

Integrated dairy manure management system to improve fertilizing properties and reduce emissions



Presenter:

Jihane EL Mahdi, PhD candidate at WUR (ABE)

Supervised by:

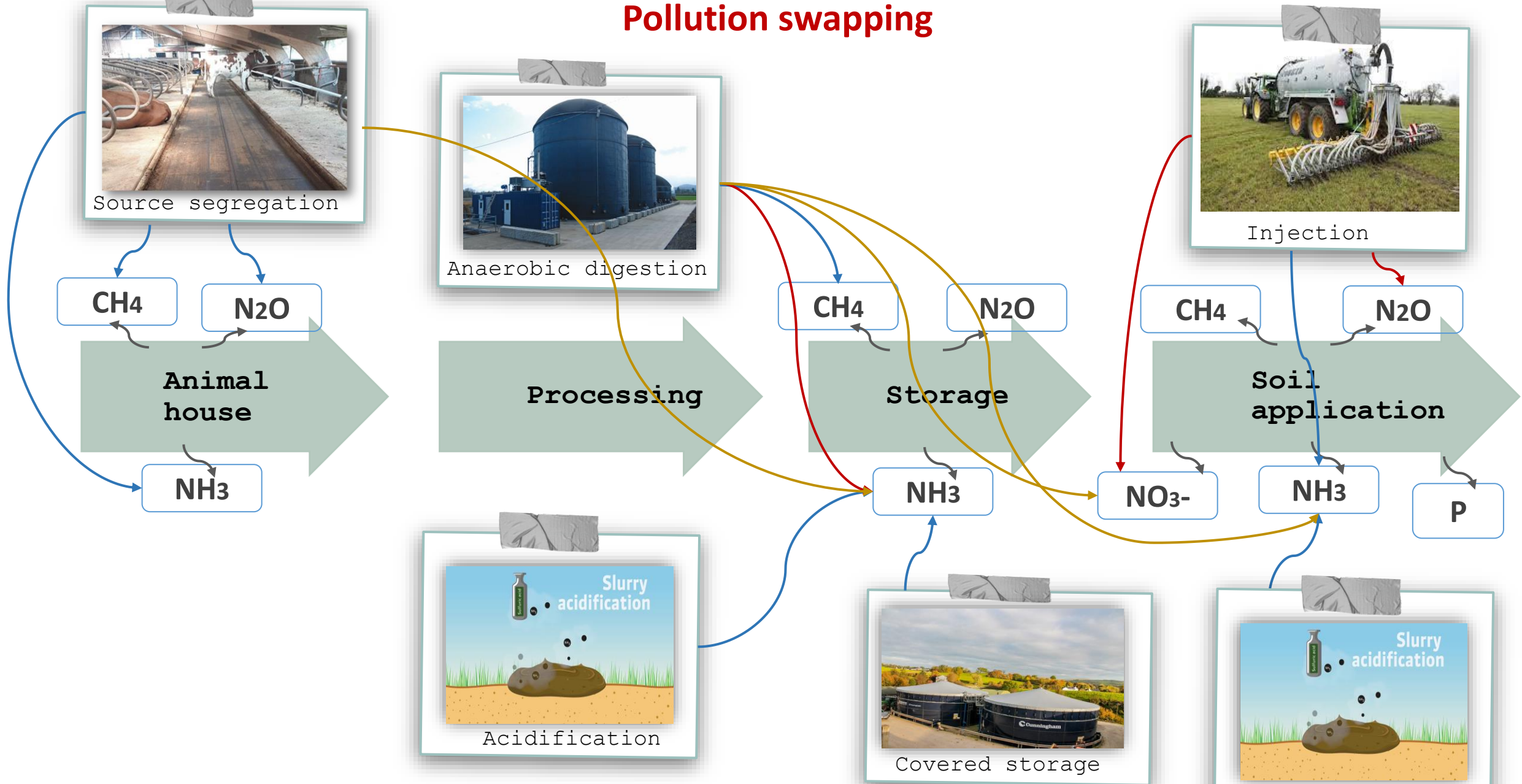
Prof. Peter Groot Koerkamp

Dr. Jerke De Vries



"This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No.860127"

