

A TOOL FOR THE COMPARISON OF EMISSION FACTORS OF PIG AND POULTRY HOUSING

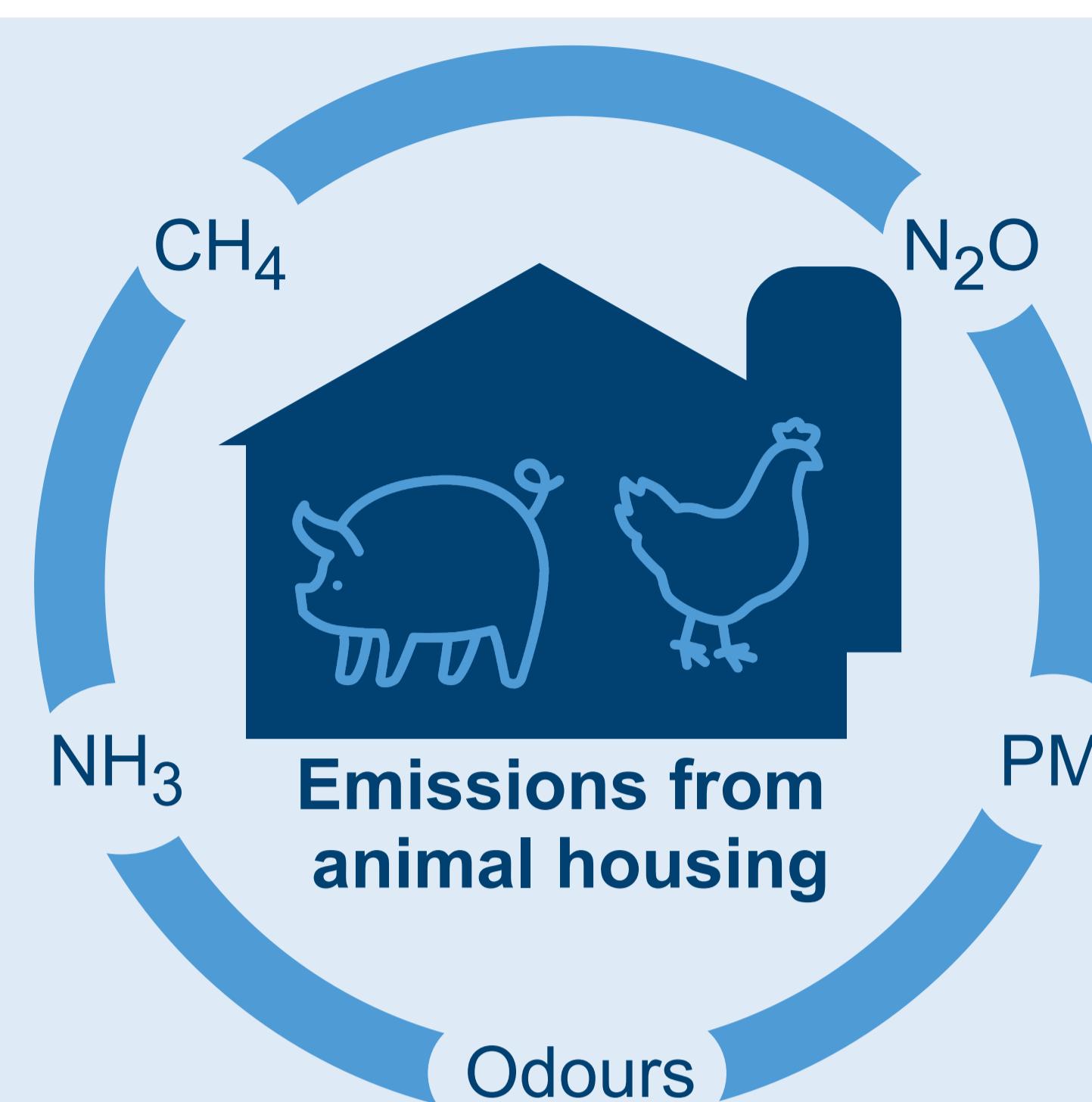


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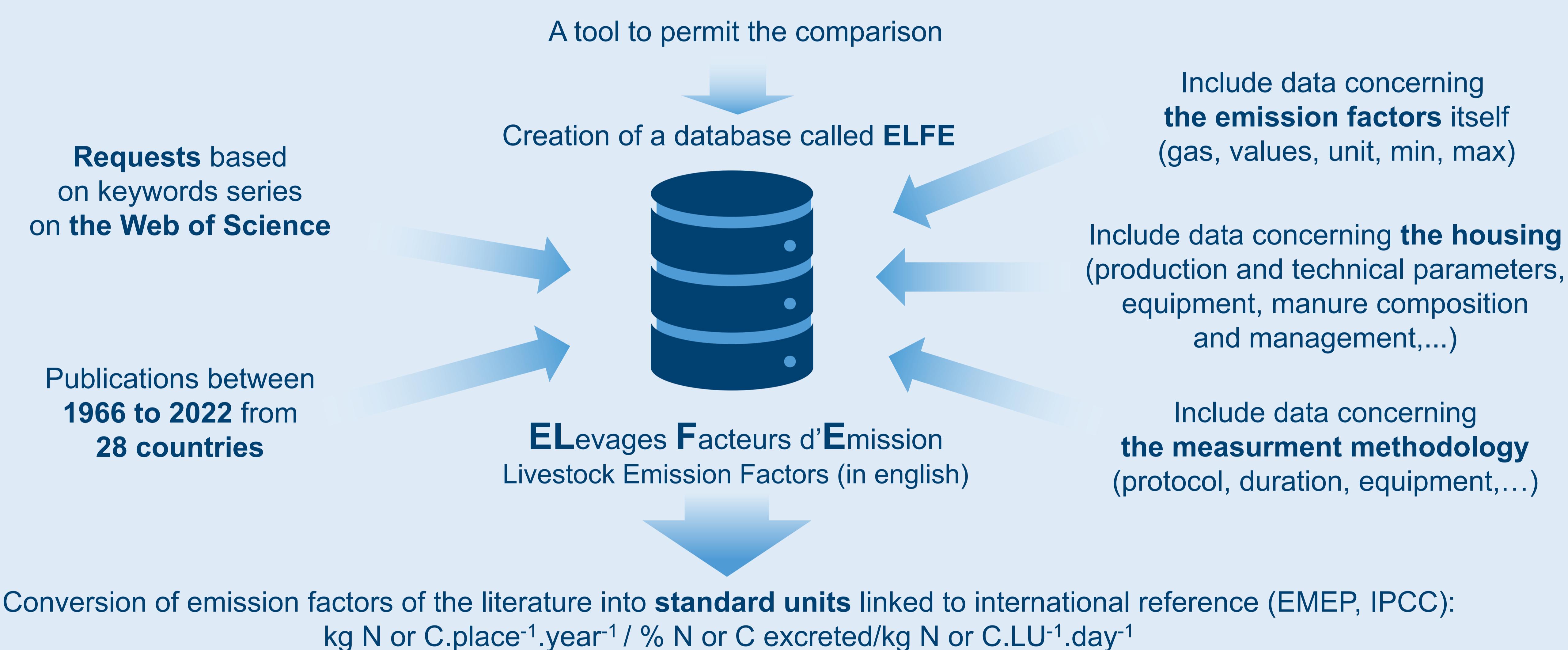
Poster n°87

Context

- Numerous research teams work on emissions but with various aims : methodology, emission factors (EF), mitigation techniques....
- Comparison of data available in the literature is often difficult
- EF are expressed in several unit of expression
- The lack of data (rearing conditions, protocol, measurement duration...) do not always permit to convert into reference units used by international structures as EMEP or IPCC

