

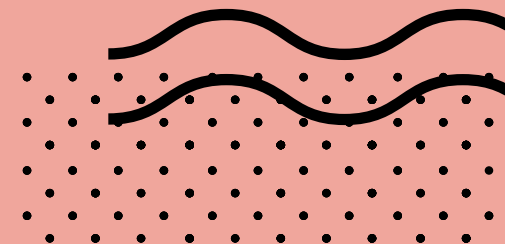
WalNUT: Redesigning the value and supply chain of nutrients

[CENTRO
TECNOLOGICO]

CARTIF

Lidia Garrote Moral (Fundación Cartif)

17th December 2025 - **Webinar: The WalNUT Platform**



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101000752.

CE-RUR-08-2018-2019-2020 (sub-topic D): Closing nutrient cycles

Scope D: Bio-based fertilisers from waste water and sewage sludge

WalNUT is a EU funded project that aims to **redesign** the value and supply chain of nutrients from **waste water** and brine, creating innovative solutions for **nutrient recovery** while contributing to **circular economy** and sustainability in the EU agricultural sector.



Start: September 2021

End: February 2026

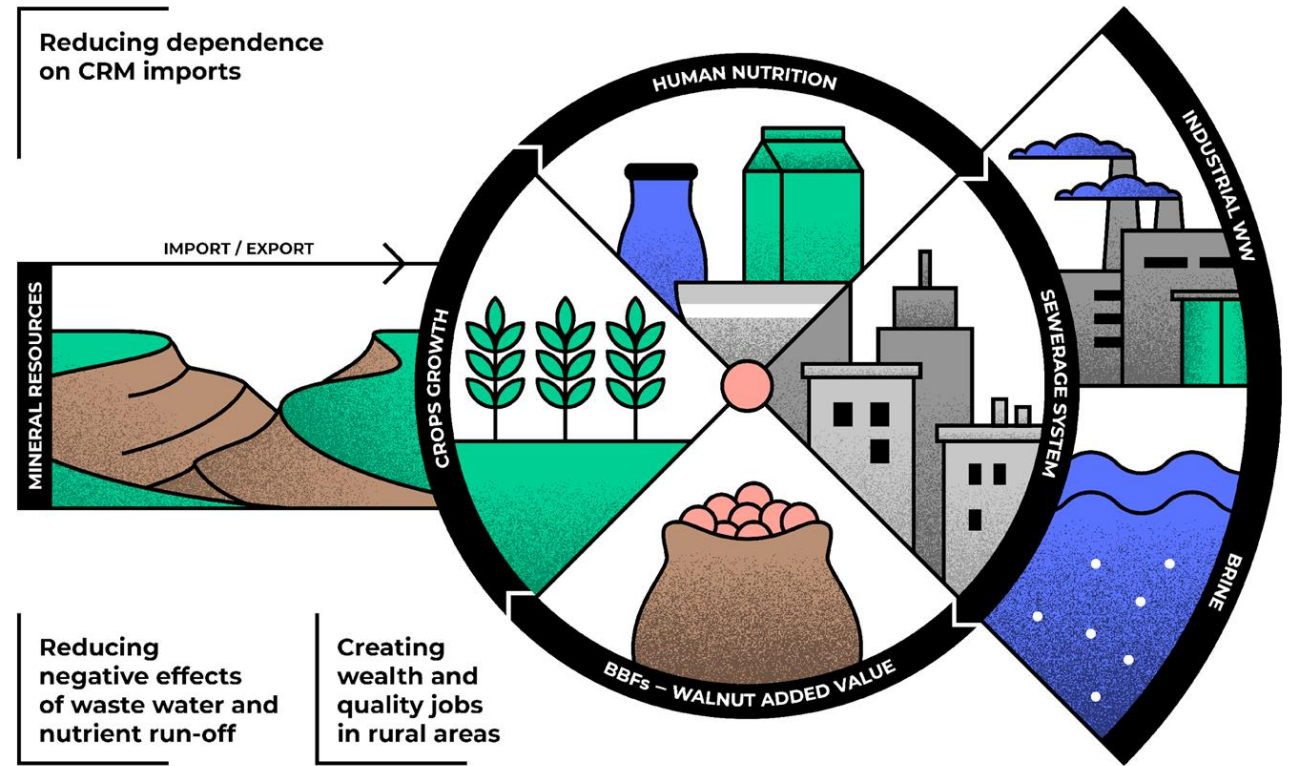
Duration: 54 months



Closing Waste water cycles for NUTrient recovery

Main objective

Nutrient recovery from wastewater to produce bio-based fertilizers for agriculture in a close loop

