

Pernilla Audibert, PhD CTO & Co-Founder July 28, 2020



BOND IS THE WORLD'S FIRST PET FOOD COMPANY THAT'S AN

ALLY FOR ALL ANIMALS



NO ANIMALS HARMED

Proteins harvested without slaughter



SAFE

Reduced risk of foodborne illness for pets and pet parents



SUSTAINABLE

Less resources required to produce primary ingredients

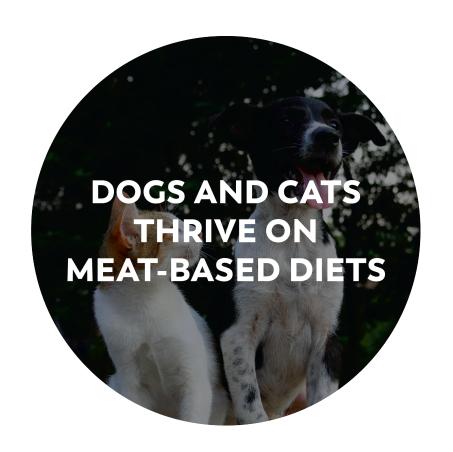


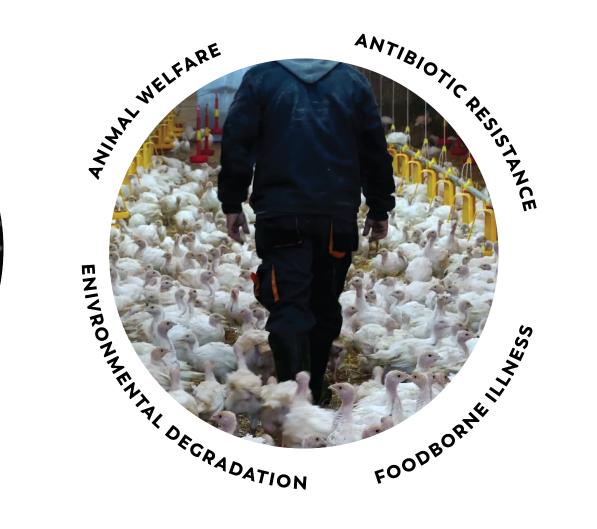
NUTRITIOUS

Animal protein formulations crafted by board-certified veterinary nutritionists



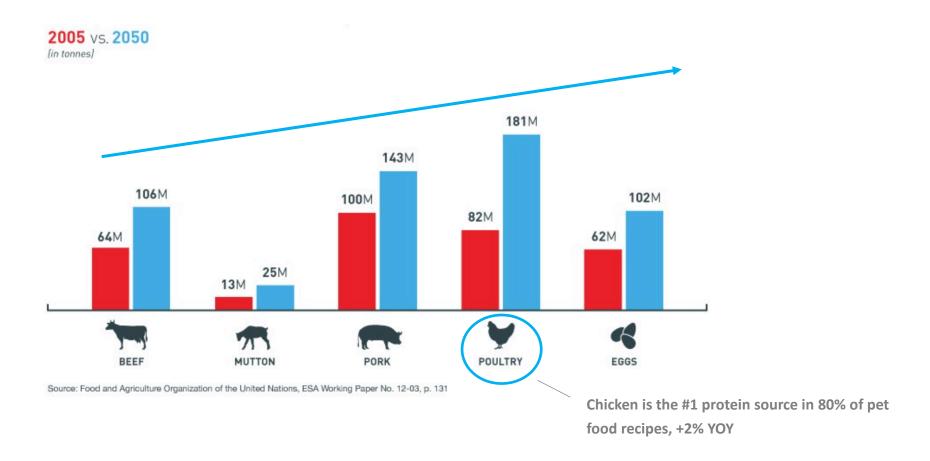
THE PROBLEM





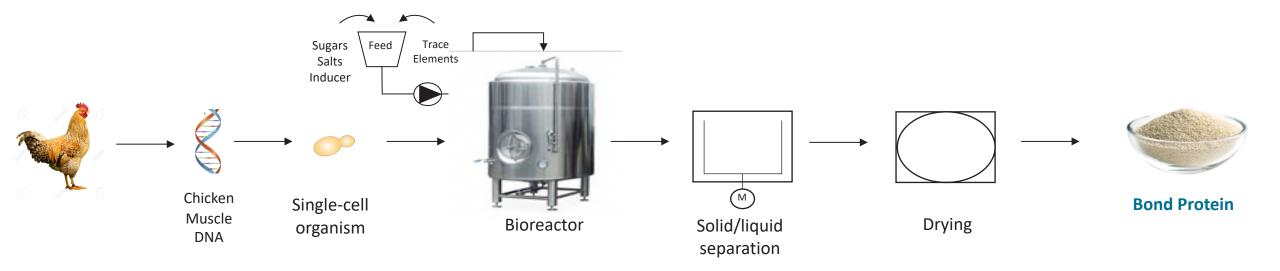


GLOBAL MEAT DEMAND RISING





PRODUCTION OF BOND ANIMAL PROTEIN





