

Animal Life Plus

DYNAMIC AGRO CLEANING

Healthier and better conditions for animals, people and the environment



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Research Question/s

Modern pig and chicken barns are struggling with environmental problems, inside and outside.

Smell, Ammonia and **Dust** are threatening the licence to produce.

Available solutions only cover the outside. In the barns nothing really changes (end of pipe solutions).

- Bad climate cause lung problems (human and animals)
- Smell is increasingly an issue for neighbours
- Air scrubbers not always work expected/according to specifications (capacity to low, energy consumption, output NH₃ to high)
- Dust carries "trouble"

Results and Conclusions

Effect of continuous microbiological cleaning inside barns

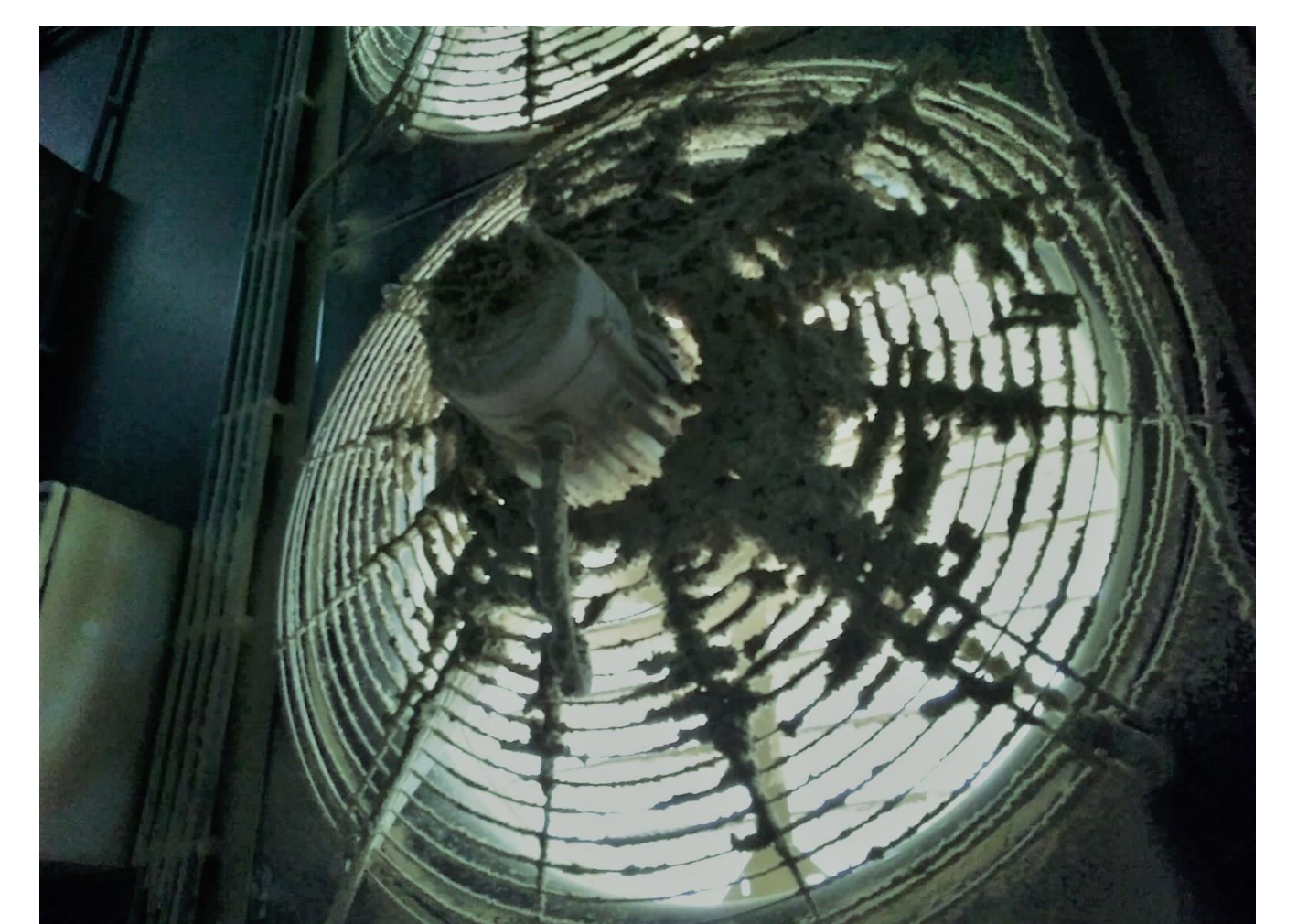
- Dust levels in chicken barns are much lower. The dusts sticks together.
- Ammonia concentration inside barns is much lower.
- Internal climate improves, air scrubbers work much more efficient.



