

**Cleanslurry - Animal slurry hygienization for use in industrial horticulture.**

**ABSTRACT** | Cleanslurry will develop a simple and low cost solution for animal slurry hygienization that do not generate any new waste and improve the fertilizer value of slurry to promote some new utilization and provide new fertilizers for industrial horticulture. Namely, solutions for odor and ammonia emissions control will also be set-up and optimized: a biofilter using raw materials will be set up. The sub-product resulting from biofilters will then be reused as soil amendments. Our approach will be based on 3 pillars:

- a) Hygienization of AS by acidification and by alkalization including acid scrubber or biofilter to control gaseous emissions.
- b) Soil application of treated AS and subproducts from the biofilter as organic fertilizers in industrial horticulture and assessment of impacts on the N, P and C dynamics.
- c) Evaluation of the economical sustainability of the management chain

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