ENERGY UTILIZATION IN THE PRODUCTION PROCESS

UNIT OPERATION	UTILITY
STERILIZATION	STEAM
FERMENTATION (HEATING/COOLING/AGITATION)	ELECTRICITY
SEPARATION	ELECTRICITY
DRYING	ELECTRICITY
PUMPS	ELECTRICITY
FACILITY MAINTENANCE	ELECTRICITY

FEEDSTOCK ENERGY REQUIREMENT IS DEPENDENT ON TYPE OF FEEDSTOCK AND HOW IT'S TRANSPORTED

TYPE OF ENERGY (RENEWABLE VS FOSSIL FUELS) DEPENDENT ON WHAT IS AVAILABLE IN THE VICINITY OF THE PLANT



ENERGY/WATER/GHGE REDUCTION

PROCESS INTEGRATION UTILITY WATER RECYCLED

PROCESS STREAM WATER FILTERED AND RECYCLED

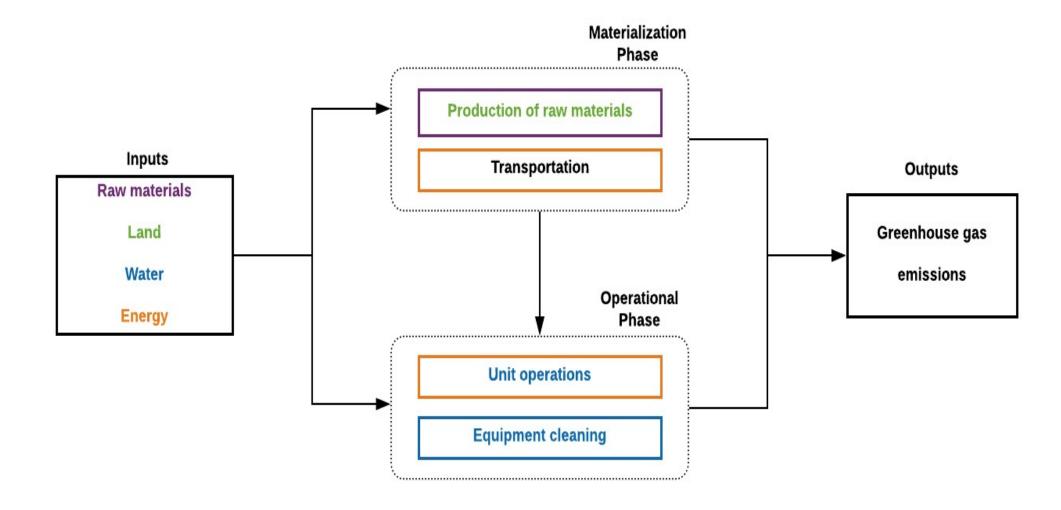
HEAT INTEGRATION HEAT EXCHANGERS BUILT INTO THE PROCESS

FEEDSTOCK CHOICE USE BY-PRODUCTS FROM OTHER PROCESSES (E.G. GLYCEROL,

MOLASSES)

