

Healthcare waste management

Is there a chance to non-hazardous healthcare waste?

BRINC Workshop

Accelerating the Circular Economy through
Public Procurement of Innovation

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Generalitat
de Catalunya



Institut Català
de la Salut

What is the ICS?



The ICS is the biggest public healthcare provider in Catalonia.



What is the ICS?



6,000,000 referred population
82,2%



8 Hospitals



332 Primary Care Centres
617 rural Medical offices



52.000 professionals



Our mission is keeping people healthy





But doing so we impact on the environment





Legal Frame



Decree 27/1999 on healthcare waste management

- Any waste produced in a healthcare centre is healthcare waste.
- 4 groups of healthcare waste
 - ✓ Group I: Recyclable domestic waste
 - ✓ Group II: Non hazardous sanitary waste
 - ✓ Group III: Bio-hazardous sanitary waste
 - ✓ Group IV: Other hazardous waste



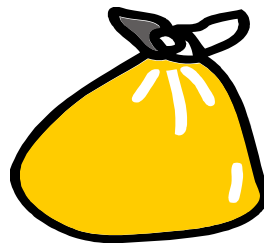
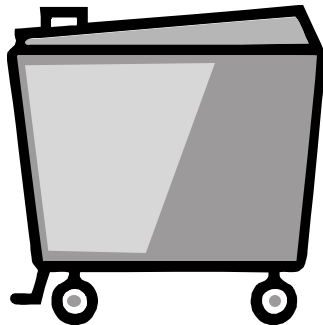
Legal Frame



Decree 27/1999 on healthcare waste management

Group II

- ✓ Non hazardous
- ✓ Same treatment as domestic waste
- ✓ Laid in thick bags
- ✓ To landfill





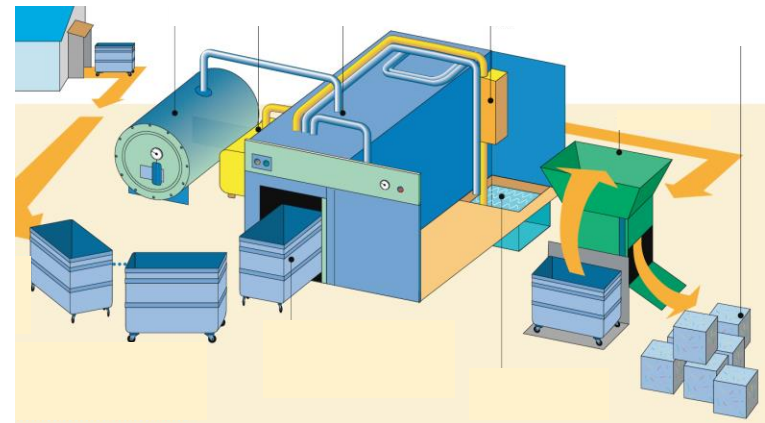
Legal Frame



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Group III

- ✓ Bio-hazardous
- ✓ Laid in hard containers
- ✓ Sterilization and trituration





Waste in the ICS

Group III

1,700 Tons/year

What can be done?

- ✓ It's Bio-hazardous so can't be manipulated
- ✓ Avoid to mix with non-hazardous
- ✓ Tracking system container per container
Increases the management efficiency



Waste in the ICS

Group II 13,500 Tons/year

What can be done?

- ✓ It's non hazardous when no manipulated, but needs to go untouched to landfill to ensure
- ✓ Reduction by avoiding single-use materials
- ✓ High quality materials potentially recyclable
- ✓ Previous sorting is difficult due to organisation and space





Waste in the ICS

SUSTEIN



Preliminary market consultation

Sustein. Spain

- ✓ Turn waste into building materials
- ✓ Recent creation company
- ✓ Not enough costumers yet
- ✓ Previous sterilization increases cost



Waste in the ICS



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BROKERING CROSS-BORDER
INNOVATION THROUGH CLUSTERS

Circular Medico. Denmark

- ✓ Material identification fibres to automatically sort the waste for recycling
- ✓ Needs a procurement that includes the purchasing of the recycled goods. Hard to integrate into ICS procurement structure.



Waste in the ICS



Re-Lab. Sweden

- ✓ Plastic treatment to turn it into combustion gas
- ✓ Focused in lab materials
- ✓ Sorting solutions
- ✓ Should be locally based to avoid transportation footprint



Waste in the ICS

RI.
SE



RISE. Sweden

- ✓ Collaboration and exploring opportunities



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Waste in the ICS



What are we seeking?

- ✓ A consistent business model
- ✓ The accomplishment of the catalan healthcare waste law.
- ✓ Sterilization in the recycling process itself
- ✓ Preferably an out-building waste sorting
- ✓ Proximity treatment or reuse preparation



Waste in the ICS



Ideas and proposals welcome



Jordi Pujadas

Jpujadas.ics@gencat.cat

T. +34.675.783.795



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de Catalunya**

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**Institut Català
de la Salut**