

SESSION 2: 13/05/2021 **DEVELOPING A SPECIFICATION**

Using Procurement to deliver economic, environmental and social benefits & support the transition to a Circular Economy

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A CIRCULAR

APPROACH TO

PROCUREMENT





European Regional Development Fund EUROPEAN UNION

Welcome

North Sea Region ProCirc

European Regional Development Fund



EUROPEAN UNION



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INTRODUCING CIRCULAR APPROACHES TO PROCUREMENT

demystifying - what is it, what are the benefits, key hierarchy principles, examples, key tips, link to next steps...

Audience

Procurers, internal customers, budget holders, specifiers, sustainability leads and others (private as well as public) within Scotland and elsewhere.

To inspire and show how outcomes and benefits are achievable at a local level.





Learning Outcomes



| 1 | | | 2 | | |
|---|---|--|--|--|--|
| WHAT: LANGUAGE | WHY: BENEFITS & ALIGNMENT | HOW: KEY PRINCIPLES | APPLYING THE HIERARCHY | DEVELOPING A SPECIFICATION | MONITORING & REPORTING OUTCOMES |
| Understand how circular approaches (circular procurement) is an extension of sustainable procurement. | Understand the benefits available and alignment with Scotland's National Performance Framework, sustainable procurement duty. | Understand circular procurement hierarchy, life cycle costs, early consideration, innovation and SP Tools – key examples – next steps. | Understand how to apply principles to action; the role of early consideration with stakeholders and the market – examples. | Understand what is needed, the use of SP Tools. Understand evaluation criteria and how to measure performance - examples. | Understand the role of contract management, KPIs and monitoring and reporting outcomes – examples. Understand 'what next?' |

Agenda



Session 2 – Developing a Specification

10:00-10:25 10:25-11:00 11:00-11:40 11:40-12.00 Applying the hierarchy Developing tenders and specification Contract management Questions and Next steps



Revisiting & applying the hierarchy



Understand how to apply principles to action; the role of early consideration with stakeholders and the market.



Planning

- Internal buy-in ambitions?
- What is the need/ function required?
- Intended outcomes/ benefits?
- Life Cycle Impacts and Costs?
- Options?
- Market capability?

Have you involved the market and key stakeholders in early consideration of options, including Circular outcomes in business case?

A Circular Approach

The hierarchy – again...





Summary of stakeholders from session 1

Breakout session

function and alternatives and then...

Some questions on current capability

You will now be considering some questions on



Business Models

Do you need to own?

Buying the function...

- Hire
- Rent
- Lease

P)

- Product as a Service DaaS, Lighting etc
- Managed service....

On their own they don't necessarily deliver the outcomes you are seeking but suppliers have incentives to extend useful life of product or asset - you should seek evidence of how they apply circular approaches.







Office and other Furniture



Procurement Journey Introduction Develop Strategy Develop Documents Issue Documents Evaluation Clarification Contract Award Contract Award Contract & Supplier Management Lessons Learned

Example



Playground Equipment

Market engagement – related PIN & Survey, second PIN and Supplier event.

Ambitions – to develop Circular approaches (25% of tender related to Circularity)

Market research & engagement – to determine scope and appetite for circular approaches – materials/ recycled content/ end of life. Engagement with market and other public bodies with experience e.g. Aalborg.



Circular ICT – Internal or contracted maintenance and repair services - Refresh-Upgrade - Extend replacement cycles - Buy refurbished? - Buy remanufactured? -Lease – device as a service? – extend useful life at end of life.





wanted to re-use

- Existing office furniture was OK but had been neglected.
- Avoid the problem of getting rid of 2,500 items Familiar items for staff.
- Avoid public and political perception of excess.
- Meets Wellbeing of Future Generations Act 2015.



Issued PIN Notice Held a meeting with around 30 suppliers All said they could do it!







Circular viaduct: Vianen archbridge, Netherlands



Reduce materials used Reduce waste Minimise disruption

- Modular approach multi-span
- Designed for disassembly
- Faster onsite build less disruption
- Fewer materials used in total construction
- Materials passport

LESSONS LEARNED

 Early consideration of alternatives to traditional build result in life cycle benefits.





RECYCLED PLASTIC SLEEPERS ON LU'S NETWORK





Outcomes

Environmental:

- UK manufactured : 99% recycled materials, from plastics reinforced with glass fibre.
- Take back by manufacturer at end of lifetime for further recycling. **Reliability:**
- Driven by Engineering and Asset operations target to improve reliability by 30%, due to concerns of timber sleepers splitting.

Costs:

• 30% reduction in Life Cycle Cost due to less maintenance.

Ease of handling:

• Lighter and easy to handle than timber or concrete sleepers, so reduced health and safety risks.

LESSONS LEARNED

 Multiple circular outcomes and cost savings arising from an initial focus on reliability ad performance requirements.



Reusing redundant products/ materials





Reuse Example

Reuse of 15 miles of decommissioned North Sea tubulars at TECA by John Lawrie Group <u>https://www.johnlawrie.com/</u>





TECA Aberdeen Source: Robertson.co.uk

Life Cycle Analysis

For every tonne of repurposed steel tubulars used there is a carbon dioxide equivalent (CO_2e) saving of 97.21% over new manufactured prime steel products.

