
Value chains for disruptive transformation of urban biowaste into biobased products in the city context

Title and number of the project:

Value chains for disruptive transformation of urban biowaste into biobased products in the city context

Grant agreement ID: 818308 – WaysTUP!

Program, topic, provider:

Program: Horizon 2020

- H2020-EU.3.2.4.1. - Fostering the bio-economy for bio-based industries
- H2020-EU.3.2.2.1. - Informed consumer choices

Topic: CE-SFS-25-2018: Integrated system innovation in valorising urban biowaste

Provider: European commission

Coordinator:

SOCIEDAD ANONIMA DE AGRICULTORES DE LA VEGA DE VALENCIA

Participants:

NAFIGATE Corporation, a.s. and other 26 participants from EU

NAFIGATE Corporation a.s. with other 26 participants from EU realize project “Value chains for disruptive transformation of urban biowaste into biobased products in the city context” from 1.9.2019 to 28.2. 2023.

WaysTUP! aims to demonstrate the establishment of new value chains for urban biowaste utilisation to produce higher value purpose products (i.e. biobased products, including food and feed ingredients), through a multi-stakeholder approach in line with circular economy. The project will showcase a portfolio of new ‘urban biowaste to biobased products’ processes starting from different feedstocks i.e. fish and meat waste, spent coffee grounds, household source separated biowaste, used cooking oils, cellulosic waste derived from municipal wastewater and waste treatment plants and sewage sludge. Pilot demonstration will take place in several European cities i.e. Valencia (Spain), London (UK), Alicante (Spain), Prague (Czech Republic), Athens (Greece), L'Alcúdia (Spain), Terni (Italy) and Crete (Greece). The processes will result in the production of food and feed additives, flavours, insect protein, coffee oil, bioethanol, biosolvents, polyhydroxyalkanoates, ethyl lactate, long



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chain dicarboxylic acid, bioplastics and biochar. End-product characterisation and safety assessment will be implemented. Life Cycle Assessment of the value chains will be conducted to assess their environmental impact. WaysTUP! will develop and implement a behavioural change approach with citizens and local communities by improving the current perception of citizens and local communities on urban biowaste as a local resource; enhancing the active participation of citizens in the separate collection of urban biowaste; and improving customer acceptance of urban bio-waste derived products. New profitable business models will be developed preparing market entry of the technology solutions demonstrated as well as of the end-products resulting from them. Finally, the project will provide guidance for city managers on adopting new organisational models supporting the valorisation of urban biowaste, as well as evidence-based EU level policy recommendations for decision makers.



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