

BIOPRODUCTS AND BIOENERGY FROM ORGANIC MUNICIPAL SOLID WASTE



INDUSTRIAS MECÁNICAS ALCUDIA S.A.









Biotechnological process:

Transform the organic fraction of municipal waste into advanced bioethanol, bioproducts and bioenergy.



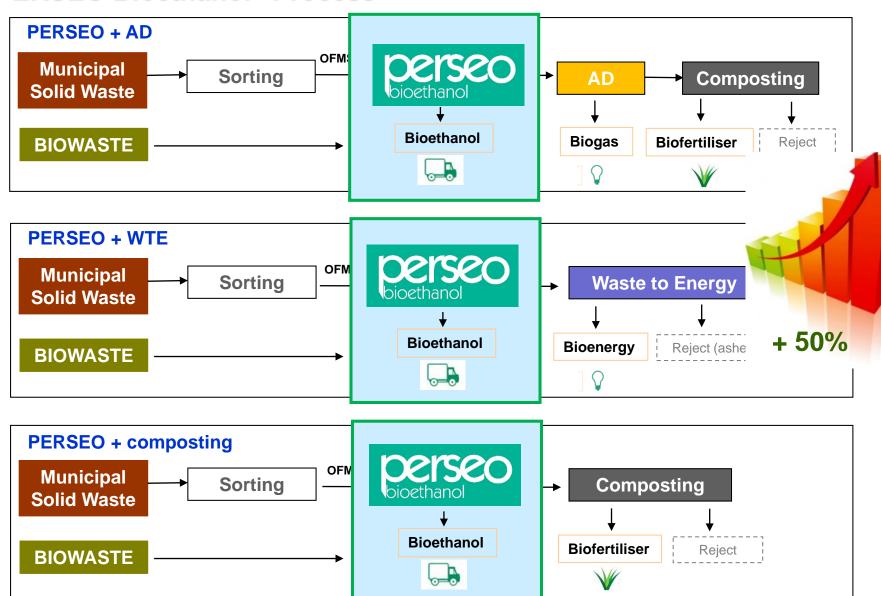






PERSEO Bioethanol® Process

*From sorted OFMSW











Demonstration of an integrated innovative biorefinery for the transformation of Municipal Solid Waste (MSW) into new BioBased products (GA 745785).

√ 16 partners covering the value chain of MSW treatment to bioproducts

Project Budget: 15 M€(Grant 10.9 M€). 4 years project (6/2017 – 5/2021)

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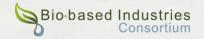
















RBIOFIN Project Objective









NEW MODEL OF OFMSW TREATMENT







OFMSW

URBIOFIN - Biorefinary

BIO-BLOCKS

BIO-POLYMERS

ADDITIVES

- Bioethanol
- Volatile fatty acids
- Biogas

- Polyhydroxyalkanoates
- Combined PHA's

- Bioethylen
- Biochemical products

VALUE



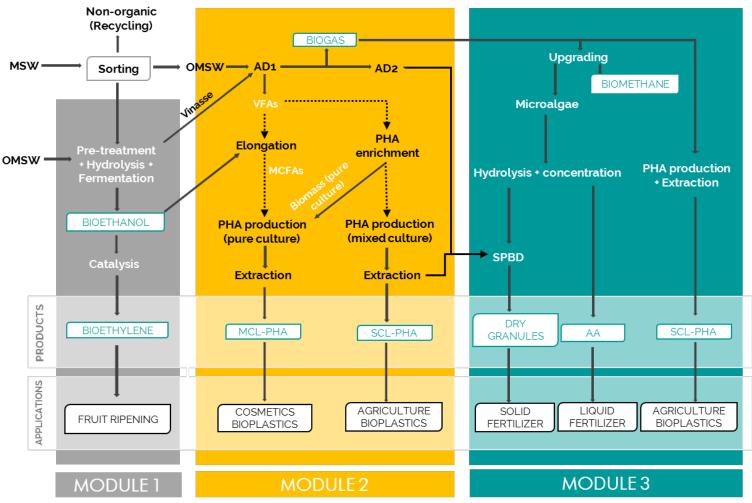
RBOFIN URBIOFIN Biorefinery Concept

























Benefits of an urban biorefinery:



Higher annual benefits, when compared to current MSW technologies



Versatility

Versatility to treat different fractions of waste to obtain maximum added value and profitability

Profitability



Improvement of the performance through the use of by-products generated in their own processes – landfill diversion



Bioresources

Reduction of fossil resources dependence in energy and products.



Evolution towards the path of the bioeconomy defined by the EU.

Waste is a resource: Circular economy.



Sustainability

Boost competitiveness, foster sustainable economic growth and generate new jobs







Thank you for your attention!!







Caterina Coll Lozano
Chief Operating Officer

http://www.imecal.com/perseo