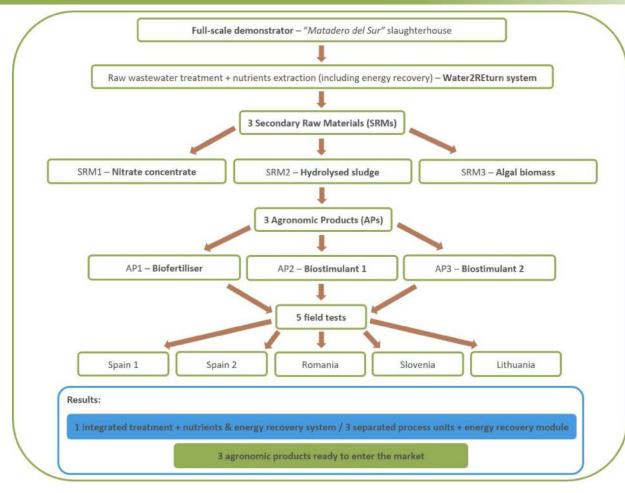
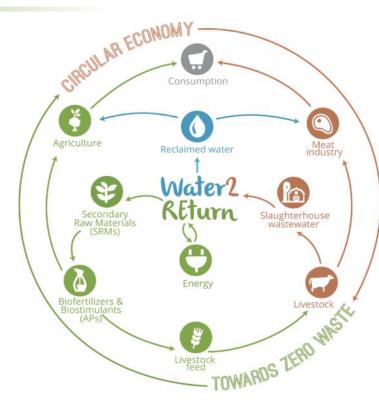
Water2REturn in a nutshell



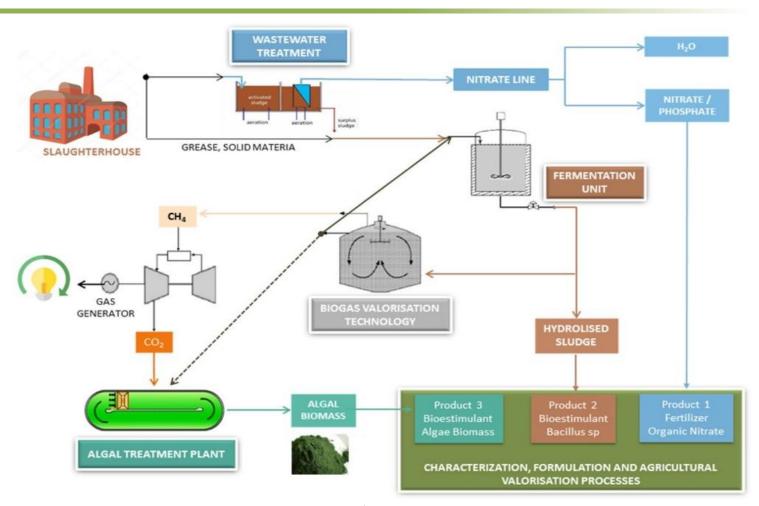


Water2REturn proposes an integrated solution for slaughterhouse wastewater treatment, as well as for the recovery of nutrients with high market value in the agricultural sector. This Circular Economy approach turns wastewater treatment facilities into "bio-refineries".





Water2REturn system



Run4Life@IFAT - Stakeholder Engagement Event, May 17th, 2018, Munich (Germany)

Page 2

WATER LINE

SRM1: Nitrates concentrate
AP1: Organic fertiliser based on
nitrates

SLUDGE LINE

SRM2: Hydrolysed sludge AP2: Biostimulant based on Bacillus sp. biomass

ALGAE LINE
SRM3: Algal biomass
AP3: Biostimulant based on algal
biomass



What will be done? Which the objectives are? When it will be achieved?

- 1 integrated treatment + nutrients & energy recovery system / 3 separated process units (water line, sludge line, algae line) + energy recovery module.
 - Demonstrator treatment capacity: 50 m³ wastewater / day.
 - Demo site: "Matadero del Sur" slaughterhouse near Seville, Spain (wastewater daily flow: 150 m³).
- **Product valorisation for agronomic use** formulation and optimisation of the 3 APs, field tests for agronomic efficiency, APs manufacturing.
- Environmental, economic, social and risk assessments.
- End users need and market uptake at EU level stakeholders engagement and consultation, market potential, recommendations to EU and national regulators, business plan implementation.
- Communication, dissemination and exploitation.

Water2REturn objectives





Demonstrator implementation at real

Fertilisers and biostimulants manufacturing





Reduction of the environmental adverse effects of nutrient emissions and wastewater discharge

Reduction of landfilled waste





Energy self-sufficiency of

Promotion of a wide and fast market slaughterhouses wastewater treatment uptake of Water2REturn processes and products

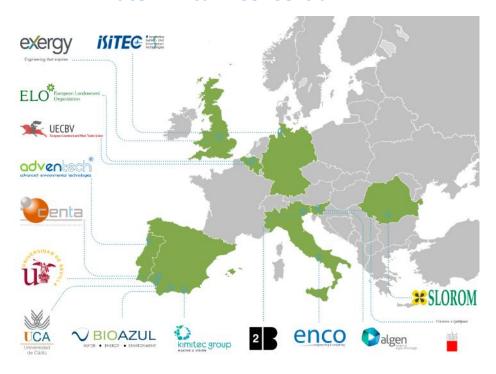
Water2REturn timing

- Duration: **01/07/2017 31/12/2020**.
- Demonstrator installation and start-up: from autumn 2018.



Who makes Water2REturn possible? Whom is Water2REturn for?

Water2REturn consortium



Initial target customers:

Slaughterhouses industry → *early adopters.*



Meat processing industry.



Bioagronomic products' distributors.



Agricultural sector \rightarrow conventional and organic farmers.











www.water2return.eu



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