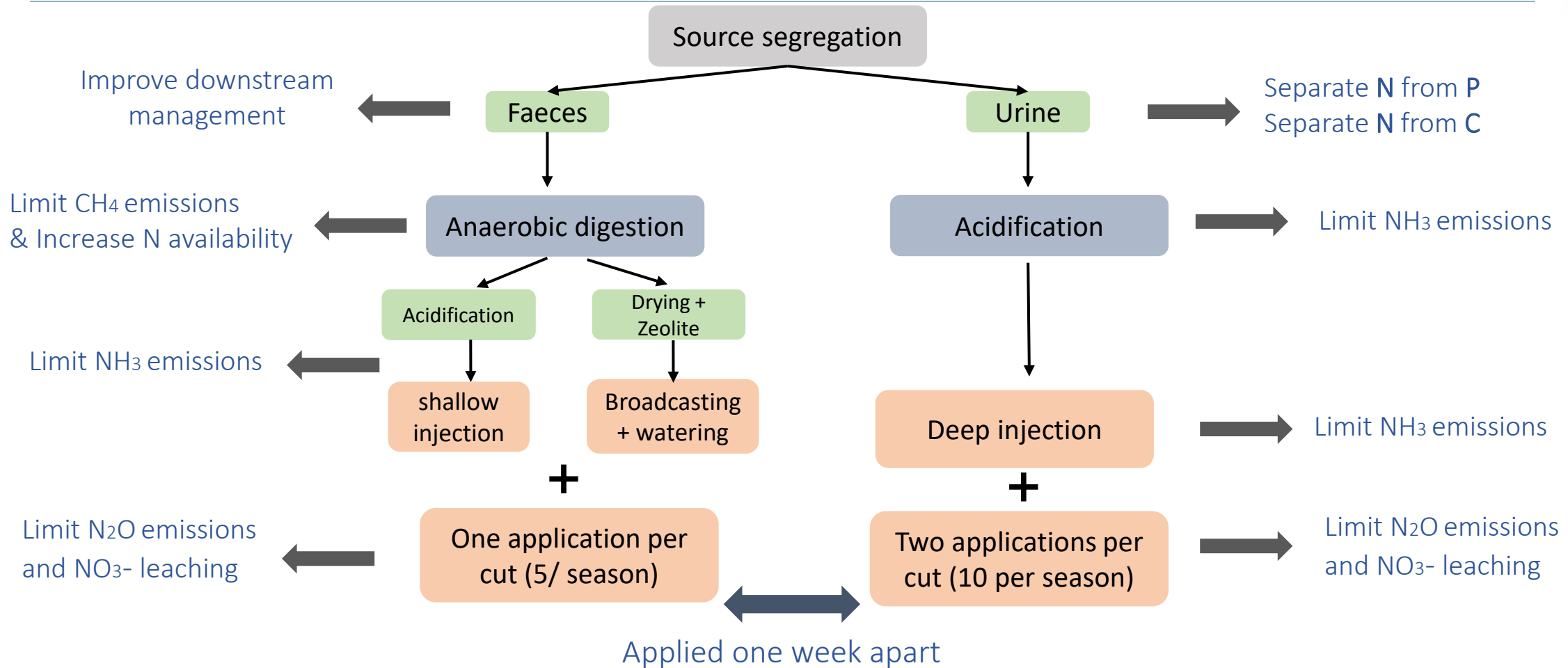
Pollution swapping



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The integrated system: Dairy manure application to a grassland

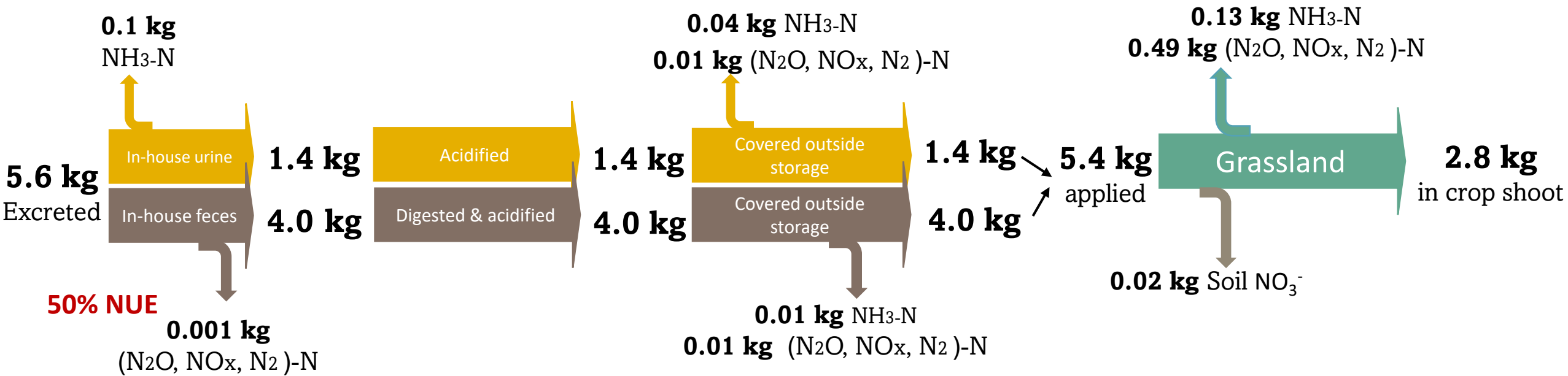
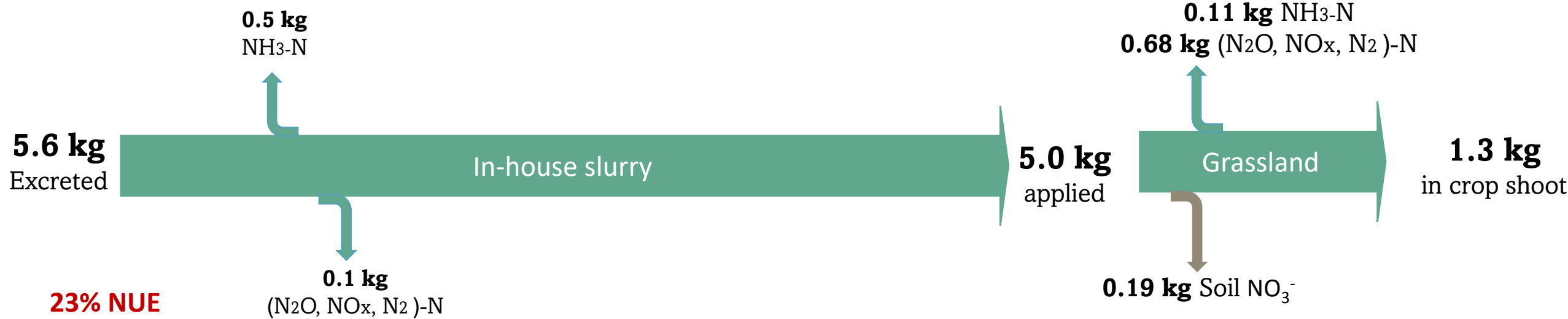


