



New approaches for the valorisation of URBAN bulky waste into high added value RECycled products

URBANREC

LIFE MED International

Workshop

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URBANREC: New approaches for the valorisation of URBAN bulky waste into high added value RECycled products

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*URBANREC project is an European project which proposal was submitted to **Call H2020-WASTE-2015, "A resource to recycle, reuse and recover raw materials", Topic WASTE-6a-2015 "Eco-innovative solutions"** and has received funding from the European Union's Horizon 2020 research and innovation programme under **grant agreement n° 690103**.*

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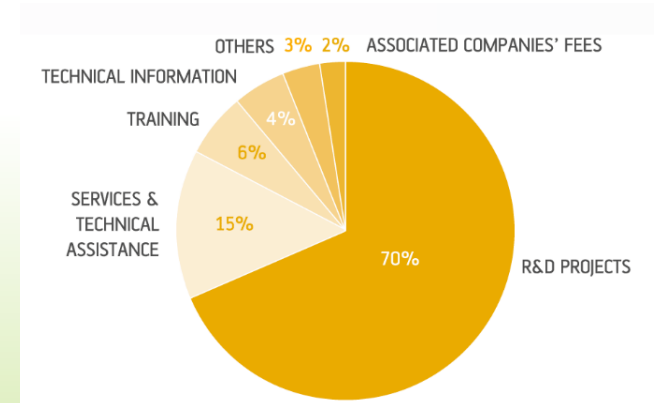
Conclusions



AIMPLAS introduction



- AIMPLAS is a Spanish Centre of Innovation and Technology
- 26 years of experience supporting companies in the plastic sector
- A team of more than 120 highly qualified professionals
- Over 8.500 m² facilities with the latest advanced technologies
- Revenues' distribution





Bulky waste management



- Bulky waste stream
- More than 60% of bulky waste is currently landfilled in EU.
- Variable characteristics (economic, social or geographical situation).

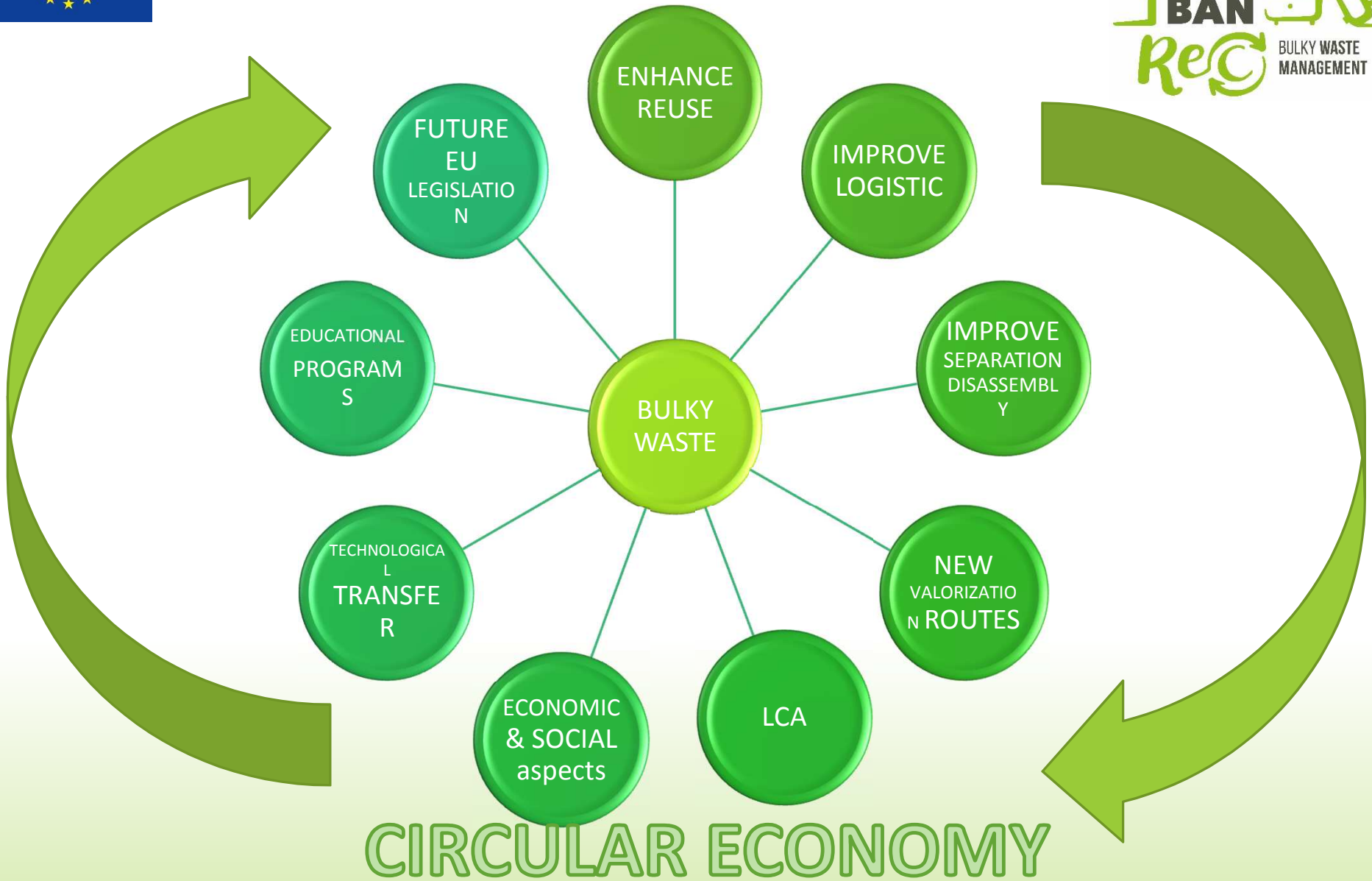
➤ **NEEDED at EU level**



- *comparative data and legal framework*
- *cost-effective collection systems easily accessible for the citizen*
- *sustainable methods or mandatory collection schemes (re-usable and non re-usable bulky waste)*
- *alternative grinding methods -> single material fractions at competitive cost*
- *valorisation routes for those fractions*



Project Overview





Bulky waste selection, disassembly, separation and crushing.





Bulky waste recycling





Bulky waste recycling

NEW VALORIZATION ROUTES

Bulky waste recycling

NEW VALORIZATION ROUTES

Bulky waste recycling

NEW VALORIZATION

Public awareness

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ECONOMIC & SOCIAL aspects

FUTURE EU LEGISLATION

EDUCATIONAL PROGRAMS

EU Ecolabel



Conclusions

URBANREC aims:

From technical point of view:

- to improve the logistics – implementing collection and reuse-,
- to define separation and disassembling processes of bulky waste - implementing advanced techniques such as fragmentation (3D cut),
- to promote innovative valorization routes.
- to implement new technologies (i.e. electronic cards, app, customer portal, reuse, etc.)

From social points of view:

- to implement ECOLABELS.
- to carry out educational programmes.
- to come up with concrete recommendations for the improvement of the European legislation and bulky waste management.





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Thank you for your attention!

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HIGH ADDED VALUE RECYCLED PRODUCTS*

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