Public Procurement in Healthcare:
Plastic packaging and tender requirements
Aarhus University Hospital in Central Denmark Region
Key facts

**Clinical departments:** 44

**Number of beds:** 1,150

**Annual activities:**
- 803,100 out-patients visits
- 40,749 emergency visits
- 94,329 discharges
- 83,202 surgeries
- 44,600 endoscopies
- 4,876 births

**Staff:**
- 10,200 employees
  (9,400 full-time positions)
**Waste at Aarhus University Hospital**

**2017:**
- 3,200 t solid waste/y
  - 16% Recycled
  - 83% Waste to energy
  - 1% Landfill

**2030:**
- xx t solid waste/y – ?
  - 50% Recycled
  - 49% Waste to energy
  - 1% Landfill

*COSTS PR. TON INCREASING*
What is Circular Economy (CE)?
500 kgs of solid waste contains

90 kgs of plastic packaging

= 18% of solid waste in
Aarhus University Hospital is
clean plastic packaging
Plastic packaging – a complex fraction

- Utkendt plast
- Andet plast (7)
- PE+PET
- PET (1)
- PP (5)
- Tyvek (PE+EVA)
- Ethylene Vinyl Copolymer
- Tynd HDPE (kniitrende engangsposer)
- EPS (6)

- LDPE (4)
- Kraftig scrink plast (PA+PP+EVOH)
- Kraftig scrink plast (PP+HDPE)
- LLDPE (stræk-folie)
- PA+PE
- PS (6)
- Blød HDPE (2)
- HDPE (2)
Majority is flexible plastics

flexible plastics

hard plastics
The PP Pilot Case – Bottles for irrigation
Minimum requirements
It is a minimum requirement that the bottles offered have a clear marking on how the polymers used can be recycled, using the 7 international recycling symbols. The orderer prefers marking that follows the CEN Recommendation WI 261 070, but accepts marking following the EU Commission Decision 97/129/EC.

Competitive parameters
The label consists of PP, HDPE, LDPE or PE-EVA
95% of the total weight of the packaging consists of one polymer
Any liners, seal or valve in cap/capsule consist of HDPE, LDPE, PP or PE+EVA
Tamper-ring consists of PP, PE, EPS or OPP and has a density of less than 1 g/cm3
Glue is soluble in water at less than 80 degrees Celsius
Printing ink is non-toxic based on EUPIA guidelines
Direct print is laser-based
The competitive parameter is weighted with 5%
## Three tenders

<table>
<thead>
<tr>
<th>Tender</th>
<th>Tender sum app.</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigations fluids (2018)</td>
<td>7,5 mio USD</td>
<td>Minimum criteria + Competitive parameters 5% Weight</td>
</tr>
<tr>
<td>Non-clinical-single-use utensils</td>
<td>7,5 mio USD</td>
<td>Minimum criteria + Non-wanted chemicals + Ecolabels</td>
</tr>
<tr>
<td>Stomiproducts</td>
<td>22.7 mio USD</td>
<td>Minimum criteria + Competitive parameters</td>
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</table>
Tender Criteria I: Reduce

- Reduction of packaging
- Include recycled material in secondary and tertiary packaging
Tender Criteria II: Re-use

- Develop take-back systems where ever relevant/possible
Tender Criteria III

Recycle

Do:
• Monopolymer packaging.
• PP, PE and PET.
• Mark for recycling.

Dont:
• PVC.
• Laminates (?)
• Combinations of paper and plastic.
Thank you for listening!

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