



## BBF VALUE CHAINS ALMERIA

Results RUSTICA external stakeholder workshop 2 - Almeria

### SHORT SUMMARY FOR PRACTITIONERS

EN version

In June 2022, the second RUSTICA multi-stakeholder regional workshop for Almeria region took place. 12 Stakeholders involved in different parts of the bio-based fertilisers (BBFs) value chain including farmers, farmers associations, waste management companies, agronomy advisors and BBFs producer companies, attended this workshop. The goals of the workshop were: (1) to inform about the progress achieved from the beginning of the project, (2) to explain future actions to be developed during the next months, (3) to identify the key market players, processes & activities and support services of possible valorisation processes to be implemented in Almeria, (4) to identify the main barriers and promoters associated to each group of actors involved in the organic waste valorisation chains and, (5) to identify the six ideal valorisation chains to be implemented in Almeria. Outcomes of the workshop were the following. The key market players, processes & activities and support services of the possible valorisation processes to be implemented in Almeria have been identified in all the phases of the value chains (waste production, waste collection, waste processing, fertiliser mixing/blending, sale & distribution, and use & application). Stakeholders have been organised in two different working groups (the green group with farmers, farmers associations and technical advisors and; the blue group with waste processors and biofertiliser producers) to identify from two different points of view the main barriers and promoters of each phase of the value chains from different perspectives (financial, organisational, knowledge, institutional, supply chain and market). Finally, six possible value chains have been identified for the valorisation of organic wastes produced in the vegetable production system under greenhouse of Almeria, with the identification of the respective key players for each phase of the valorisation chains and the different possible interlinks between the key market players.

### SHORT SUMMARY FOR PRACTITIONERS

NATIVE version

En junio de 2022 ha tenido lugar el segundo workshop regional de RUSTICA en la región de Almería. Asistieron 12 actores de la cadena de valor de los biofertilizantes (BBFs) entre los que se encontraban agricultores particulares y asociaciones de agricultores, empresas gestoras de residuos, técnicos asesores y empresas productoras de BBFs. Los objetivos de este workshop fueron: (1) informar sobre los progresos realizados desde el inicio del proyecto, (2) explicar las futuras acciones que serán llevadas a cabo durante los próximos meses, (3) identificar los actores clave, procesos & actividades y servicios asociados de las posibles cadenas de valorización de interés para su implementación en Almería, (4) identificar las principales barreras y los impulsores asociados a cada grupo de actores clave involucrados en las cadenas de valorización de residuos orgánicos e, (5) identificar las seis cadenas ideales de valorización a implementar en la provincia de Almería. Los resultados de este workshop fueron los siguientes. Para cada una de las etapas de los procesos de valorización (producción de residuos, recolección de residuos, procesado de residuos, formulación & mezcla de biofertilizantes, venta & distribución, y uso & aplicación) han sido identificados los actores clave, procesos & actividades y los servicios externos asociados. Los stakeholders han sido organizados en dos grupos de trabajo diferentes (el grupo verde, formado por agricultores individuales, asociaciones de agricultores y técnicos asesores; y el grupo azul, formado por empresas gestoras de residuos y por empresas productoras de BBFs) para identificar desde distintos puntos de vista las principales barreras y los impulsores de cada una de las fases de los procesos de valorización desde diferentes perspectivas (financiera, organizacional, del conocimiento, institucional, de la cadena de valor y del mercado). Finalmente, se han identificado las seis posibles cadenas de valorización de los residuos orgánicos producidos en el sistema de producción de hortalizas bajo invernadero en Almería, los respectivos actores clave de cada una de las fases de las cadenas de valorización y las diferentes interconexiones posibles entre ellos.



## CONTEXT

On the 15th June 2022, TECNOVA organised the second RUSTICA external multi-stakeholder workshop for the Almeria region. 12 Participants attended involved in different parts of the bio-based fertilisers (BBFs) value chain including farmers, farmers associations, agronomy advisors, waste management companies and BBFs producer companies.

## PROBLEM

The key actors involved in the possible value chains are diverse and were not always interconnected. Different processes, activities and support services are involved in the value chain of organic wastes, and make its implementation complex. Different points of view about barriers and promoters associated to each group of actors involved in the value chains and to its phases, can make more difficult the value chain implementation. Ideal possible value chains are different for each region. Local key actors are the appropriate stakeholders to identify the ideal and possible value chains for each specific region.

## SOLUTION

The second regional RUSTICA stakeholder workshop connected key actors involved in different phases of organic waste value chains. Their opinions have been crucial to identify the key market players, processes & activities and support services of possible valorisation processes to be implemented in Almeria, the main barriers and promoters associated to each group of actors involved in the organic waste valorisation chains and, the six ideal valorisation chains to be implemented in Almeria. Project advances and preliminary results have been shared and discussed with the stakeholders during the workshops.

## OUTCOME

1. Valorisation map of the value chain of organic wastes produced by the vegetable production system under greenhouse of Almeria.
2. List of barriers and promoters of each phase of the value chains from different perspectives (financial, organisational, knowledge, institutional, supply chain and market).
3. Six possible ideal value chains to valorise the organic wastes produced by the vegetable production system under greenhouse of Almeria, with the identification of the respective key players for each phase of the valorisation chains and the different possible interlinks between the different key market players.

## PRACTICAL RECOMMENDATIONS

- Waste collection should be improved taking into consideration all the different waste producers (farmers and consumers).
- It should be practical to organise central services such as waste storage stations and waste pre-treatment companies before beginning the waste processing phase.
- It is necessary the creation and the implementation of a database of available organic wastes updated at real time, indicating its location, volume and main characteristics, as a tool for BBFs producer companies to plan the annual BBFs production.
- The legal framework must be updated periodically taking into account novel valorisation technologies.
- Formation activities should be organised to specialise the technical staff of BBFs companies about different protocols of management and application of BBFs.