

RUSTICA PROJECT IN A NUTSHELL

Rationale RUSTICA

Main relevant environmental problems identified in crop productions:

- Nutrient pollution in soils due to surplus application of N/ha and P/ha.
- Soil degradation.
- Food waste: 70 million tonnes of dry matter of field crop residues.

We need to:

- Invest in recovery of nutrients from food waste.
- Replace mineral fertilizer with bio-based alternative.

RUSTICA expected outcomes

- Replace non-renewable mineral fertilisers, hence reducing external dependence and risks related to depletion.
- Balance nutrient concentrations between or within regions, thus increasing resource efficiency.
- Reduce the environmental impacts linked to the dispersion
 of nutrients present in waste flows, to the emissions of greenhouse
 gases, or to the production of fossil-based fertilisers.
- Develop new business models creating value from agri-food, fisheries, aquaculture or forestry by-products.
- Support the implementation of Sustainable Development Goals.

What is RUSTICA project?

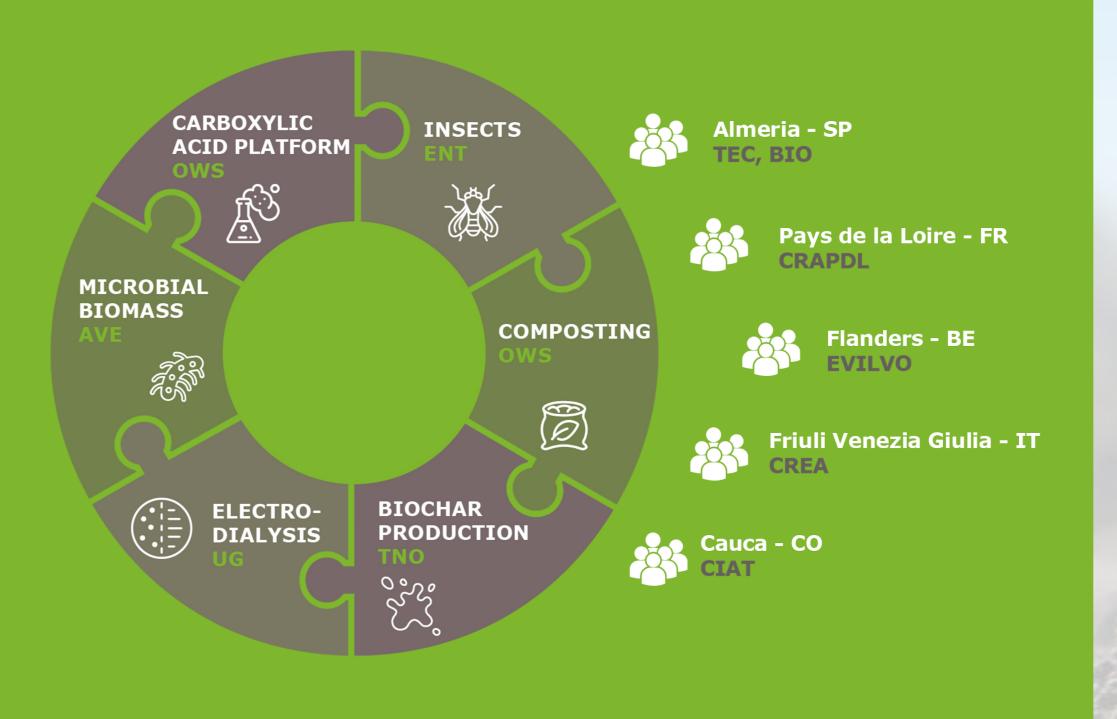
RUSTICA will:

- Foster the technical validation, demonstration and implementation of bio-based fertiliser and soil improvement production techniques.
- Focus on waste from the fruit and vegetable agro-food system.
- Close nutrient cycles on a regional level.
- Develop of economically viable and environmentally sustainable alternatives to mineral fertilisers with the same or improved agronomic value.

RUSTICA work plan

1 Technological development

- Optimise and demonstrate technologies for nutrient recovery from F&V residues as bio-fertilizer.
- Demonstrate the integration of technologies to reach a combined nutrient recovery of more than 90%.
- Demonstrate the production of fertilizer blends adapted to local demand.



EU level multi-actor approachz

- Regional workshops.
- EU and global workshops.

Market development

- Market analysis.
- Techno-economic analysis.
- Legal analysis.
- Environmental and social LCA.