LESSONS LEARNED

 Strategic planning to identify scope for circular opportunities and early consideration within project of performance requirements, cost and carbon,



Sustainable Procurement Tools and Circular Approaches



Understand what is needed, the use of SP Tools. Understand evaluation criteria and how to measure.

Why and when should you use tools?

- Common and consistent aims, approach and language
- Balanced and structured
- Forecasting what pilots are trying to achieve
- Engaging stakeholders
- Introducing CP into tendering
- Embedding circular principles into contract management
- Monitoring and reporting







Ambition & **Pre-tender** Specification Planning

Evaluation

Contract Performance

Asset Disposal

Toolbox overview





North Sea Region

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ProCirc Tools webinar November 2020 - video recording link

Using Sustainable Procurement Tools

Within Scotland:

Prioritisation Sustainability Test Life Cycle Impact Mapping

Others?

9

No one size fits all tool

Link to procurement cycle

Depends on subject matter

Depends on organisational policy - in-house; third party accredited/verified/owned; free or subscription (VfM); supplier owned; depends on personal choice









Developing a Specification





Selecting suppliers



Procurement Journey

Introduction

Develop Strategy Develop Documents

Issue Documents

O Evaluation

Clarification

O Contract Award

Contract Mobilisation & Implementation Contract & Supplier Management C Lessons Learned

Single Procurement Document (SPD)

- Grounds for Exclusion
- Experience?

"What experience, if any, does your company, in conjunction with partners and its supply chain, have in working with other clients to evaluate and supply products or services in contracts similar in nature that support the transition to a circular economy, identifying outcomes delivered [this may be expanded to focus on specific circular principles/ outcomes as relevant e.g. cradle to cradle products or closed loop remanufacturing schemes]?"

Setting specification



What is needed?

- Key stakeholders
- Clarity in intended outcomes
- Market capability awareness
- The optimum solution.....

- An informed specification that focuses on optimum outcomes.
- Appropriate balance of functional questions vs technical questions.
- Encourages and enables INNOVATION?
- Capable of being objectively measured/ monitored Contract Management/ KPIs.



Technical – Functional Specifications

Technical specifications

Minimum requirements e.g. "All products must contain at least 65% recycled material"

Performance-based or functional specifications

e.g. "minimise virgin material use and waste through maximising relevant reuse, repair or refurbishment"

As we considered in Session 1:

The more **complex** the product the more functional your question can be.

The more mature a market is, the more functional your question can be.





Avoid creating barriers

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- Prescriptive frameworks constrain innovation and circular outcomes
- Not considering life cycle costing
- Inability to factor in use of existing stock (ICT, furniture etc)
- Best Price/ Quality Ratio does it reflect life cycle costs
- Measuring the wrong things unintended consequences



Source: Jim Byrne /Shuttercock

Framework managers and users: agree collective ambitions, reflect framework objectives in call-offs in relevant and proportionate manner. Give suppliers opportunity to demonstrate benefits of circular business models where relevant.



The Royal Netherlands Ministry of Defence Maprocurement – workwear & towels and overalls

Intended Outcomes

- 1. Prevent incineration of discarded items:
- contract awarded to sort 750,000 end of life items for reuse or recycling into fibres for use in new textile products.
- 2. Procuring towels and overalls containing at least 10% recycled post consumer textiles fibres:
- contracts awarded for 100,000 towels and 10,000 cloths containing 36% recycled content and 53,000 overalls, containing 14% recycled content.

Lessons Learned

The MoD found that the original requirements included too many technical specifications. Circular invitations to tender must be described in more functional terms to give the market room for solutions.

"Our historical specifications were defined down to the last detail. We don't want to do that anymore." Stephanie Grieving, Workwear Chain Specialist, Ministry of Defence.

The role of Standards & Labels

Understand the criteria behind them...how do they address Circular approaches?

Government Buying Standards

check the date (mandatory for Core Government)

Green Public Procurement (GPP) criteria

Regularly updated but based on market availability across Europe

Link between selection, technical, award and contract management criteria.









Procurers should choose 'Type I' ecolabels i.e. verified by a third party and awarded on the basis of life cycle costs. Discussion





Breakout session

You will now be considering some procurement examples you have brought to the session

10 minutes

Example procurement

Scope of contract? Technical spec? Functional spec? How to measure and monitor delivery of intended outcomes – link to contract management.





Breakout plenary discussion

10 minutes





Evaluation and Award





Price vs Quality

Life-cycle costing and the best price-quality ratio (BPQR). Do you know what a good response should look like?

"An ideal response may provide some or all of the following [according to the scope of the contract]:

A Plan that details:

- How they will practically apply the waste hierarchy in service delivery, including how they have assessed prioritised options to reduce waste and the use of virgin materials, taking into account any cost, functional, technical, safety, quality and performance requirements. This may include:
- The use of materials that contain evidenced recycled content.
- The reuse of materials that would otherwise be treated as waste......"







