Circular Public procurement

introductory workshop (WP3.1)

Cuno van Geet, Take Padding
Mervyn Jones

Aalborg, 27 September 2017
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>08.30</td>
<td>Exercise 1 – what is circular?</td>
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<tr>
<td>08.50</td>
<td>Introduction to Circular Procurement</td>
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<td>09.35</td>
<td>partner discussion</td>
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<td>09.50</td>
<td>Exercise 2 - maturity matrix</td>
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<td>10.20</td>
<td>discussion</td>
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<td>10.30</td>
<td>coffee break</td>
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<td>10.45</td>
<td>Exercise 3 - Stakeholders &amp; impact</td>
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<td>11.05</td>
<td>discussion</td>
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<td>11.15</td>
<td>Exercise 4 – maturity matrix #2</td>
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<td>11.35</td>
<td>feedback</td>
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<tr>
<td>11.45</td>
<td>Summary &amp; discussion</td>
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<td>12.30</td>
<td>LUNCH</td>
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Partners Workshop (WP3.1)

Exercise 1 – What is circular?

Take Padding

15 minutes
Your views on the circular economy
‘The ‘best’ circular option

C2C

or

Lifespan
‘The ‘best’ circular option

Mushrooms cultured on local collected coffee grounds

or

Organic/EKO mushrooms
‘The ‘best’ circular option

- Low Energy Asphalt
- Asphalt with high % recycled materials
The ‘best’ circular option

2nd hand luminaires

Pay for use: ‘light as a service’
The Circular Economy: Scope?
Partners Workshop (WP3.1)

Introduction

Cuno van Geet

15 minutes
Why a circular economy
Theory
Practice
EU benefits of CE

European Union

€ 324 billion (www.rebus.eu)

Denmark
↑ GDP 0.8–1.4%
7,000-13,000 jobs

United Kingdom
~€30 billion
↑200,000 jobs

France
↑ GDP 0.33-0.66%
100,000 jobs

Spain
↑ GDP 0.33-0.66%
100,000 jobs

Finland
↑ GDP 0.33-0.66%
15,000 jobs

Sweden
↑ 3% trade balance
15,000 jobs

The Netherlands
€7,3 billion
54,000 jobs

Sources: EU, Ellen McArthur Foundation, Club of Rome, TNO, WRAP
Innovation progression

- Innovators
- Early Adopters
- Early Majority
- Late Majority
- Laggards

Strategic circular procurement

- Individual organisations
- Individual countries

GPP comprehensive criteria

- Point of regulation

GPP core criteria

The 'Chasm'

Time
## Linking CE and GPP

### Addressing the gaps........

<table>
<thead>
<tr>
<th>Product group</th>
<th>Con-tractor</th>
<th>Products, Services, Works</th>
<th>Use Phase</th>
<th>End of life phase</th>
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<tbody>
<tr>
<td></td>
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<td>Recycled content</td>
<td>Designed for recycl-ing</td>
<td>Designed for Longevity</td>
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<td>Street lighting (2)</td>
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<td>Textiles (2)</td>
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<td>Transport (5)</td>
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<td>Toilets (2)</td>
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<td>Waste water</td>
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<td>Health care</td>
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<td>Imaging equipment</td>
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<td>Heaters</td>
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<tr>
<td>Roads</td>
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<td>Computers</td>
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<td>4</td>
<td>8</td>
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</table>

21 Groups
30 sub-groups
152 criteria
Output is the result of input
Circular procurement definition would be helpful (but not a ‘showstopper’) at the project level.

Pragmatically, it also depends on the view of the city and / or sector and /or organisation, i.e. a workable definition with rationale and reference to the project definition.
Circular clients

Circular procurement depends on the ambition of the organisation, translated into policy through the proactive effort of the clients and budget holders.
Circular procurement opportunities

- Encourage recycling
- Encourage reuse
- Invest in infrastructure
- Develop markets for recycled materials
- Design better products
- Reduce process waste
- Optimize product lifetimes
- Improve collections
- Encourage recycling

CIRCULAR ECONOMY
Rethinking our approach

- Supplier
- User
- Waste manager

- Circular procurement
- Waste contracts

- Products
- Resources

- Waste

- Product as a service
  - Buy – sell back

- Buy - resell
Food & catering

- Waste prevention
- Storage & preparation
- Plate waste
- Reuse
- Recycling - composting
- Nutritional & healthy diets

- Ghent, Belgium - catering contracts
- Torino, Italy - healthy sourcing
- Copenhagen, Denmark - organic
- UK Public sector catering, waste prevention, HAFS
- Rijkswaterstaat, Netherlands - food waste recycling
Workwear & textiles

- Encourages innovation in design
- Reduces carbon impacts
- Reduces toxicity
- Increases durability
- Increases reuse and recycling at end of life

