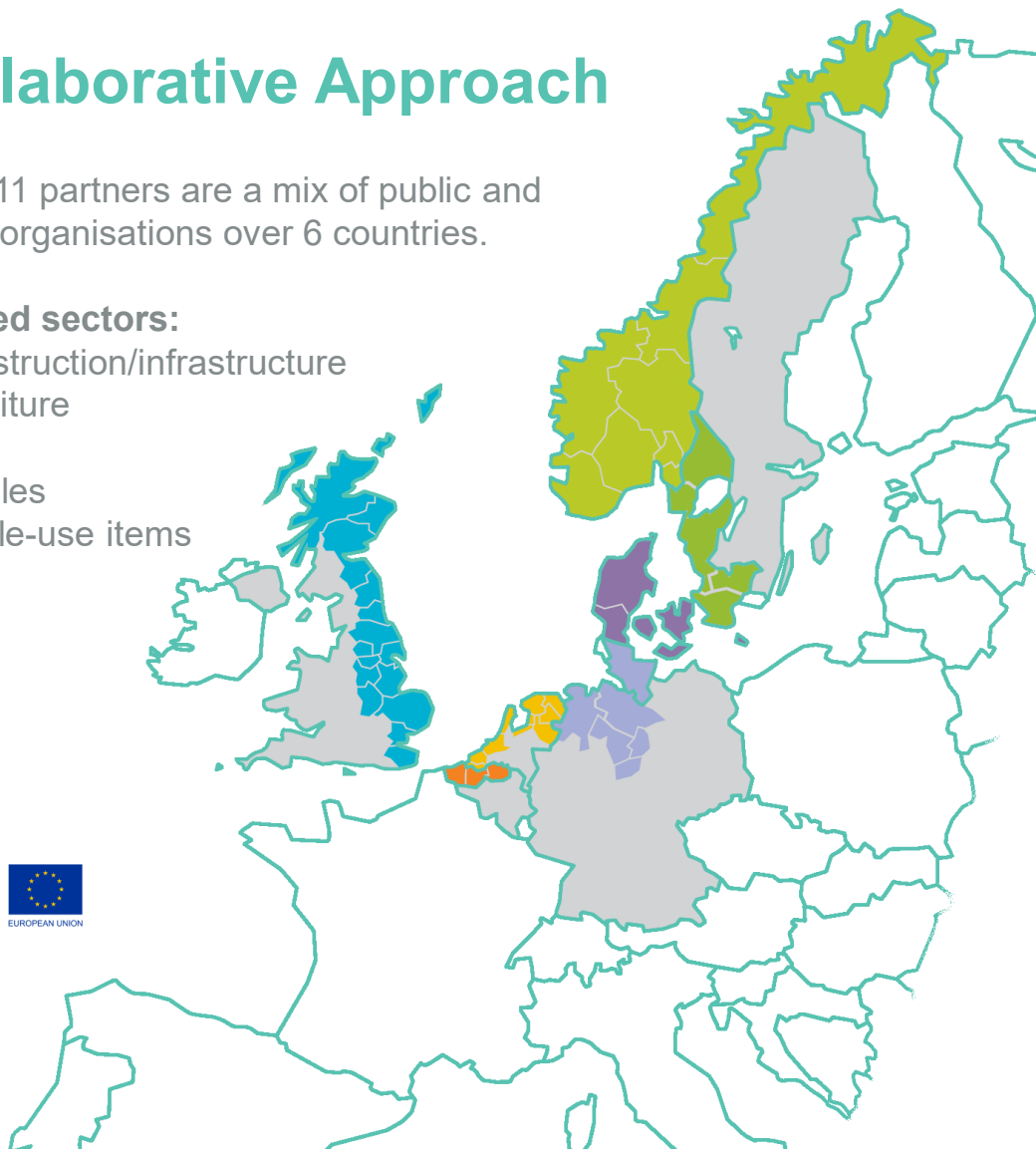


Collaborative Approach

These 11 partners are a mix of public and private organisations over 6 countries.

