



SHORT TITLE

Results 1st Almeria RUSTICA workshop with external stakeholders

SHORT SUMMARY FOR PRACTITIONERS

EN version

In autumn of 2021, the first RUSTICA multi-stakeholder regional workshop for Almeria region took place. 10 people involved from different parts of the bio-based fertilizers (BBFs) value chain attended. The goals of the workshop were to improve the connection among the regional BBFs stakeholders, define expected results of the project, get feedback about a regional market analysis fact sheet, collect input on the regional wishes about BBFs characteristics, identify the most important factors favoring BBFs and future scenarios for BBFs development for this region, and enlarge the regional stakeholders list. Outcomes of the workshop were the following. Stakeholder expectations of the RUSTICA project were identified. The main properties required for BBFs in Almeria were high release of nutrients at a short period of several weeks duration, high mineralization capacity, capacity to increase water retention of soil, carbon sequestration and soil resilience. Comments and improvements of the marker analysis fact sheet were discussed. A roadmap was identified with the stakeholders of the BBFs production sector from organic residues coming from the vegetable production system under greenhouse of south of Spain. Social, environmental, political, economic and technical factors of the expected future scenarios of BBFs production in Spain were identified. Main needs identified have been clear fact sheets of each BBFs and demonstrative actions of agronomic and environmental benefits produced; formation of advisors specialized to manage "alive soils"; improvement of farmers awareness; estimation of energetic cost and efficiency of BBFs production processes and, harmonization of legislation. Main obstacles identified were seasonality of waste production; lack of information about availability of organic residues to be valorized; not harmonized local legislation; lack of information about economic cost and technical problems associated to possible valorization chains. Main drivers identified for the future development of BBFs were the existence of technology maturity; interconnection between research centers and private companies; actions promoting circular economy.

SHORT SUMMARY FOR PRACTITIONERS

NATIVE version

En otoño de 2021 ha tenido lugar el primer workshop regional de RUSTICA en la región de Almería. Asistieron 10 actores de la cadena de valor de los biofertilizantes (BBFs). Los objetivos de este workshop fueron: mejorar la interconexión entre las partes interesadas en la producción de BBFs, definir los resultados esperados del proyecto, obtener comentarios sobre una ficha descriptiva del mercado regional, conocer las propiedades demandadas en los BBFs, identificar los factores más importantes que afectan al desarrollo y al uso de BBFs en esta región, y ampliar la lista de actores regionales. Durante este workshop se han identificado las expectativas que tienen los asistentes del proyecto RUSTICA y las principales propiedades requeridas en los BBFs en Almería, como son una alta capacidad de liberación de nutrientes en un corto período de tiempo, una elevada capacidad de mineralización, capacidad para aumentar la retención de agua del suelo, el secuestro de carbono y la resiliencia del suelo. Se han recopilado mejoras y comentarios referentes a la ficha informativa de análisis del mercado regional actual. Se ha identificado a todos los posibles actores que podrían estar involucrados en la producción de BBFs a partir de residuos orgánicos procedentes del sistema de producción de hortalizas bajo invernadero del sur de España. Los factores sociales, ambientales, políticos, económicos y técnicos de los escenarios futuros esperados de producción de BBFs en España han sido identificados. Las principales necesidades identificadas han sido hojas informativas claras de cada BBF y acciones demostrativas de los beneficios agronómicos y ambientales que producen; formación de asesores especializados para el manejo de "suelos vivos"; sensibilización de los agricultores; estimación del coste y de la eficiencia energética de los procesos de producción de BBFs y; armonización de la legislación. Los principales obstáculos identificados han sido la estacionalidad de la producción de residuos; la falta de información sobre la disponibilidad de residuos orgánicos para ser valorizados; la legislación local no armonizada; y la falta de información sobre costes económicos y problemas técnicos asociados a posibles cadenas de valorización. Los principales impulsores identificados para el desarrollo futuro de los BBFs han sido la existencia de tecnologías maduras; la interconexión entre centros de investigación y empresas privadas; y el fomento de acciones que promueven la economía circular.



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Results 1st Almería RUSTICA workshop with external stakeholders

CONTEXT

On the 10th November 2021, TECNOVA organized the first RUSTICA external multi-stakeholder workshop for the Almeria region. The assistants were 10 attendees involved in different parts of the bio-based fertilizers (BBFs) value chain including research organizations, farmers associations, waste management company, regional agencies, environmental associations, agronomy advisors and policymakers.

PROBLEM

The bio-based fertiliser value chain to make progress in the development of BBFs is in need of updated information about availability of organic residues to be valorized and location of these residues, well defined production processes of BBFs, harmonized legislation, protocols of management and application of BBFs and advisors specialized on the use of BBFs.

SOLUTION

Regional RUSTICA stakeholder workshops connect stakeholders and project partners related to different parts in the bio-based fertiliser value chain. The workshop setting is used to explore and discuss questions such as project goal definitions, regional market analysis, customer wishes for BBFs, potential value chains, future scenarios for the development of BBFs. Project results are shared and discussed with the stakeholders during the workshops.

OUTCOMES

1. Roadmap of stakeholders in the Almeria region.
2. List of stakeholders expectations about the Rustica project. In the short term: knowledge about new technologies adapted to actual needs, actors involved and future market scenarios, and analysis of actual legislation. In the long term: information about economics and technical issues related to BBFs production, update about advances on waste valorization, development of new nutritional products, reinforcement of BBFs use, improvement of agricultural productive procedures and establishment of a multi-actor working group.
3. Improvements of Almeria market analysis fact sheet.
4. Main functions required for BBFs: high release of nutrients at a short period of weeks duration, high mineralization capacity, capacity to increase water retention of soil, carbon sequestration and soil resilience.
5. Social, political, technological, economic and environmental factors related to BBFs development and use were identified.

PRACTICAL RECOMMENDATIONS

- ✓ It is necessary to provide information about possible BBFs to be produced and its production processes.
- ✓ Protocols about management and use of BBFs must be elaborated.
- ✓ Information about agronomic and environmental benefits produced by BBFS use must be available.
- ✓ Training actions to improve farmer awareness and to get advisor specialization on BBFs management and use are necessary.
- ✓ Legislation must be continuously harmonized and updated.