



FOR SUSTAINABLE AGRICULTURE APPLICATION TO FLOATING SYSTEMS

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*