- Rawicz Hospital, Poland – nurses uniforms
- Herning, Denmark – emergency services uniforms
- Rijkswaterstaat, Netherlands – lock-keepers uniforms
- Nurses uniforms – Wales, UK
Construction

- Design for deconstruction
- Recycled content
- Multiple REBMGs
- Public private partnerships
- CO2 reduction
- End of Life - closing material loops
- Refurb & maintenance
- Cost savings
Transport

- Bremen, Germany - public / private car sharing scheme
- Barcelona, Spain - electric vehicles
- Dutch Government – car sharing & leasing models

- REBM - Mobility as a service
- Lower carbon footprint
- Improved air quality
- Innovation – public-private partnerships
ICT & electricals

- Design for repair
- Recycled content
- Multiple REBMs - e-recovery, take-back, pass/sell on
- Lifetime optimisation
- CO₂ reduction
- End of Life – resource security

- Utrecht, Netherlands – IT take-back; secure reuse
- Schiphol Airport, Netherlands – lighting as a service
- BZK, Netherlands – e-recovery, IT-donations
- UniGreenScheme, UK - Lab equipment re-sale and re-use
Furniture

- REBM – furniture as a service
- Resource efficient design
- Recycled content
- Lifetime optimisation
- Reuse opportunities
- SME opportunities

- Cambridge NHT, UK – hospital beds
- ProRail, Netherlands – furniture and carpeting
- Sweden – furniture servitisation
- London, UK – office mobile asset management
- Public Health Wales, UK – desk reuse & repurposing
Invitation

www.cpcongress.eu
We are pleased to announce that the second edition of the Circular Procurement Congress ‘Mainstreaming Circular Procurement’ will take place on 18 & 19 October 2017.
Partners Workshop (WP3.1)

Exercise 2 – Maturity matrix

Mervyn Jones

30 minutes
Partners workshop (WP3.1)
CP maturity matrix - Exercise 1

Circular procurement is more than just procurement criteria

- 5 themes:
  - Policy, Strategy & Communications
  - Procurement Process
  - People
  - Engaging Suppliers
  - Measurements & Results

- 5 levels:
  - Foundation
  - Embed
  - Practice
  - Enhance
  - Lead
Partners workshop (WP3.1)  
CP maturity matrix - Exercise 1

Using the matrix provided, estimate your organisation’s (or cities) current position.
Partners Workshop (WP3.1)

Exercise 3 – Stakeholders & Impact

Take Padding

20 minutes
Where’s the biggest impact?

Degree to which specifications are fixed

Sustainability gains

- Preparatory stage
- Stage 1: Specification
- Stage 2: Selection
- Stage 3: Contract
- Stage 4: Order
- Stage 5: Monitor
- Stage 6: Aftercare
- Utilisation stage
Example: Bremen

Circular Procurement Principles

- Avoiding procure-consume-dispose
- Innovation
- Footprinting

Replaced more than 2000 private cars, saved 2.32 million kg of CO₂ emissions, and reduced parking infrastructure costs by at least EUR 30 million.

Key Principles

| Circular procurement vs procure-consume-dispose | Considering alternatives to the traditional extract, produce, consumer, dispose business models |
| Innovation | Restructuring procurement using servicisation to foster public-private partnerships |
| Footprinting | Using CO₂ limits from regional regulation as performance-based specifications in tenders |

Clauses

- CO₂ limits
- Servicisation – public private partnership
- Performance based specifications

Benefits

- Cost savings
- Reducing CO₂ emissions
- Employee benefits

Links

- UNEP 10YFP – Using Product Service Systems to Enhance Public Procurement, 2015
Exercise

Who are the top 3 stakeholders essential for implementing circular procurement in your organisation?
Partners Workshop (WP3.1)

Exercise 4 – Maturity matrix (Part 2)

Mervyn Jones

20 minutes
1. Using the matrix again, plot your organisation’s (or cities) goal position.

2. What would be the likely BSR project end phase (as an interim step?)
Mentoring (WP3.2)
Mentoring timeline

Cities
Select local expert
Train the local experts
Workshop per city
Circular procurement plan
Select tender
Define milestones
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Mentoring (WP3.2)
Mentoring workshop (example) participation

Workshop 1
- Policymakers
- Senior decision makers
- Political/officials
- Head of Procurement
- Budget holders
- Category managers
- Local Expert

Workshop 2
- Procurement team
- Users
- Technical input
Mentoring (WP3.2)

Roles

Local experts -
• Combining knowledge of policy goals, strategic procurement and circular economy opportunities
• Day to day coordination
• Share knowledge
• Solve local issues
• Liaison with mentor
• Liaison between project & tender exercise

Mentors -
• Guidance and support
• Share knowledge
• Connect the BSR pilots
• Visits (milestones)
• Maintain contact with local expert
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