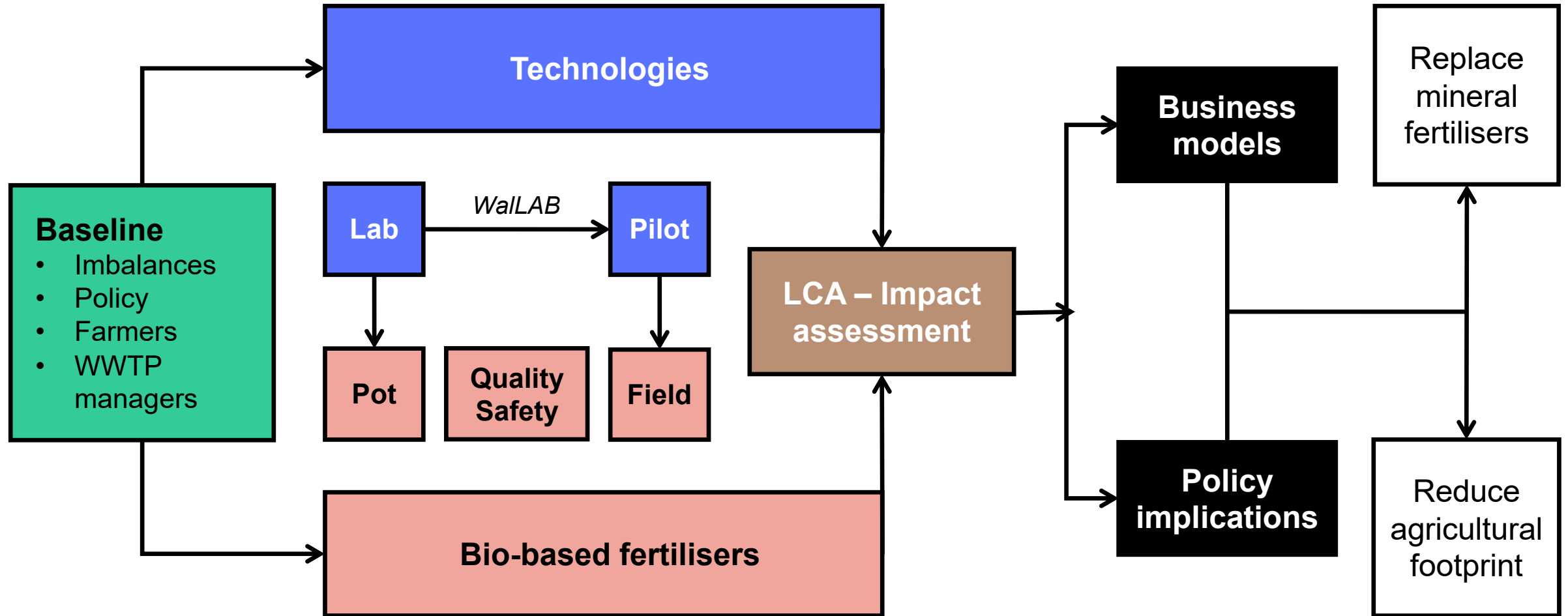


WalNUT family

PROJECT
COORDINATOR

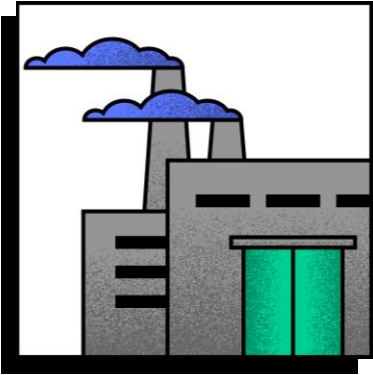


WaINUT Methodology



PILOTS

SPAIN (centre)

