



## SHORT TITLE

Results 1<sup>st</sup> Pays de la Loire RUSTICA workshop with external stakeholders

### SHORT SUMMARY FOR PRACTITIONERS

EN version

The first regional multi-stakeholder RUSTICA workshop for the Pays de la Loire region (France) was held on October 21, 2021 in Angers, France, with 17 participants. Everyone was involved in the different steps of the value chain of the bio-based fertilizers (BBF). This workshop aimed to communicate about the H2020 RUSTICA project: objectives, expected results, technologies used, partners and other pilot regions. It also aimed to map the stakeholders of the Pays de la Loire region in order to create a network of local actors to co-construct the project. The actors were brought to reflect together on the needs of fertilizer users, the composition of future RUSTICA bio-sourced fertilizers, or future scenarios promoting the development of such a sector in the region. The results of the workshop resulted in a list of short, medium and long term objectives of the project, according to different degrees of priority. Main priorities rely on the identification of regional resources, the assessment of the process feasibility of RUSTICA technologies and a balanced price in order to replace mineral into organic fertilisers. The recommendations made by the participants emphasize the need to obtain more detailed information on the availability of fruit and vegetable residues and to ensure the economic and environmental sustainability of the BBF value chain. The main levers identified for the development of the BBF value chain are essentially the qualitative and economic (price) competitiveness of BBF compared to mineral fertilizers, the low environmental impact, the availability, stability and homogeneity of BBF and an adequate legal regulatory framework.

### SHORT SUMMARY FOR PRACTITIONERS

NATIVE version

Le premier atelier régional multi-acteurs RUSTICA pour la région Pays de la Loire (France) s'est tenu le 21 octobre 2021 à Angers, accueillant 17 participants. Chacun était impliqué dans les différentes étapes de la chaîne de valeur de la filière des engrais bio-sourcés (« *Bio-Based Fertilisers* » - BBF). Cet atelier avait pour but de communiquer autour du projet H2020 RUSTICA : les objectifs, les résultats attendus, les technologies utilisées, les partenaires et autres régions pilotes. Il s'agissait également de cartographier les parties prenantes de la région Pays de la Loire afin de créer un réseau d'acteurs locaux pour co-construire le projet. Les acteurs ont été amenés à réfléchir ensemble sur les besoins des utilisateurs d'engrais, la composition des futurs engrais bio-sourcés RUSTICA, ou encore les futurs scénarios favorisant le développement d'une telle filière dans la région. Les résultats de l'atelier ont donné lieu à une liste d'objectifs à court, moyen et long terme du projet, selon différents degrés de priorité. Les principales priorités reposent sur l'identification des ressources régionales, l'évaluation de la faisabilité du processus des technologies RUSTICA et un prix équilibré afin de remplacer les engrais minéraux par des engrais organiques. Les recommandations émises par les participants soulignent ainsi la nécessité d'obtenir des informations plus détaillées sur la disponibilité des résidus des fruits et légumes et d'assurer la durabilité économique et environnementale de la chaîne de valeur des BBF. Les principaux leviers identifiés pour le développement de la filière des BBF sont essentiellement la compétitivité qualitative et économique (prix) des BBF par rapport aux engrais minéraux, le faible impact environnemental, la disponibilité, la stabilité et l'homogénéité des BBF ainsi qu'un cadre légal et réglementaire adéquate.



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Results 1<sup>st</sup> Pays de la Loire region RUSTICA workshop with external stakeholders

### 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 17 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 such as project goal definitions, but also to analyze the regional market and the need of end-users (with BBFs), potential value chains, future scenarios for the development of BBFs. Project results are shared and discussed with the stakeholders all along the workshops.

### OUTCOME

1. List of long term and short term goals to be pursued by the RUSTICA network. In the short term: identification of the amount and quality of fruit and vegetable wastes available at regional level to produce BBFs; improving cooperation between upstream and downstream actors of the value-chain; getting balanced prices; enhancing this process to valorise final products instead of anaerobic digestion . In the long term: reuse biowastes into a circular model in agriculture; change the practice of the main actors of the value chain and, in a more general way, raise awareness of bioresources issues from the producer to the consumer.
2. Detailed overview of stakeholders in the Pays de la Loire region.
3. Main functions required for BBFs are the increase of organic matter in the soil and the control of release of nutrients needed. It is also important to decrease chemicals residues and sanitary risks.
4. Social, political, technological, economic and environmental factors related to BBFs development and use were scored on relevance and interlinked.

### PRACTICAL RECOMMENDATIONS

- ✓ Need to obtain more precise and detailed information on the availability of residues from the fruit and vegetable sector.
- ✓ It is essential to achieve the economic and environmental sustainability of the value chain.
- ✓ Main drivers for the future of BBFs were identified: qualitative and economic competitiveness, low environmental impact, competitive price compared to current fertilisers; development of effective technology; availability of BBF (quantity); stability and homogeneity of BBFs; clear legislation and regulation; measures supporting circular economy