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The research was undertaken as part of the project called ‘SYSTEMIC: Systemic large-scale eco-innovation to advance circular economy and mineral recovery from organic waste in Europe. [https://systemicproject.eu/](https://systemicproject.eu/)

This project has received funding from the European Union’s H2020 research and innovation programme under the grant agreement No: 730400. SYSTEMIC started 1 June 2017 and will continue for 4 years.
The following SYSTEMIC dissemination materials were completed between 1 October 2019 and 31st May 2020

Newsletter issue 4 (October 2019)

Newsletter issue 5 (March 2020)

Groot Zevert plant poster illustrating the technology, process and products
Updated SYSTEMIC demonstration plant factsheets

Explore the optimal operation of the SYSTEMIC demonstration plants, including updated monitoring data, status of construction and commissioning performance. Additionally, the factsheets feature descriptions of elements specific to each plant, such as:

- the Biorefinery system for processing of the FFRs solid fraction of digestate (Nexa Power)
- the system for processing of the liquid fraction of digestate via vacuum evaporation (Nexa Power)
- the anaerobic digestion process, including the side stream N-stripping unit (Nexa Power)
- the anaerobic digestion process, including the FilterPlus process (Nexa Power)
- the concentrated anaerobic digestion and nutrient recovery system description data (Nexa Power)

SYSTEMIC Case workshop – presentations available online

The SYSTEMIC project organised a workshop on anaerobic digestion, energy and nutrient recovery from livestock manure and waste, which took place on 30-31 October 2019 in Ghent, which featured an overview of the largest biogas plant in Belgium, AI-Powered. The workshop discussed:

- the potential of biogas plants as producers of renewable energy and nutrients
- nutrient mass flow analysis in digestion, treatment processes
- nutrient fertilisation of livestock feed; and
- nutrient recovery and fertiliser quality

Explore the presentations from the event, available online.

Fill in our survey on treatment of digestate and spread the word!

Help us put together information on digestate treatment so we can distribute a database and calculation tool providing core research analyses of existing technologies. Fill in our survey.

The subitisation tool will be made publicly available at the end of the SYSTEMIC project in 2023.

You can fill in the survey in Dutch, English, German, French, Spanish and Italian. Please complete the survey and answer as correctly as possible. Your participation is essential.

Aquaculture opens its doors to visitors

The SYSTEMIC demonstration plant Aquaculture held its annual open doors day on 25 September 2020, giving a first-hand, in-depth look at the Nutrient Recovery and Re-use – and Anaerobic Digestion – carried out at the plant. In particular, biowaste such as feed from the production and emergency cycle is processed through two anaerobic digesters, treating livestock manure and producing robust fertilisers, including digestate and ammonium sulphate. This is an important step in the process.
Green Mineral Mining Centre of SYSTEMIC demo plant opened by Queen Máxima

The Green Mineral Mining Centre of Systemic demo plant officially opened by Her Majesty Queen Máxima of the Netherlands on 4 September 2014. The GVM plant works to convert fly ash into large mineral concentrates, previously phosphorous and organic and improves.

The method to separate phosphates was developed by the SYSTEMIC project partners. Systemic Environmental Research.

In April 2015, Systemic started monitoring GVM's product quality, energy consumption, energy and chemicals consumption, as well as the disinfection of the individual steps of the process. The results of the plant's performance and benefits of the implemented processes will be published soon.

SYSTEMIC welcomes new associated plants

SYSTEMIC has recently welcomed new large plants as associated plants, giving them the opportunity to exchange experience on nutrient recovery in business systems with the project's ecosystem. Plants and researchers become part of the project and can exchange ideas.

The new associated plants are:

- Stahlkugel, Germany
- JRA, Belgium
- Schelling, Finland (Gammex)

To express interest in becoming an associated plant, fill in this form and send it to: info@systemic.euroallecropping.com.

[Image of Queen Máxima and others at the opening ceremony]

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Newsletter issue 5 (March 2020)

SYSTEMIC - Systemic large-scale innovation to advance the circular economical mineral recovery from organic waste from Europe - is a project funded by the European Commission, under its Horizon 2020 programme. It aims to demonstrate the economic viability of recovering and recycling nutrients from biowaste, such as animal manure, food waste and sewage sludge, in agricultural production. The project involves 15 consortium partners and was launched in June 2017.

New date for SYSTEMIC workshop!

28 October 2020
10.00 - 17.00
Brussels, Belgium

Due to the ongoing measures regarding COVID-19, the event has now been moved to 28 October. You will therefore need to re-register.

Register here.

In this workshop, SYSTEMIC will bring together policy makers, extensions, business owners and end users to discuss how to develop an enabling framework to boost the development and investment in this sector. This SYSTEMIC workshop will discuss ways in which European policy frameworks can best enable the financial viability of nutrient recovery from waste in Europe. The European Union’s Commission on the Circular economy has recognised nutrient recovery and its use (NRE) from waste as a crucial element in advancing the Circular economy. However, whilst great strides are being made on the development of technology to enable nutrient recovery, regulatory and governance frameworks, the financial viability of nutrient recovery remains a major stumbling block to its expansion.

In this first session, participants will be introduced to the concept of the SYSTEMIC project. They will then have the opportunity to discuss freely with other participants and receive feedback from experts.

Second SYSTEMIC Living Lab meeting

Due to the ongoing measures regarding COVID-19, the event has now been moved to 30 September. Therefore, the living lab meeting will be held on 30 September and 1 October. The meeting will take place in Brussels, Belgium. The meeting will be open to the public and will be held on the same day as the workshop.

As usual, the SYSTEMIC Living Lab meeting will bring together the project’s ecosystem, partners and stakeholders.

Presentations and videos will be made available for the participants on the following topics:

- Business case evaluation and the uptake of SYSTEMIC
- Experiences from Demonstration sites

The planned site visit will be rescheduled in the autumn.

Watch the video of the demo demonstration plant and find out how, thanks to their participation in SYSTEMIC, they have expanded and improved their nutrient recovery technology, leading to increased nutrient recovery and higher productivity and reduced costs for stakeholders and operators.

The resulting biofertilizers from this process can restore the nutrient balance in the soil and reduce environmental pollution, as well as increase yields in greenhouse. The system's technology enables the production of the so-called “biofertilizers” with low-oxygen content and increased nitrogen properties, which can be used as an alternative material in the livestock and paper industries.

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➢ Groot Zevert plant poster illustrating the technology, process and products (English and Dutch)