

## In a Nutshell






FERTITEC is committed to promoting competitive fertilisers that not only benefit agricultural yield but also promote a circular economy model, aligning with the EU's strategic focus. We seek to make a tangible impact at national and regional levels, by bringing our best available fertilising techniques to the fore in several EU countries, as well as extrapolating our outcomes to the African Union. Overall, FERTITEC strives for the adoption of our alternative fertilising products and the wider transformation of the agricultural sector globally.



## FERTITEC's Objectives

- 1 Map existing technologies for recycling / recovering nutrients for alternative fertilising products, identify case studies of existing installations and study their current market status and potential
- 2 Develop the FERTITEC Knowledge Exchange Platform and establish the FERTITEC Stakeholders' Network and Experts Panel for knowledge sharing and advice towards practical uptake of alternative fertilisers
- 3 Assess technical aspects, environmental and socio-economic impacts as well as scalability potential of case studies and support adoption
- 4 Determine Best Available recovery Techniques for alternative fertilising products (BATs) and offer capacity building to key actors to foster uptake

## WHO WE ARE

	<b>RISE – Research Institutes of Sweden</b> www.ri.se	Sweden
	<b>Q-PLAN INTERNATIONAL ADVISORS</b> qplan-intl.gr	Greece
	<b>CETENMA</b> www.cetenma.es	Spain
	<b>Natural Resources Institute Finland - Luonnonvarakeskus</b> www.luke.fi	Finland
	<b>IUNG – Institute of Soil Sciences and Plant Cultivation</b> en.iung.pl	Poland
	<b>AgroApps</b> agroapps.gr	Greece
	<b>EAFF - Eastern African Farmers Federation</b> eaffu.org	Kenya

**VISIT**  
[fertitec-project.eu](http://fertitec-project.eu)

**CONTACT US**  
info@fertitec-project.eu

### PROJECT ID

**PROJECT NAME:**  
Fertiliser product recovery from secondary raw materials using best available techniques

### FOLLOW US

-  Fertitec Project
-  FERTITEC Project
-  @fertitecproject
-  FERTITEC Project

**GRANT AGREEMENT No:** 101181513  
**START DATE:** 1st January 2025  
**DURATION:** 36 Months  
**BUDGET:** €1,975,338.98

Funded by the European Union under GA no. 101181513. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or REA. Neither the European Union nor the granting authority can be held responsible for them.



# FERTITEC

INNOVATIVE RECOVERY TECHNIQUES  
FOR ALTERNATIVE FERTILISERS










## FERTITEC's Approach

- Analyse, systematise and spread knowledge and information about available technologies for recovering nutrients from secondary raw materials
- Foster multi-actor collaboration of stakeholders through a Stakeholders Network of the relevant value chains at EU and international level
- Map state-of-the-art of at least 150 available technologies and identify and study 30 case studies of existing installations in the EU and African Union, from several secondary resource streams
- Assess their technical, environmental and socioeconomic aspects and conclude, through a multi-actor approach with our Experts Panel, on at least 12 Best Available Techniques in terms of functionality, reducing emissions and environmental impact, to aid in informed decision making
- Develop the EcoFerti tool, an AI-powered tool offering personalised recommendations to farmers for the optimal use of the Best Available Technologies identified and studied by FERTITEC
- Develop the FERTITEC Knowledge Exchange Platform on recycling/recovering nutrients for fertilising products from secondary raw materials, a hub for practical knowledge sharing, stakeholder engagement and informed decision making
- Develop business models and policy recommendations establishing roadmaps for wide uptake of alternative fertilisers both in Europe and Africa

## FERTITEC's Secondary Resource Streams

SIDE STREAMS	MAIN RAW MATERIALS	SECONDARY RAW MATERIALS
 <b>Agricultural Biomasses</b>	→ Livestock manure and slurry, crop residues, waste feed, agricultural processing residues	→ Digestate, composted manure or crop residues, ash from biomass combustion, biochar from pyrolysis, struvite or ammonium sulfate from manure processing
 <b>Urban Wastewater</b>	→ Sewage sludge, wastewater, landfill leachate	→ Dewatered sludge, digested sludge, biochar from sludge pyrolysis, precipitated phosphorus salts
 <b>Municipal Biowaste</b>	→ Household food waste, restaurant food waste, green landscape waste, supermarket food waste	→ Digestate, compost, biochar, hydrolyzed biowaste, ash from incineration of biowaste
 <b>Industrial side-streams</b>	→ Food industry by-products, wood industry by-products, mining by-products, chemical industry by-products	→ Biochar, ash, gypsum
 <b>Blue Biomasses</b>	→ Fish and shellfish by-products, seaweed and microalgae residues, aquaculture sludge, eutrophication biomass jag	→ Digestate, compost hydrolyzed waste, biochar

## European Union & African Union Cooperation

