Circular Procurement Integration in practice

1. Better circular criteria in tenders
2. Functional & tools
3. Innovation
1. Dutch MVI criteria: 3 levels
2. Functional specifications infrastructure

1. To use functional specifications you need to describe the need of your client, being 'a solution for an issue'.

2. Functional requires functional tools, like dubocalc, CO2 performance ladder

3. Most often a combination of functional and technical specifications is used.
2. Functional Netherlands A12 Benefits

Reduced monetized environmental impacts by €21.8M

<table>
<thead>
<tr>
<th>Low Carbon Solution</th>
<th>CO$_2$e emissions</th>
<th>Energy consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>552.9 t CO$_2$e/year</td>
<td>157.8 toe/year</td>
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<table>
<thead>
<tr>
<th>Last Tender/or „worst case“</th>
<th>CO$_2$e emissions</th>
<th>Energy consumption</th>
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<tbody>
<tr>
<td></td>
<td>731.8 t CO$_2$e/year</td>
<td>208.6 toe/year</td>
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<tr>
<th>Annual savings</th>
<th>CO$_2$e emissions</th>
<th>Energy consumption</th>
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<tr>
<td></td>
<td>178.9 t CO$_2$e</td>
<td>50.8 toe/year</td>
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<table>
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<tr>
<th>Total savings (50 years)</th>
<th>CO$_2$e emissions</th>
<th>Energy consumption</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>8,944 t CO$_2$e</td>
<td>2,549 toe</td>
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3. Innovation: Circular Bridge

Prototype: lessons and insights
Longer Dutch video: https://www.youtube.com/watch?v=RrVdbnoXgZs
The bridge is circular: in other words, there is no waste, reuse requires no new raw materials and used raw materials are put to new use in the most high-value way possible. This is the first concrete bridge in the Netherlands to be built in this way.

First re-usable circular bridge in the Netherlands
200 years in use - 20% less emissions for reconstruction - 6 times less waste
New ways of collaboration

Joining forces in the chain as equal partners
Design for disassembly
Re-use prototype

Looking for a new location – Bridge bank! www.bruggenbank.nl
Results:

Final advice

Learning history

Lessons learned for each topic

written as story

• https://www.rijkswaterstaat.nl/english/environment/circular-economy/construction-of-circular-bridge
- Life time – 200 years (normally 40-50)
- Circular design – deconstructable
- Pure materials / recycled content?
- Collaboration – not just a tender
- Complete reuse 40 concrete layers
- Open learning environment
Tools for support

- Networking support
- Publications
- Workshops & trainings
- Factsheets
- CP Congress
- Book CP in 8 steps
- Roadmap CP
- Criteria tool
Thank you

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