This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement 817992.

MARIGREEN

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E-Newsletter N□3

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*Smart **strawberries** crop fertilized with **fish waste**!*

Aquaculture residues as fertilizers and biostimulators

The **MARIGREEN** project aims at valorizing residual materials from the BLUE sector, in different horticultural crops (fruits, vegetables, flowers, etc.).

At the **University of Agronomic Sciences and Veterinary Medicine (USAMV)** an experimental field was established with strawberries in containers, on raised benches, that are fertilized with fish waste**.** Different types of fish waste, provided by NORSOK in collaboration with the Norwegian SME partners have been taken in consideration for our trials.

Fishbone powder from cod and longfish, together with pellets from fish and algae fibers have been mixed in the substrate in order to provide the required nutrient for strawberry plant growth and development. Being a long term trial, conclusive results will be obtained in the second year of strawberry plant growth.

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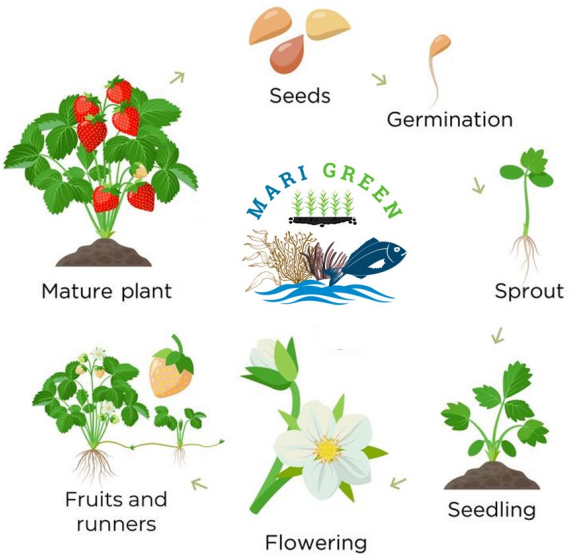
Smart strawberry crops

Strawberries are widely appreciated for their taste, aroma, texture, and sweetness, but also for their health benefits. Due to their perishable texture, these fruits must be consumed as soon as possible after harvesting. Therefore, enhanced production technology should be developed in order to maintain their quality. Nowadays, strawberries can be cultivated through smart technologies by reducing transport time from the producer or farmer to the final consumer, and also saving natural resources (soil, water, heat, etc.).



In order to obtain adequate plant growth and development, with high fruit quality, strawberries must absorb sufficient macro and micronutrients to meet their demand. The main macro and micronutrients that they need are N, P, K, Mg, S, Ca, B, Cu, Fe, Mn, Zn, etc.

Aquaculture residues represent a great resource of N, P, and other different minerals. So, depending on the type of substrate used for the desired plants, the phenomenological crop stage, and the estimated production, different doses of organic fertilizer from fish residues could be applied.

www.marigreen-project.eu.

www.twitter.com/MariGre04385907

https://www.researchgate.net/project/MARIGREEN-Sustainable-utilization-of-MARIne-resources-to-foster-GREEN-plant-

www.linkedin.com/company/marigreeneu

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Who we are and contact information

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