Contract & performance management



Understand the role of contract management, KPIs and monitoring and reporting outcomes. Understand what to do next.



'Not everything that can be counted counts. Not everything that counts can be counted.'



POIL





remanufactured

Contract performance

Contract performance clauses e.g.

- To regulate how goods are packaged and delivered
- In a service contract (e.g. cleaning, catering) how waste and recycling are managed
- In a works contract, responsibility of the main contractor and subcontractors for environmental protection

Contract performance clauses must be **linked to the subject-matter** and advertised in advance.





Breakout session

You will now be considering aspects of monitoring and KPIs

10 minutes



Example procurement

How to objectively measure and monitor delivery of intended outcomes – link to specification (and supplier selection?).





Breakout plenary discussion

10 minutes



Supplier management

Continual improvement

- Evolution of sectors.
- Role of buyer in enabling innovation during lifetime of contract e.g. is there expectation that supplier 'keeps abreast of leading industry practices including innovation and applies them where relevant within the delivery of the contract?'
- Supplier relationship mature partnership dialogue and working with incumbents on continual improvement (voluntary).







From contract management to monitoring and reporting delivery of intended outcomes...

- Internal and external reporting requirements e.g. Climate Change Reporting (increased focus)
- How does procurement contribute to National Outcomes/ UN SDGs/ local priorities?
- Annual Procurement Reports
- Lessons learned share and apply to others



Link to specification - example



"The *Contractor* shall support the *Client's* aims to transition to a Circular Economy and will keep up to date with best practice circular opportunities within the FM and related sector....... and inform the *Client* of all relevant Circular Economy opportunities arising from the *service* and work with the *Client* to assess and implement those that align with value for money and cost certainty.

The *Contractor* shall support this through practical measures <u>that need to be monitored</u>, which may include, but not necessarily be restricted to:

- extending the useful life of equipment, tools, plant, materials and products used or installed;
- repair, re-use, redeployment, refurbishment or remanufacturing of otherwise redundant equipment, products, plant and materials; and/or
- the use of reclaimed, refurbished or remanufactured products, equipment, materials, plant and tools; and/or
- the use of materials with high levels of recycled content;
- the use of low impact (embodied carbon) materials;
- the use of durable materials and systems and those for which circular outcomes are achievable, including but not necessarily
 restricted to aggregates, insulation, structural metals, fit-out metals, concrete/cement, composites/SIPs, plasterboard,
 timber, plastics and glass (all of which meet relevant performance and quality requirements);
- the design of products installed, in conjunction with the relevant supply chain, for example to prevent early obsolescence;
- the durability, repairability and availability of spare parts for products or equipment installed or used in the contract, so that their useful life may be optimised;
- minimisation of waste and management in accordance with the Waste Hierarchy;
- potential alternative service models for products, materials, plant, equipment and tools used."





Fair meters

Objectives:

Regional distributor of energy in the Netherlands.

2018 - the first resource passports for 'circular' cables, containing a percentage of recycled material and fully recyclable, were laid in the Netherlands.

In addition, electrical meters were supplied with recycled content.

Outcomes:

Reduction in material use of 27% (nearly 360 tonnes), of which:

- 33% reduced weight of plastic used;
- 58% reduction weight of metals used;
- A 50% reduction in variation of material use within the bill of materials;

STEDIN

- A 14% reduction in the number of electrical components;
- Lower energy consumption of meters in use.



Discussion







Thank you - What next?

CIRCULAR APPROACHES MAY MEAN CONSIDERING ALTERNATIVES.

- Be clear what your ambitions are and benefits available.
- Consider optimum alternatives early.
- Relevant and proportionate specs monitor outcomes.
- Collaboration internal and external, market, engagement.
- 'PILOT' based on complexity, lifetime, spend, impact, market maturity ideas?
- Is there a support base? Is the market ready? Will you make an impact? Is it potential best practice? Is there a business case? Can it be scaled up?
- Share ideas and lessons with colleagues keep talking.

Resources

- <u>Circular Procurement getting started</u> (Circular Flanders)
- <u>Lighting as a service</u> (Schiphol Airport, Netherlands)
- <u>E-recovery, IT-donations</u> (DRZ, Netherlands)
- <u>Climate Literacy for Procurers e-learning Module</u>
- <u>Circular Procurement Learning Network (LinkedIn)</u>
- Procuring Resource Efficient Construction Projects.
- Procuring for Repair, Reuse and Remanufacturing.
- <u>Urban Agenda for the EU Online Circular Procurement course.</u>
- ProCirc Pathways to Circular Procurement.
- <u>Circular Furniture webinar.</u>
- <u>Circular ICT webinar.</u>
- ProCirc Tools webinar November 2020 video recording link

Videos:

- <u>Circular procurement (</u><3 minutes) Zero Waste Scotland
- 3 video presentations on <u>pre-tender</u>, <u>tender</u> and <u>post-tender</u> circular procurement considerations from Circular Flanders and Zero Waste Scotland (Circular Economy Stakeholder conference, November 2020)



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