Targeted sectors:

- Construction/infrastructure
- Furniture
- ICT
- Textiles
- Single-use items



UK

- Zero Waste Scotland
- Business in the Community

Netherlands

- Rijkswaterstaat

Belgium

- Circular Flanders
- Kamp C

Denmark

- NSBD
- CLEAN
- Kolding Municipality

Norway

- DIFI

Sweden

- Malmö

ACR+

- Facilitating role outwith NSR area

Start with
evidence

Test and
demonstrate

Form valuable
partnerships

WP3
Circular Procurement Toolkit

Lead: Circular Flanders
Harmonise and upscale use of circular requirements in procurement

WP4
Pilot Projects

Lead: Rijkswaterstaat
Test and improve circular procurement practices

WP5
Communities of Practice

Lead: Business in the Community
Collaboration between procurers & supply chain to increase market capacity

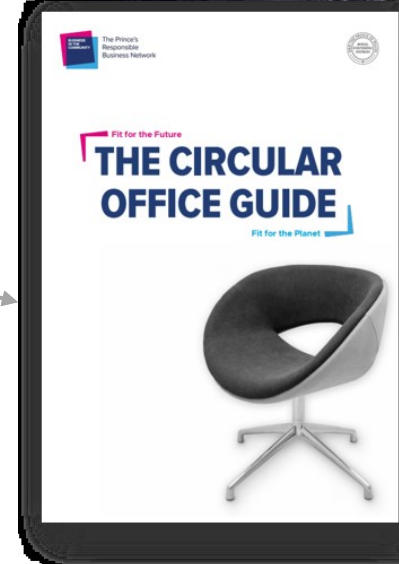
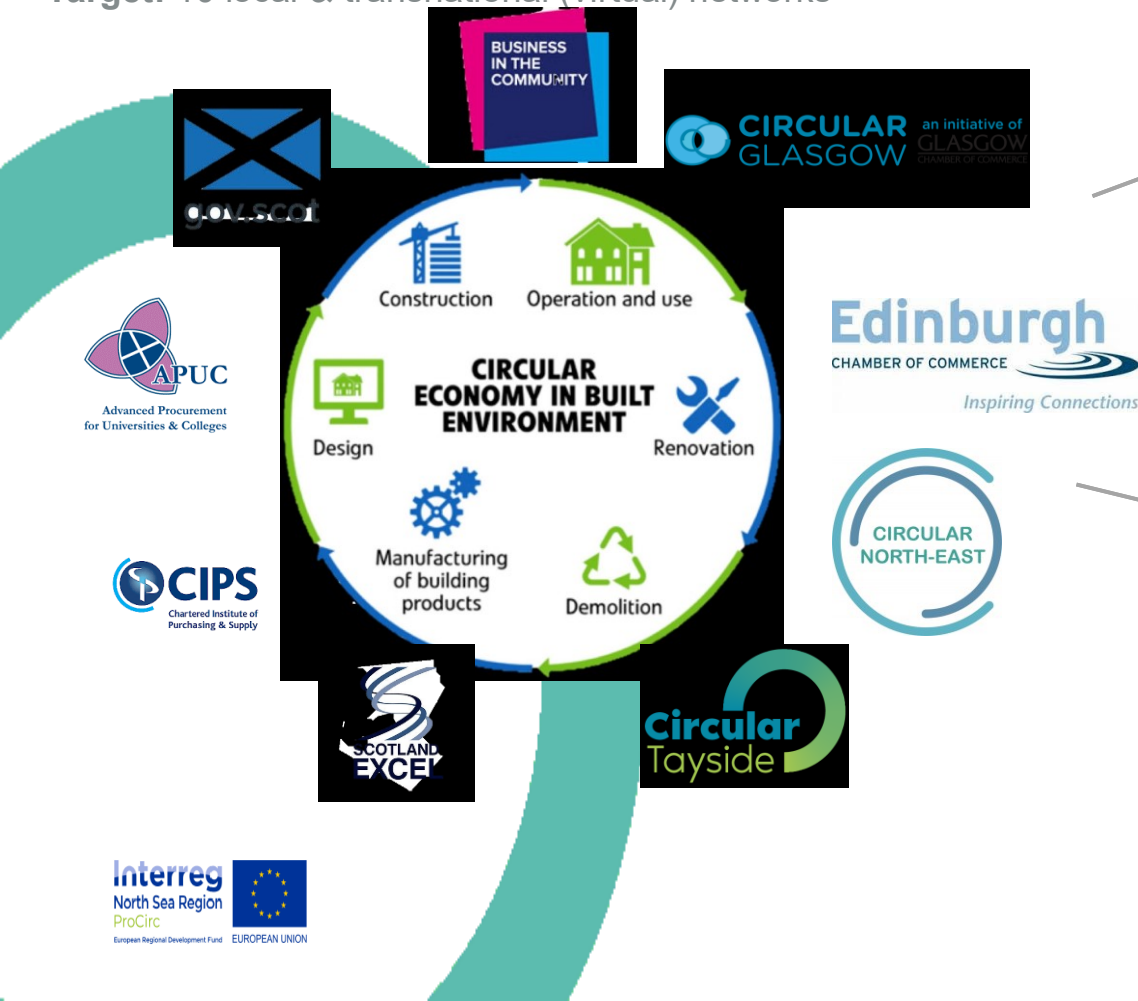
WP6
Long Term Upscaling