• Dust inside chicken barn

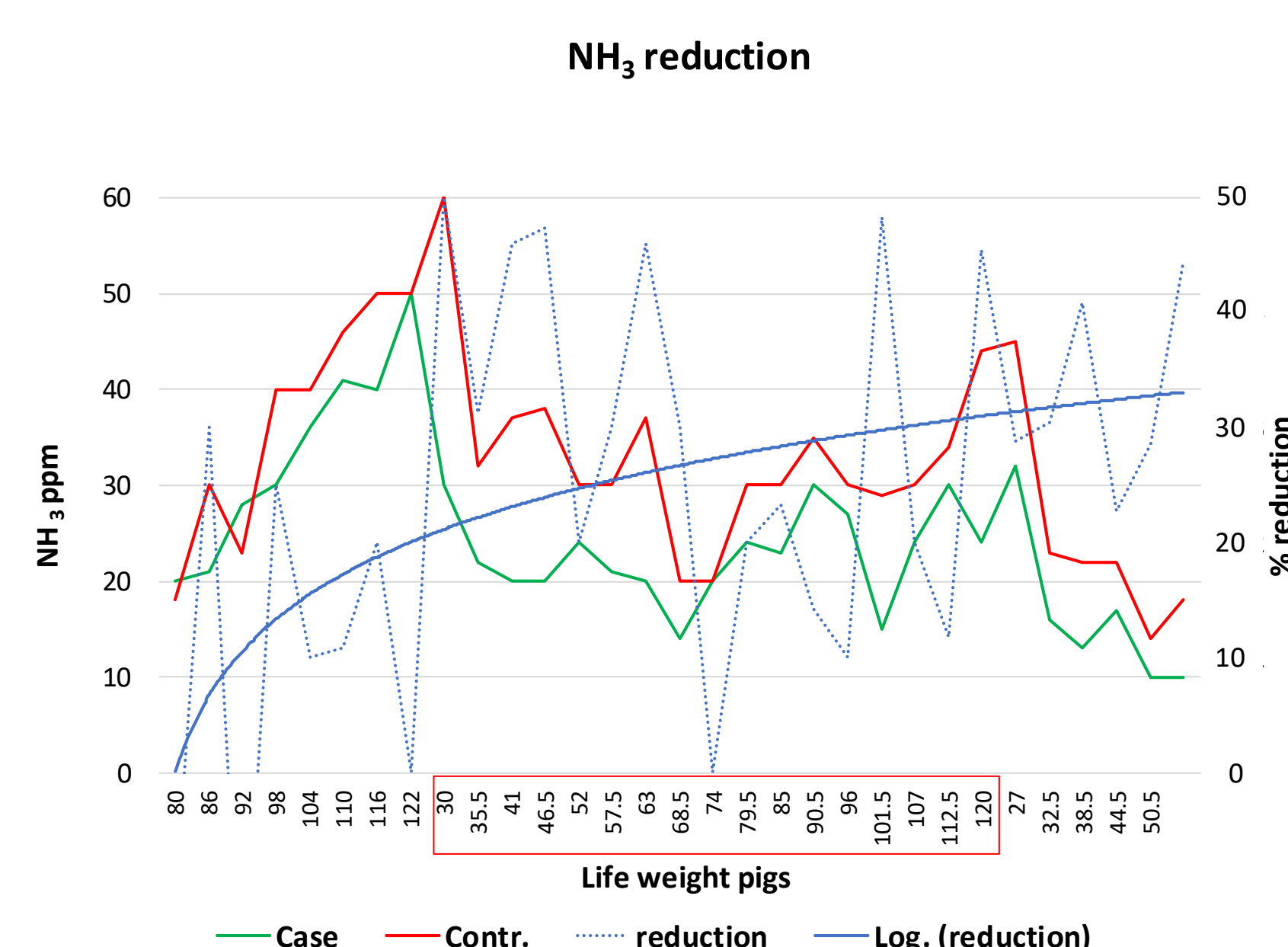


- Without ALF: all dust out
- With ALF: dust sticks



Graph 1: Independent measurements only

After 2 rounds, NH₃ level drops up to 30 %. Typically, a plateau is reached in between 6-9mth after initial use, indicating a buildup of microbial activity and decrease in dirt/unwanted biological load in the stable