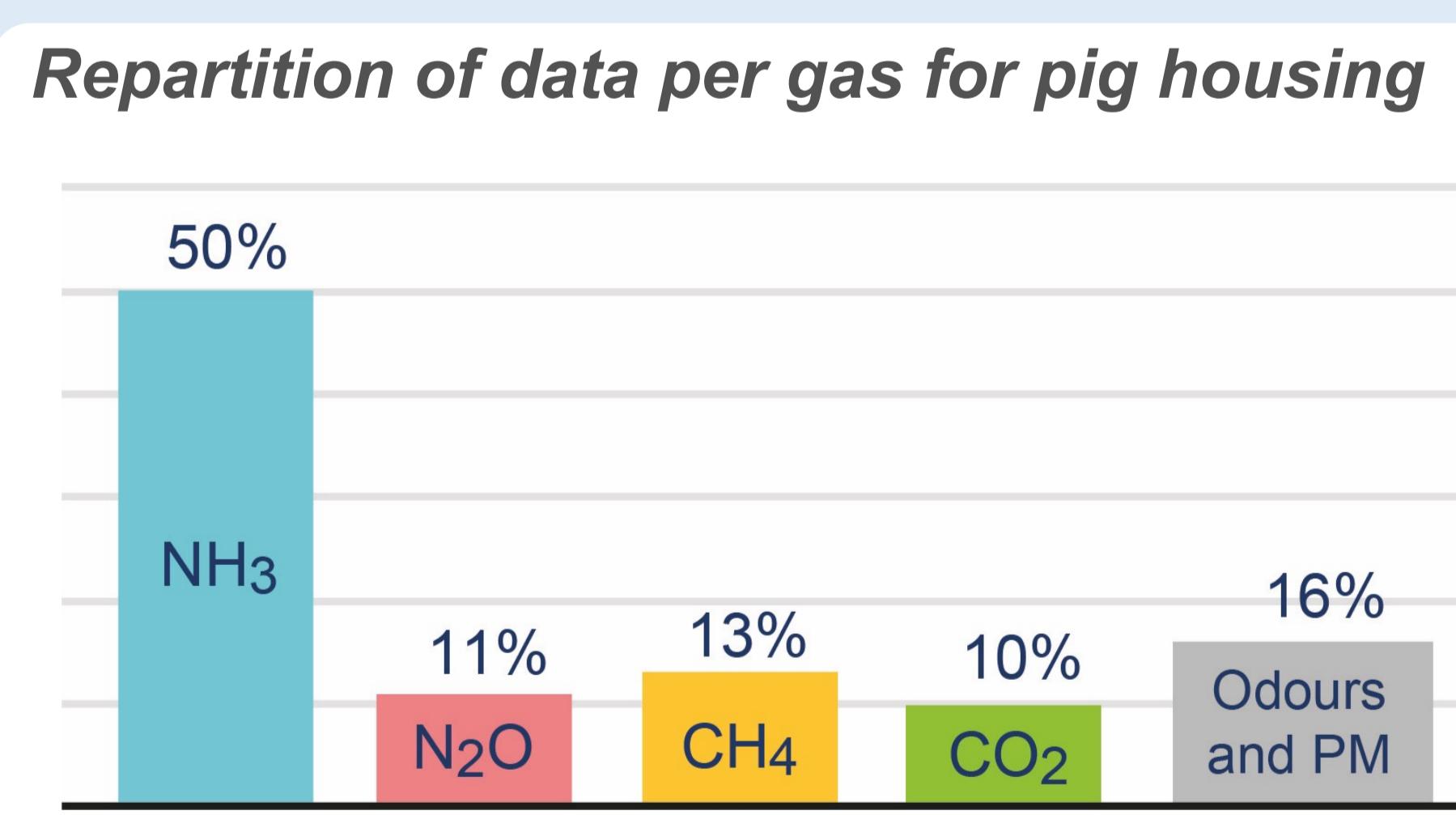


Methodology



Results for pig

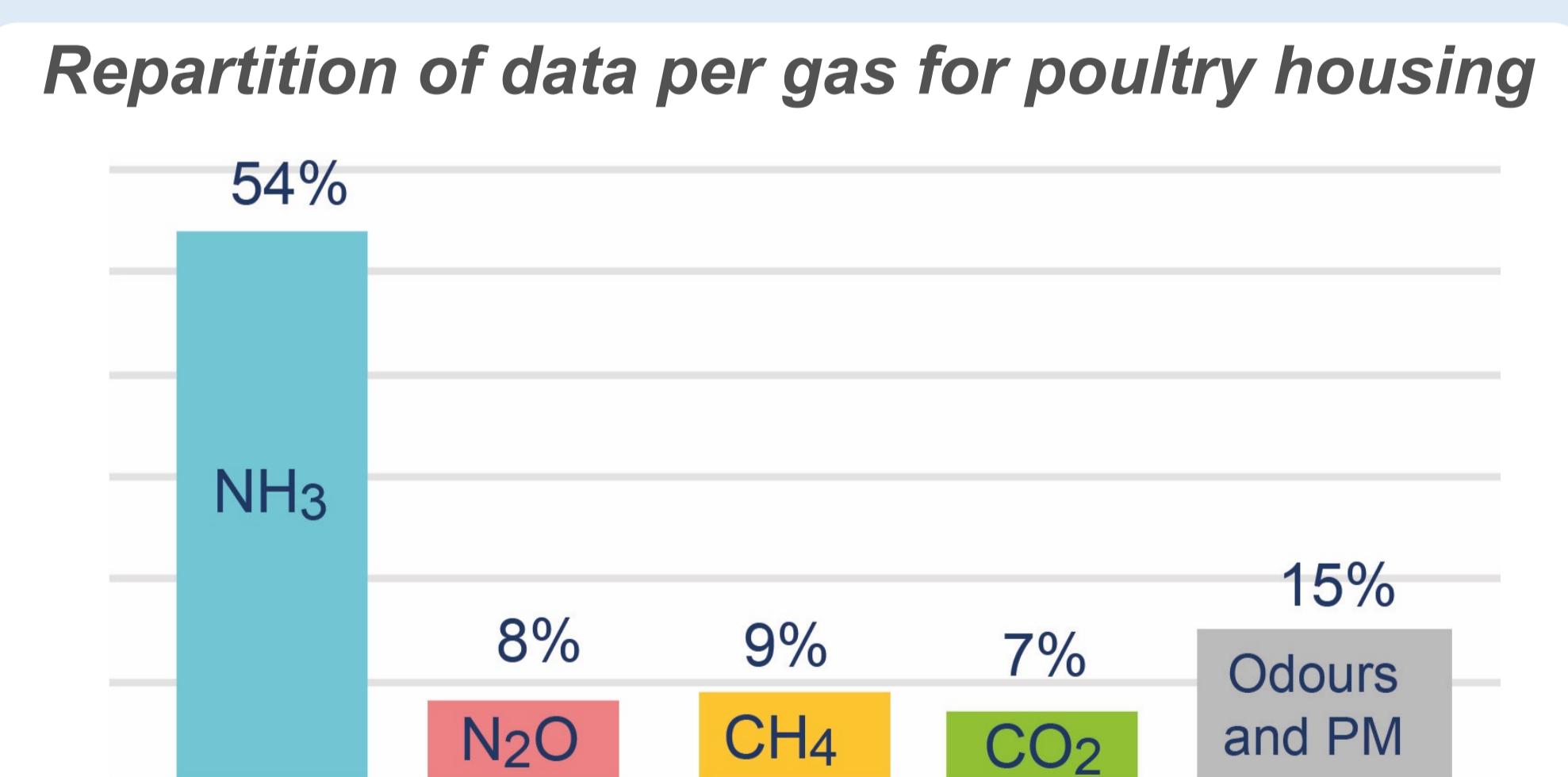
2 116 emissions factors extracted from 291 articles published in 22 countries



82% of emission factors concern fattening pig vs 9% for sows and post-weaning piglets

Results for poultry

1 027 emissions factors extracted from 106 articles published in 18 countries



52% of emission factors concern broilers vs 46% for laying hens and 3% for turkeys and ducks

To know more : Vigan A., Hassouna M., Guingand N., Brame C., Edouard N., Eglin T., Espagnol S., Eugène M., Génermont S., Lagadec S., Lorinquer E., Loyon L., Ponchant P., Robin P. 2019, Development of a database to collect emission values for livestock systems. J.Environ. Qual. 48 : 1899-1906 –doi : 10.2134/jeq2019.01.0007