Lead: DIFI, Norway
EU Policy Influence, legacy networks



Partnership Working

Target: 10 local & transnational (virtual) networks



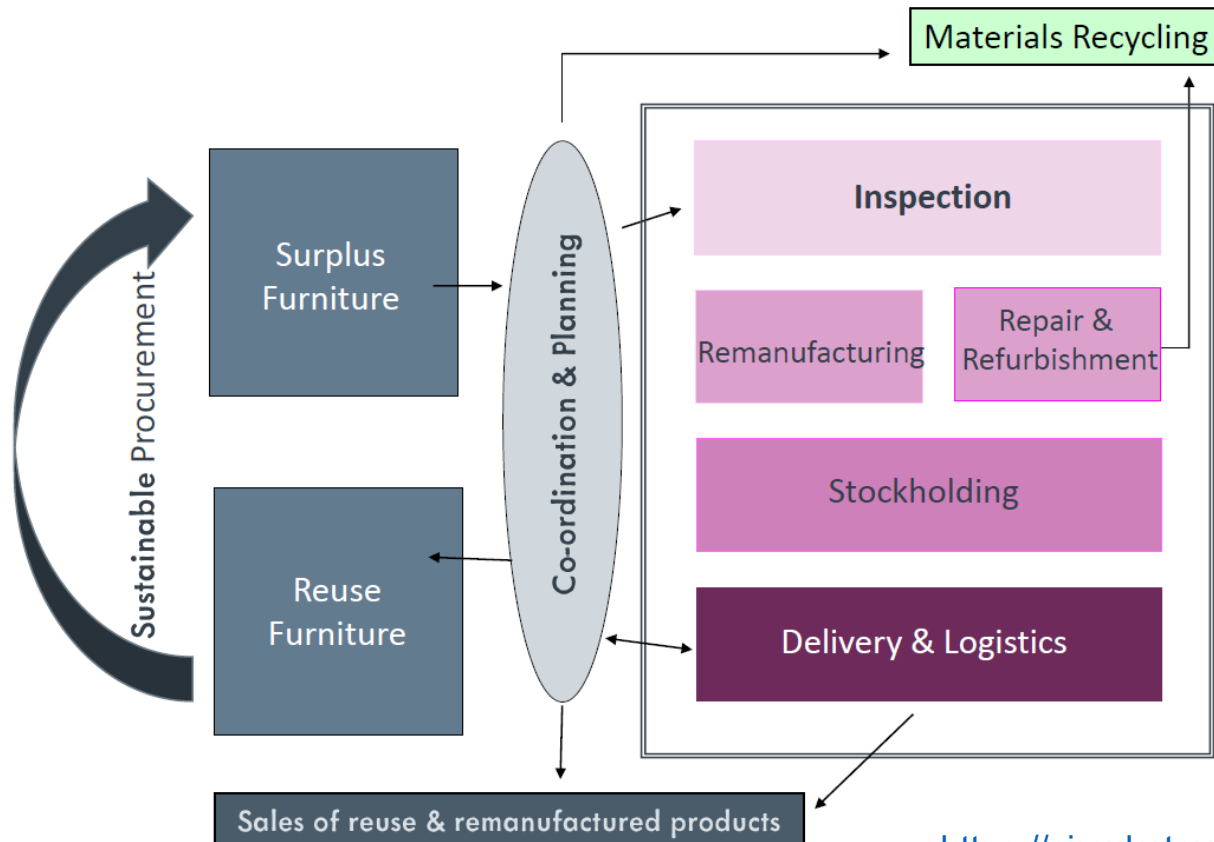
- Inspire all organisations to take steps towards creating a Circular Office.
- Identify opportunities and turn them into practice.
- Tips on where to start, and how to engage internally and externally.
- Webinars & LinkedIn Group