Data and Methods

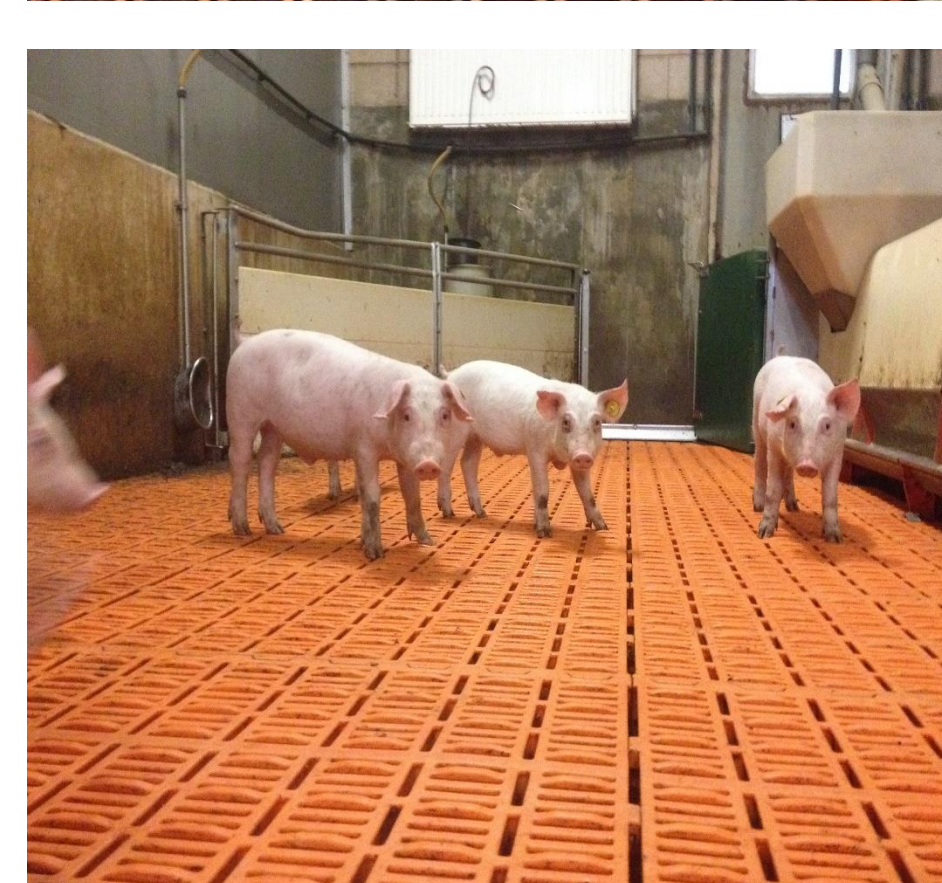
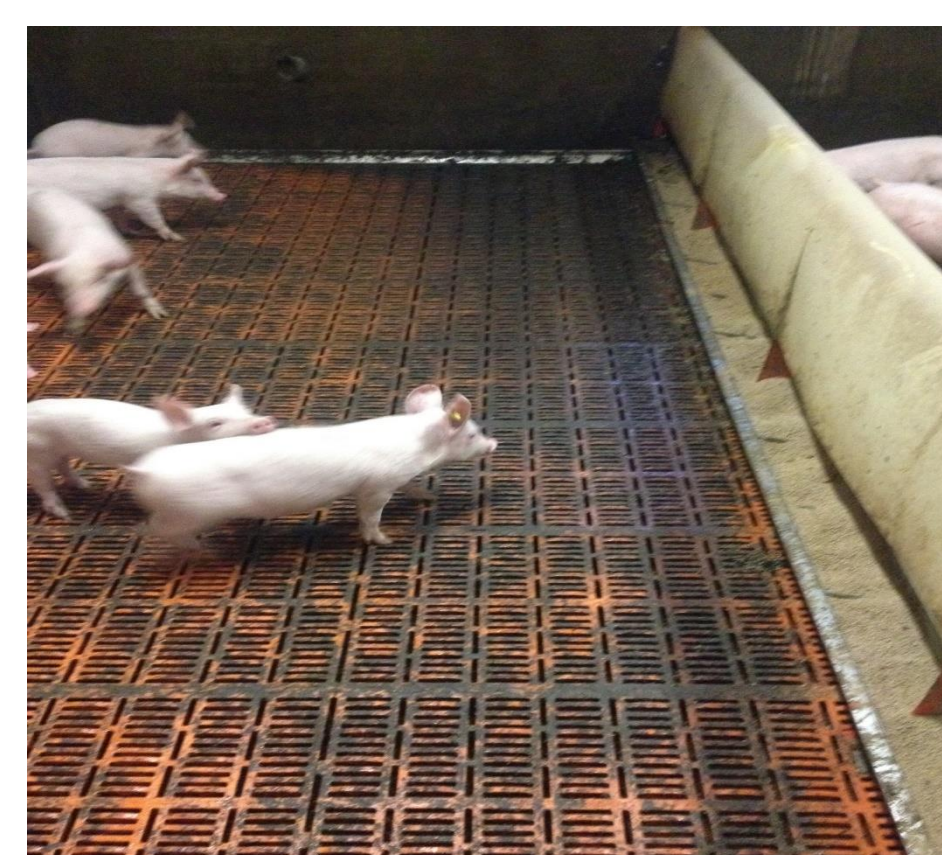
Inside the barn

With a proprietary concept comprising automation and specific microbiological cleaning liquid (patent pending) NH₃ and dust levels are reduced. Tests have proven reduction up to 75 % NH₃ is possible, depending on stable characteristics management system. Also improved working of air scrubbers is seen.

A fully automated stable cleaning system is fogging 4 to 8 times a day for 30 seconds a mixture of spores selected for safety and effectivity.

Cleaning

Cleaning time of the barns is much shorter after using probiotics of animal Life Plus. This saves time, energy and slurry costs.



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