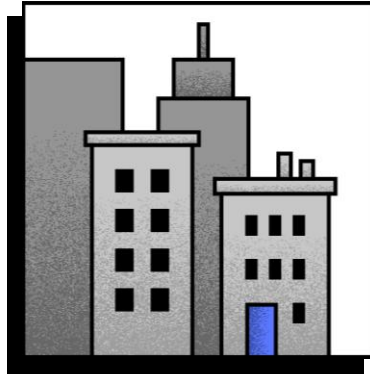


RESPONSIBLE PARTNER
VEOLIA and CARTIF

TYPE OF FEEDSTOCK
Industrial WW

NUTRIENTS RECOVERED
N, P

BELGIUM

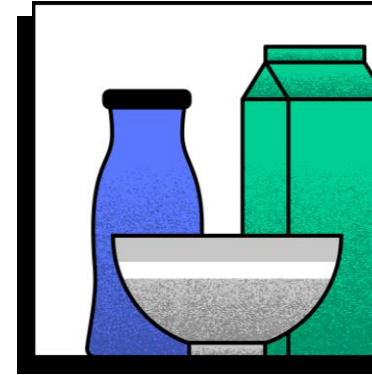


RESPONSIBLE PARTNER
Aquafin NV

TYPE OF FEEDSTOCK
Real municipal WW /
Urban WW

NUTRIENTS RECOVERED
N, P

HUNGARY



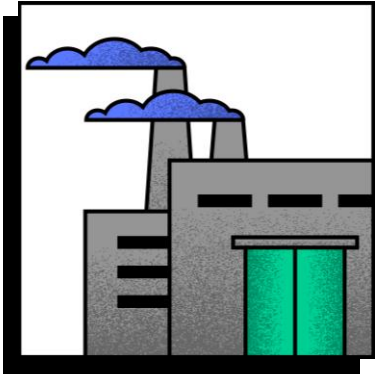
RESPONSIBLE PARTNER
3R-BioPhosphate Ltd.

TYPE OF FEEDSTOCK
Dairy and cheese dairy
(acid whey)

NUTRIENTS RECOVERED
N, P, K, C and micronutrients

PILOTS

GREECE



RESPONSIBLE PARTNER

National Technical University
of Athens (NTUA)

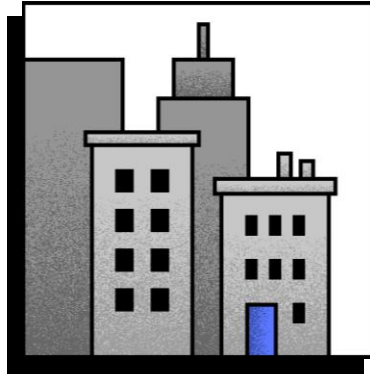
TYPE OF FEEDSTOCK

Seawater desalination brine

NUTRIENTS RECOVERED

K – KCl; Mg – Mg(OH)₂

SPAIN (Northwest)