SAVE THE DATE:
Thursday 25th June



Fit for the Future
**THE CIRCULAR
OFFICE GUIDE**
Fit for the Planet





- 40-60% £ savings locally remanufactured compared with new, sourced overseas.
- High level of service, build trust
- Warranties comparable with new

<https://circulartayside.co.uk/chat-with-circular-t/chat-with-john-ross-kinross-wooden-products/>

<https://youtu.be/JTSamc7hgeY>

Sustainable Procurement Duty – the Circular Economy Case Study

December 2, 2019 by [Eddie Chapman](#) | Category [Best practice](#), [Case study](#), [climate change](#), [community benefits](#), [Environment](#), [Sustainability](#), [video](#)



What is this blog about?

News and updates for public sector professionals, suppliers, potential suppliers, and the general public about public procurement in Scotland.

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Scottish Procurement



**Extensive
supplier
engagement –
PIN, surveys
and workshop**

- 25% weighting on circularity
- Alternatives to new
- Extend useful life
- Availability of alternative business models
- Partnerships with supported businesses

**£1.2 Million in avoided procurement and disposal costs.
£32K investment.**

Reuse pays.



Scottish Procurement National ICT Framework c£250m over 4 years

Statement of Requirements

- Recycled content including packaging
- Innovative packaging
- Extend useful life
- End of Life take back/ reuse

A mature market – large manufacturers/ resellers and SME sub-contractors





- Design for longevity, flexibility, adaptability and low impact healthy use
- Design for assembly, disassembly & recoverability
- Adapt, refurbish and reuse buildings & materials
- Use recycled content and recycle any waste



Designing Out Construction Waste

A guide for project design teams



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

- | | | | | | |
|------------|----------------|--------------|------------------|----------------------------|-----------------------|
| 1 Foreword | 2 Introduction | 3 Principles | 4 Communications | 5 Applying the principles | 6 Application to RIBA |
| | | | | 5.1 Management Information | |
| | | | | 5.2 Adaptability | |
| | | | | 5.3 Layering and access | |
| | | | | 5.4 Components | |

Get in touch!

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Procuring Resource Efficient Construction Projects



Growth that doesn't cost the earth

Model procurement wording for public and private sector clients and contractors on construction projects



[Measuring, monitoring and reducing waste](#) - Site Waste Management Plan
[Maximizing re-use](#) - identify materials commonly wasted
[Procuring resource efficient projects](#) - Construction Procurement Guide
[Designing out waste](#) - our guide developed for design teams



Ditching Disposables



Fixtures & Fittings

- Repurpose for home working
- Reuse what you have
- Remanufacture existing
- Pass on to others
- If buying new – design for repair

Waste management

- Reduce single-use plastics
- Reusable containers
- Reduce food waste
- Incentivise good habits

ICT equipment

- Leasing
- Repairing and upgrading
- Redeploying within the organisation
- Take-back

Collaboration is key!

- Work with your suppliers on finding new solutions
- Get buy-in from employees to adapt to change: health & wellbeing benefits

Future Planning for Green Recovery

- Asset Management Technologies
- Integrate CE principles into Forward Plans
- Commodity Management Strategies

<https://www.pianoo.nl/sites/default/files/documents/documents/reportcircularcategoryenoktober2016.pdf>

What are your plans?

1) How have social distancing measure and increased working from home impacted on your office in terms of space solutions?

, Are you downsizing, renovating or relocating premises in the future?

We can help you make the transition to a more circular workplace.

Get in touch

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