Hypothesis

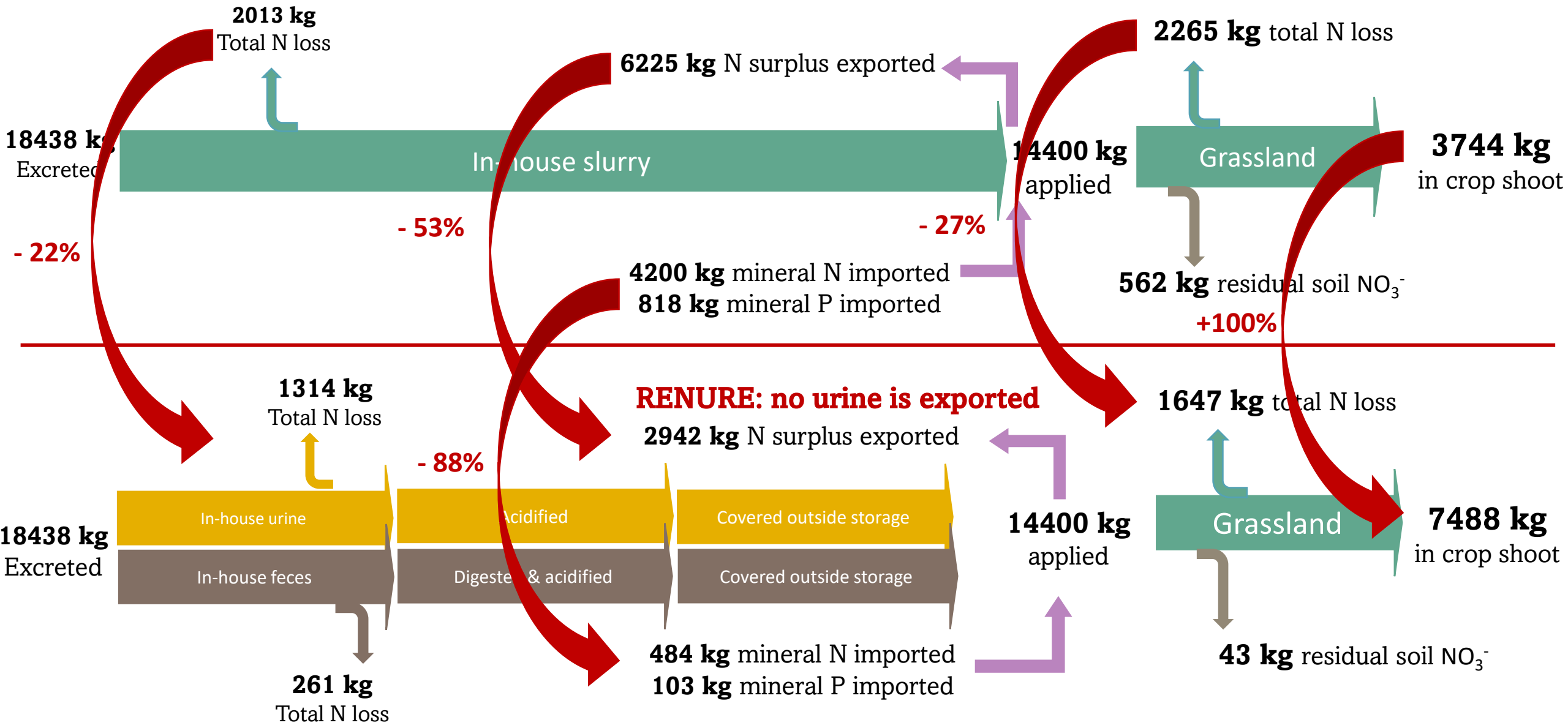
The integrated systems reduce emissions, environmental impacts and P over application, and increase NUE by at least 70% compared to shallow injected and untreated slurry



Assessment at the manure chain level: Results for 1 ton of excreta



At farm level: 112 dairy cows, 60 ha, 217 kg N/ha



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