

## BBF VALUE CHAINS PAYS DE LA LOIRE

Results RUSTICA external stakeholder workshop 2 - Pays de la Loire

### SHORT SUMMARY FOR PRACTITIONERS

EN version

The second regional multi-stakeholder RUSTICA workshop for the Pays de la Loire region (France) was held on June 16, 2022 in Angers, with 19 participants. Everyone was involved in the different steps of the value chain of the bio-based fertilisers (BBF). This workshop aimed to communicate about the H2020 RUSTICA project: blends of future BBFs and regional needs, regulation at different levels for BBFs. It aimed to exchange with technological partners to understand better the processes and validating the stakeholders' regional value-chain map concerned by BBFs that was build previously. It also aimed to analyse in detail the boundaries and measures that can encourage investment in RUSTICA technologies by different actors (farmers, cooperatives, companies...). Finally, the stakeholders had to discuss on different configurations depending the actors of the value chain who would be able to do the waste treatment process. As results, the main configuration voted was where both fertiliser and waste treatment companies are the ones integrating RUSTICA technologies and processes. Nevertheless, a single company should not install all the 5 technologies on its site because of the cost. The RUSTICA technologies should be installed throughout the region.

### SHORT SUMMARY FOR PRACTITIONERS

NATIVE version

Le deuxième atelier régional multi-acteurs RUSTICA pour la région Pays de la Loire (France) s'est tenu le 16 juin 2022 à Angers, avec 19 participants. Tous étaient impliqués dans les différentes étapes de la chaîne de valeur des engrais biosourcés (BBF). Cet atelier avait pour objectif de communiquer sur le projet H2020 RUSTICA: les mélanges des futurs engrais bio-sourcés et les besoins régionaux, les réglementations autour des engrais bio-sourcés. L'objectif était également d'échanger avec les partenaires technologiques pour mieux comprendre les processus et validation de la carte de la chaîne de valeur régionale des acteurs concernés par les BBF qui a été construite précédemment. Il s'agissait également d'analyser en détail les freins et les leviers qui peuvent encourager l'investissement dans les technologies RUSTICA par les différents acteurs (agriculteurs, coopératives, entreprises...). Enfin, les parties prenantes devaient discuter de différentes configurations possibles selon les acteurs de la chaîne de valeur pouvant travailler sur le traitement des déchets et les process RUSTICA. La configuration choisie par l'ensemble des parties prenantes était celle où les fabricants des engrais et les entreprises de traitement de déchets sont les acteurs qui seraient à même de s'approprier ses technologies. Néanmoins, une seule entreprise ne devrait pas installer les 5 technologies sur son site en raison de leur coût. Les technologies RUSTICA devraient être installées dans toute la région.

Demonstration of circular  
bio-based fertilisers and  
implementation of optimized  
fertiliser strategies and value  
chains in rural communities

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### CONTEXT

On the 21<sup>th</sup> October 2021, The Chamber of Agriculture of Pays de la Loire Region (CAPDL) organized the first RUSTICA external multi-stakeholder workshop for the Pays de la Loire region in France. There were 19 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 policy makers.

### PROBLEM

The bio-based fertiliser value chain to make progress in the development of BBFs is in need of a better knowledge about regional fruit and vegetable production, enhanced connection among stakeholders, more insights on desirable properties of BBFs and potential customer demand, identification of most important factors favoring BBFs production and use.

### 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 on matching BBF blends with crops needs, but also on RUSTICA technologies and processes, identification of most relevant actors of the value chain who will integrate these processes.

### OUTCOME

1. In Pays de la Loire region, needs in fertiliser blends are different depending on the target production. In viticulture, farmers would need BBFs with a slow release of nutrients, increasing soil organic matter and soil carbon storage. For other crops such as vegetables, BBFs have to release nutrients for 4 to 6 weeks after application. These BBFs would have to stimulate soil life, but also ensure crop protection, soil biodiversity, and limited nitrate leaching and GHG emissions. Concerning the soil amendment, the future BBFs developed would have to get positive effect on soil resilience, crop protection and environmental parameters. Moreover, in Pays de la Loire, there is real demand on a liquid BBF due to the importance of soilless production in the region (for vegetables in particular).
2. Validation of stakeholders' roles in Pays de la Loire region.
3. Vote for the most relevant configuration in the value chain : fertiliser and waste treatment companies would be the best actor to integrate RUSTICA processes and be mainly involved in the BBFs production. These companies would be the more relevant actors to invest in RUSTICA technologies, without centralising all of them at the same place.

### PRACTICAL RECOMMENDATIONS

- Need to obtain more precise and detailed information on the IPR and commercialisation of RUSTICA technologies
- It is essential to achieve the economic and environmental sustainability of the value chain.
- Fertilisers and waste treatment companies seems to be the most relevant actor for investing in RUSTICA technologies, as it is too risky and difficult for farmers and cooperatives.