



Transforming Organic Substrates Into Valuable Agronomic Inputs

RITTMO supports agri-food industries, waste managers and bio-based manufacturers by:

- Treating, transforming and upgrading organic substrates (digestates, plant residues, manures, biowaste, industrial co-products).
- Converting by-products into **fertilising materials, biostimulants, or soil improvers** compliant with EU regulatory frameworks.

Scientific & process engineering expertise:

- Integration of process engineering, soil microbiology and plant nutrition.
- Design of efficient valorisation pathways focused on nutrient recovery and carbon preservation.
- Development and evaluation of processes: composting, anaerobic digestion, pyrolysis, stripping, solid–liquid separation, and other recovery technologies.

Agronomic validation & performance testing:

- Controlled laboratory studies and field trials across France and Europe.
- Assessment of nutrient release, crop response, soil impacts and environmental performance.
- Advanced analyses: root architecture, hydroponic screening, photosynthetic efficiency, enzymatic markers, and molecular indicators (RT-qPCR, qPFD).

Regulatory support for market access:

- Compliance with EU Regulation 2019/1009, French NF standards, Marketing Authorisation dossiers and mutual recognition procedures.
- Preparation of technical documentation for innovative fertilising products and substrates.

Value delivered:

- End-to-end support—from concept to field deployment.
- Turning constraints into opportunities through **circular, low-carbon and economically viable** valorisation of organic resources.

