

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.



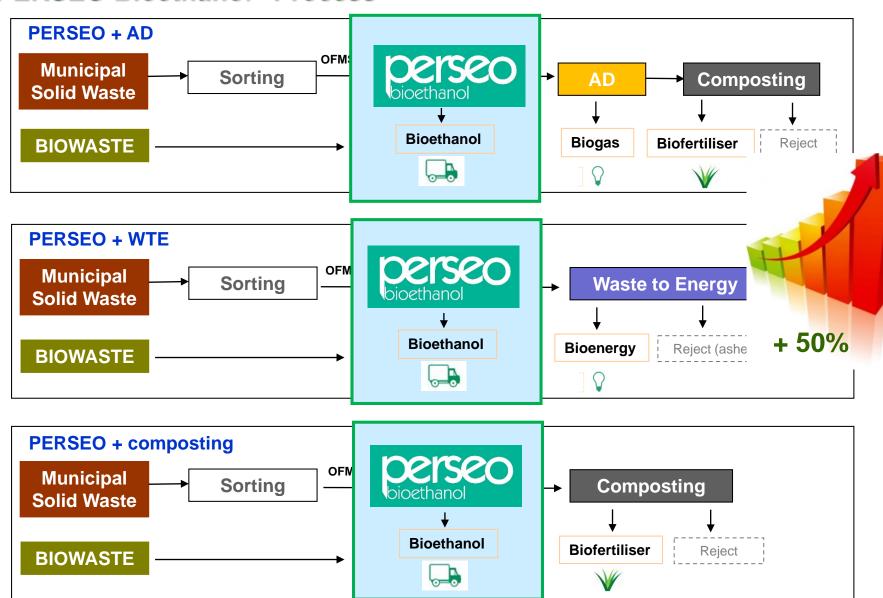






#### PERSEO Bioethanol® Process

#### \*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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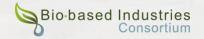
















### RBIOFIN Project Objective



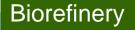






#### **NEW MODEL OF OFMSW TREATMENT**







#### **OFMSW**

**URBIOFIN** - Biorefinary

**BIO-BLOCKS** 

**BIO-POLYMERS** 

**ADDITIVES** 

- Bioethanol
- Volatile fatty acids
- Biogas

- Polyhydroxyalkanoates
- Combined PHA's

- Bioethylen
- Biochemical products

**VALUE** 



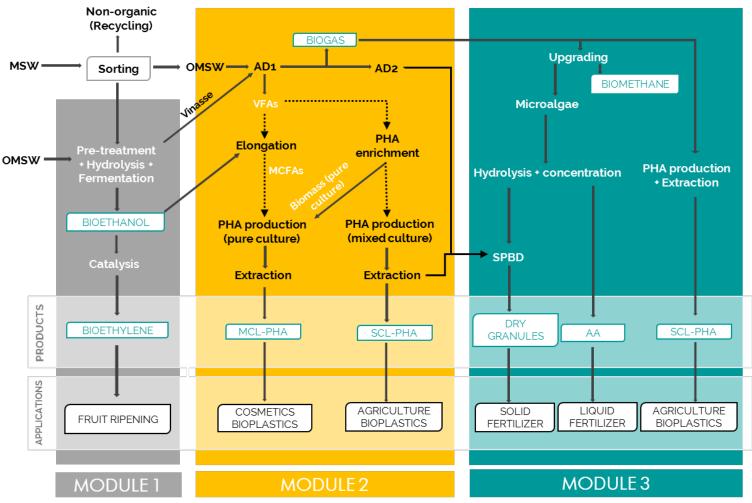
## RBOFIN URBIOFIN Biorefinery Concept

























#### 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

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