



## FOR SUSTAINABLE AGRICULTURE APPLICATION TO FLOATING SYSTEMS

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### OBJECTIVES AND APPLICATIONS



## GOALS:

The objective is to develop a sustainable solution for agriculture with "floating systems", based on the use of PAV compost even at 100%, therefore from renewable sources.

It is a simplified system based on a substrate that has strong buffering power and has available nutrients.

- Another objective is organic production with soilless techniques, with the use of PAV compost as a substrate in accordance with Regulation (EU) 2018/848; the market is still waiting for a successful organic production technique for soilless.

To accelerate seed germination and plant development, a liquid BIOfertilizer has been added for nutrient integration. The BIOfertilizer is still in the optimization phase.

## APPLICATION OF PAV COMPOST

The PAV compost substrate was tested in floating systems for aromatic plants (parsley, basil, rocket, ...) and radicchio (Figures 2-3). It is also suitable for watercress.

The main results obtained with PAV compost as a substrate (100%) are:

- The Substrate has a minimal requirement for further external fertilization;
- The production (yield and quality) is comparable with traditional floating systems: peat-based substrate and mineral fertilization; tests carried out with parsley, basil, rocket and radicchio.

*Figure 1. Application of PAV compost as a substrate for floating systems: preparation of the tanks*



Figure 2(a). Application of PAV compost as a substrate for floating systems:

a) parsley



Figure 2(b). Application of PAV compost as a substrate for floating systems

b) basil