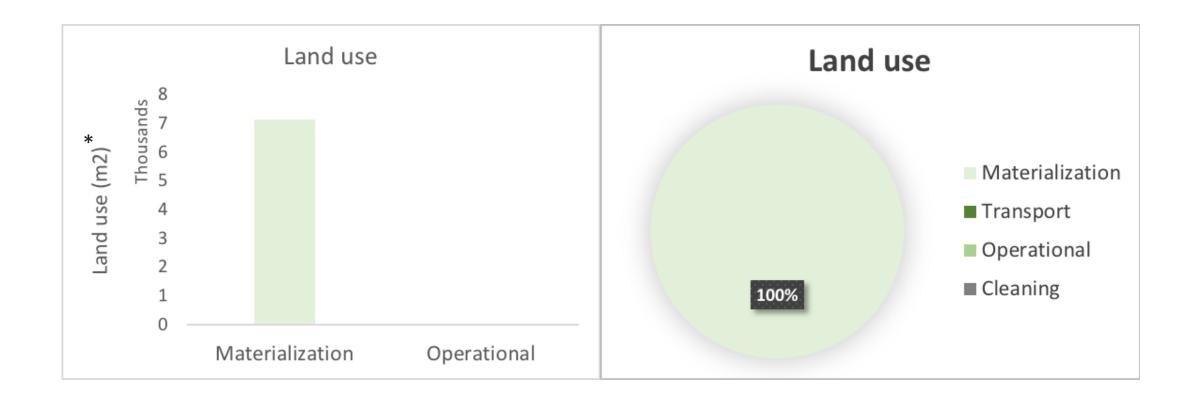


LIFE CYCLE ASSESSMENT





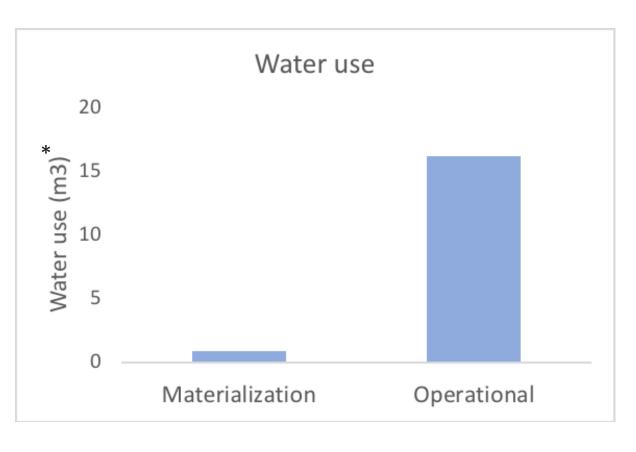
LAND USE

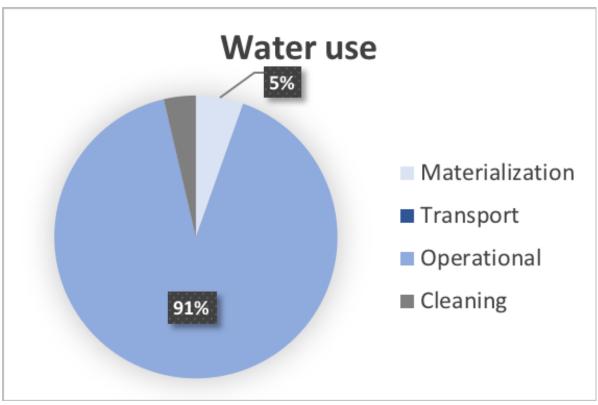




^{*}Values are estimates (have not been validated)

WATER USE

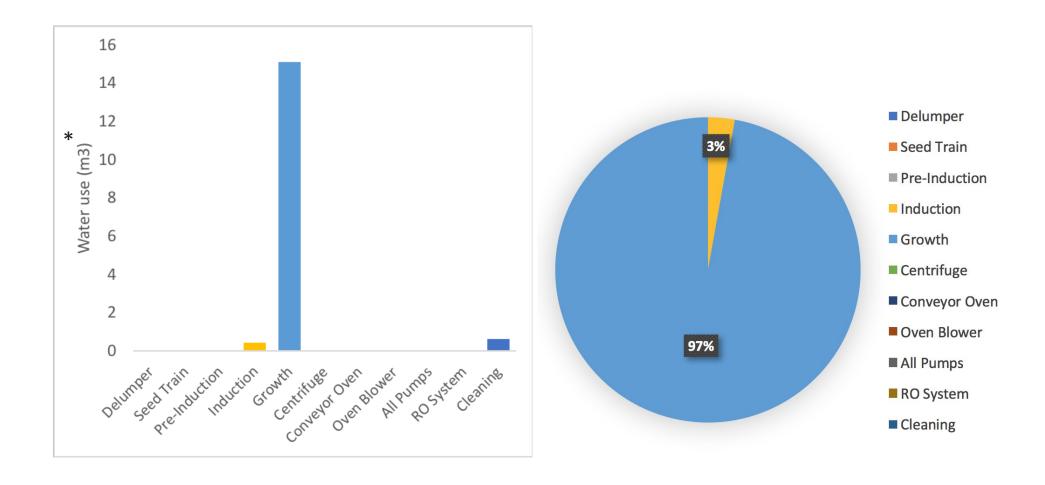






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PROCESS WATER USE





LCA OUTCOME SUMMARY

- OVERALL IMPROVEMENTS IN LAND USE, WATER USE, ENERGY AND GREENHOUSE GAS EMISSIONS

 COMPARED TO SOME OF THE COMMON TYPES OF ANIMAL AGRICULTURAL PRODUCTS
- ESPECIALLY GREAT REDUCTIONS IN LAND AND WATER USE



THANK YOU.