RESPONSIBLE PARTNER

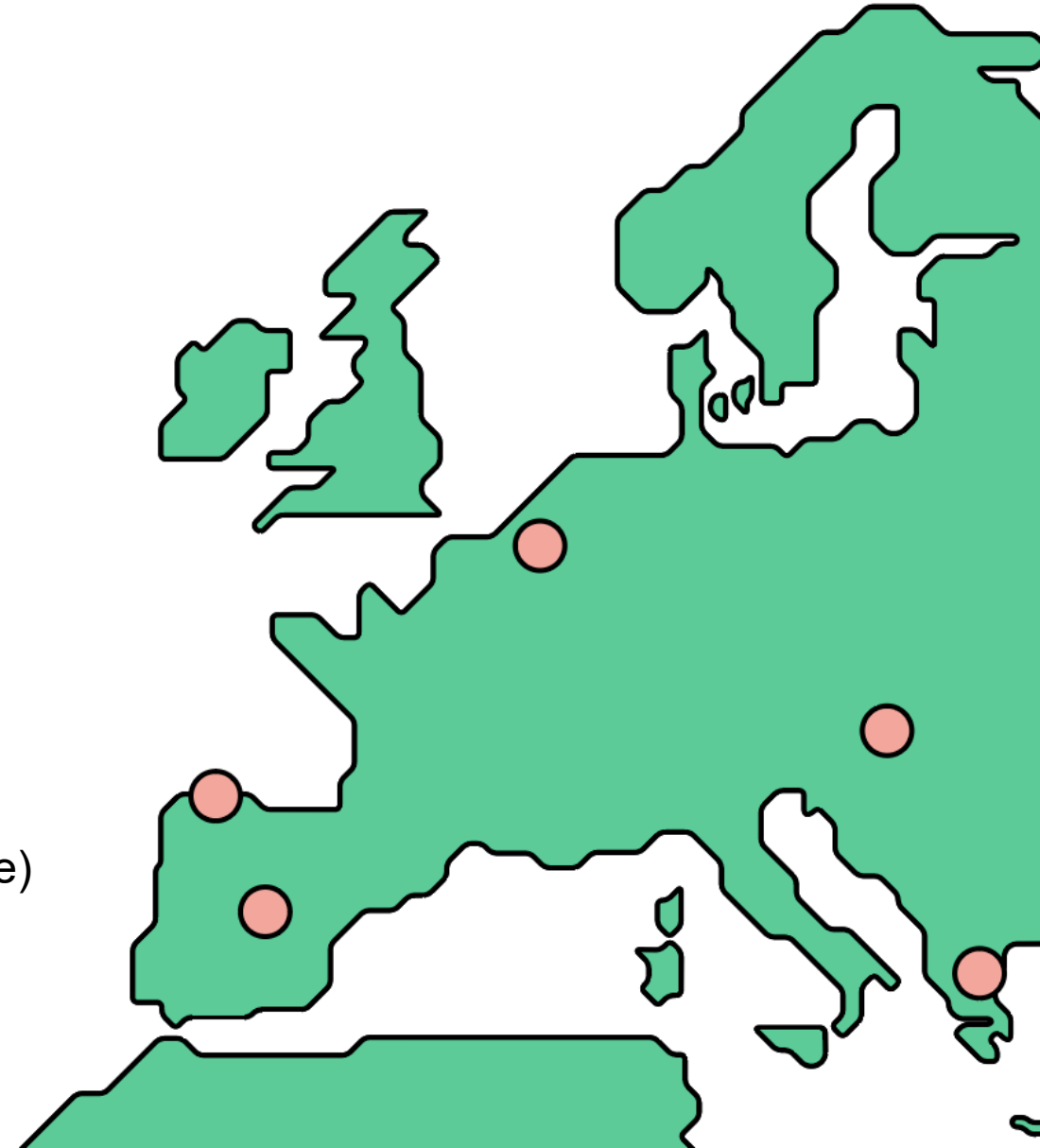
CETAQUA

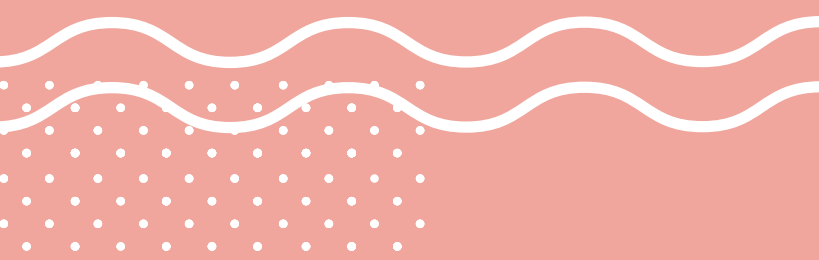
TYPE OF FEEDSTOCK

Reject water

NUTRIENTS RECOVERED

N (as ammonium nitrate)





Thank you • Gracias • Grazie • Merci
Obrigado • Ευχαριστώ • Tak • Kösz • Bedankt

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Agrifood and Processes Division. CARTIF



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